



Laboratory Catalogue

Chemicals, Culture Media, Consumables,
Equipment, Safety



GENERAL INDEX

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INTRODUCTION

2015 Scharlab General Export Catalogue

Dear Customer,

For the last 65 years of Scharlab's company history, we have published our catalogues in various formats. During the last decade, the format by which we chose to advise you of our products, was an individual catalogue for each category, that made up our product portfolio.

Namely: Chemicals, Microbiology, General Purpose Laboratory items (glassware-filter papers etc), Safety and Security products, Chromatography and Instrumentation.

Now we wish to introduce a different format. Our **new general purpose catalogue**.

This new format, is in response to our customers recommendations. Namely, to combine in a single publication, all of the most commonly used laboratory products, devices and equipment.

The organisation of the catalogue, is structured in such a way, to enable the quick and easy search of the desired product. Products are grouped by categories and generic name; as well as offering the facility to search by alphabetical index , brand name or product code.

The published catalogue is not dynamic. We recommend that you should check our website for more, updated, or fuller information.

We wish to thank the contribution made by our employees, suppliers and users, whom we consult continuously, to verify the catalogue's usability and effectiveness.

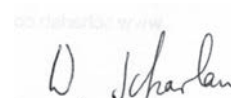
We hope that you find the new general catalogue useful, to help facilitate your daily work.

Should you not find what you need, please do not hesitate to contact our sales team, who will gladly answer your request by phone +34 937 151 940, or by email scharlab@scharlab.com. Alternatively you may enquire, via our web site www.scharlab.com.

Sentmenat, January 1st, 2015.



Pedro Gallego
GENERAL MANAGER



Werner Scharlau
CHAIRMAN

ABOUT OUR WEB SITE AND THE SERVICES OFFERED

Visit our website!

We are aware that science is constantly evolving. Laboratory and production process requirements are changing continuously, whilst needs and expectations continue to grow. Our ability to react quickly and easily to such changes is one of our key strengths. Using our website when searching for products, you will not only save time, but also the best product information will be provided.

Latest News

Keep informed of the latest news from Scharlab S.L.

Products

Quick product search.

Our search engine is optimised to enable you to find all our products easier and more intuitively.

Search by:

- Our reference
- Product description
- Manufacturer
- CAS, for a chemical product
- Cross-reference (reference from other suppliers)
- Product category or by our brands
- Usage
- Industry

Full information

We know that information is priceless. As such, we provide the widest range of product information available, including details regarding:

- Product categories
- Product qualities / grades
- Laboratory techniques and processes. Products used in production processes.

Helpdesk Service

Members of our customer helpdesk can find the right product for your requirement. Whether your inquiry relates to a chemical product, a culture medium, an item of glassware, columns for chromatography, a filter, a cartridge for solid-phase extraction, a PPE or an item of equipment.

We can also help in any after sales query. You may contact our helpdesk, if you need a certificate, a manual, any additional information or recommendation, for use of the product purchased. Our helpdesk can also respond to delivery time requests and prices for new orders.

Customised products

Returnable Drum Service

Customised chromatography columns

Pesticide mixes

Labtools

Discover our tools for chemistry and microbiology, which can assist you in your daily laboratory work.

- 3D structure
- Abbreviations
- Apps
- Blends calculator
- GHS pictograms
- Interactive periodic table
- Molar mass calculator
- Molarity
- Normality Pathogen Guide
- pH indicator selector
- Solutions by microorganism
- Solvents miscibility chart
- Synonyms
- Unit converter

My account

Using "My account" you can:

- Consult products, access all the necessary information, including prices and stock availability.
- Have access to quick and easy online shopping
- Check the status of your orders and any pending items,
- See despatch and delivery times.
- Consult delivery notes and invoices.

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ABOUT OUR WEB SITE AND THE SERVICES OFFERED (continued)

Support

Download and view all documents that you want, without the need to register.

- Certificates of Analysis
- Technical Data Sheets Safety Data Sheets
- ISO Certificates
- Catalogues
- Other promotional materials Leaflets
- Video tutorials
- Webinars & Podcasts
- FAQs for every product line

Keep up-to-date with the relevant information for your daily work; including our webinar calendar and future events.

B2B

Scharlab, SL makes available to large companies, a solution to enable electronic transactions between the client and ScharlabSL, the supplier. This is achieved, by an easy to use, simple, adaptable system, which in turn, offers a real, significant reduction in transaction costs.

How does it work?

The B2B allows the customer, without exiting their own ERP system, access their own secure work space on the Scharlab SL customer product sales system. The order when placed, will be automatically registered on your own purchasing management system. Including all updated information, such as prices, stock and delivery information.

By using this service, you as the customer, can access all product information provided by Scharlab SL, without the need to keep it internally on your system.

What is needed?

The customer must use an ERP system such as (SAP, Oracle, etc ...) with standard OCI

Configure your ERP system to access the secure Scharlab SL sales system.

To start: Activate the OCI between the two systems

EQUIPMENT VOLTAGE

The instruments in this catalogue are supplied to work at a voltage of 220 - 230 V. Other voltajes upon request.

NEWS & HIGHLIGHTS



Aquagent®
SCHARLAU
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Pharmapur® GMP
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UHPLC-MS and LC-MS solvents
SCHARLAU
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**Ultratrace®. The Scharlau
ultrapure acids
for inorganic trace analysis**
SCHARLAU
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**Scharlau ICP Standards
ISO 17025 compliance,
for inorganic trace analysis**
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Multisolvent®
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**Monobuf®. The Scharlau ready
to use standard buffer solution
packaged in single doses**
SCHARLAU
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**Scharlau solvents
for GC-Headspace**
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**Titrasure®. Secondary reference
standards for titration**
SCHARLAU
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NEWS & HIGHLIGHTS (continued)



Dehydrated culture media in preweighed sachets
SCHARLAU

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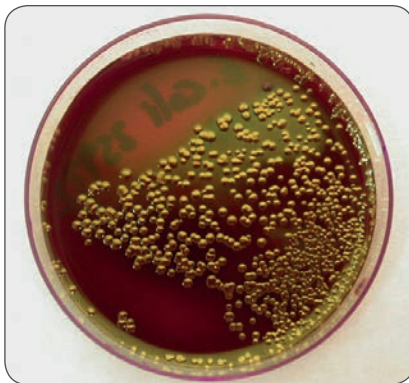
Contact and filtration plates in RD-pack presentation
SCHARLAU

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Flexibags: ready-to-use broths and diluents in bags
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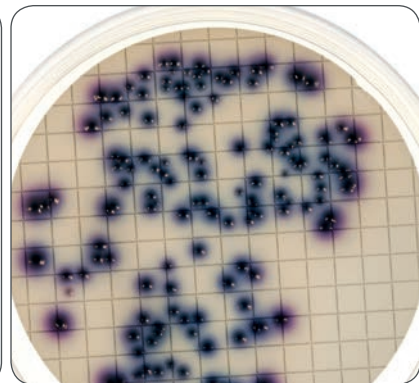
Basic Fuchsin 2,5% and Rosolic acid 1% sterile solutions
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Selective supplements for culture media
SCHARLAU

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Microinstant® Chromogenic Coliform Agar
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Laboratory bottles
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Cellulose filter papers
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Glass and quartz microfiber filters
SCHARLAU

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NEWS & HIGHLIGHTS (continued)



Cellulose extraction thimbles
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Membranes for mobile phase filtration
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PVDF and PP syringe filters
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ExtraBond® Flash cartridges
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ExtraBond® PolyU cartridges
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NEW range of Scharlau QuEChERS kits
SCHARLAU
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Crimp top chromatography vials
SCHARLAU
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SARTORIUS
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Ductless fume hood
LABOPUR
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Laminar flow cabinet FL-2
CRUMA
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pH indicator papers
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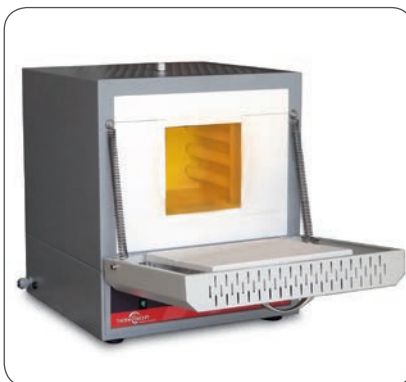
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THERMCONCEPT**
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KNF**
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**Heating magnetic stirrer
AREX digital
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Weighing bottles	790
Weighing elements	790
Weighing funnels	791
Weights, test	812
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Wipper rolls	395
Wire gauzes	629
Workwear, coats	1077



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Ultrapure acids
for inorganic trace analysis

Pure confidence



Outstanding quality in ppb and ppt grades
Analytical results for more than 60 methods
Tested by ICP-OES and ICP-MS
PE and PTFE containers for optimum product preservation

CHEMICALS

Figures of containers










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Scharlau Chemicals:
See chemicals portfolio in alphabetical order

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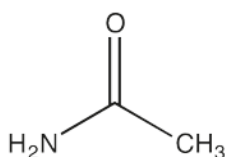


Figures of containers

Glass bottle	
HDPE container	
Glass bottle with a cap and septum	
Laminated glass bottle	
Glass ampoule	
Plastic ampoule	
Glass vial	
HDPE carboy 5L or 25L	
5L metal can	
5L aluminium container	
Wide mouth plastic container	
10L "Kubitainer"	
25L metal drum	
25L metal drum combi	
25L stainless steel drum	
60L PE drum with a spring cap	
200L metal drum	
Cardboard box	
7L returnable stainless steel packaging	
25L returnable stainless steel safety drum	
Combination pack glass bottle / cardboard box	
HDPE screw-capped bottle and dropper	

Acetamide

AC0050 Acetamide, extra pure



- Synonyms: Acetic acid amide
- C₂H₅NO
- M = 59,07 g/mol
- CAS [60-35-5]
- EINECS-No.: 200-473-5
- Solub. in water: (20 °C): soluble
- Melting point: 78 - 81 °C
- Boiling point: (13 hPa) 105 °C
- Vapour pressure: (65 °C) 1,33 hPa
- LD 50 (oral, rat): 7000 mg/kg
- EC-Index-No.: 616-022-00-4
- GHS-signal word: Warning
- GHS-H sentences: H351

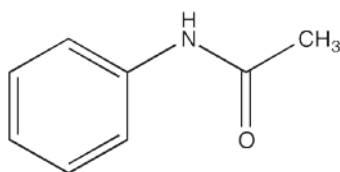
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2924 19 00 90
- Applications: solvents, plasticizer, synthesis of organic products.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
AC00500500	500 g	Ø
AC00501000	1 kg	Ø
AC0050005P	5 kg	Ø

Acetanilide

AC0065 Acetanilide, extra pure



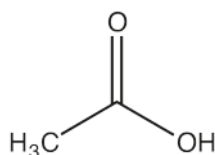
- Synonyms: N-Phenylacetamide
- C₉H₉NO
- M = 135,17 g/mol
- CAS [103-84-4]
- EINECS-No.: 203-150-7
- Solub. in water: (20 °C): 5 g/l
- Melting point: 115 °C
- Boiling point: 304 °C
- Flash pt. 173 °C
- Ignition temp.: 540 °C
- LD 50 (oral, rat): 800 mg/kg
- GHS-signal word: Warning

- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2924 29 98 99
- Applications: for pharmaceuticals synthesizing, manufacture of dyes.

assay (bromometric) 98,5 - 101 %

Art. No.	Volume	Container
AC00651000	1 kg	Ø

Acetic acid glacial



- Synonyms: Methane carboxylic acid, Methylformic acid
- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 17 °C
- Boiling point: 117 °C
- Flash pt. 39 °C
- Ignition temp.: 485 °C
- Vapour pressure: (20 °C) 15,4 hPa

- Refraction index: (20 °C) 1,37
- LD 50 (oral, rat): 3310 mg/kg
- EC-Index-No.: 607-002-00-6
- ADR: 8 CF1 II UN 2789
- IMDG: 8 II UN 2789
- IATA/ICAO: 8 II UN 2789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 21 00 10
- Applications: laboratory reagent, synthesis of organic products, in the rubber industry, in food industry.

AC0343 Acetic acid glacial, synthesis grade



assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03431000	1 l	Ø	AC0343005P	5 l	Ø
AC03432500	2,5 l	Ø	AC0343025P	25 l	Ø

AC0342 Acetic acid glacial, extra pure, Pharpur®, Ph Eur, BP, USP



assay (acidimetric) 99,0 - 100,5 %
residue on evaporation max. 0,001 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03421000	1 l	Ø	AC0342005P	5 l	Ø
AC03422500	2,5 l	Ø	AC0342025P	25 l	Ø

AC0344 Acetic acid glacial, reagent grade, ACS, ISO, Reag. Ph Eur



assay (acidimetric) min. 99,8 %
residue on evaporation max. 0,0005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03441000	1 l	Ø	AC0344005P	5 l	Ø
AC03442500	2,5 l	Ø	AC0344025P	25 l	Ø

AC0345 Acetic acid glacial, min. 99,8%, reagent grade, according to Wjjs



assay (acidimetric) min. 99,8 %
residue on evaporation max. 0,0005 %
water (K.F.) max. 0,2 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03451000	1 l	Ø	AC03452500	2,5 l	Ø



AC0353 Acetic acid glacial, reagent grade, ACS, ISO, packed in HDPE bottles

 assay (acidimetric) min. 99,8 %
 residue on evaporation max. 0,001 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03531000	1 l	Ⓟ	AC0353005P	5 l	Ⓟ
AC03532500	2,5 l	Ⓟ	AC0353025P	25 l	Ⓟ

AC0346 Acetic acid glacial, HPLC grade

 assay (acidimetric) min. 99,8 %
 identity (IR-spectrum) passes test
 density (20°/4°) 1,048 - 1,050
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,2 %

 Microfiltered through membranes of pore diameter
 0,22µm min. transmission/max. absorbance in a 1,0
 cm cell at
 wavelength: T(%) A (AU)
 260 nm. 80 % 0,097 AU
 270 nm. 95 % 0,022 AU
 280 nm. 98 % 0,009 AU

Art. No.	Volume	Container
AC03461000	1 l	Ⓟ
AC03462500	2,5 l	Ⓟ

AC0347 Acetic acid glacial, eluent additive for LC-MS

 assay (acidimetric) min. 99,9 %
 suitability for use in LC-MS passes test

Art. No.	Volume	Container
AC03470050	50 ml	Ⓟ

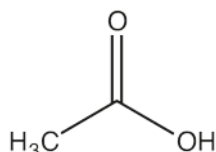
AC0358 Acetic acid glacial, Ultratrace®, ppb-trace analysis grade

assay (acidimetric) min. 99 %

Art. No.	Volume	Container
AC03580500	500 ml	Ⓟ

AC0359 Acetic acid glacial, Ultratrace®, ppt-trace analysis grade

Art. No.	Volume	Container
AC03590250	250 ml	Ⓟ

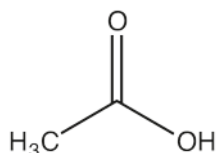
Acetic acid, 96% v/v
AC0354 Acetic acid, solution 96% v/v, reagent grade


- Synonyms: Methane carboxylic acid, Methylformic acid
- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: ~ 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 17 °C
- Boiling point: 117 °C
- Flash pt. 39 °C
- Ignition temp.: 485 °C
- Vapour pressure: (20 °C) 15,4 hPa
- Refraction index: (20 °C) 1,37
- LD 50 (oral, rat): 3310 mg/kg
- EC-Index-No.: 607-002-00-6
- ADR: 8 CF1 II UN 2789

- IMDG: 8 II UN 2789
- IATA/ICAO: 8 II UN 2789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 21 00 00
- Applications: analytical chemistry, synthesis of organic products, acidifying agent, for pharmaceuticals synthesizing, in food industry.

assay (acidimetric) min. 96 %

Art. No.	Volume	Container
AC03541000	1 l	Ⓟ
AC03542500	2,5 l	Ⓟ

Acetic acid, solution 80%
AC0351 Acetic acid, solution 80% v/v, extra pure


- Synonyms: Methane carboxylic acid solution, Methylformic acid solution
- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: 1,07 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 40 °C
- LD 50 (oral, rat): 3310 mg/kg
- EC-Index-No.: 607-002-00-6
- ADR: 8 CF1 II UN 2789
- IMDG: 8 II UN 2789
- IATA/ICAO: 8 II UN 2789
- GHS-signal word: Danger

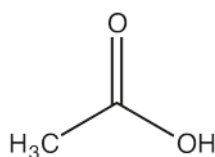
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 21 00 00
- Applications: analytical chemistry, synthesis of organic products, acidifying agent, for pharmaceuticals synthesizing, in food industry.

assay (acidimetric) min. 80 %

Art. No.	Volume	Container
AC03511000	1 l	Ⓟ
AC03512500	2,5 l	Ⓟ
AC0351005P	5 l	Ⓟ

Acetic acid, solution 60%

AC0349 Acetic acid, solution 60% v/v, extra pure



- Synonyms: Methane carboxylic acid solution, Methylformic acid solution
- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- LD 50 (oral, rat): 3310 mg/kg (pure substance)
- EC-Index-No.: 607-002-00-6
- ADR: 8 C3 II UN 2790
- IMDG: 8 II UN 2790
- IATA/ICAO: 8 II UN 2790
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226

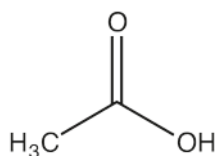
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 21 00 00
- Applications: analytical chemistry, synthesis of organic products, acidifying agent, for pharmaceuticals synthesizing, in food industry.

assay (acidimetric)min. 60 %

Art. No.	Volume	Container
AC03491000	1 l	0
AC03492500	2,5 l	0

Acetic acid, solution 50%

AC0350 Acetic acid, solution 50% v/v, extra pure



- Synonyms: Methane carboxylic acid solution, Methylformic acid solution
- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: 1,052 g/cm³
- Flash pt. > 100 °C
- LD 50 (oral, rat): 3310 mg/kg (pure substance)
- EC-Index-No.: 607-002-00-6
- ADR: 8 C3 II UN 2790
- IMDG: 8 II UN 2790
- IATA/ICAO: 8 II UN 2790
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226

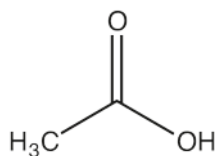
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 21 00 00
- Applications: analytical chemistry, synthesis of organic products, acidifying agent, for pharmaceuticals synthesizing, in food industry.
- Appearance: Colourless clear liquid

assay (acidimetric)min. 50 %

Art. No.	Volume	Container
AC03501000	1 l	0
AC03502500	2,5 l	0

Acetic acid, volumetric solutions

AC0365 Acetic acid, solution 1 mol/l (1 N)

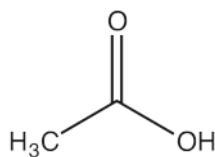


- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: 1,01 g/cm³
- EC-Index-No.: 607-002-00-6
- GHS-H sentences: EUH210
- Tariff number: 2915 21 00 00

- Applications: analytical chemistry, acidifying agent, titrant in volumetric analysis.
- Appearance: Colourless clear liquid

Art. No.	Volume	Container
AC03651000	1 l	0

AC0364 Acetic acid, solution 0,1 mol/l (0,1 N)

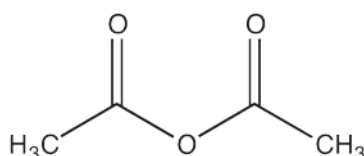


- CH₃COOH
- M = 60,05 g/mol
- CAS [64-19-7]
- EINECS-No.: 200-580-7
- Density: ~ 1,002 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 607-002-00-6
- Tariff number: 2915 21 00 00

- Applications: analytical chemistry, acidifying agent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC03641000	1 l	0

Acetic anhydride



- Synonyms: Acetyl oxide
- (CH₃CO)₂O
- M = 102,09 g/mol
- CAS [108-24-7]
- EINECS-No.: 203-564-8
- Density: 1,08 g/cm³
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: -73 °C
- Boiling point: 138 - 140,5 °C
- Flash pt. 49 °C
- Ignition temp.: 330 °C
- Vapour pressure: (20 °C) 4hPa
- Refraction index: (n 20 °C/D) 1,3903

- LD 50 (oral, rat): 1780 mg/kg
- EC-Index-No.: 607-008-00-9
- ADR: 8 CF1 II UN 1715
- IMDG: 8 II UN 1715
- IATA/ICAO: 8 II UN 1715
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226 - H302 - H332
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 24 00 00
- Applications: analytical chemistry, synthesis of organic products, acetylation agent.

AN0154 Acetic anhydride, extra pure



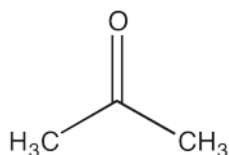
assay (G.C.)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AN01541000	1 l	0	AN0154005P	5 l	0
AN01542500	2,5 l	0	AN0154025A	25 l	0

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

AN0155 Acetic anhydride, reagent grade, ACS, ISO, Reag. Ph Eur

assay (G.C.)	Art. No.	Volume	Container	Art. No.	Volume	Container
min. 99 %	AN01551000	1 l	Ø	AN0155005P	5 l	Ø
	AN01552500	2,5 l	Ø			

Acetone


- Synonyms: Dimethyl ketone, 2-Propanone
- C₃H₆O
- M = 58,08 g/mol
- CAS [67-64-1]
- EINECS-No.: 200-662-2
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -95 °C
- Boiling point: 56 °C
- Flash pt. < -20 °C
- Ignition temp.: 540 °C
- Vapour pressure: (20 °C) 233 hPa
- Refraction index: (n 20 °C/D) 1,3588
- Dielectric const.: (25 °C) 20,7
- LD 50 (oral, rat): 5800 mg/kg
- EC-Index-No.: 606-001-00-8
- ADR: 3 F1 II UN 1090
- IMDG: 3 II UN 1090
- IATA/ICAO: 3 II UN 1090
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - EUH066 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2914 11 00 00
- Applications: solvents, analytical chemistry, synthesis of organic products, photography.

AC0306 Acetone, synthesis grade

assay (G.C.)	Art. No.	Volume	Container	Art. No.	Volume	Container
min. 99,5 %	AC03061000	1 l	Ø	AC0306025L	25 l	Ø
	AC03062500	2,5 l	Ø	AC0306025P	25 l	Ø
	AC0306005P	5 l	Ø	AC0306025S	25 l	Ø
	AC0306007E	7 l	Ø	AC0306030S	30 l	Ø

AC0312 Acetone, extra pure, Pharmapur®, Ph Eur, BP, NF

assay (G.C.)	Art. No.	Volume	Container	Art. No.	Volume	Container
min. 99,5 %	AC03121000	1 l	Ø	AC0312005P	5 l	Ø
residue on evaporation	AC03122500	2,5 l	Ø	AC0312025P	25 l	Ø
max. 0,002 %						
water (K.F.)						
max. 0,3 %						
Residual solvents are analysed according to guideline CPMP/ICH/283/95.						

AC0314 Acetone, reagent grade, ACS, ISO, Reag. Ph Eur

assay (G.C.)	Art. No.	Volume	Container	Art. No.	Volume	Container
min. 99,8 %	AC03141000	1 l	Ø	AC0314025A	25 l	Ø
residue on evaporation	AC03142500	2,5 l	Ø	AC0314025P	25 l	Ø
max. 0,0005 %	AC0314005P	5 l	Ø	AC0314025S	25 l	Ø
water (K.F.)	AC0314007E	7 l	Ø	AC0314200L	200 l	Ø
max. 0,2 %						

AC0316 Acetone, dried (max. 0,01% H₂O), reagent grade

assay (G.C.)	Art. No.	Volume	Container
min. 99,8 %	AC03161000	1 l	Ø
residue on evaporation			
max. 0,0005 %			
water (K.F.)			
max. 0,01 %			

AC0310 Acetone, Multisolvant® HPLC grade ACS ISO UV-VIS

assay (G.C.)	Art. No.	Volume	Container
min. 99,8 %	AC03101000	1 l	Ø
residue on evaporation	AC03102500	2,5 l	Ø
max. 0,0002 %	AC03104000	4 l	Ø
water (K.F.)	AC0310007E	7 l	Ø
max. 0,2 %	AC0310025S	25 l	Ø
min. transmission/max. absorbance	AC0310030S	30 l	Ø
wavelength:			
T(%)	A (AU)		
330 nm.	10 %	1,000 AU	
335 nm.	50 %	0,301 AU	
339 nm.	80 %	0,097 AU	
342 nm.	90 %	0,046 AU	

AC0308 Acetone, for GC residue analysis




assay (G.C.)	Art. No.	Volume	Container	Art. No.	Volume	Container
min. 99,8 %	AC03081000	1 l	Ø	AC0308007E	7 l	Ø
residue on evaporation	AC03082500	2,5 l	Ø			
max. 0,0001 %						
water (K.F.)						
max. 0,2 %						
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.						

AC0309 Acetone, GC ultra-trace analysis grade



assay (G.C.)	Art. No.	Volume	Container
min. 99,8 %	AC03091000	1 l	Ø
residue on evaporation	AC03092500	2,5 l	Ø
max. 0,0001 %			
water (K.F.)			
max. 0,2 %			
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.			

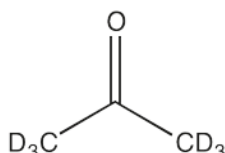
AC0319 Acetone, 99,8%, anhydrous (max. 0,005% H₂O)


assay (G.C.) min. 99,8 %
water (K.F.) max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03190100	100 ml		AC03191000	1 l	
AC03190500	500 ml				


AC0320 Acetone, VLSI grade

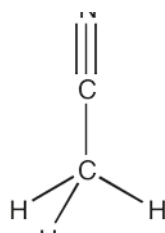

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03202500	2,5 l		AC0320005P	5 l	

Acetone-d₆
AC0322 Acetone-d₆, deuteration degree min. 99,8%, NMR spectroscopy grade, Spectrosol®


- Synonyms: Hexadeuteroacetone
- C₃D₆O
- M = 64,12 g/mol
- CAS [666-52-4]
- EINECS-No.: 211-563-9
- Density: 0,87 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -95,4 °C
- Boiling point: 56 °C
- Flash pt. < -20 °C
- Ignition temp.: 540 °C
- Vapour pressure: (20 °C) 233 hPa
- Dielectric const.: (25 °C) 20,7
- LD 50 (oral, rat): 5800 mg/kg
- EC-Index-No.: 606-001-00-8

- ADR: 3 F1 II UN 1090
- IMDG: 3 II UN 1090
- IATA/ICAO: 3 II UN 1090
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - EUH066 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
AC03220010	10 ml	








Acetonitrile


- Synonyms: Methyl cyanide, Cyanomethane
- CH₃CN
- M = 41,05 g/mol
- CAS [75-05-8]
- EINECS-No.: 200-835-2
- Density: 0,786 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -45,7 °C
- Boiling point: 81,6 °C
- Flash pt. 2 °C
- Ignition temp.: 524 °C
- Vapour pressure: (20 °C) 97 hPa
- Refraction index: (n 20 °C) 1,3442
- Dielectric const.: (20 °C) 37,5

- LD 50 (oral, rat): 2730 - 3800 mg/kg
- EC-Index-No.: 608-001-00-3
- ADR: 3 F1 II UN 1648
- IMDG: 3 II UN 1648
- IATA/ICAO: 3 II UN 1648
- GHS-signal word: Danger
- GHS-H sentences: H225 - H302 - H312 - H332 - H319
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P305 + P351 + P338 - P501a
- Tariff number: 2926 90 95 90
- Applications: chromatography, synthesis of organic products, solvents.









AC0333 Acetonitrile, Multisolvant® HPLC grade ACS UV-VIS, Reag. Ph Eur


assay (G.C.) min. 99,9 %
residue on evaporation max. 0,0002 %
water (K.F.) max. 0,03 %
min. transmission/max. absorbance
wavelength: T(%) A (AU)
195 nm. 70 % 0,155 AU
200 nm. 90 % 0,046 AU
230 nm. 98 % 0,009 AU
Microfiltered through membranes of pore diameter
0,22µm

Art. No.	Volume	Container	Art. No.	Volume	Container
AC03331000	1 l		AC0333185E	185 l	
AC03332500	2,5 l				
AC03334000	4 l				
AC0333007E	7 l				
AC0333020S	20 l				
AC0333025S	25 l				

AC0329 Acetonitrile, gradient 240nm/ far UV HPLC grade


assay (G.C.) min. 99,9 %
residue on evaporation max. 0,0002 %
water (K.F.) max. 0,02 %
gradient grade (240 nm) maximum background absorbance:0,01 AU maximum peak absorbance:0,0015 AU
min. transmission/max. absorbance
wavelength: T(%) A (AU)
200 nm. 90 % 0,046 AU
205 nm. 92 % 0,036 AU
210 nm. 95 % 0,022 AU
220 nm. 98 % 0,009 AU

Art. No.	Volume	Container
AC03291000	1 l	
AC03292500	2,5 l	
AC03294000	4 l	
AC0329007E	7 l	
AC0329025S	25 l	
AC0329030S	30 l	
AC0329100S	100 l	
AC0329185E	185 l	

 A
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R
S
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W
X
Y
Z

AC0331 Acetonitrile, supragradient HPLC grade

assay (G.C.) min. 99,9 %	gradient grade (210 nm) maximum peak absorbance: 0,0015 AU	maximum background absorbance: 0,01 AU
residue on evaporation max. 0,0001 %	fluorescence analysis: maximum absorbance: 1 ppb as quinine (in 0,1 N sulfuric acid), for the spectra recorded at the following conditions: EX wavelength between 220 and 450 nm	EM wavelength between 250 and 550 nm
water (K.F.) max. 0,01 %	Microfiltered through membranes of pore diameter 0,22µm	
min. transmission/max. absorbance wavelength:	T(%)	A (AU)
195 nm	80 %	0,097 AU
200 nm	95 %	0,022 AU
210 nm	97 %	0,013 AU
220 nm	98 %	0,009 AU

Art. No.	Volume	Container
AC03311000	1 l	0
AC03312500	2,5 l	0
AC03314000	4 l	0
AC0331007E	7 l	0
AC0331025S	25 l	0
AC0331030S	30 l	0
AC0331185E	185 l	0

AC0391 Acetonitrile, UHPLC-MS

assay (G.C.) min. 99,9 %	suitability for use in UHPLC-MS passes test
potassium (K) max. 0,00001 %	Microfiltered through membranes of pore diameter 0,1µm
sodium (Na) max. 0,00001 %	
residue on evaporation max. 0,0001 %	
water (K.F.) max. 0,01 %	

Art. No.	Volume	Container
AC03911000	1 l	0
AC03912500	2,5 l	0

AC0371 Acetonitrile, LC-MS

assay (G.C.) min. 99,9 %	water (K.F.) max. 0,01 %
potassium (K) max. 0,00001 %	suitability for use in LC-MS passes test
sodium (Na) max. 0,00001 %	Microfiltered through membranes of pore diameter 0,22µm
residue on evaporation max. 0,0001 %	

Art. No.	Volume	Container
AC03711000	1 l	0
AC03712500	2,5 l	0

AC0338 Acetonitrile, for GC residue analysis, suitable for QuEChERS

assay (G.C.) min. 99,8 %	Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for QuEChERS
residue on evaporation max. 0,0001 %	
water (K.F.) max. 0,02 %	

Art. No.	Volume	Container
AC03381000	1 l	0
AC03382500	2,5 l	0

AC0326 Acetonitrile, 99,9%, anhydrous (max. 0,001% H₂O)

assay (G.C.) min. 99,9 %	Art. No.	Volume	Container	Art. No.	Volume	Container
water (K.F.) max. 0,001 %	AC03260100	100 ml	0	AC03261000	1 l	0
	AC03260500	500 ml	0			

Art. No.	Volume	Container
AC03261000	1 l	0

AC0370 Acetonitrile, 99,7%, anhydrous (max. 0,005% H₂O), with molecular sieves

assay (G.C.) min. 99,7 %	Art. No.	Volume	Container
water (K.F.) max. 0,005 %	AC03701000	1 l	0

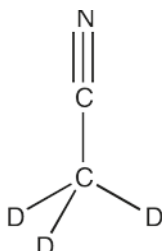
Art. No.	Volume	Container
AC03701000	1 l	0

AC0336 Acetonitrile, max. 0,003% H₂O, DNA synthesis grade

Art. No.	Volume	Container
AC03362500	2,5 l	0

Acetonitrile-d₃

AC0332 Acetonitrile-d₃, deuteration degree min. 99,8%, NMR spectroscopy grade, Spectrosol®



- Synonyms: Trideuteroacetonitrile
- CD₃CN
- M = 44,05 g/mol
- CAS [2206-26-0]
- EINECS-No.: 218-616-5
- Density: 0,84 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -46 °C
- Boiling point: 79 °C
- Flash pt. 5 °C
- Ignition temp.: 525 °C
- Vapour pressure: (20 °C) 97 hPa
- LD 50 (oral, rat): 2730 - 3800 mg/kg
- ADR: 3 F1 II UN 1648

- IMDG: 3 II UN 1648
- IATA/ICAO: 3 II UN 1648
- GHS-signal word: Danger
- GHS-H sentences: H225 - H302 - H312 - H332 - H319
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P305 + P351 + P338 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
AC03320010	10 ml	0

Acetonitrile with 0,1% acetic acid

AC0374 Acetonitrile with 0,1% acetic acid, LC-MS

Flash pt. 6 °C	GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P305 + P351 + P338 - P501a	Microfiltered through membranes of pore diameter 0,22µm
ADR: 3 F1 II UN 1993	Tariff number: 3822 00 00 00	
IMDG: 3 II UN 1993	Applications: analytical chemistry, chromatography.	
IATA/ICAO: 3 II UN 1993		
GHS-signal word: Danger		
GHS-H sentences: H225 - H312 - H332 - H319 -	acetic acid content (v/v) 0,093 - 0,107 %	
	suitability for use in LC-MS passes test	

Art. No.	Volume	Container
AC03741000	1 l	0

Acetonitrile with 0,1% formic acid

AC0373 Acetonitrile with 0,1% formic acid, LC-MS



- Density: 0,78 g/cm³
- Flash pt. 2 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H312 - H332 - H319

- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P305 + P351 + P338 - P501a -
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, chromatography.
- formic acid content (w/v) 0,093 - 0,107 %
 suitability for use in LC-MS passes test

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AC03731000	1 l	0

Acetonitrile with 0,1% trifluoroacetic acid

AC0372 Acetonitrile with 0,1% trifluoroacetic acid, LC-MS



- Flash pt. 6 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H312 - H332 - H319

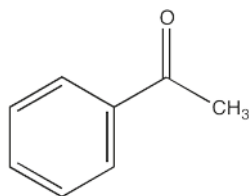
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P305 + P351 + P338 - P501a -
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, chromatography.
- trifluoroacetic acid content
 (v/v) 0,093 - 0,107 %

suitability for use in LC-MS passes test
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AC03721000	1 l	0

Acetophenone

AC0300 Acetophenone, extra pure



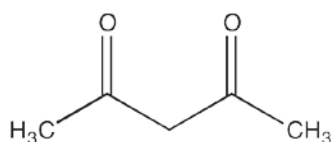
- Synonyms: Methyl phenyl ketone, Phenyl methyl ketone
- C₈H₈O
- M = 120,15 g/mol
- CAS [98-86-2]
- EINECS-No.: 202-708-7
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): 5,5 g/l
- Melting point: 20 °C
- Boiling point: 202 °C
- Flash pt. 82 °C
- Ignition temp.: 570 °C
- Vapour pressure: (20 °C) 0,4 hPa
- Refraction index: (n 20 °C/D) 1,5339
- Dielectric const.: (20 °C) 8,6
- LD 50 (oral, rat): 815 mg/kg

- EC-Index-No.: 606-042-00-1
 - ADR: Not regulated
 - IMDG: Not regulated
 - IATA/ICAO: 9
 - GHS-signal word: Warning
 - GHS-H sentences: H302 - H319
 - GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a -
 - Tariff number: 2914 39 00 90
 - Applications: perfumery, synthesis of organic products, synthesis of polymers.
- assay (G.C.) min. 99 %

Art. No.	Volume	Container
AC03001000	1 l	0

Acetylacetone

AC0220 Acetylacetone, synthesis grade

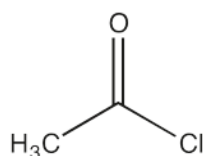


- Synonyms: 2,4-Pentanedione, ACAC
- C₅H₈O₂
- M = 100,12 g/mol
- CAS [123-54-6]
- EINECS-No.: 204-634-0
- Density: 0,97 g/cm³
- Solub. in water: (20 °C): 200 g/l
- Melting point: -23 °C
- Boiling point: 140 °C
- Flash pt. 34 °C
- Ignition temp.: 335 °C
- Vapour pressure: (20 °C) 9 hPa
- Refraction index: (n 20 °C) 1,4510
- Dielectric const.: (20 °C) 25,7
- LD 50 (oral, rat): 575 mg/kg
- EC-Index-No.: 606-029-00-0
- ADR: 3 FT1 III UN 2310

- IMDG: 3 III UN 2310
 - IATA/ICAO: 3 III UN 2310
 - GHS-signal word: Warning
 - GHS-H sentences: H226 - H302
 - GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a -
 - Tariff number: 2914 19 90 90
 - Applications: synthesis of organic products, as gasoline additive, in lubricant compositions, insecticide.
- assay (G.C.) min. 99 %

Art. No.	Volume	Container
AC02200250	250 ml	0
AC02201000	1 l	0

Acetyl chloride



- Synonyms: Acetic acid chloride
- CH₃COCl
- M = 78,50 g/mol
- CAS [75-36-5]
- EINECS-No.: 200-865-6
- Density: 1,10 g/cm³
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: -112 °C
- Boiling point: 52 °C
- Flash pt. 5 °C
- Ignition temp.: 390 °C
- Vapour pressure: (20 °C) 320 hPa
- Refraction index: (n 20 °C/D) 1,3890

- Dielectric const.: (20 °C) 15,9
- LD 50 (oral, rat): 910 mg/kg
- EC-Index-No.: 607-011-00-5
- ADR: 3 FC II UN 1717
- IMDG: 3 II UN 1717
- IATA/ICAO: 3 II UN 1717
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - EUH014
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a -
- Tariff number: 2915 90 70 90
- Applications: acetylating agent, for water determination.

CL0230 Acetyl chloride, synthesis grade

assay (argentometric)min. 98 %

Art. No.	Volume	Container
CL02301000	1 l	0

CL0232 Acetyl chloride, reagent grade, ACS

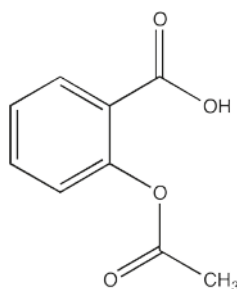
assay (G.C.)min. 98,5 %

Art. No.	Volume	Container
CL02320100	100 ml	0
CL02320250	250 ml	0

Art. No.	Volume	Container
CL02321000	1 l	0

Acetylsalicylic acid

AC0355 Acetylsalicylic acid, extra pure, Pharmpur®, Ph Eur, BP, USP



- Synonyms: Acetoxybenzoic acid
- C₉H₈O₄
- M = 180,15 g/mol
- CAS [50-78-2]
- EINECS-No.: 200-064-1
- Solub. in water: (20 °C): 3,0 g/l
- Melting point: 136 °C
- Flash pt. 250 °C
- Ignition temp.: 500 °C
- LD 50 (oral, rat): 200 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H301
- GHS-P sentences: P264 - P270 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2918 22 00 00

- Applications: for pharmaceuticals synthesizing, in pharma industry.

assay (acidimetric) 99,5 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC03550500	500 g	0
AC03551000	1 kg	0
AC0355005P	5 kg	0
AC0355025P	25 kg	0

Acid detergent fibre reagent

RE0025 Acid detergent fibre reagent, ADF according to Van Soest

- Density: 1,03 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning

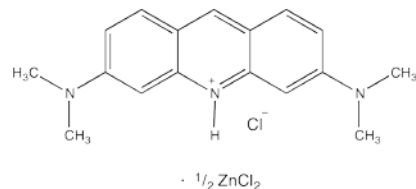
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00

- Applications: for acid detergent fibre determination in animal feed.

Art. No.	Volume	Container
RE0025005P	5 l	0

Acridine orange, C.I. 46005

AN0040 Acridine orange, C.I. 46005, for microscopy

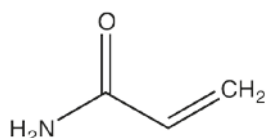


- Synonyms: Basic orange, Acridine orange zinc chloride double salt
- C₁₇H₁₂N₃Cl₂ · 1/2 ZnCl₂
- M = 438,09 g/mol
- CAS [10127-02-3]
- EINECS-No.: 233-353-6
- Solub. in water: (20 °C): 28 g/l
- GHS-signal word: Warning
- GHS-H sentences: H341

- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 3204 13 00 90
- Applications: bacterium staining, manufacture of dyes.

Art. No.	Volume	Container
AN00400025	25 g	0

Acrylamide



- Synonyms: Acrylic acid amide
- C₃H₅NO
- M = 71,08 g/mol
- CAS [79-06-1]
- EINECS-No.: 201-173-7
- Solub. in water: (20 °C): soluble
- Melting point: 84 °C
- Boiling point: (2,7 hPa) 87 °C
- Vapour pressure: (20 °C) 0,009 hPa
- LD 50 (oral, rat): 124 mg/kg
- EC-Index-No.: 616-003-00-0
- ADR: 6.1 T2 III UN 2074

- IMDG: 6.1 III UN 2074
- IATA/ICAO: 6.1 III UN 2074
- GHS-signal word: Danger
- GHS-H sentences: H301 - H340 - H350 - H372 - H361f - H312 - H332 - H315 - H319 - H317
- GHS-P sentences: P260 - P301 + P310 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2924 19 00 90
- Applications: synthesis of polymers, for electrophoresis.
- Appearance: White crystalline powder

AC3343 Acrylamide, molecular biology grade

assay (G.C.)min. 99,9 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
AC33430100	100 g	0

AC3345 Acrylamide, electrophoresis grade

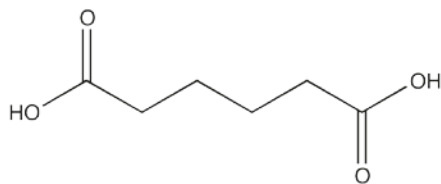
assay (G.C.)min. 99,9 %

Art. No.	Volume	Container
AC33450100	100 g	0

Art. No.	Volume	Container
AC33451000	1 kg	0

Adipic acid

AC0375 Adipic acid, synthesis grade



- Synonyms: Hexanedioic acid, 1,4-Butanedicarboxylic acid, Butane-1,4-dicarboxylic acid
- C₆H₁₀O₄
- M = 146,14 g/mol
- CAS [124-04-9]
- EINECS-No.: 204-673-3
- Solub. in water: (25 °C): 24 g/l
- Melting point: 150 - 153 °C
- Boiling point: (13 hPa) 205 °C
- Flash pt. 196 °C
- Vapour pressure: (151 °C) 0,4 hPa
- LD 50 (oral, rat): ~ 5700 mg/kg
- EC-Index-No.: 607-144-00-9

- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2917 12 00 10
- Applications: manufacturing of synthetic resins, plasticizer, in lubricant compositions.

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AC03751000	1 kg	Ⓟ

Agar-agar

- Synonyms: Agar
- CAS [9002-18-0]
- EINECS-No.: 232-658-1

- LD 50 (oral, rat): 11000 mg/kg
- Tariff number: 1302 31 00 00

- Applications: nutrient media for bacterial culture, manufacture of dyes, emulsifier.

AG0020 Agar-agar, powder, for bacteriology

Art. No.	Volume	Container	Art. No.	Volume	Container
AG00200250	250 g	Ⓟ	AG00201000	1 kg	Ⓟ
AG00200500	500 g	Ⓟ			

AG0019 Agar-agar, food grade

Art. No.	Volume	Container
AG00191000	1 kg	Ⓟ

Agarose

- CAS [9012-36-6]
- EINECS-No.: 232-731-8

- Solub. in water: (20 °C): sparingly soluble
- Tariff number: 3913 90 00 99

- Applications: analytical chemistry, for electrophoresis.

AG0030 Agarose Low EEO, electrophoresis grade

gel strengthmin. 1000 g/cm²
gelling point 34 - 38 °C
melting point 86 - 90 °C
electroendosmosismax. 0,15 -mr
DNases, RNases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AG00300025	25 g	Ⓟ	AG00300250	250 g	Ⓟ
AG00300100	100 g	Ⓟ	AG00301000	1 kg	Ⓟ

AG0031 Agarose Medium EEO, electrophoresis grade

gel strengthmin. 1000 g/cm²
gelling point 34 - 38 °C
melting point 86 - 90 °C
electroendosmosis0,16 - 0,20 -mr
DNases, RNases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AG00310025	25 g	Ⓟ	AG00310250	250 g	Ⓟ
AG00310100	100 g	Ⓟ			

AG0032 Agarose High EEO, electrophoresis grade

gel strengthmin. 700 g/cm²
gelling point 34 - 38 °C
melting point 86 - 90 °C
electroendosmosis0,21 - 0,26 -mr
DNases, RNases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AG00320025	25 g	Ⓟ	AG00320250	250 g	Ⓟ
AG00320100	100 g	Ⓟ			

AG0034 Agarose Low Melt, electrophoresis grade

gel strengthmin. 400 g/cm²
gelling point 26 - 30 °C
melting point 62 - 70 °C
electroendosmosismax. 0,15 -mr
DNases, RNases non detected

Art. No.	Volume	Container
AG00340005	5 g	Ⓟ

AG0033 Agarose High Gelling Temperature, electrophoresis grade

gel strengthmin. 800 g/cm²
gelling point 40 - 44 °C
melting point 86 - 90 °C
electroendosmosismax. 0,1 -mr
DNases, RNases non detected

Art. No.	Volume	Container
AG00330025	25 g	Ⓟ



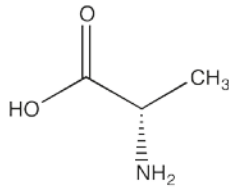
AG0036 Agarose High Resolution, electrophoresis grade

Allows resolution of small DNA, RNA and OCR fragments < 1000 bp
DNases, RNases non detected

Art. No.	Volume	Container
AG00360025	25 g	⊞

L-Alanine

AL0030 L-Alanine, extra pure, Pharpur®, Ph Eur, BP, USP



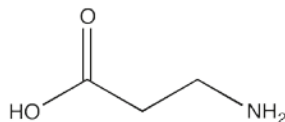
- Synonyms: α-Aminopropanoic acid, 2-Aminopropanoic acid, Ala
- C₃H₇NO₂
- M = 89,09 g/mol
- CAS [56-41-7]
- EINECS-No.: 200-273-8
- Solub. in water: (25 °C): 166,5 g/l
- Melting point: 295 - 297 °C (decomposes)
- Tariff number: 2922 49 95 90
- Applications: nutrient media for bacterial culture, synthesis of organic products, in biochemistry, in pharma industry.

assay (titration with HClO₄, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AL00300100	100 g	⊞

β-Alanine

AL0035 β-Alanine, extra pure



- Synonyms: 3-Aminopropanoic acid, Ala
- C₃H₇NO₂
- M = 89,09 g/mol
- CAS [107-95-9]
- EINECS-No.: 203-536-5
- Solub. in water: (20 °C): 545 g/l
- Melting point: 200 °C (decomposes)
- Tariff number: 2922 49 20 00

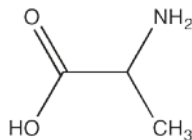
- Applications: in biochemistry.

assay (titration with HClO₄, on dried sample) min. 99 %

Art. No.	Volume	Container
AL00350250	250 g	⊞

DL-Alanine

AL0025 DL-Alanine, extra pure



- Synonyms: 2-Aminopropionic acid, Ala
- C₃H₇NO₂
- M = 89,09 g/mol
- CAS [302-72-7]
- EINECS-No.: 206-126-4
- Solub. in water: (25 °C): 167 g/l
- Melting point: 264 - 296 °C (decomposes)
- Tariff number: 2922 49 95 90

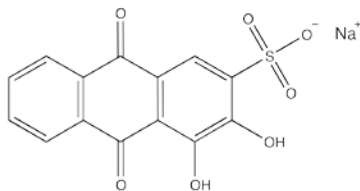
- Applications: in biochemistry, in food industry.

assay (titration with HClO₄) min. 99 %

Art. No.	Volume	Container
AL00250100	100 g	⊞
AL00251000	1 kg	⊞

Alizarin red S, C.I. 58005

RO0070 Alizarin red S, C.I. 58005, reagent grade



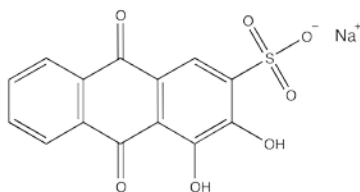
- Synonyms: Sodium alizarinsulfonate, Alizarin carmine, 1,2-Dihydroxyanthraquinone-3-sulfonic acid sodium salt, Alizarin sulfonic acid sodium salt
- C₁₄H₇NaO₇S
- M = 342,25 g/mol
- CAS [130-22-3]
- EINECS-No.: 204-981-8
- Tariff number: 3204 12 00 90
- Applications: analytical chemistry, indicator.

pH range (yellow to purple-red) 3,7 - 5,2

Art. No.	Volume	Container
RO00700025	25 g	⊞
RO00700100	100 g	⊞

Alizarin red S, solution 0,1%

RO0071 Alizarin red S, solution 0,1%

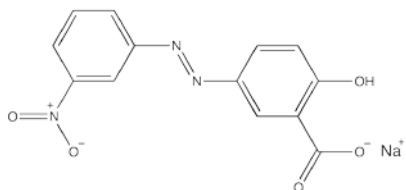


- Synonyms: Sodium alizarinsulfonate, Alizarin carmine, 1,2-Dihydroxyanthraquinone-3-sulfonic acid sodium salt, Alizarin sulfonic acid sodium salt
- C₁₄H₇NaO₇S
- M = 342,25 g/mol
- CAS [130-22-3]
- EINECS-No.: 204-981-8
- Density: 0,947 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

pH range (yellow to purple-red) 3,7 - 5,2

Art. No.	Volume	Container
RO00710100	100 ml	⊞

Alizarin yellow GG, C.I. 14025
AM0025 Alizarin yellow GG, C.I. 14025, indicator


- Synonyms: 2-Hydroxy-5[(3-nitrophenyl)azo]benzoic acid monosodium salt, Mordant yellow 1
- $C_{13}H_8N_2NaO_5$
- $M = 309,21 \text{ g/mol}$
- CAS [584-42-9]
- EINECS-No.: 209-536-1
- Solub. in water: (25 °C): ~ 12 g/l
- Tariff number: 3204 19 00 90

- Applications: indicator and for microbiology.

pH range (yellow-orange) 10,2 - 12,1

Art. No.	Volume	Container
AM00250010	10 g	Ø
AM00250050	50 g	Ø

Aluminium
AL0760 Aluminium, powder, synthesis grade


- Al
- $M = 26,98 \text{ g/mol}$
- CAS [7429-90-5]
- EINECS-No.: 231-072-3
- Solub. in water: (20 °C): insoluble
- Melting point: 660 °C
- Boiling point: 2467 °C
- Ignition temp.: ~ 400 °C
- EC-Index-No.: 013-001-00-6
- ADR: 4.3 W2 II UN 1396

- IMDG: 4.3 II UN 1396
- IATA/ICAO: 4.3 II UN 1396
- GHS-signal word: Danger
- GHS-H sentences: H250 - H261
- GHS-P sentences: P210 - P222 - P231 + P232 - P280 - P422a - P501a
- Tariff number: 7603 10 00 00
- Applications: in explosive compositions, photography, synthesis of organic products, metal alloys, for the synthesis of: inorganic salts.

assaymin. 99 %

Art. No.	Volume	Container
AL07600250	250 g	Ø
AL07601000	1 kg	Ø
AL0760005P	5 kg	Ø

Aluminium ammonium sulfate dodecahydrate
AL0740 Aluminium ammonium sulfate dodecahydrate, extra pure, Pharmpur®, USP

- Synonyms: Ammonium aluminium sulfate, Ammonium alum
- $NH_4Al(SO_4)_2 \cdot 12H_2O$
- $M = 453,33 \text{ g/mol}$
- CAS [7784-26-1]
- EINECS-No.: 232-055-3
- Solub. in water: (20 °C): 150 g/l
- Melting point: 93 °C
- Boiling point: 200 °C

- Tariff number: 2833 30 00 00
- Applications: for water purifying, manufacture of dyes, manufacturing of lacquers, in porcelain industry, in pharma industry.
- assay (complexometric, on dried sample)99 - 100,5 %
- Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AL07400500	500 g	Ø
AL07401000	1 kg	Ø
AL0740005P	5 kg	Ø

Aluminium chloride hexahydrate
AL0770 Aluminium chloride hexahydrate, extra pure, Pharmpur®, Ph Eur, BP, USP


- Synonyms: Hydrochloric acid aluminium salt hexahydrate
- $AlCl_3 \cdot 6H_2O$
- $M = 241,43 \text{ g/mol}$
- CAS [7784-13-6]
- EINECS-No.: 231-208-1
- Solub. in water: (20 °C): 1330 g/l
- Melting point: ~ 100 °C
- LD 50 (oral, rat): 3311 mg/kg
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2827 32 00 00
- Applications: as gasoline additive, manufacture of dyes, cosmetics, in pharma industry.

assay (complexometric)95 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AL07700500	500 g	Ø
AL07701000	1 kg	Ø
AL0770005P	5 kg	Ø
AL0770025P	25 kg	Ø

Aluminium hydroxide
AL0795 Aluminium hydroxide, extra pure

- Synonyms: Gibbsite, Hydrargillite
- $Al(OH)_3$
- $M = 78,00 \text{ g/mol}$
- CAS [21645-51-2]
- EINECS-No.: 244-492-7
- Solub. in water: (20 °C): ~ 0,0015 g/l
- Melting point: 300 °C (release of crystalline water)

- Vapour pressure: (20 °C) 5000 mg/kg
- Tariff number: 2818 30 00 90
- Applications: chromatography, emulsifier, manufacture of dyes, in lubricant compositions, ion exchanger.

assay (complexometric)min. 90 %

Art. No.	Volume	Container
AL07950250	250 g	Ø
AL07951000	1 kg	Ø
AL0795005P	5 kg	Ø
AL0795025P	25 kg	Ø

Aluminium nitrate nonahydrate

- $Al(NO_3)_3 \cdot 9H_2O$
- $M = 375,13 \text{ g/mol}$
- CAS [7784-27-2]
- EINECS-No.: 236-751-8
- Solub. in water: (20 °C): 419 g/l
- Melting point: 73 °C
- Boiling point: 135 °C (decomposes)

- LD 50 (oral, rat): 3671 mg/kg
- ADR: 5.1 O2 III UN 1438
- IMDG: 5.1 III UN 1438
- IATA/ICAO: 5.1 III UN 1438
- GHS-signal word: Danger
- GHS-H sentences: H272 - H315 - H319

- GHS-P sentences: P221 - P210 - P220 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, cosmetics, for the synthesis of: nitro compounds.
- Appearance: Semi-transparent to transparent crystals

AL0850 Aluminium nitrate nonahydrate, extra pure


assay (complexometric)98 - 102 %
insoluble in watermax. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL08500500	500 g	Ø	AL0850005P	5 kg	Ø
AL08501000	1 kg	Ø			

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R
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X
Y
Z

AL0820 Aluminium nitrate nonahydrate, reagent grade, ACS

assay (complexometric) 98 - 102 %
insoluble in water max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL08200500	500 g	⊘	AL0820005P	5 kg	⊘
AL08201000	1 kg	⊘			

Aluminium oxide

- Synonyms: Alum earth, Alumina, Gooch crucibles
- Al_2O_3
- M = 101,96 g/mol
- CAS [1344-28-1]
- EINECS-No.: 215-691-6
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 1760 °C
- Tariff number: 2818 20 00 00
- Applications: in porcelain industry, in building materials, catalyst, synthesis of organic products.

AL0830 Aluminium oxide, synthesis grade

Art. No.	Volume	Container
AL08301000	1 kg	⊘

AL0835 Aluminium oxide activated, neutral, for column chromatography (activity degree 1)

grain size: 0,05-0,2 mm (70-290 mesh ASTM)

Art. No.	Volume	Container	Art. No.	Volume	Container
AL08351000	1 kg	⊘	AL0835005P	5 kg	⊘
AL08352500	2,5 kg	⊘			

AL0836 Aluminium oxide activated, acid, for column chromatography (activity degree 1)

grain size: 0,05-0,2 mm (70-290 mesh ASTM)

Art. No.	Volume	Container	Art. No.	Volume	Container
AL08361000	1 kg	⊘	AL0836005P	5 kg	⊘

AL0837 Aluminium oxide activated, basic, for column chromatography (activity degree 1)

grain size: 0,05-0,2 mm (70-290 mesh ASTM)

Art. No.	Volume	Container	Art. No.	Volume	Container
AL08371000	1 kg	⊘	AL0837005P	5 kg	⊘

Aluminium potassium sulfate dodecahydrate

- Synonyms: Potassium aluminium sulfate, Alum potassium, Potassium alum
- $KAl(SO_4)_2 \cdot 12H_2O$
- M = 474,39 g/mol
- CAS [7784-24-9]
- EINECS-No.: 233-141-3
- Solub. in water: (20 °C): 139 g/l
- Melting point: 92 °C
- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, manufacture of dyes, manufacturing of lacquers, in explosive compositions.

AL0745 Aluminium potassium sulfate dodecahydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (complexometric) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AL07450500	500 g	⊘	AL0745005P	5 kg	⊘
AL07451000	1 kg	⊘	AL0745025P	25 kg	⊘

AL0746 Aluminium potassium sulfate dodecahydrate, reagent grade, ACS, Reag. Ph Eur

assay (complexometric) 98 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL07460500	500 g	⊘	AL0746005P	5 kg	⊘
AL07461000	1 kg	⊘	AL0746025P	25 kg	⊘

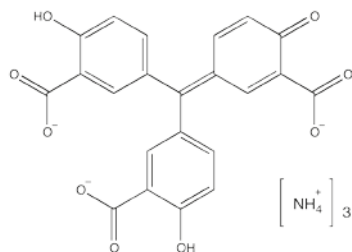
Aluminium sulfate 18-hydrate**AL0855 Aluminium sulfate 18-hydrate, extra pure, Pharmpur®, Ph Eur, BP**

- $Al_2(SO_4)_3 \cdot 18H_2O$
- M = 666,42 g/mol
- CAS [7784-31-8]
- EINECS-No.: 233-135-0
- Solub. in water: (20 °C): ~ 600 g/l
- Melting point: 92 °C
- LD 50 (oral, rat): 9000 mg/kg
- Tariff number: 2833 22 00 00
- Applications: manufacturing of lacquers, manufacture of dyes, in pesticide compositions, for water purifying, in pharma industry.
- assay (complexometric, $Al_2(SO_4)_3$) 51 - 59 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AL08550500	500 g	⊘
AL08551000	1 kg	⊘
AL0855005P	5 kg	⊘

Aluminon

AL0860 Aluminon, reagent for aluminium, ACS



- Synonyms: Aurin tricarboxylic acid ammonium salt, Ammonium aurin tricarboxylate
- $C_{22}H_{23}N_3O_9$
- M = 473,44 g/mol
- CAS [569-58-4]
- EINECS-No.: 209-319-1
- Solub. in water: (20 °C): ~ 800 g/l
- LD 50 (oral, rat): 9000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H373 - H312 - H332
- GHS-P sentences: P260 - P261 - P280 - P322 - P304 + P340 - P501a

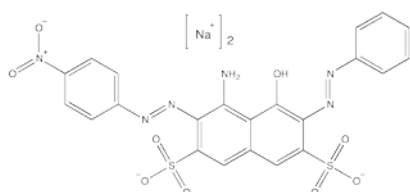
- Tariff number: 2918 90 90 90
- Applications: manufacturing of lacquers, for the detection of: aluminium.

suitability for determination of Al passes test

Art. No.	Volume	Container
AL0860025	25 g	0

Amido black 10 B, C.I. 20470

NE0025 Amido black 10 B, C.I. 20470



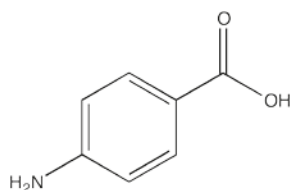
- Synonyms: Black acid 1, Naphthol blue black
- $C_{22}H_{14}N_2Na_2O_5S_2$
- M = 616,5 g/mol
- CAS [1064-48-8]
- EINECS-No.: 213-903-1
- Solub. in water: (20 °C): 30 g/l
- GHS-signal word: Danger
- GHS-H sentences: H224 - H301 - H330

- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P310 - P320 - P405 - P501a
- Tariff number: 3204 12 00 00
- Applications: analytical chemistry, indicator, chromatography, for electrophoresis.

Art. No.	Volume	Container
NE0025025	25 g	0

4-Aminobenzoic acid

AC0415 4-Aminobenzoic acid, synthesis grade



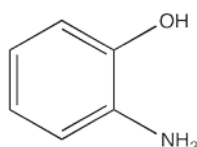
- Synonyms: p-Aminobenzoic acid, PABA
- $C_7H_7NO_2$
- M = 137,14 g/mol
- CAS [150-13-0]
- EINECS-No.: 205-753-0
- Solub. in water: (20 °C): 4,7 g/l
- Melting point: 186 - 189 °C
- LD 50 (oral, rat): > 6000 mg/kg
- Tariff number: 2922 49 95 90

- Applications: synthesis of organic products, manufacture of dyes.
- assay (acidimetric) min. 99 %

Art. No.	Volume	Container
AC04150250	250 g	0
AC04151000	1 kg	0

2-Aminophenol

AM0210 2-Aminophenol, technical grade



- Synonyms: 2-Amino-1-hydroxybenzene, 2-Hydroxyaniline, o-Aminophenol
- C_6H_7NO
- M = 109,13 g/mol
- CAS [95-55-6]
- EINECS-No.: 202-431-1
- Solub. in water: (20 °C): 17 g/l
- Melting point: 172 - 174 °C (sublimes)
- Vapour pressure: (153 °C) 14 hPa
- LD 50 (oral, rat): 1300 mg/kg
- EC-Index-No.: 612-033-00-3
- ADR: 6.1 T2 III UN 2512
- IMDG: 6.1 III UN 2512
- IATA/ICAO: 6.1 III UN 2512

- GHS-signal word: Warning
- GHS-H sentences: H341 - H302 - H332
- GHS-P sentences: P261 - P281 - P301 + P312 - P304 + P340 - P405 - P501a
- Tariff number: 2922 29 00 90
- Applications: synthesis of organic products, manufacture of dyes, in the textile industry.

assay (titration with $HClO_4$) min. 99 %

Art. No.	Volume	Container
AM02100100	100 g	0

Ammonia, solution 32%

AM0251 Ammonia, solution 32% w/w, extra pure



- Synonyms: Ammonia water, Ammonium hydroxide solution
- NH_3
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: 0,89 g/cm³
- Melting point: -91,5 °C
- Boiling point: 24,7 °C
- Vapour pressure: (20 °C) ~ 837 hPa

- LD 50 (oral, rat): 350 mg/kg
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H400 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00

- Applications: analytical chemistry, laboratory reagent, for ammonium salts synthesizing.

assay (acidimetric, NH_3) min. 30 %
residue on ignition (as SO_4) max. 0,002 %

Art. No.	Volume	Container
AM02511000	1 l	0
AM02512500	2,5 l	0

Ammonia, solution 28%

AM0256 Ammonia, solution 28% w/w, reagent grade, Ph Eur



- Synonyms: Ammonia water
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: ~ 0,90 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -63 °C
- Boiling point: 36 °C
- Vapour pressure: (20 °C) 535 hPa
- LD 50 (oral, rat): 350 mg/kg

- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H400 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent, for ammonium salts synthesizing, in pharma industry.

assay (acidimetric, NH₃)min. 28 %
 residue on evaporationmax. 0,001 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AM02561000	1 l	0
AM02562500	2,5 l	0
AM0256005P	5 l	0

Ammonia, solution 25%

- Synonyms: Ammonia water, Ammonium hydroxide solution
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: 0,90 g/cm³

- Melting point: -57,5 °C
- Boiling point: 37,7 °C
- Vapour pressure: (20 °C) ~ 500 hPa
- LD 50 (oral, rat): 350 mg/kg
- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672

- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H400 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent.

AM0257 Ammonia, solution 25% w/w, synthesis grade



assay (acidimetric, NH₃)min. 25 %

Art. No.	Volume	Container
AM02571000	1 l	0

Art. No.	Volume	Container
AM0257005P	5 l	0

AM0250 Ammonia, solution 25% w/w, extra pure, Ph Eur



assay (acidimetric, NH₃)25 - 30 %
 residue on evaporationmax. 0,002 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AM02501000	1 l	0
AM02502500	2,5 l	0

Art. No.	Volume	Container
AM0250005P	5 l	0

AM0249 Ammonia, solution 25% w/w, reagent grade, Reag. Ph Eur



assay (acidimetric, NH₃)25 - 30 %
 residue on evaporationmax. 0,001 %

Art. No.	Volume	Container
AM02491000	1 l	0

Art. No.	Volume	Container
AM02492500	2,5 l	0

AM0258 Ammonia, solution 25%, eluent additive for LC-MS



assay (acidimetric, NH₃)min. 25 %
 suitability for use in LC-MSpasses test

Art. No.	Volume	Container
AM02580100	100 ml	0

Ammonia, solution 20%

- Synonyms: Ammonia water
- NH₃
- M = 17,03 g/mol
- CAS [1336-21-6]
- EINECS-No.: 215-647-6
- Density: ~ 0,93 g/cm³
- Solub. in water: (20 °C): miscible

- EC-Index-No.: 007-001-01-2
- ADR: 8 C5 III UN 2672
- IMDG: 8 III UN 2672
- IATA/ICAO: 8 III UN 2672
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2814 20 00 00
- Applications: analytical chemistry, laboratory reagent, detergent, bleaching agent, reagent for saponification reactions.

AM0247 Ammonia, solution 20% w/w, extra pure



assay (acidimetric, NH₃)min. 20 %
 residue on evaporationmax. 0,002 %

Art. No.	Volume	Container
AM02471000	1 l	0

Art. No.	Volume	Container
AM02472500	2,5 l	0

AM0248 Ammonia, solution 20% w/w, reagent grade



assay (acidimetric, NH₃)min. 20 %
 residue on evaporationmax. 0,001 %

Art. No.	Volume	Container
AM02481000	1 l	0
AM02482500	2,5 l	0

Art. No.	Volume	Container
AM0248005P	5 l	0

AM0269 Ammonia, solution 20 - 22%, Ultratrace®, ppb-trace analysis grade,



assay (acidimetric, NH₃)20 - 22 %

Art. No.	Volume	Container
AM02690500	500 ml	0

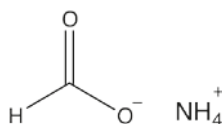
AM0272 Ammonia, solution 20 - 22%, Ultratrace®, ppt-trace analysis grade



assay (acidimetric, NH₃)20 - 22 %

Art. No.	Volume	Container
AM02720250	250 ml	0

Ammonium acetate



- Synonyms: Acetic acid ammonium salt
- $\text{CH}_3\text{COONH}_4$
- $M = 77,08 \text{ g/mol}$
- CAS [631-61-8]
- EINECS-No.: 211-162-9
- Solub. in water: (20 °C): soluble
- Melting point: 114 °C
- Flash pt. 136 °C

- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, for the detection of: metals.

AM0253 Ammonium acetate, extra pure

assay (acidimetric)min. 96 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM02530500	500 g	Ⓟ	AM0253005P	5 kg	Ⓟ
AM02531000	1 kg	Ⓟ			

AM0254 Ammonium acetate, reagent grade, ACS, Reag. Ph Eur

assay (acidimetric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM02540500	500 g	Ⓟ	AM0254005P	5 kg	Ⓟ
AM02541000	1 kg	Ⓟ	AM0254025P	25 kg	Ⓟ

AM0255 Ammonium acetate, HPLC grade

assay (acidimetric)min. 98 %
 max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:
 250 nm. 0,05 AU

260 nm. 0,04 AU
 270 nm. 0,03 AU
 280 nm. 0,02 AU

Art. No.	Volume	Container
AM02550250	250 g	Ⓟ
AM02551000	1 kg	Ⓟ

AM0259 Ammonium acetate, eluent additive for LC-MS

assay (acidimetric)min. 99 %
 suitability for use in LC-MSpasses test

Art. No.	Volume	Container
AM02590050	50 g	Ⓟ

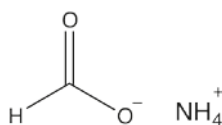
AM0271 Ammonium acetate, molecular biology grade

assay (acidimetric)min. 98 %
 DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AM02710250	250 g	Ⓟ	AM02710500	500 g	Ⓟ

Ammonium acetate, solutions

AM0230 Ammonium acetate, solution 1 mol/l, buffered at pH = 7



- $\text{CH}_3\text{COONH}_4$
- $M = 77,08 \text{ g/mol}$
- CAS [631-61-8]
- EINECS-No.: 211-162-9
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, laboratory reagent, in buffer solutions.

Art. No.	Volume	Container
AM02301000	1 l	Ⓟ
AM0230010C	10 l	Ⓟ

AM0262 Ammonium acetate, solution 10 mmol/l in water, buffered at pH = 7, LC-MS

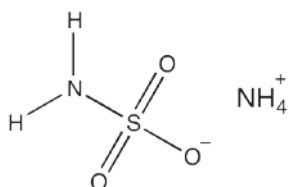
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, chromatography.

ammonium acetate content (mmol/l)9,5 - 10,5
 suitability for use in LC-MSpasses test

Art. No.	Volume	Container
AM02621000	1 l	Ⓟ

Ammonium amidosulfonate

AM0395 Ammonium amidosulfonate, reagent grade, ACS, for determination of sulfonamides in blood



- Synonyms: Ammonium sulfamate, Amidosulfonic acid ammonium salt, Sulfanic acid ammonium salt
- $\text{NH}_2\text{NH}_2\text{SO}_3$
- $M = 114,12 \text{ g/mol}$
- CAS [7773-06-0]
- EINECS-No.: 231-871-7
- Solub. in water: (20 °C): soluble
- Melting point: ~ 133 °C
- LD 50 (oral, rat): 3900 mg/kg

- Tariff number: 2842 90 90 00
- Applications: analytical chemistry, for the determination of sulfamides in blood.

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
AM03950100	100 g	Ⓟ

A
B
C
D
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G
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I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Ammonium bromide

- NH_4Br
- M = 97,94 g/mol
- CAS [12124-97-9]
- EINECS-No.: 235-183-8
- Solub. in water: (20 °C): 598 g/l
- Melting point: 542 °C
- LD 50 (oral, rat): 2714 mg/kg
- Tariff number: 2827 59 00 00
- Applications: analytical chemistry, photography, in pharma industry.

AM0265 Ammonium bromide, extra pure, Pharmapur®, Ph Eur, BP

assay (argentometric, on dried sample)	Art. No.	Volume	Container	Art. No.	Volume	Container
98,5 - 101 %	AM02650500	500 g	⊕	AM0265005P	5 kg	⊕
Residual solvents are analysed according to guideline CPMP/ICH/283/95.	AM02651000	1 kg	⊕			

AM0266 Ammonium bromide, reagent grade, ACS

assay (argentometric)	Art. No.	Volume	Container	Art. No.	Volume	Container
min. 99 %	AM02660500	500 g	⊕	AM02661000	1 kg	⊕

Ammonium carbonate

- Synonyms: Salt of hartshorn
- $\text{NH}_4\text{HCO}_3 + \text{NH}_4\text{NH}_2\text{COO}$
- CAS [10361-29-2]
- EINECS-No.: 233-786-0
- Solub. in water: (20 °C): soluble
- Melting point: 58 °C (decomposes)
- LD 50 (oral, rat): 1975 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2836 10 00 00
- Applications: manufacture of dyes, in the rubber industry, analytical chemistry.

AM0268 Ammonium carbonate, reagent grade, ACS

assay (acidimetric, NH_3)	Art. No.	Volume	Container	Art. No.	Volume	Container
min. 30 %	AM02680500	500 g	⊕	AM02681000	1 kg	⊕

AM0267 Ammonium carbonate, HPLC grade

assay (acidimetric, NH_3)	Art. No.	Volume	Container
min. 30 %	AM02670250	250 g	⊕
max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:			
240 nm.			
250 nm.			
260 nm.			
280 nm.			

Ammonium cerium(IV) nitrate

CE0050 Ammonium cerium(IV) nitrate, synthesis grade

- Synonyms: di-Ammonium hexanitratocerate (IV), Ceric ammonium nitrate
- $(\text{NH}_4)_2[\text{Ce}(\text{NO}_3)_6]$
- M = 548,23 g/mol
- CAS [16774-21-3]
- EINECS-No.: 240-827-6
- Solub. in water: (20 °C): soluble
- Melting point: ~ 108 °C
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272 - H318
- GHS-P sentences: P221 - P210 - P220 - P305 + P351 + P338 - P310 - P501a
- Tariff number: 2846 10 00 90
- Applications: analytical chemistry, titrant in volumetric analysis.
- Appearance: Orange crystals
- assay (oxidimetric)min. 99 %

Art. No.	Volume	Container
CE00500100	100 g	⊕
CE00500500	500 g	⊕
CE00501000	1 kg	⊕

Ammonium cerium(IV) sulfate dihydrate

CE0060 Ammonium cerium(IV) sulfate dihydrate, synthesis grade

- Synonyms: Ceric ammonium sulfate, tetra-Ammonium-tetrasulfatocerate (IV)
- $(\text{NH}_4)_4[\text{Ce}(\text{SO}_4)_4] \cdot 2\text{H}_2\text{O}$
- M = 632,56 g/mol
- CAS [10378-47-9]
- EINECS-No.: 231-567-4
- Solub. in water: (20 °C): hydrolysis reaction
- Tariff number: 2846 10 00 90
- Applications: for the synthesis of: inorganic salts, for determination of: cerium.
- assay (oxidimetric)min. 95 %

Art. No.	Volume	Container
CE00600100	100 g	⊕

Ammonium chloride

- Synonyms: Salt ammoniac
- NH_4Cl
- M = 53,49 g/mol
- CAS [12125-02-9]
- EINECS-No.: 235-186-4
- Solub. in water: (20 °C): 372 g/l
- Melting point: 335 °C (decomposes)
- Ignition temp.: > 400 °C
- Vapour pressure: (30 °C) 1,3 hPa
- LD 50 (oral, rat): 1440 mg/kg
- EC-Index-No.: 017-014-00-8
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 2827 10 00 00
- Applications: manufacture of dyes, in explosive compositions, analytical chemistry.

AM0270 Ammonium chloride, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (argentometric, on dried sample)	Art. No.	Volume	Container	Art. No.	Volume	Container
99,5 - 100,5 %	AM02700500	500 g	⊕	AM0270005P	5 kg	⊕
Residual solvents are analysed according to guideline CPMP/ICH/283/95.	AM02701000	1 kg	⊕			

AM0273 Ammonium chloride, reagent grade, ACS, ISO, Reag. Ph Eur

assay (argentometric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM02730250	250 g	Ⓟ	AM02731000	1 kg	Ⓟ
AM02730500	500 g	Ⓟ	AM0273005P	5 kg	Ⓟ

AM0274 Ammonium chloride, molecular biology grade

assay (argentometric) min. 99,8 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
AM02740500	500 g	Ⓟ

Ammonium dichromate

AM0276 Ammonium dichromate, moistened with 0,5 - 3% H₂O, extra pure



- Synonyms: Ammonium bichromate, Ammonium pyrochromate
- (NH₄)₂Cr₂O₇
- M = 252,07 g/mol
- CAS [7789-09-5]
- EINECS-No.: 232-143-1
- Solub. in water: (20 °C): 360 g/l
- Melting point: 180 °C (decomposes, explosion reaction)
- Ignition temp.: 218 °C
- LD 50 (oral, rat): 53,75 mg/kg
- EC-Index-No.: 024-003-00-1

- ADR: 5.1 O2 II UN 1439
- IMDG: 5.1 II UN 1439
- IATA/ICAO: 5.1 II UN 1439
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H330 - H334 - H340 - H350 - H360FD - H372 - H314 - H410 - H312 - H317 -
- GHS-P sentences: P221 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P405 - P501a
- Tariff number: 2841 50 00 00

- Applications: photography, in explosive compositions, catalyst, in porcelain industry, analytical chemistry.
- Appearance: Orange crystals

assay (iodometric) min. 97 %
loss on drying (105 °C) max. 3 %

Art. No.	Volume	Container
AM02760500	500 g	Ⓟ
AM02761000	1 kg	Ⓟ
AM0276005P	5 kg	Ⓟ

Ammonium dihydrogen phosphate

- Synonyms: Ammonium biphosphate, Ammonium phosphate monobasic, Primary ammonium phosphate, Monoammonium ortophosphate
- (NH₄)₂H₂PO₄
- M = 115,03 g/mol

- CAS [7722-76-1]
- EINECS-No.: 231-764-5
- Solub. in water: (20 °C): 370 g/l
- Melting point: 190 °C
- LD 50 (oral, rat): 2500 mg/kg

- Tariff number: 3105 40 00 10
- Applications: in fertilizer compositions, analytical chemistry, in buffer solutions.

AM0334 Ammonium dihydrogen phosphate, extra pure

assay (acidimetric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03340500	500 g	Ⓟ	AM0334005P	5 kg	Ⓟ
AM03341000	1 kg	Ⓟ	AM0334025P	25 kg	Ⓟ

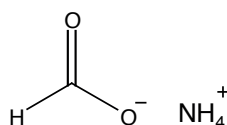
AM0335 Ammonium dihydrogen phosphate, reagent grade, ACS, Reag. Ph Eur

assay (acidimetric) min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03350500	500 g	Ⓟ	AM0335005P	5 kg	Ⓟ
AM03351000	1 kg	Ⓟ	AM0335025P	25 kg	Ⓟ

Ammonium formate

AM0320 Ammonium formate, eluent additive for LC-MS



- Synonyms: Formic acid ammonium salt
- HCOONH₄
- M = 63,06 g/mol
- CAS [540-69-2]
- EINECS-No.: 208-753-9
- Solub. in water: (20 °C): miscible
- Melting point: 116 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2915 12 00 00

assay (iodometric) min. 97 %
suitability for use in LC-MS passes test

Art. No.	Volume	Container
AM03200050	50 g	Ⓟ

Ammonium heptamolybdate tetrahydrate

- Synonyms: Ammonium molybdate, Hexammonium heptamolybdate 4-hydrate
- (NH₄)₆Mo₇O₂₄·4H₂O
- M = 1235,86 g/mol

- CAS [12054-85-2]
- EINECS-No.: 234-722-4
- Solub. in water: (20 °C): 400 g/l
- Melting point: 90 °C (release of crystalline water)

- LD 50 (oral, rat): 3883 mg/kg
- Tariff number: 2841 70 00 90
- Applications: photography, in porcelain industry, analytical chemistry.

AM0349 Ammonium heptamolybdate tetrahydrate, extra pure, Pharmapur®, USP

assay [(NH₄)₆Mo₇O₂₄·4H₂O] 99,3 - 101,8 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03490100	100 g	Ⓟ	AM03491000	1 kg	Ⓟ
AM03490250	250 g	Ⓟ			

AM0350 Ammonium heptamolybdate tetrahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay $[(\text{NH}_4)_6\text{Mo}_7\text{O}_{24}\cdot 4\text{H}_2\text{O}] \dots \dots \dots \text{min. } 99 \%$

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03500100	100 g	⊘	AM03500500	500 g	⊘
AM03500250	250 g	⊘	AM03501000	1 kg	⊘

Ammonium hydrogen carbonate

AM0330 Ammonium hydrogen carbonate, reagent grade, Reag. Ph Eur

- Synonyms: Ammonium bicarbonate
- NH_4HCO_3
- M = 79,06 g/mol
- CAS [1066-33-7]
- EINECS-No.: 213-911-5
- Solub. in water: (20 °C): 220 g/l
- Melting point: 106 °C
- Vapour pressure: (20 °C) 67 hPa
- LD 50 (oral, rat): 1576 mg/kg

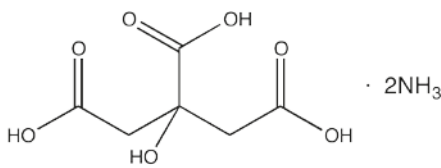
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2836 10 00 00
- Applications: analytical chemistry, manufacture of dyes, in porcelain industry, pigment, in the textile industry.

assay (acidimetric) $\dots \dots \dots \text{min. } 99 \%$

Art. No.	Volume	Container
AM03300500	500 g	⊘
AM03301000	1 kg	⊘
AM0330005P	5 kg	⊞

di-Ammonium hydrogen citrate

AM0332 di-Ammonium hydrogen citrate, reagent grade, ACS



- Synonyms: Ammonium citrate dibasic
- $\text{C}_6\text{H}_8\text{O}_7 \cdot 2\text{NH}_3$
- M = 226,19 g/mol
- CAS [3012-65-5]
- EINECS-No.: 221-146-3
- Solub. in water: (20 °C): freely soluble
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2918 15 00 90

- Applications: analytical chemistry, in fertilizer compositions, for determination of: phosphates.

assay $\dots \dots \dots 98 - 103 \%$

Art. No.	Volume	Container
AM03320500	500 g	⊘
AM03321000	1 kg	⊘
AM0332005P	5 kg	⊞
AM0332025P	25 kg	⊞

di-Ammonium hydrogen phosphate

- Synonyms: Ammonium biphosphate, Ammonium phosphate dibasic, Fyrex
- $(\text{NH}_4)_2\text{HPO}_4$
- M = 132,06 g/mol
- CAS [7783-28-0]

- EINECS-No.: 231-987-8
- Solub. in water: (20 °C): 690 g/l
- Melting point: 155 °C (decomposes)
- GHS-signal word: Warning
- GHS-H sentences: H312 - H332

- GHS-P sentences: P261 - P280 - P322 - P304 + P340 - P312 - P501a
- Tariff number: 3105 30 00 00
- Applications: Fire-resistant protective clothing, dentifrices, corrosion inhibitor, analytical chemistry.

AM0310 di-Ammonium hydrogen phosphate, extra pure, Pharmpur®, NF

assay (acidimetric) $\dots \dots \dots \text{min. } 99 \%$
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03100500	500 g	⊘	AM0310005P	5 kg	⊞
AM03101000	1 kg	⊘			

AM0312 di-Ammonium hydrogen phosphate, reagent grade, ACS

assay (acidimetric) $\dots \dots \dots \text{min. } 98 \%$

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03120500	500 g	⊘	AM0312025P	25 kg	⊞
AM03121000	1 kg	⊘			

Ammonium iodide

AM0480 Ammonium iodide, extra pure

- NH_4I
- M = 144,94 g/mol
- CAS [12027-06-4]
- EINECS-No.: 234-717-7
- Solub. in water: (20 °C): soluble
- Melting point: 405 °C

- Tariff number: 2827 60 00 90
- Applications: analytical chemistry, laboratory reagent, photography.

assay (argentometric) $\dots \dots \dots \text{min. } 99 \%$

Art. No.	Volume	Container
AM04800250	250 g	⊘
AM04801000	1 kg	⊘

Ammonium iron(II) sulfate hexahydrate

- Synonyms: Iron(II) ammonium sulfate, Ferrous ammonium sulfate, Mohr's salt
- $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
- M = 392,14 g/mol

- CAS [7783-85-9]
- EINECS-No.: 233-151-8
- Solub. in water: (20 °C): 269 g/l
- Melting point: 100 °C

- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, synthesis of polymers, photography.

HI0314 Ammonium iron(II) sulfate hexahydrate, extra pure

assay (permanganometric) $\dots \dots \dots 98 - 101 \%$

Art. No.	Volume	Container	Art. No.	Volume	Container
HI03140500	500 g	⊘	HI0314005P	5 kg	⊞
HI03141000	1 kg	⊘			

HI0316 Ammonium iron(II) sulfate hexahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (permanganometric) 99,0 - 101,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI03160500	500 g	Ⓟ	HI0316005P	5 kg	Ⓟ
HI03161000	1 kg	Ⓟ			

Ammonium iron(II) sulfate, volumetric solutions

HI0318 Ammonium iron(II) sulfate, solution ~ 0,12 mol/l (0,12 N), for COD determination, according to ISO 6060

- $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
- M = 392,13 g/mol
- CAS [7783-85-9]
- EINECS-No.: 233-151-8

- Density: 1,025 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 2833 29 90 00
- Applications: determining COD.

Art. No.	Volume	Container
HI03181000	1 l	Ⓟ

Ammonium iron(III) sulfate dodecahydrate

- Synonyms: Iron(III) ammonium sulfate, Alum iron, Ferric ammonium alum, Iron alum
- $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- M = 482,19 g/mol

- CAS [7783-83-7]
- EINECS-No.: 233-382-4
- Solub. in water: (25 °C): 1240 g/l
- Melting point: 39 - 41 °C

- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, laboratory reagent.

HI0312 Ammonium iron(III) sulfate dodecahydrate, extra pure

assay (iodometric) 97 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI03120500	500 g	Ⓟ	HI0312005P	5 kg	Ⓟ
HI03121000	1 kg	Ⓟ	HI0312025P	25 kg	Ⓟ

HI0315 Ammonium iron(III) sulfate dodecahydrate, reagent grade, ACS, ISO

assay (iodometric) 99,0 - 102,0 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI03150500	500 g	Ⓟ	HI0315005P	5 kg	Ⓟ
HI03151000	1 kg	Ⓟ	HI0315025P	25 kg	Ⓟ

Ammonium iron(III) sulfate, saturated solution

HI0319 Ammonium iron(III) sulfate, saturated solution

- $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- M = 482,19 g/mol
- CAS [7783-83-7]
- EINECS-No.: 233-382-4

- Density: ~ 1,18 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 2833 30 00 00

Art. No.	Volume	Container
HI03191000	1 l	Ⓟ

Ammonium iron(III) sulfate, volumetric solutions

HI0317 Ammonium iron(III) sulfate, solution 0,1 mol/l (0,1 N)

- $\text{NH}_4\text{Fe}(\text{SO}_4)_2 \cdot 12\text{H}_2\text{O}$
- M = 482,19 g/mol
- CAS [7783-83-7]
- EINECS-No.: 233-382-4

- Density: 1,025 g/cm³
- Tariff number: 2833 30 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
HI03171000	1 l	Ⓟ

Ammonium monovanadate

- Synonyms: Ammonium metavanadate, Ammonium vanadate
- NH_4VO_3
- M = 116,98 g/mol
- CAS [7803-55-6]
- EINECS-No.: 232-261-3
- Solub. in water: (15 °C): 5,2 g/l

- Melting point: ~ 200 °C (decomposes)
- LD 50 (oral, rat): 169 mg/kg
- ADR: 6.1 T5 II UN 2859
- IMDG: 6.1 II UN 2859
- IATA/ICAO: 6.1 II UN 2859
- GHS-signal word: Danger

- GHS-H sentences: H301 - H332 - H315 - H319 - H335
- GHS-P sentences: P261 - P301 + P310 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2841 90 30 00
- Applications: for the identification of: phosphates, analytical chemistry.

AM0465 Ammonium monovanadate, synthesis grade

assay (titr. with Fe(II)) min. 99 %

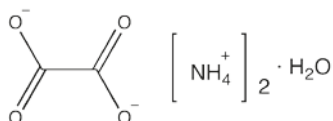
Art. No.	Volume	Container
AM04650250	250 g	Ⓟ

AM0467 Ammonium monovanadate, reagent grade, ACS

assay (permanganometric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM04670100	100 g	Ⓟ	AM04670500	500 g	Ⓟ
AM04670250	250 g	Ⓟ	AM04671000	1 kg	Ⓟ

di-Ammonium oxalate monohydrate



- Synonyms: Oxalic acid ammonium salt
- $(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot \text{H}_2\text{O}$
- M = 142,11 g/mol
- CAS [6009-70-7]
- EINECS-No.: 214-202-3
- Solub. in water: (20 °C): ~ 45 g/l
- Melting point: 70 °C
- EC-Index-No.: 607-007-00-3
- ADR: 6.1 T2 III UN 2811

- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312
- GHS-P sentences: P280 - P322 - P301 + P312 - P312 - P363 - P501a
- Tariff number: 2917 11 00 99
- Applications: analytical chemistry, for determination of: calcium, lead, rare earth metals.

AM0364 di-Ammonium oxalate monohydrate, extra pure

assay (permanganometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03640500	500 g	⊕	AM0364005P	5 kg	⊕
AM03641000	1 kg	⊕	AM0364025P	25 kg	⊕

AM0365 di-Ammonium oxalate monohydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (permanganometric)99 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03650250	250 g	⊕	AM03651000	1 kg	⊕
AM03650500	500 g	⊕	AM0365005P	5 kg	⊕

Ammonium peroxodisulfate

- Synonyms: Ammonium persulfate, Peroxodisulfuric acid diammonium salt
- $(\text{NH}_4)_2\text{S}_2\text{O}_8$
- M = 228,20 g/mol
- CAS [7727-54-0]
- EINECS-No.: 231-786-5
- Solub. in water: (20 °C): 620 g/l
- Melting point: 120 °C (decomposes)

- LD 50 (oral, rat): 495 mg/kg
- EC-Index-No.: 016-060-00-6
- ADR: 5.1 O2 III UN 1444
- IMDG: 5.1 III UN 1444
- IATA/ICAO: 5.1 III UN 1444
- GHS-signal word: Danger
- GHS-H sentences: H334 - H272 - H302 - H335 - H315 - H319 - H317

- GHS-P sentences: P221 - P210 - P285 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2833 40 00 00
- Applications: analytical chemistry, synthesis of polymers.
- Appearance: White to light yellow powder

AM0370 Ammonium peroxodisulfate, extra pure, Reag. Ph Eur

assay (iodometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03701000	1kg	⊕	AM0370005P	5 kg	⊕

AM0371 Ammonium peroxodisulfate, molecular biology grade

assay (iodometric)min. 98 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03710025	25 g	⊕	AM03710100	100 g	⊕

Ammonium sulfate

- Synonyms: Sulfuric acid diammonium salt
- $(\text{NH}_4)_2\text{SO}_4$
- M = 132,14 g/mol
- CAS [7783-20-2]
- EINECS-No.: 231-984-1

- Solub. in water: (20 °C): 754 g/l
- Melting point: 280 °C (decomposes)
- LD 50 (oral, rat): 4250 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3102 21 00 00
- Applications: analytical chemistry, manufacture of alums.

AM0398 Ammonium sulfate, extra pure

assay (acidimetric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM03981000	1 kg	⊕	AM0398005P	5 kg	⊕

AM0400 Ammonium sulfate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AM04000500	500 g	⊕	AM0400005P	5 kg	⊕
AM04001000	1 kg	⊕	AM0400025P	25 kg	⊕

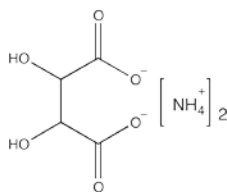
AM0401 Ammonium sulfate, molecular biology grade

assay (acidimetric)min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AM04010100	100 g	⊕	AM0401005P	5 kg	⊕
AM04011000	1 kg	⊕			

di-Ammonium tartrate

AM0410 di-Ammonium tartrate, reagent grade



- Synonyms: Tartaric acid diammonium salt
- $C_4H_{12}N_2O_6$
- M = 184,15 g/mol
- CAS [3164-29-2]
- EINECS-No.: 221-618-9
- Solub. in water: (15 °C): 63 g/l
- Tariff number: 2918 13 00 90
- Applications: analytical chemistry, laboratory reagent.

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
AM04100500	500 g	Ⓟ
AM04101000	1 kg	Ⓟ
AM0410005P	5 kg	Ⓟ

Ammonium thiocyanate

AM0419 Ammonium thiocyanate, reagent grade, ACS, ISO



- Synonyms: Ammonium sulfocyanide, Ammonium sulfocyanate, Ammonium rhodanide, Thiocyanic acid ammonium salt
- NH_4SCN
- M = 76,12 g/mol
- CAS [1762-95-4]
- EINECS-No.: 217-175-6
- Solub. in water: (20 °C): soluble
- Melting point: 150 °C
- Boiling point: 170 °C (decomposes)

- LD 50 (oral, rat): 500 mg/kg
- EC-Index-No.: 615-004-00-3
- GHS-signal word: Warning
- GHS-H sentences: H302 - EUH032 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, synthesis of organic products, photography.

assay (argentometric)min. 99 %

Art. No.	Volume	Container
AM04190500	500 g	Ⓟ
AM04191000	1 kg	Ⓟ
AM0419005P	5 kg	Ⓟ
AM0419025P	25 kg	Ⓟ

Ammonium thiocyanate, volumetric solutions

AM0421 Ammonium thiocyanate, solution 1 mol/l (1 N)

- NH_4SCN
- M = 76,12 g/mol
- CAS [1762-95-4]
- EINECS-No.: 217-175-6
- Density: 1,01 g/cm³
- LD 50 (oral, rat): 500 mg/kg (pure substance)

- EC-Index-No.: 615-004-00-3
- GHS-H sentences: EUH031 - EUH210
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, titrant in volumetric analysis, for metals titration (silver).

Art. No.	Volume	Container
AM04211000	1 l	Ⓟ

AM0420 Ammonium thiocyanate, solution 0,1 mol/l (0,1 N)

- NH_4SCN
- M = 76,12 g/mol
- CAS [1762-95-4]
- EINECS-No.: 217-175-6
- Density: 1,00 g/cm³

- LD 50 (oral, rat): 500 mg/kg (pure substance)
- EC-Index-No.: 615-004-00-3
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
AM04201000	1 l	Ⓟ

AM0418 Ammonium thiocyanate, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,1 N)

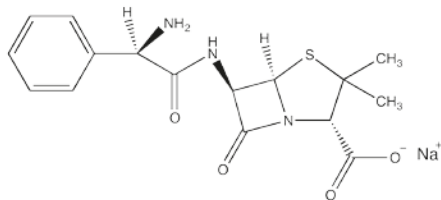
- NH_4SCN
- M = 76,12 g/mol
- CAS [1762-95-4]
- EINECS-No.: 217-175-6
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible

- LD 50 (oral, rat): 500 mg/kg (pure substance)
- EC-Index-No.: 615-004-00-3
- GHS-H sentences: EUH031 - EUH210
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, for determination of: metals.

Art. No.	Volume	Container
AM041800PA	u.	Ⓟ

Ampicilline, sodium salt

AM0468 Ampicilline, sodium salt, for biochemical purposes



- Synonyms: D(-)-α-Aminobenzylpenicillin sodium salt
- $C_{16}H_{18}N_2NaO_4S$
- M = 371,39 g/mol
- CAS [69-52-3]
- EINECS-No.: 200-708-1
- Melting point: 238 °C
- LD 50 (oral, rat): > 5314 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H334 - H335 - H315 - H319 - H317
- GHS-P sentences: P285 - P261 - P305 + P351 + P338 - P321 - P405 - P501a

- Tariff number: 2941 10 20 90
- Applications: in biochemistry, antibacterian, for pharmaceuticals synthesizing.

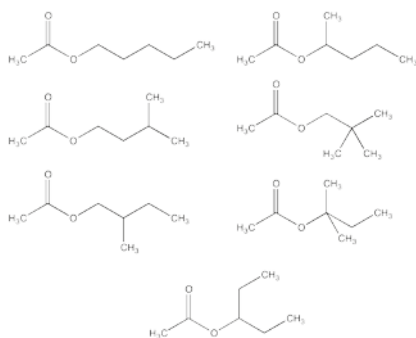
assay (titration with $HClO_4$)min. 98 %

Art. No.	Volume	Container
AM04680005	5 g	Ⓟ
AM04680025	25 g	Ⓟ

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Amyl acetate, mixture of isomers

AC0075 Amyl acetate, mixture of isomers, synthesis grade



- $C_7H_{14}O_2$
- $M = 130,19 \text{ g/mol}$
- CAS [628-63-7]
- EINECS-No.: 211-047-3
- Density: $0,87 \text{ g/cm}^3$
- Solub. in water: (20 °C): 2 - 10 g/l
- Melting point: $\sim -70 \text{ °C}$
- Boiling point: $\sim 149 \text{ °C}$
- Flash pt. 25 °C
- Ignition temp.: 375 °C
- Vapour pressure: 6 hPa (20 °C)
- Refraction index: (n 20 °C/D) 1,402
- LD 50 (oral, rat): $> 5000 \text{ mg/kg}$
- EC-Index-No.: 607-130-00-2 [1]
- ADR: 3 F1 III UN 1104
- IMDG: 3 III UN 1104

- IATA/ICAO: 3 III UN 1104
- GHS-signal word: Warning
- GHS-H sentences: H226 - EUH066
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2915 39 30 00
- Applications: solvents, perfumery, photography, painting.

total content of isomers
(G.C.)min. 98 %

Art. No.	Volume	Container
AC00751000	1 l	0
AC00752500	2,5 l	0

n-Amyl alcohol



- Synonyms: 1-Pentanol, 1-Pentyl alcohol, n-Butyl carbinol
- $C_5H_{12}O$
- $M = 88,15 \text{ g/mol}$
- CAS [71-41-0]
- EINECS-No.: 200-752-1
- Density: $0,81 \text{ g/cm}^3$
- Solub. in water: (20 °C): 27 g/l
- Melting point: -79 °C
- Boiling point: 138 °C
- Flash pt. 33 °C
- Ignition temp.: 300 °C
- Vapour pressure: (20 °C) 3 hPa
- Refraction index: (n 20 °C/D) 1,4100

- Dielectric const.: (25 °C) 13,9
- LD 50 (oral, rat): 3670 mg/kg
- EC-Index-No.: 603-006-00-7
- ADR: 3 F1 III UN 1105
- IMDG: 3 III UN 1105
- IATA/ICAO: 3 III UN 1105
- GHS-signal word: Warning
- GHS-H sentences: H226 - H332 - H315 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P321 - P405 - P501a
- Tariff number: 2905 19 00 98
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, solvents.

AL0127 n-Amyl alcohol, synthesis grade

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AL01271000	1 l	0
AL01272500	2,5 l	0

Art. No.	Volume	Container
AL0127005P	5 l	0
AL0127025A	25 l	0

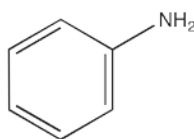
AL0128 n-Amyl alcohol, reagent grade

assay (G.C.)min. 99 %
residue on evaporationmax. 0,002 %
water (K.F.)max. 0,1 %

Art. No.	Volume	Container
AL01281000	1 l	0

Art. No.	Volume	Container
AL01282500	2,5 l	0

Aniline



- Synonyms: Phenylamine, Aminobenzene
- C_6H_7N
- $M = 93,13 \text{ g/mol}$
- CAS [62-53-3]
- EINECS-No.: 200-539-3
- Density: $1,03 \text{ g/cm}^3$
- Solub. in water: (20 °C): 36 g/l
- Melting point: $-6,2 \text{ °C}$
- Boiling point: (20 hPa) 77 °C
- Flash pt. 76 °C
- Ignition temp.: 540 °C
- Vapour pressure: (20 °C) $0,5 \text{ hPa}$
- Refraction index: (n 20 °C/D) 1,5863
- Dielectric const.: (20 °C) 6,8

- LD 50 (oral, rat): 572 mg/kg
- EC-Index-No.: 612-008-00-7
- ADR: 6.1 T1 II UN 1547
- IMDG: 6.1 II UN 1547
- IATA/ICAO: 6.1 II UN 1547
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H372 - H341 - H351 - H318 - H400 - H317
- GHS-P sentences: P301 + P310 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2921 41 00 00
- Applications: manufacture of dyes, for pharmaceuticals synthesizing, in the rubber industry, manufacturing of synthetic resins, analytical chemistry, solvents.

AN0345 Aniline, synthesis grade

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AN03451000	1 l	0
AN03452500	2,5 l	0

Art. No.	Volume	Container
AN0345025A	25 l	0

AN0347 Aniline, reagent grade, ACS

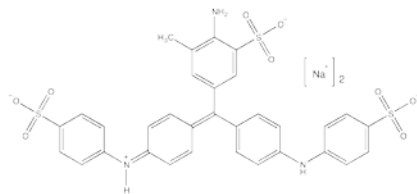
assay (G.C.)min. 99,5 %

Art. No.	Volume	Container
AN03470100	100 ml	0
AN03470250	250 ml	0

Art. No.	Volume	Container
AN03471000	1 l	0

Aniline blue, C.I. 42755

AZ0100 Aniline blue, C.I. 42755, for microscopy

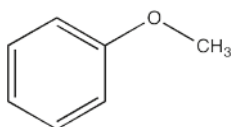


- Synonyms: Acid blue 22
- $C_{20}H_{12}N_2Na_2O_6S_3$
- M = 737,72 g/mol
- CAS [28631-66-5]
- EINECS-No.: 249-113-9
- Solub. in water: (20 °C): soluble
- Tariff number: 3204 12 00 00
- Applications: stain for electron microscopy.

Art. No.	Volume	Container
AZ0100025	25 g	0

Anisole

AN0400 Anisole, synthesis grade



- Synonyms: Methoxybenzene, Methyl phenyl ether
- C_7H_8O
- M = 108,14 g/mol
- CAS [100-66-3]
- EINECS-No.: 202-876-1
- Density: 0,99 g/cm³
- Solub. in water: (20 °C): 1,5 - 1,7 g/l
- Melting point: -37 °C
- Boiling point: 156 °C
- Flash pt. 44 °C
- Ignition temp.: 475 °C
- Vapour pressure: (20 °C) 3,5 hPa
- Refraction index: (n 20 °C/D) 1,5168
- Dielectric const.: (25 °C) 4,3
- LD 50 (oral, rat): 3700 mg/kg
- ADR: 3 F1 III UN 2222

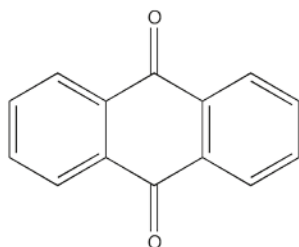
- IMDG: 3 III UN 2222
- IATA/ICAO: 3 III UN 2222
- GHS-signal word: Warning
- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2909 30 90 90
- Applications: perfumery, synthesis of organic products.

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
AN04000250	250 ml	0
AN04001000	1 l	0

Anthraquinone

AN0530 Anthraquinone, synthesis grade



- Synonyms: 9,10-Dioxoanthracene, 9,10-Dihydro-9,10-anthracenedione
- $C_{14}H_8O_2$
- M = 208,22 g/mol
- CAS [84-65-1]
- EINECS-No.: 201-549-0
- Solub. in water: (20 °C): insoluble
- Melting point: 282 - 285 °C
- Boiling point: 379 - 381 °C
- Flash pt. 185 °C
- Ignition temp.: 650 °C
- Vapour pressure: (286 °C) 100 hPa

- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2914 61 00 00
- Applications: manufacture of dyes, synthesis of organic products.

assay (HPLC) min. 98 %

Art. No.	Volume	Container
AN05300250	250 g	0

Antimony

AN0420 Antimony, granulated, extra pure

- Sb
- M = 121,75 g/mol
- CAS [7440-36-0]
- EINECS-No.: 231-146-5
- Solub. in water: (20 °C): insoluble
- Melting point: 630 °C
- Boiling point: 1637 °C
- LD 50 (oral, rat): 7000 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H335
- GHS-P sentences: P261 - P304 + P340 - P312 - P405 - P403 + P233 - P501a
- Tariff number: 8110 10 00 90
- Applications: for the synthesis of: alloys; electrolyte for batteries, analytical chemistry.

assay min. 99 %

Art. No.	Volume	Container
AN04200100	100 g	0

Antimony(III) oxide

AN0450 Antimony(III) oxide, synthesis grade

- Synonyms: di-Antimony trioxide
- Sb_2O_3
- M = 291,50 g/mol
- CAS [1309-64-4]
- EINECS-No.: 215-175-0
- Solub. in water: (20 °C): 2,70 mg/l
- Melting point: 656 °C (sublimes)
- Vapour pressure: (574 °C) 1,3 hPa
- LD 50 (oral, rat): > 20000 mg/kg

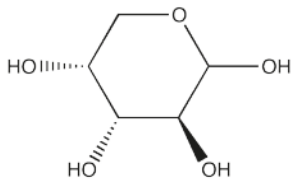
- EC-Index-No.: 051-005-00-X
- GHS-signal word: Warning
- GHS-H sentences: H351
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2825 80 00 00
- Applications: manufacture of dyes, analytical chemistry.

assay (iodometric) min. 99 %

Art. No.	Volume	Container
AN04500250	250 g	0
AN04500500	500 g	0
AN0450005P	5 kg	0

D(-)-Arabinose

AR0050 D(-)-Arabinose, for biochemistry

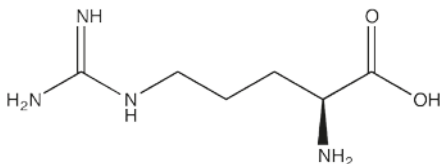


- $C_5H_{10}O_5$
- $M = 150,13$ g/mol
- CAS [28697-53-2]
- EINECS-No.: 233-708-5
- Solub. in water: (20 °C): soluble
- Melting point: 158 - 160 °C
- Tariff number: 2940 00 00 80
- Applications: for microbiology.

Art. No.	Volume	Container
AR00500005	5 g	0
AR00500025	25 g	0

L-Arginine

AR0120 L-Arginine, extra pure, Pharmapur®, Ph Eur, BP, USP



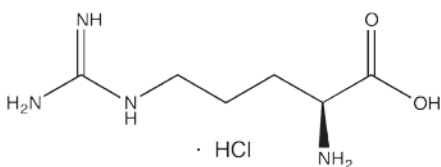
- Synonyms: 2-Amino-5-guanidinovaleric acid
- $C_6H_{14}N_4O_2$
- $M = 174,20$ g/mol
- CAS [74-79-3]
- EINECS-No.: 200-811-1
- Solub. in water: (20 °C): 148,7 g/l
- Melting point: 216 - 218 °C (decomposes)
- LD 50 (oral, rat): > 5110 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2925 29 00 90
- Applications: for pharmaceuticals synthesizing, in food industry, in pharma industry.

assay (titration with $HClO_4$, referred to dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AR01200100	100 g	0
AR01200500	500 g	0
AR0120005P	5 kg	0
AR0120025P	25 kg	0

L-Arginine monohydrochloride

AR0125 L-Arginine monohydrochloride, extra pure, Pharmapur®, Ph Eur, BP, USP



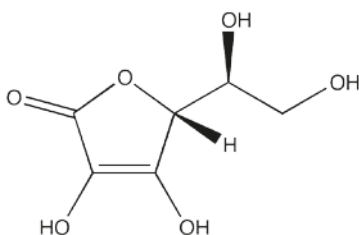
- Synonyms: α -Amino- δ -guanidino valerianic acid hydrochloride
- $C_6H_{14}N_4O_2 \cdot HCl$
- $M = 210,86$ g/mol
- CAS [1119-34-2]
- EINECS-No.: 214-275-1
- Solub. in water: (20 °C): 730 g/l
- Melting point: 218 - 220 °C (decomposes)
- LD 50 (oral, rat): 12000 mg/kg
- Tariff number: 2925 29 00 90
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, in biochemistry, in food industry, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AR01250050	50 g	0
AR01250250	250 g	0
AR0125005P	5 kg	0

L(+)-Ascorbic acid

AC0515 L(+)-Ascorbic acid, reagent grade, ACS, ISO



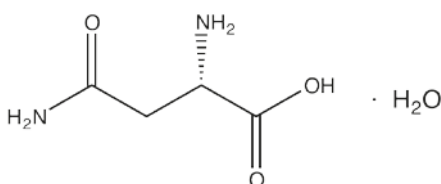
- Synonyms: Vitamin C, 3-Oxo-L-gulonic acid- γ -lactone
- $C_6H_8O_6$
- $M = 176,13$ g/mol
- CAS [50-81-7]
- EINECS-No.: 200-066-2
- Solub. in water: (24 °C): 330 g/l
- Melting point: 190 - 192 °C (decomposes)
- Ignition temp.: 380 °C
- LD 50 (oral, rat): 11900 mg/kg
- Tariff number: 2936 27 00 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, antioxidant (in food industry), in biochemistry.

assay (iodometric) min. 99,7 %

Art. No.	Volume	Container
AC05150100	100 g	0
AC05150250	250 g	0
AC05151000	1 kg	0
AC0515005P	5 kg	0
AC0515025P	25 kg	0

L-Asparagine monohydrate

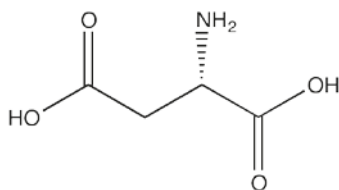
AS0015 L-Asparagine monohydrate, extra pure, Pharmapur®, Ph Eur, BP



- Synonyms: Asparaginic acid semiamide
- $C_4H_8N_2O_3 \cdot H_2O$
- $M = 150,14$ g/mol
- CAS [5794-13-8]
- EINECS-No.: 200-735-9
- Solub. in water: (20 °C): 22 g/l
- Melting point: 215 - 217 °C (decomposes)
- Tariff number: 2924 19 00 90
- Applications: in biochemistry, for pharmaceuticals synthesizing, in food industry, synthesis of organic products, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

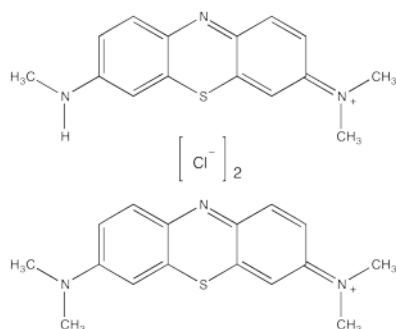
Art. No.	Volume	Container
AS00150025	25 g	0
AS00150100	100 g	0
AS00151000	1 kg	0
AS0015025P	25 kg	0

L- Aspartic acid
AC0529 L-Aspartic acid, extra pure, Pharmapur®, Ph Eur, BP, USP


- Synonyms: L- α -Aminosuccinic acid
- $C_4H_7NO_4$
- M = 133,10 g/mol
- CAS [56-84-8]
- EINECS-No.: 200-291-6
- Solub. in water: (20 °C): 4 g/l
- Melting point: 269 - 271 °C
- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 2922 49 95 90
- Applications: for pharmaceuticals synthesizing, synthesis of organic products, in food industry, in pharma industry.

assay (acidimetric, on dried sample) 98,5 - 101,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC05290100	100 g	Ø
AC05290500	500 g	Ø
AC0529005P	5 kg	Ⓟ

Azure II, C.I. 52010/52015
AZ0365 Azure II, C.I. 52010/52015, for microscopy


- Synonyms: Mixture of Azure B and Methylene blue in equal amounts
- CAS [37247-10-2]
- Solub. in water: (20 °C): ~ 100 g/l
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 3204 13 00 90
- Applications: microscopy.

Art. No.	Volume	Container
AZ03650010	10 g	Ø

Azur eosin methylene blue dye, according to Giemsa
AZ0390 Azur eosin methylene blue dye, according to Giemsa

- CAS [51811-82-6]
- EINECS-No.: 257-438-2
- Solub. in water: (20 °C): slightly soluble
- Tariff number: 3204 19 00 90
- Applications: microscopy.

Art. No.	Volume	Container
AZ03900025	25 g	Ø
AZ03900050	50 g	Ø
AZ03900100	100 g	Ø

Azur eosin methylene blue solution (in methanol), according to Giemsa, modified
AZ0391 Azur eosin methylene blue solution (in methanol), according to Giemsa, modified, for microscopy

- Density: 0,99 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: > 65 °C
- Flash pt. ~ 18 °C
- Ignition temp.: ~ 455 °C
- LD 50 (oral, rat): 5628 mg/kg (methanol)
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992

- GHS-signal word: Danger
- GHS-H sentences: H225 - H301 - H311 - H330 - H370
- GHS-P sentences: P301 + P310 - P320 - P361 - P405 - P501a
- Tariff number: 3204 19 00 90
- Applications: microscopy.

suitability for microscopy passes test

Art. No.	Volume	Container
AZ03910500	500 ml	Ø
AZ03911000	1 l	Ø
AZ03912500	2,5 l	Ø

Scharlau Laboratory Filtration range



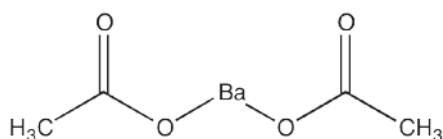
Quantitative and qualitative filter papers, extraction thimbles, quartz microfiber and glass microfiber filters, syringe filters, membrane filters for mobile phase and membrane filters for microbiology

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Z

Barium

Barium acetate

BA0040 Barium acetate, reagent grade, ACS



- Synonyms: Acetic acid barium salt
- $Ba(CH_3COO)_2$
- M = 255,43 g/mol
- CAS [543-80-6]
- EINECS-No.: 208-849-0
- Solub. in water: (20 °C): ~ 720 g/l
- Melting point: ~ 450 °C
- LD 50 (oral, rat): 921 mg/kg
- EC-Index-No.: 056-002-00-7
- ADR: 6.1 T5 III UN 1564
- IMDG: 6.1 III UN 1564
- IATA/ICAO: 6.1 III UN 1564
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332
- GHS-P sentences: P261 - P264 - P301 + P312 - P304 + P340 - P312 - P501a

- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, synthesis of organic products, in lubricant compositions.
- Appearance: White solid

assay (complexometric) 99 - 102 %

Art. No.	Volume	Container
BA00400500	500 g	⊘
BA00401000	1 kg	⊘
BA0040005P	5 kg	⊘
BA0040025P	25 kg	⊘

Barium chloride dihydrate

- $BaCl_2 \cdot 2H_2O$
- M = 244,28 g/mol
- CAS [10326-27-9]
- EINECS-No.: 233-788-1
- Solub. in water: (20 °C): 357 g/l
- Melting point: 962 °C (release of crystalline water)

- LD 50 (oral, rat): 118 mg/kg (anhydrous substance)
- EC-Index-No.: 056-002-00-7
- ADR: 6.1 T5 III UN 1564
- IMDG: 6.1 III UN 1564
- IATA/ICAO: 6.1 III UN 1564
- GHS-signal word: Warning

- GHS-H sentences: H302 - H332
- GHS-P sentences: P261 - P264 - P301 + P312 - P304 + P340 - P312 - P501a
- Tariff number: 2827 39 80 90
- Applications: analytical chemistry, for determination of: sulfates.

BA0053 Barium chloride dihydrate, extra pure

assay (complexometric) 99 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BA00530500	500 g	⊘	BA0053005P	5 kg	⊘
BA00531000	1 kg	⊘	BA0053025P	25 kg	⊘

BA0055 Barium chloride dihydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (complexometric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BA00550500	500 g	⊘	BA0055005P	5 kg	⊘
BA00551000	1 kg	⊘	BA0055025P	25 kg	⊘

Barium chloride, solution 10%

BA0056 Barium chloride, solution 10% w/v

- $BaCl_2$
- M = 208,25 g/mol
- CAS [10361-37-2]
- EINECS-No.: 233-788-1
- Density: 1,08 g/cm³
- EC-Index-No.: 056-004-00-8
- ADR: 6.1 T4 III UN 3287

- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2827 39 80 90

- Applications: analytical chemistry, laboratory reagent.
- Appearance: Colourless liquid

Art. No.	Volume	Container
BA00560500	500 ml	⊘

Barium hydroxide octahydrate

- Synonyms: Caustic baryta, Barium oxide hydrate octahydrate
- $Ba(OH)_2 \cdot 8H_2O$
- M = 315,48 g/mol
- CAS [12230-71-6]
- EINECS-No.: 241-234-5
- Solub. in water: (15 °C): 56 g/l

- Melting point: 78 °C
- LD 50 (oral, rat): 550 mg/kg
- ADR: 8 CT2 II UN 2923
- IMDG: 8 II UN 2923
- IATA/ICAO: 8 II UN 2923
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332

- GHS-P sentences: P261 - P264 - P301 + P312 - P304 + P340 - P312 - P501a
- Tariff number: 2816 40 00 00
- Applications: analytical chemistry, for the detection of: carbon dioxide; in pesticide compositions, in lubricant compositions, in the rubber industry.

BA0063 Barium hydroxide octahydrate, extra pure

assay (complexometric) min. 97 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BA00630500	500 g	⊘	BA0063005P	5 kg	⊘
BA00631000	1 kg	⊘	BA0063025P	25 kg	⊘

BA0065 Barium hydroxide octahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric) min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BA00650500	500 g	⊘	BA00651000	1 kg	⊘

Barium nitrate

- Synonyms: Nitric acid barium salt
- $Ba(NO_3)_2$
- M = 261,35 g/mol
- CAS [10022-31-8]
- EINECS-No.: 233-020-5
- Solub. in water: (20 °C): 90 g/l
- Melting point: 592 - 595 °C
- LD 50 (oral, rat): 355 mg/kg
- EC-Index-No.: 056-002-00-7
- ADR: 5.1 OT2 II UN 1446
- IMDG: 5.1 II UN 1446
- IATA/ICAO: 5.1 II UN 1446
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332
- GHS-P sentences: P261 - P264 - P301 + P312 - P304 + P340 - P312 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, in explosive compositions.
- Appearance: White crystals

BA0073 Barium nitrate, extra pure

assay (complexometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BA00730500	500 g	⊘	BA0073025P	25 kg	⊞
BA0073005P	5 kg	⊞			

BA0075 Barium nitrate, reagent grade, ACS, Reag. Ph Eur

assay (complexometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BA00750250	250 g	⊘	BA0075005P	5 kg	⊞
BA00750500	500 g	⊘	BA0075025P	25 kg	⊞
BA00751000	1 kg	⊘			

Barium sulfate

BA0080 Barium sulfate, extra pure, Pharpur®, Ph Eur, BP

- Synonyms: Sulfuric acid barium salt, Blanc fixe
- $BaSO_4$
- M = 233,40 g/mol
- CAS [7727-43-7]
- EINECS-No.: 231-784-4
- Solub. in water: (20 °C): 15000 mg/kg
- Tariff number: 2833 27 00 00
- Applications: photography, in the rubber industry, synthesis of polymers, in radiology applications, in pharma industry, cosmetic auxiliary
- Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
BA00800500	500 g	⊘
BA00801000	1 kg	⊘
BA0080005P	5 kg	⊞
BA0080025P	25 kg	⊞

Barritt's reagent

RE0100 Barritt's reagent, for microbiology

- Density: 0,82 g/cm³
- Flash pt. 14 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H318
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P501a
- Tariff number: 3822 00 00 00
- Applications: laboratory reagent, antibiotic.
- suitability for microbiology.....passes test

Art. No.	Volume	Container
RE0100G100	100 ml	⊞

Benedict's reagent, qualitative

RE0001 Benedict's reagent, for qualitative determination of sugar

- CAS [63126-89-6]
- Density: 1,19 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-signal word: Warning
- GHS-H sentences: H319 - H412
- GHS-P sentences: P280 - P273 - P264 - P305 + P351 + P338 - P337 + P313 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent, for determination of: sugars.

Art. No.	Volume	Container
RE00010500	500 ml	⊘
RE00011000	1 l	⊘

Benedict's reagent, quantitative

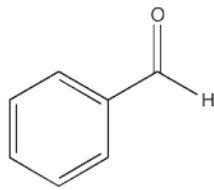
RE0002 Benedict's reagent, for quantitative determination of sugar

- CAS [63126-89-6]
- Density: 1,23 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: H412 - EUH032
- GHS-P sentences: P273 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent, for determination of: sugars.

Art. No.	Volume	Container
RE00020500	500 ml	⊘
RE00021000	1 l	⊘

Benzaldehyde

BE0160 Benzaldehyde, synthesis grade



- Synonyms: Benzoic aldehyde, Bitter almond oil
- C_7H_6O
- $M = 106,13$ g/mol
- CAS [100-52-7]
- EINECS-No.: 202-860-4
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): 3,3 g/l
- Melting point: -56 °C
- Boiling point: 179 °C
- Flash pt. 64 °C
- Ignition temp.: 190 °C
- Vapour pressure: (20 °C) 1,3 hPa
- Refraction index: (n 20 °C/D) 1,5450
- LD 50 (oral, rat): 1300 mg/kg
- EC-Index-No.: 605-012-00-5
- ADR: 9 M11 III UN 1990
- IMDG: 9 III UN 1990
- IATA/ICAO: 9 III UN 1990

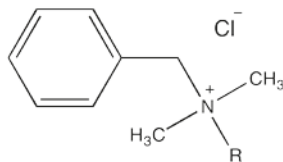
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2912 21 00 00
- Applications: solvents, perfumery, synthesis of organic products, manufacture of dyes.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
BE01601000	1 l	0
BE01602500	2,5 l	0
BE0160005P	5 l	0
BE0160025P	25 l	0

Benzalkonium chloride

BE0155 Benzalkonium chloride, synthesis grade


 R: $C_{12}H_{25}$ 60%
 $C_{14}H_{29}$ 40%

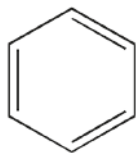
- Synonyms: Alkylbenzyltrimethylammonium chloride, Benzyltrimethylalkylammonium chloride
- $C_9H_{13}ClNR$
- $M = 284$ g/mol
- CAS [63449-41-2]
- EINECS-No.: 264-151-6
- Solub. in water: (20 °C): soluble
- Melting point: 29 - 34 °C
- EC-Index-No.: 612-140-00-5
- ADR: 8 C4 II UN 3261
- IMDG: 8 II UN 3261
- IATA/ICAO: 8 II UN 3261
- GHS-signal word: Danger

- GHS-H sentences: H314 - H400 - H302 - H312
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3402 12 00 00
- Applications: analytical chemistry, disinfectant.

assay (argentometric, on dried sample)min. 97 %

Art. No.	Volume	Container
BE01550250	250 g	0
BE01551000	1 kg	0

Benzene



- Synonyms: Cyclohexatriene
- C_6H_6
- $M = 78,11$ g/mol
- CAS [71-43-2]
- EINECS-No.: 200-753-7
- Density: 0,88 g/cm³
- Solub. in water: (20 °C): 1,77 g/l
- Melting point: 5,5 °C
- Boiling point: 80,1 °C
- Flash pt. -11 °C
- Ignition temp.: 555 °C
- Vapour pressure: (20 °C) 101 hPa
- Refraction index: (n 20 °C/D) 1,5011
- Dielectric const.: (20 °C) 2,3
- LD 50 (oral, rat): 930 mg/kg

- EC-Index-No.: 601-020-00-8
- ADR: 3 F1 II UN 1114
- IMDG: 3 II UN 1114
- IATA/ICAO: 3 II UN 1114
- GHS-signal word: Danger
- GHS-H sentences: H225 - H340 - H350 - H372 - H304 - H315 - H319
- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2902 20 00 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, manufacture of dyes, manufacturing of lacquers, analytical chemistry, solvent for fat and oil extractions.

BE0030 Benzene, synthesis grade

assay (G.C.)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BE00301000	1 l	0	BE0030025P	25 l	0
BE0030005P	5 l	0			

BE0031 Benzene, extra pure

 assay (G.C.)min. 99,5 %
 residue on evaporationmax. 0,001 %
 water (K.F.)max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BE00311000	1 l	0	BE0031005P	5 l	0
BE00312500	2,5 l	0	BE0031025A	25 l	0

BE0033 Benzene, reagent grade, ACS, ISO, Reag. Ph Eur

 assay (G.C.)min. 99,7 %
 residue on evaporationmax. 0,001 %
 water (K.F.)max. 0,03 %

Art. No.	Volume	Container	Art. No.	Volume	Container
BE00331000	1 l	0	BE0033005L	5 l	0
BE00332500	2,5 l	0	BE0033025A	25 l	0

BE0034 Benzene, dried (max. 0,01% H₂O), reagent grade
 assay (G.C.)min. 99,7 %
 water (K.F.)max. 0,01 %

Art. No.	Volume	Container
BE00341000	1 l	0

BE0041 Benzene, Multisolvant® HPLC grade ACS ISO UV-VIS



assay (G.C.)	min. 99,8 %	290 nm.	80 %	0,097 AU
residue on evaporation	max. 0,0002 %	300 nm.	90 %	0,046 AU
water (K.F.)	max. 0,02 %	320 nm.	95 %	0,022 AU
min. transmission/max. absorbance		340 nm.	98 %	0,009 AU
wavelength:	T(%) A (AU)	Microfiltered through membranes of pore diameter		
280 nm.	25 % 0,602 AU	0,22µm		

Art. No.	Volume	Container
BE00411000	1 l	0
BE00412500	2,5 l	0
BE00414000	4 l	0

BE0032 Benzene, 99,7%, anhydrous (max. 0,005% H₂O)



assay (G.C.)	min. 99,7 %
water (K.F.)	max. 0,005 %

Art. No.	Volume	Container
BE00320100	100 ml	0
BE00320500	500 ml	0

Art. No.	Volume	Container
BE00321000	1 l	0

BE0037 Benzene, for liquid scintillation, Normascint®

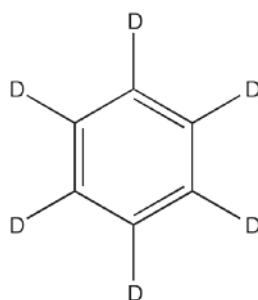


assay (G.C.)	min. 99,5 %
suitability as solvent	
for liquid scintillationpasses test

Art. No.	Volume	Container
BE00371000	1 l	0

Benzene-d₆

BE0040 Benzene-d₆, deuteration degree min. 99,5%, NMR spectroscopy grade, Spectrosol®

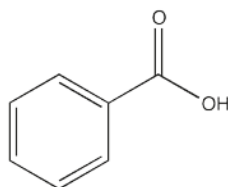


- Synonyms: Hexadeuterobenzene
- C₆D₆
- M = 84,15 g/mol
- CAS [1076-43-3]
- EINECS-No.: 214-061-8
- Density: 0,95 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 6,7 °C
- Boiling point: 79 °C
- Flash pt. -11 °C
- Ignition temp.: 555 °C
- LD 50 (oral, rat): 930 mg/kg
- ADR: 3 F1 II UN 1114
- IMDG: 3 II UN 1114

- IATA/ICAO: 3 II UN 1114
- GHS-signal word: Danger
- GHS-H sentences: H225 - H340 - H350 - H372 - H304 - H315 - H319
- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
BE00400010	10 ml	0

Benzoic acid



- Synonyms: Benzenecarboxylic acid, Phenylformic acid
- C₇H₆O₂
- M = 122,12 g/mol
- CAS [65-85-0]
- EINECS-No.: 200-618-2
- Solub. in water: (20 °C): 3,4 g/l
- Melting point: 121,5 - 123,0 °C
- Boiling point: ~ 249 °C
- Flash pt. 121,1 °C

- Ignition temp.: 532 °C
- Vapour pressure: (20 °C) 1,3 hPa
- LD 50 (oral, rat): 1700 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 2916 31 00 90
- Applications: analytical chemistry, preservative agent, manufacture of dyes.

AC0563 Benzoic acid, synthesis grade



assay (acidimetric)	min. 99,5 %
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Art. No.	Volume	Container
AC05630500	500 g	0
AC05631000	1 kg	0

Art. No.	Volume	Container
AC0563005P	5 kg	0
AC0563025P	25 kg	0

AC0565 Benzoic acid, reagent grade, ACS



assay (acidimetric)	min. 99,9 %
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Art. No.	Volume	Container
AC05650500	500 g	0
AC05651000	1 kg	0

Art. No.	Volume	Container
AC0565005P	5 kg	0
AC0565025P	25 kg	0

AC0566 Benzoic acid, secondary standard for volumetric titrations, Titrasure®

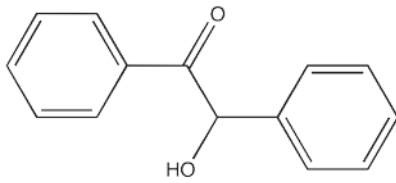


assay (on dried sample)	min. 99,5 %
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Art. No.	Volume	Container
AC05660080	80 g	0

Benzoin

BE0270 Benzoin, synthesis grade



- Synonyms: α -Hydroxy- α -phenylacetophenone
- $C_{14}H_{12}O_2$
- $M = 212,25$ g/mol
- CAS [119-53-9]
- EINECS-No.: 204-331-3
- Solub. in water: (20 °C): insoluble
- Melting point: 132 - 134 °C
- Boiling point: 344 °C
- Flash pt. 182 °C
- Ignition temp.: 182 °C
- Vapour pressure: (136 °C) 1,3 hPa

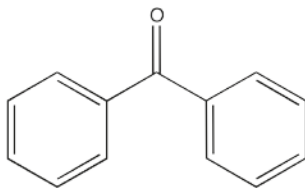
- LD 50 (oral, rat): 6400 mg/kg
- Tariff number: 2914 40 90 00
- Applications: synthesis of organic products, laboratory reagent.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
BE02700250	250 g	☉
BE02701000	1 kg	☉

Benzophenone

BE0245 Benzophenone, synthesis grade



- Synonyms: Diphenyl ketone
- $C_{13}H_{10}O$
- $M = 182,22$ g/mol
- CAS [119-61-9]
- EINECS-No.: 204-337-6
- Solub. in water: (20 °C): insoluble
- Melting point: 47 - 49 °C
- Boiling point: 304 - 306 °C
- Flash pt. 150 °C
- Vapour pressure: (108 °C) 1,3 hPa
- LD 50 (oral, rat): > 10000 mg/kg
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077

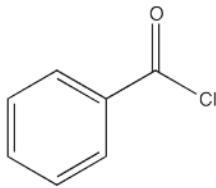
- GHS-signal word: Warning
- GHS-H sentences: H410
- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 2914 39 00 90
- Applications: analytical chemistry, for pharmaceuticals synthesizing.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
BE02450250	250 g	☉
BE02451000	1 kg	☉

Benzoyl chloride

CL0270 Benzoyl chloride, synthesis grade



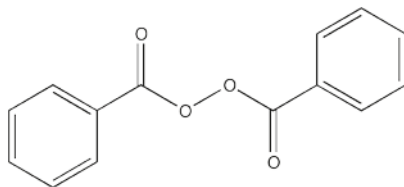
- Synonyms: Benzenecarbonyl chloride, Benzoic acid chloride
- C_7H_5ClO
- $M = 140,57$ g/mol
- CAS [98-88-4]
- EINECS-No.: 202-710-8
- Density: 1,21 g/cm³
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: -0,6 °C
- Boiling point: (4 hPa) 49 °C
- Flash pt. 72 °C
- Ignition temp.: 600 °C
- Vapour pressure: (20 °C) 0,5 hPa
- LD 50 (oral, rat): 2460 mg/kg
- EC-Index-No.: 607-012-00-0
- ADR: 8 C3 II UN 1736
- IMDG: 8 II UN 1736

- IATA/ICAO: 8 II UN 1736
- GHS-signal word: Danger
- GHS-H sentences: H314 - H302 - H312 - H332 - H317
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2916 32 90 00
- Applications: analytical chemistry, synthesis of organic products.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
CL02701000	1 l	☉
CL0270025A	25 l	☉

Benzoyl peroxide

PE0165 Benzoyl peroxide, moistened with 25% H₂O, synthesis grade

- Synonyms: Dibenzoyl peroxide
- $C_{14}H_{10}O_4$
- $M = 242,23$ g/mol
- CAS [94-36-0]
- EINECS-No.: 202-327-6
- Solub. in water: (20 °C): almost insoluble
- Melting point: 100 - 105 °C (decomposes)
- LD 50 (oral, rat): > 5000 mg/kg
- EC-Index-No.: 617-008-00-0
- ADR: 5.2 P1 UN 3104

- IMDG: 5.2 UN 3104
- IATA/ICAO: 5.2 UN 3104
- GHS-signal word: Danger
- GHS-H sentences: H241 - H319 - H317
- GHS-P sentences: P210 - P305 + P351 + P338 - P321 - P410 - P411a + P235 - P501a
- Tariff number: 2916 32 10 00
- Applications: oxidizing agent, catalyst, synthesis of polymers, in pharma industry.
- Appearance: White powder

PE0165 Benzoyl peroxide, moistened with 25% H₂O, synthesis grade

assay (iodometric, on dried sample)min. 98 %

Art. No.	Volume	Container
PE01650100	100 g	☉
PE01650250	250 g	☉

Art. No.	Volume	Container
PE01651000	1 kg	☉

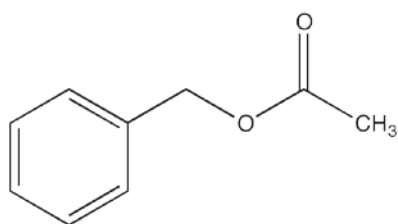
PE0160 Benzoyl peroxide, moistened with 25% H₂O, extra pure, Pharmpur®, Ph Eur, BP
 assay (iodometric)70 - 77 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PE01600100	100 g	☉

Art. No.	Volume	Container
PE01600250	250 g	☉

Benzyl acetate

AC0080 Benzyl acetate, synthesis grade



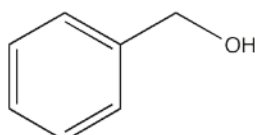
- Synonyms: Acetic acid benzyl ester
- C₉H₁₀O₂
- M = 150,18 g/mol
- CAS [140-11-4]
- EINECS-No.: 205-399-7
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): slightly miscible
- Melting point: -51 °C
- Boiling point: 205 - 207 °C
- Flash pt. 95 °C
- Ignition temp.: 460 °C
- Vapour pressure: (25 °C) 1,9 hPa

- Refraction index: (n 20 °C/D) 1,5006
- LD 50 (oral, rat): 2490 mg/kg
- Tariff number: 2915 39 50 00
- Applications: synthesis of organic products, analytical chemistry, perfumery.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AC00801000	1 l	0

Benzyl alcohol



- Synonyms: Phenylmethanol, Phenylcarbinol
- C₇H₈O
- M = 108,14 g/mol
- CAS [100-51-6]
- EINECS-No.: 202-859-9
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): 40 g/l
- Melting point: -15,3 °C
- Boiling point: 205 °C
- Flash pt. 101 °C
- Ignition temp.: 435 °C
- Vapour pressure: (20 °C) 0,13 hPa

- Refraction index: (n 20 °C/D) 1,5396
- Dielectric const.: (25 °C) 13,1
- LD 50 (oral, rat): 1230 mg/kg
- EC-Index-No.: 603-057-00-5
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332
- GHS-P sentences: P261 - P264 - P301 + P312 - P304 + P340 - P312 - P501a
- Tariff number: 2906 21 00 00
- Applications: analytical chemistry, perfumery, microscopy.

AL0160 Benzyl alcohol, synthesis grade

assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL01601000	1 l	0	AL0160005P	5 l	0
AL01602500	2,5 l	0	AL0160025P	25 l	0

AL0162 Benzyl alcohol, extra pure, Pharpur®, Ph Eur, BP, NF

assay (G.C.) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AL01621000	1 l	0	AL0162025A	25 l	0
AL01622500	2,5 l	0	AL0162200L	200 l	0
AL0162005P	5 l	0			

AL0161 Benzyl alcohol, reagent grade, Reag. Ph Eur

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL01611000	1 l	0	AL0161025P	25 l	0
AL01612500	2,5 l	0			

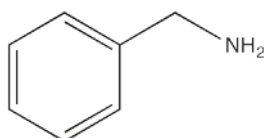
AL0163 Benzyl alcohol, 99,5%, anhydrous (max. 0,01% H₂O)

assay (G.C.) min. 99,5 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL01630100	100 ml	0	AL01631000	1 l	0
AL01630500	500 ml	0			

Benzylamine

BE0075 Benzylamine, synthesis grade



- Synonyms: Phenylmethanamine
- C₇H₉N
- M = 107,16 g/mol
- CAS [100-46-9]
- EINECS-No.: 202-854-1
- Density: 0,98 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 10 °C
- Boiling point: 185 °C
- Flash pt. 65 °C
- Ignition temp.: ~ 390 °C
- Vapour pressure: (20 °C) 0,6 hPa
- Refraction index: (n 20 °C/D) 1,5438
- LD 50 (oral, rat): ~ 1130 mg/kg
- EC-Index-No.: 612-047-00-X
- ADR: 8 C7 III UN 2735

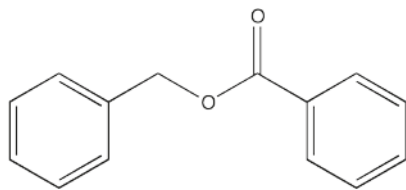
- IMDG: 8 III UN 2735
- IATA/ICAO: 8 III UN 2735
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226 - H302 - H312
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 49 00 90
- Applications: synthesis of organic products, analytical chemistry, perfumery.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
BE00750250	250 ml	0
BE00751000	1 l	0

Benzyl benzoate

BE0185 Benzyl benzoate, extra pure, Pharpur®, Ph Eur, BP, USP



- Synonyms: Benzoic acid benzyl ester
- $C_{14}H_{12}O_2$
- $M = 212,25$ g/mol
- CAS [120-51-4]
- EINECS-No.: 204-402-9
- Density: 1,12 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 21 °C
- Boiling point: 324 °C
- Flash pt. 158 °C
- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- Refraction index: (n 21 °C/D) 1,5681
- LD 50 (oral, rat): 1900 mg/kg
- EC-Index-No.: 607-085-00-9
- ADR: 9 M6 III UN 3082
- IMDG: 9 III UN 3082
- IATA/ICAO: 9 III UN 3082

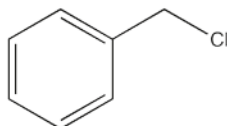
- GHS-signal word: Warning
- GHS-H sentences: H302 - H411
- GHS-P sentences: P273 - P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2916 31 00 00
- Applications: analytical chemistry, in food industry, perfumery, in pharma industry.
- Appearance: Oily liquid

assay (acidimetric, after saponification) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
BE01851000	1 l	0
BE0185025P	25 l	0

Benzyl chloride

CL0250 Benzyl chloride, synthesis grade



- Synonyms: α -Chlorotoluene, Chloromethylbenzene
- C_7H_7Cl
- $M = 126,59$ g/mol
- CAS [100-44-7]
- EINECS-No.: 202-853-6
- Density: 1,10 g/cm³
- Solub. in water: (30 °C): 460 mg/l
- Melting point: -41,2 °C
- Boiling point: (79 hPa) 100 °C
- Flash pt. 60 °C
- Ignition temp.: 585 °C
- Vapour pressure: (20 °C) 1,2 hPa
- Refraction index: (n 20 °C/D) 1,5380
- LD 50 (oral, rat): 440 mg/kg
- EC-Index-No.: 602-037-00-3
- ADR: 6.1 TC1 II UN 1738
- IMDG: 6.1 II UN 1738

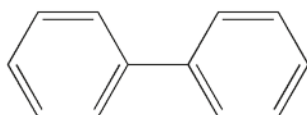
- IATA/ICAO: 6.1 II UN 1738
- GHS-signal word: Danger
- GHS-H sentences: H331 - H350 - H373 - H318 - H226 - H302 - H315 - H335
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2903 99 90 90
- Applications: perfumery, for pharmaceuticals synthesizing, manufacture of dyes, manufacturing of synthetic resins.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
CL02501000	1 l	0

Biphenyl

BI0033 Biphenyl, synthesis grade



- Synonyms: Diphenyl, Phenylbenzene
- $C_{12}H_{10}$
- $M = 154,21$ g/mol
- CAS [92-52-4]
- EINECS-No.: 202-163-5
- Solub. in water: (20 °C): insoluble
- Melting point: 68 - 70 °C
- Boiling point: 255 °C
- Flash pt. 113 °C
- Ignition temp.: 570 °C
- Vapour pressure: (20 °C) 0,07 hPa
- LD 50 (oral, rat): 2140 mg/kg
- EC-Index-No.: 601-042-00-8
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077

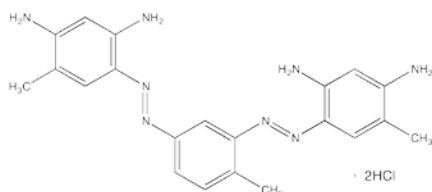
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H410 - H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2902 90 30 00
- Applications: synthesis of organic products, analytical chemistry.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
BI00330500	500 g	0

Bismarck brown R, C.I. 21010

PA0150 Bismarck brown R, C.I. 21010, for microscopy



- Synonyms: Basic brown 4, Vesuvin, 4,4'-(1,3-Phenylenebis(azo))bis(1,3-benzenediamine)
- $C_{21}H_{24}N_8 \cdot 2HCl$
- $M = 461,40$ g/mol
- CAS [5421-66-9]
- EINECS-No.: 226-541-4
- Melting point: 222 °C
- Tariff number: 2927 00 00 90

- Applications: dye (for biology, cosmetics).

Art. No.	Volume	Container
PA01500050	50 g	0

Bismuth(III) hydroxide nitrate

BI0225 Bismuth(III) hydroxide nitrate, extra pure, Pharpur®, Ph Eur, BP, USP

- Synonyms: Bismuth subnitrate, Bismuth nitrate basic
- $\text{Bi}_2\text{O}(\text{OH})_5(\text{NO}_3)_3$
- M = 1461,99 g/mol
- CAS [1304-85-4]
- EINECS-No.: 215-136-8
- Solub. in water: (20 °C): almost insoluble
- Melting point: 260 °C
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, cosmetics, in pharma industry.
- Appearance: Colourless solid

assay (complexometric, as Bi, on dried sample) 71 - 74 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
BI02250250	250 g	0

Bismuth oxide

BI0200 Bismuth oxide, synthesis grade

- Bi_2O_3
- M = 465,96 g/mol
- CAS [1304-76-3]
- EINECS-No.: 215-134-7
- Solub. in water: (20 °C): almost insoluble
- Melting point: 817 °C
- Boiling point: 1890 °C
- LD 50 (oral, rat): 5000 mg/kg
- Tariff number: 2825 90 80 00
- Applications: analytical chemistry, catalyst, in the rubber industry, synthesis of organic products.

assay (complexometric) min. 99,5 %

Art. No.	Volume	Container
BI02000100	100 g	0

Biuret's reagent

RE0003 Biuret's reagent, for determination of proteins

- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for determination of proteins.
- Appearance: Blue liquid

Art. No.	Volume	Container
RE00030100	100 ml	0

Bleaching agent, solution according to Gram

DE0010 Bleaching agent, solution according to Gram

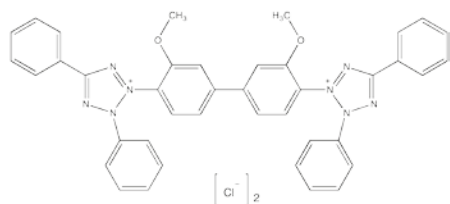
- CAS [37348-17-7]
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): soluble
- Flash pt. -10 °C
- Ignition temp.: > 425 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: microscopy
- suitability for microscopy passes test

contains acetone and ethanol

Art. No.	Volume	Container
DE0010G100	100 ml	0
DE00100500	500 ml	0
DE00101000	1 l	0
DE00102500	2,5 l	0

Blue tetrazolium

AZ0220 Blue tetrazolium, for microscopy



- Synonyms: 3,3'-(3,3'-Dimethoxy[1,1'-bi-phenyl]-4,4'-diyl)bis[2,5-diphenyl-2H-tetrazolium] dichloride
- $\text{C}_{20}\text{H}_{22}\text{Cl}_2\text{N}_8\text{O}_2$
- M = 727,66 g/mol
- CAS [1871-22-3]
- EINECS-No.: 217-488-8
- Solub. in water: (20 °C): ~ 3 g/l
- Melting point: 245 - 247 °C
- EC-Index-No.: 611-024-00-1
- GHS-signal word: Danger

- GHS-H sentences: H350
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2933 99 90 90
- Applications: microscopy (dye), for histology.

Art. No.	Volume	Container
AZ02200001	1 g	0
AZ02200005	5 g	0

Boric acid

- Synonyms: Orthoboric acid
- H_3BO_3
- M = 61,84 g/mol
- CAS [10043-35-3]
- EINECS-No.: 233-139-2
- Solub. in water: (20 °C): 46,5 g/l
- Melting point: 185 °C (decomposes)
- Vapour pressure: (20 °C) 2,7 hPa
- LD 50 (oral, rat): 2660 mg/kg
- EC-Index-No.: 005-007-00-2
- GHS-signal word: Danger
- GHS-H sentences: H360FD

- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2810 00 90 00
- Applications: in building materials, in porcelain industry, cosmetics, manufacture of dyes, photography, analytical chemistry.

AC0577 Boric acid, extra pure, Pharpur®, Ph Eur, BP, NF

assay (acidimetric) 99,0 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC05770500	500 g	0
AC05771000	1 kg	0

Art. No.	Volume	Container
AC0577005P	5 kg	0
AC0577025P	25 kg	0

AC0582 Boric acid, powder, Pharpur®, Ph Eur, GMP, suitable for use as excipient

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC05821000	1 kg	0

Art. No.	Volume	Container
AC0582025P	25 kg	0

AC0578 Boric acid, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric) min. 99,8 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC05780500	500 g	⊘	AC0578005P	5 kg	⊘
AC05781000	1 kg	⊘	AC0578025P	25 kg	⊘

AC0580 Boric acid, molecular biology grade

 assay (acidimetric) min. 99,5 %
 DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AC05800500	500 g	⊘	AC0580005P	5 kg	⊘
AC05801000	1 kg	⊘			

Boric acid, solution 4%
AC0579 Boric acid, solution 4% w/v

- Synonyms: Orthoboric acid solution
- H_3BO_3
- M = 61,83 g/mol
- CAS [10043-35-3]
- EINECS-No.: 233-139-2
- Density: 1,015 g/cm³

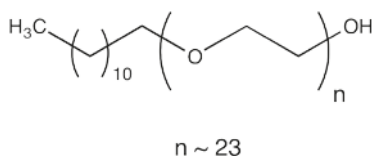
- GHS-H sentences: EUH210
- Tariff number: 2810 00 90 00
- Applications: analytical chemistry, in the pharmaceuticals industry, in pesticide compositions, titrant in volumetric analysis.

Art. No.	Volume	Container
AC05791000	1 l	⊘
AC0579005P	5 l	⊘

Boric acid, solution 4% w/v, with indicator
AC0581 Boric acid, solution 4% w/v, with indicator, for Kjeldahl

- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

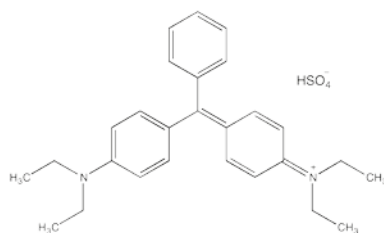
Art. No.	Volume	Container
AC05811000	1 l	⊘

Brij® 35
BR0017 Brij® 35 (Brij is a trademark of ICI America Inc.)


- Synonyms: Polyoxyethylene lauryl ether, Polyethyleneglycol lauryl ether
- $(C_{12}H_{25}O)_n C_{12}H_{25}O$
- CAS [9002-92-0]
- EINECS-No.: 500-002-6
- Solub. in water: (25 °C): soluble
- Melting point: 36 - 42 °C
- Boiling point: > 100 °C
- Flash pt. 149 °C
- Vapour pressure: (20 °C) 1,3 hPa
- LD 50 (oral, rat): 1000 mg/kg
- GHS-signal word: Warning

- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 3402 13 00 90
- Applications: solvents, emulsifier, for pharmaceuticals synthesizing.

Art. No.	Volume	Container
BR00170250	250 g	⊘
BR00171000	1 kg	⊘

Brilliant green, C.I. 42040
VE0060 Brilliant green, C.I. 42040, for microscopy


- Synonyms: Diamond green G, Ethyl green, Solid green
- $C_{27}H_{34}N_2O_2S$
- M = 482,64 g/mol
- CAS [633-03-4]
- EINECS-No.: 211-190-1
- Solub. in water: (20 °C): ~ 100 g/l
- Melting point: ~ 180 °C
- LD 50 (oral, rat): ~ 300 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302

- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 3204 13 00 90
- Applications: analytical chemistry, for microbiology, manufacture of dyes, indicator.

Art. No.	Volume	Container
VE00600025	25 g	⊘
VE00600100	100 g	⊘

Bromide-bromate, volumetric solutions
BR0070 Bromide-bromate, solution 0,05 mol/l (0,1 N), according to ASTM D5776-99

- Br / BrO₃
- Density: ~ 1,018 g/cm³
- LD 50 (oral, rat): 321 mg/kg (toxic component)
- GHS-signal word: Danger
- GHS-H sentences: H350

- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
BR00701000	1 l	⊘

Bromine index solution
ME0736 Bromine index solution, according to ASTM D5776-99

- Density: 1,03 g/cm³
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H360D - H371 - H335 - H314 - H226 - H312

- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for determination of bromine index.

Art. No.	Volume	Container
ME07361000	1 l	⊘
ME07362500	2,5 l	⊘

Bromine water

AG0005 Bromine water, saturated solution

- Br₂
- M = 159,92 g/mol
- CAS [7726-95-6]
- EINECS-No.: 231-778-1
- Density: ~ 1,008 g/cm³
- EC-Index-No.: 035-001-00-5
- ADR: 6.1 TC3 II UN 3289

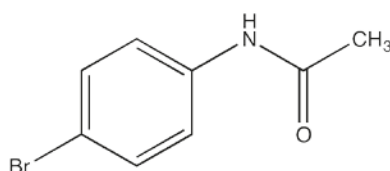
- IMDG: 6.1 II UN 3289
- IATA/ICAO: 6.1 II UN 3289
- GHS-signal word: Danger
- GHS-H sentences: H318 - H315
- GHS-P sentences: P280 - P305 + P351 + P338 - P310 - P321 - P362 - P332 + P313
- Tariff number: 2801 30 90 00

- Applications: analytical chemistry, laboratory reagent, manufacture of dyes, fumigant, inorganic salts, in the pharmaceuticals industry.

Art. No.	Volume	Container
AG00050500	500 ml	0

p-Bromoacetanilide

BR0030 p-Bromoacetanilide, extra pure



- Synonyms: N-Acetyl-p-bromoaniline, 4'-Bromoacetanilide
- C₈H₈BrNO
- M = 214,07 g/mol
- CAS [103-88-8]
- EINECS-No.: 203-154-9
- Solub. in water: (20 °C): insoluble
- Melting point: 164 - 167 °C
- GHS-signal word: Warning
- GHS-H sentences: H302

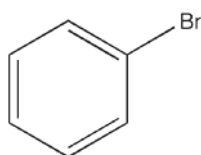
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2924 29 95 99
- Applications: synthesis of organic products, for pharmaceuticals synthesizing.

assay (HPLC)min. 98 %

Art. No.	Volume	Container
BR00300100	100 g	0

Bromobenzene

BR0060 Bromobenzene, synthesis grade



- Synonyms: Phenyl bromide
- C₆H₅Br
- M = 157,02 g/mol
- CAS [108-86-1]
- EINECS-No.: 203-623-8
- Density: 1,49 g/cm³
- Solub. in water: (20 °C): 4 g/l
- Melting point: -31 °C
- Boiling point: 156 °C
- Flash pt. 51 °C
- Ignition temp.: 565 °C
- Vapour pressure: (20 °C) 4 hPa
- Refraction index: (n 20 °C/D) 1,5602
- Dielectric const.: (20 °C) 5,4
- LD 50 (oral, rat): 2699 mg/kg
- EC-Index-No.: 602-060-00-9
- ADR: 3 F1 III UN 2514

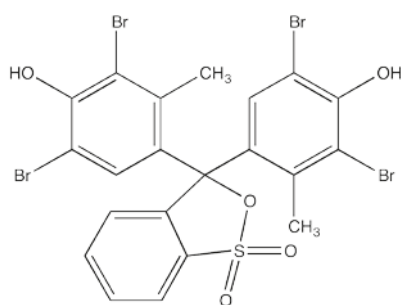
- IMDG: 3 III UN 2514
- IATA/ICAO: 3 III UN 2514
- GHS-signal word: Warning
- GHS-H sentences: H226 - H315 - H411
- GHS-P sentences: P210 - P241 - P280 - P303 + P361 + P353 - P321 - P501a
- Tariff number: 2903 99 90 90
- Applications: analytical chemistry, for organometallic compounds synthesizing.
- Appearance: Colourless to slightly yellow clear liquid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
BR00600250	250 ml	0
BR00601000	1 l	0

Bromocresol green

VE0070 Bromocresol green, indicator

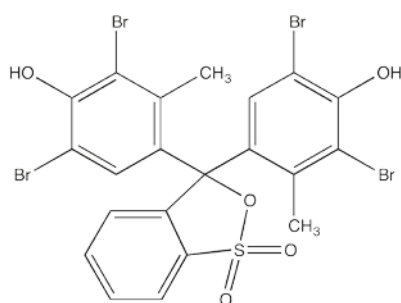


- Synonyms: 3,3',5,5'-Tetrabromo-m-cresolsulfonphthalein, BCG
- C₂₁H₁₄Br₄O₅S
- M = 698,04 g/mol
- CAS [76-60-8]
- EINECS-No.: 200-972-8
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator.

Art. No.	Volume	Container
VE00700001	1 g	0
VE00700005	5 g	0
VE00700025	25 g	0

Bromocresol green, solution 0,04%

VE0075 Bromocresol green, solution 0,04%, indicator

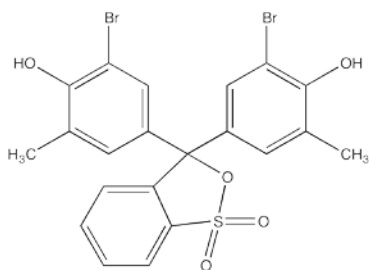


- Synonyms: 3,3',5,5'-Tetrabromo-m-cresolsulfonphthalein, BCG
- C₂₁H₁₄Br₄O₅S
- M = 698,04 g/mol
- CAS [76-60-8]
- EINECS-No.: 200-972-8
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator.

Art. No.	Volume	Container
VE00750100	100 ml	0

Bromocresol purple

PU0020 Bromocresol purple, indicator

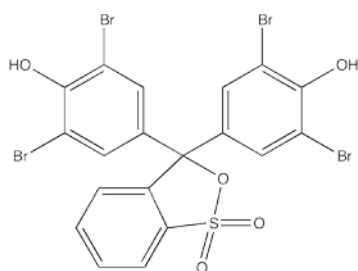


- Synonyms: 5',5''-Dibromo-o-cresolsulfonphthalein
- $C_{21}H_{16}Br_2O_5S$
- $M = 540,24$ g/mol
- CAS [115-40-2]
- EINECS-No.: 204-087-8
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator.

Art. No.	Volume	Container
PU00200005	5 g	0
PU00200025	25 g	0

Bromophenol blue

AZ0125 Bromophenol blue, indicator, ACS

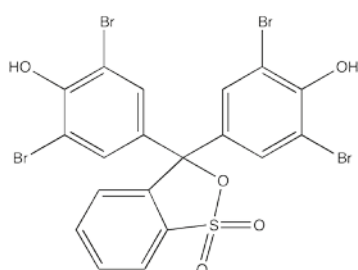


- Synonyms: BPB, 3,3',5,5'-Tetrabromophenolsulfonphthalein
- $C_{19}H_{10}Br_4O_5S$
- $M = 669,96$ g/mol
- CAS [115-39-9]
- EINECS-No.: 204-086-2
- Solub. in water: (20 °C): almost insoluble
- Melting point: 273 °C (decomposes)
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator.

Art. No.	Volume	Container
AZ01250005	5 g	0
AZ01250025	25 g	0

Bromophenol blue, solution 0,04%

AZ0126 Bromophenol blue, solution 0,04%, indicator

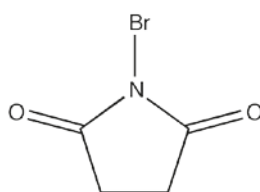


- Synonyms: BPB
 - $C_{19}H_{10}Br_4O_5S$
 - $M = 669,96$ g/mol
 - CAS [115-39-9]
 - EINECS-No.: 204-086-2
 - Tariff number: 2934 99 90 90
 - Applications: analytical chemistry, titrant in volumetric analysis, indicator.
- pH range (yellow to blue)3,0 - 4,6

Art. No.	Volume	Container
AZ0126G100	100 ml	0

N-Bromosuccinimide

BR0120 N-Bromosuccinimide, extra pure



- Synonyms: NBS
- $C_4H_4BrNO_2$
- $M = 177,99$ g/mol
- CAS [128-08-5]
- EINECS-No.: 204-877-2
- Solub. in water: (25 °C): 14 g/l
- Melting point: 174 - 179 °C
- Vapour pressure: (20 °C) 14,8 hPa
- ADR: 8 C10 III UN 1759
- IMDG: 8 III UN 1759
- IATA/ICAO: 8 III UN 1759
- GHS-signal word: Warning

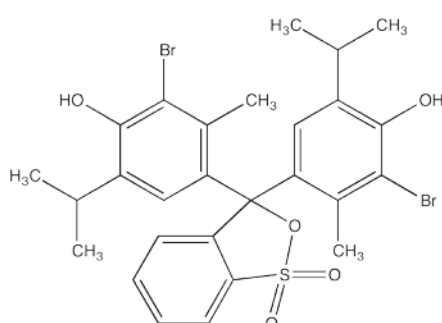
- GHS-H sentences: H302 - H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2925 19 95 99
- Applications: for bromination, oxidizing agent.

assay (iodometric)min. 99 %

Art. No.	Volume	Container
BR01200250	250 g	0

Bromothymol blue

AZ0130 Bromothymol blue, indicator, ACS



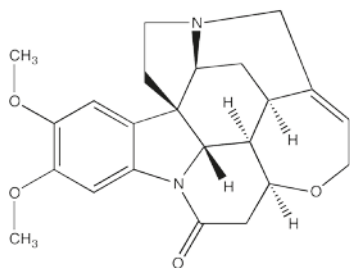
- Synonyms: 3',3''-Dibromothymol-sulfonphthalein, BTB
- $C_{27}H_{28}Br_2O_5S$
- $M = 624,40$ g/mol
- CAS [76-59-5]
- EINECS-No.: 200-971-2
- Solub. in water: (20 °C): insoluble
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator.

pH range (yellow to blue)5,8 - 7,6

Art. No.	Volume	Container
AZ01300005	5 g	0
AZ01300025	25 g	0

Brucine

BR0269 Brucine, synthesis grade



- Synonyms: 2,3-Dimethoxystrychnine
- $C_{26}H_{26}N_2O_4$
- $M = 394,45$ g/mol
- CAS [357-57-3]
- EINECS-No.: 206-614-7
- Solub. in water: (20 °C): slightly soluble
- Melting point: 176 - 180 °C
- LD 50 (oral, rat): 150 mg/kg
- EC-Index-No.: 614-006-00-1
- ADR: 6.1 T2 | UN 1570
- IMDG: 6.1 | UN 1570
- IATA/ICAO: 6.1 | UN 1570
- GHS-signal word: Danger

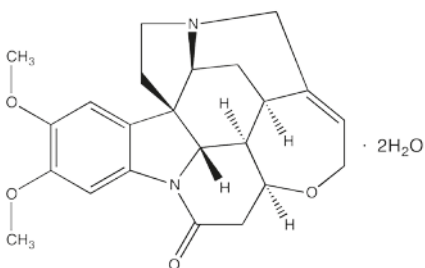
- GHS-H sentences: H300 - H330 - H412
- GHS-P sentences: P260 - P301 + P310 - P310 - P320 - P405 - P501a
- Tariff number: 2939 99 00 00
- Applications: synthesis of organic products, analytical chemistry, denaturing alcohols and oils.
- Appearance: White solid

assay (DSC, on dried sample) min. 98,5 %

Art. No.	Volume	Container
BR02690010	10 g	0

Brucine dihydrate

BR0270 Brucine dihydrate, reagent grade



- Synonyms: 2,3-Dimethoxystrychnine dihydrate
- $C_{26}H_{26}N_2O_4 \cdot 2H_2O$
- $M = 430,50$ g/mol
- CAS [145428-94-0]
- EINECS-No.: 206-614-7
- Solub. in water: (20 °C): slightly soluble
- EC-Index-No.: 614-006-00-1
- ADR: 6.1 T2 | UN 1570
- IMDG: 6.1 | UN 1570
- IATA/ICAO: 6.1 | UN 1570
- GHS-signal word: Danger
- GHS-H sentences: H300 - H330 - H412

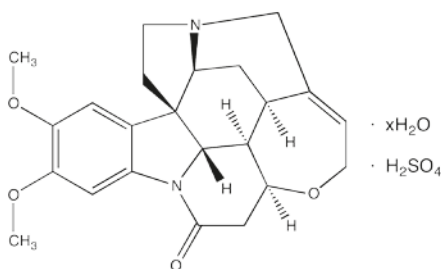
- GHS-P sentences: P260 - P301 + P310 - P310 - P320 - P405 - P501a
- Tariff number: 2939 99 00 00
- Applications: synthesis of organic products, analytical chemistry, denaturing alcohols and oils.

assay (titration with $HClO_4$) min. 99 %

Art. No.	Volume	Container
BR02700005	5 g	0

Brucine sulfate hydrate

BR0275 Brucine sulfate hydrate, reagent grade



- Synonyms: 2,3-Dimethoxystrychnine sulfate salt
- $C_{26}H_{26}N_2O_6 \cdot H_2SO_4 \cdot xH_2O$
- $M = 887,03$ g/mol
- CAS [652154-10-4]
- EINECS-No.: 225-432-9
- Melting point: 180 °C
- EC-Index-No.: 614-007-00-7 [1]
- ADR: 6.1 T2 | UN 2811
- IMDG: 6.1 | UN 2811
- IATA/ICAO: 6.1 | UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H300 - H330 - H412

- GHS-P sentences: P260 - P301 + P310 - P310 - P320 - P405 - P501a
- Tariff number: 2939 99 00 00
- Applications: analytical chemistry, for pharmaceuticals synthesizing, for denaturing ethanol.

assay (titration with $HClO_4$) min. 98 %

Art. No.	Volume	Container
BR02750025	25 g	0

Buffer solutions

SO1013 Buffer solution for complexometry, pH = 10 (ammonium chloride/ammonia)



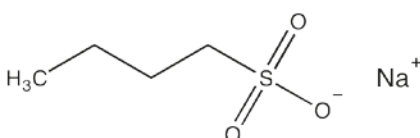
- Density: 0,96 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: 80 - 100 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: in buffer solutions.

Art. No.	Volume	Container
SO1013G100	100 ml	0
SO1013O250	250 ml	0
SO1013I000	1 l	0

1-Butane sulfonic acid, sodium salt

AC0601 1-Butane sulfonic acid, sodium salt, HPLC grade



- Synonyms: Sodium 1-butylsulfonate
- $C_4H_9NaO_3S$
- $M = 160,17$ g/mol
- CAS [2386-54-1]
- EINECS-No.: 219-201-1
- Solub. in water: (20 °C): soluble
- Melting point: > 310 °C
- Tariff number: 2904 10 00 90
- Applications: chromatography, synthesis of organic products.

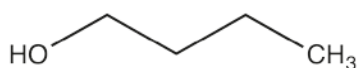
assay (acidimetric) min. 99 %
 max. absorbance of an aqueous sol.
 wavelength: absorbance:
 210 nm. 0,1 AU
 220 nm. 0,06 AU
 230 nm. 0,04 AU
 260 nm. 0,02 AU

Art. No.	Volume	Container
AC06010025	25 g	0
AC06010100	100 g	0



Butano

1-Butanol



- Synonyms: n-Butyl alcohol, Propylcarbinol
- $C_4H_{10}O$
- $M = 74,12 \text{ g/mol}$
- CAS [71-36-3]
- EINECS-No.: 200-751-6
- Density: $0,81 \text{ g/cm}^3$
- Solub. in water: (20 °C): 79 g/l
- Melting point: $-89,5 \text{ °C}$
- Boiling point: 118 °C
- Flash pt. 34 °C
- Ignition temp.: 340 °C
- Vapour pressure: (20 °C) $6,7 \text{ hPa}$
- Refraction index: (n 20 °C/D) $1,3993$
- Dielectric const.: (20 °C) $17,8$

- LD 50 (oral, rat): 790 mg/kg
- EC-Index-No.: 603-004-00-6 [1]
- ADR: 3 F1 III UN 1120
- IMDG: 3 III UN 1120
- IATA/ICAO: 3 III UN 1120
- GHS-signal word: Danger
- GHS-H sentences: H318 - H226 - H302 - H335 - H336 - H315
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2905 13 00 00
- Applications: solvents, synthesis of organic products, microscopy.

AL0170 1-Butanol, extra pure, Pharmapur®, NF

assay (G.C.) min. 99,5 %
residue on evaporation max. 0,004 %
water (K.F.) max. 0,1 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AL01701000	1 l	Ø
AL01702500	2,5 l	Ø
AL0170005P	5 l	Ø

Art. No.	Volume	Container
AL0170025A	25 l	Ø
AL0170025P	25 l	Ø

AL0173 1-Butanol, reagent grade, ACS, ISO, Reag. Ph Eur

assay (G.C.) min. 99,5 %
residue on evaporation max. 0,001 %
water (K.F.) max. 0,1 %

Art. No.	Volume	Container
AL01731000	1 l	Ø
AL01732500	2,5 l	Ø
AL0173005P	5 l	Ø

Art. No.	Volume	Container
AL0173025A	25 l	Ø
AL0173200L	200 l	Ø

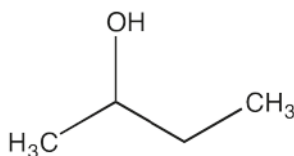
AL0175 1-Butanol, HPLC grade

assay (G.C.) min. 99,8 %
residue on evaporation max. 0,0002 %
water (K.F.) max. 0,1 %

min. transmission/max. absorbance
wavelength: T(%) A (AU)
210 nm. 20 % 0,699 AU
220 nm. 50 % 0,301 AU
245 nm. 90 % 0,046 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AL01751000	1 l	Ø
AL01752500	2,5 l	Ø

2-Butanol



- Synonyms: sec-Butyl alcohol, Butyl alcohol secondary, Ethyl methyl carbinol
- $C_4H_{10}O$
- $M = 74,12 \text{ g/mol}$
- CAS [78-92-2]
- EINECS-No.: 201-158-5
- Density: $0,81 \text{ g/cm}^3$
- Solub. in water: (20 °C): $240 - 250 \text{ g/l}$
- Melting point: -114 °C
- Boiling point: $98,5 - 100,5 \text{ °C}$
- Flash pt. 24 °C
- Ignition temp.: 390 °C
- Vapour pressure: (20 °C) $16,5 \text{ hPa}$

- Dielectric const.: (20 °C) $15,8$
- LD 50 (oral, rat): 6480 mg/kg
- EC-Index-No.: 603-004-01-3 [1]
- ADR: 3 F1 II UN 1120
- IMDG: 3 II UN 1120
- IATA/ICAO: 3 II UN 1120
- GHS-signal word: Warning
- GHS-H sentences: H226 - H319 - H335 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2905 14 90 00
- Applications: analytical chemistry, synthesis of organic products and perfumery.

AL0176 2-Butanol, synthesis grade

assay (G.C.) min. 99 %

Art. No.	Volume	Container
AL01761000	1 l	Ø
AL01762500	2,5 l	Ø

Art. No.	Volume	Container
AL0176005P	5 l	Ø
AL0176025P	25 l	Ø

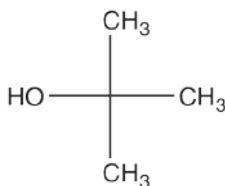
AL0177 2-Butanol, reagent grade

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
AL01771000	1 l	Ø

Art. No.	Volume	Container
AL01772500	2,5 l	Ø

tert-Butanol



- Synonyms: 2-Methyl-2-propanol, Trimethylcarbinol, tert-Butyl alcohol
- $(\text{C}_4\text{H}_9\text{COH})$
- M = 74,12 g/mol
- CAS [75-65-0]
- EINECS-No.: 200-889-7
- Density: 0,78 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 25,3 °C
- Boiling point: 82 - 83 °C
- Flash pt. 14 °C
- Ignition temp.: 490 °C
- Vapour pressure: (20 °C) 40,7 hPa
- Dielectric const.: (30 °C) 10,9
- LD 50 (oral, rat): 2733 mg/kg
- EC-Index-No.: 603-005-00-1
- ADR: 3 F1 II UN 1120
- IMDG: 3 II UN 1120
- IATA/ICAO: 3 II UN 1120
- GHS-signal word: Danger
- GHS-H sentences: H225 - H332 - H319 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2905 14 10 00
- Applications: solvents, perfumery, as gasoline additive.

AL0180 tert-Butanol, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL01801000	1l	0	AL0180025P	25l	0
AL0180005P	5l	0			

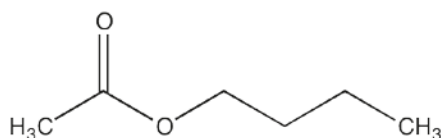
AL0183 tert-Butanol, reagent grade, ACS



assay (G.C.)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL01831000	1l	0	AL0183005P	5l	0
AL01832500	2,5l	0	AL0183025P	25l	0

n-Butyl acetate



- Synonyms: Acetic acid n-butyl ester
- $\text{C}_6\text{H}_{12}\text{O}_2$
- M = 116,16 g/mol
- CAS [123-86-4]
- EINECS-No.: 204-658-1
- Density: 0,88 g/cm³
- Solub. in water: (20 °C): 7 g/l
- Melting point: -77 °C
- Boiling point: 127 °C
- Flash pt. 22 °C
- Ignition temp.: 370 °C
- Vapour pressure: (20 °C) ~ 13 hPa
- Refraction index: (n 20 °C/D) 1,3941
- Dielectric const.: (20 °C) 5,0
- LD 50 (oral, rat): 13100 mg/kg
- EC-Index-No.: 607-025-00-1
- ADR: 3 F1 III UN 1123
- IMDG: 3 III UN 1123
- IATA/ICAO: 3 III UN 1123
- GHS-signal word: Warning
- GHS-H sentences: H226 - H336 - EUH066
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2915 33 00 00
- Applications: analytical chemistry, laboratory reagent, manufacturing of lacquers, in the textile industry, photography, plasticizer, manufacture of glass.

AC0090 n-Butyl acetate, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC00901000	1l	0	AC0090005P	5l	0
AC00902500	2,5l	0			

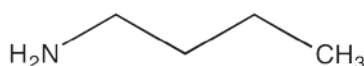
AC0093 n-Butyl acetate, reagent grade, ACS



assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC00931000	1l	0	AC00932500	2,5l	0

n-Butylamine



- Synonyms: 1-Aminobutane
- $\text{C}_4\text{H}_{11}\text{N}$
- M = 73,14 g/mol
- CAS [109-73-9]
- EINECS-No.: 203-699-2
- Density: 0,74 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -50 °C
- Boiling point: 76 - 78 °C
- Flash pt. -12 °C
- Ignition temp.: 290 °C
- Vapour pressure: (20 °C) 93 hPa
- Refraction index: (n 20 °C/D) 1,4015
- LD 50 (oral, rat): 366 mg/kg
- EC-Index-No.: 612-005-00-0
- ADR: 3 FC II UN 1125
- IMDG: 3 II UN 1125
- IATA/ICAO: 3 II UN 1125
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - H302 - H312 - H332
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 19 80 90
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, manufacture of dyes, in the rubber industry, emulsifier, insecticide, cosmetics.

BU0020 n-Butylamine, synthesis grade



assay (G.C.)min. 99 %

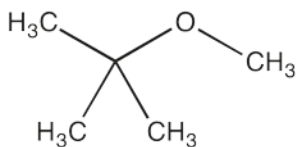
Art. No.	Volume	Container	Art. No.	Volume	Container
BU00201000	1l	0	BU0020025A	25l	0
BU00202500	2,5l	0			

BU0022 n-Butylamine, reagent grade

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
BU00221000	1 l	0

tert-Butyl methyl ether



- Synonyms: Methyl tert-butyl ether, MTBE
- C₅H₁₂O
- M = 88,15 g/mol
- CAS [1634-04-4]
- EINECS-No.: 216-653-1
- Density: 0,74 g/cm³
- Solub. in water: (10 °C): ~ 26 g/l
- Melting point: -108,6 °C
- Boiling point: 55 °C
- Flash pt. -28 °C
- Ignition temp.: 460 °C
- Vapour pressure: (20 °C) 268 hPa
- Refraction index: (25 °C) 1,3664
- LD 50 (oral, rat): 3870 mg/kg
- ADR: 3 F1 II UN 2398
- IMDG: 3 II UN 2398
- IATA/ICAO: 3 II UN 2398
- GHS-signal word: Danger
- GHS-H sentences: H225 - H315
- GHS-P sentences: P210 - P241 - P280 - P303 + P361 + P353 - P321 - P501a
- Tariff number: 2909 19 90 00
- Applications: analytical chemistry, laboratory reagent, chromatography, solvents, as gasoline additive.
- Appearance: Colourless clear liquid

ME0550 tert-Butyl methyl ether, extra pure

assay (G.C.) min. 99,5 %
residue on evaporation max. 0,005 %
water (K.F.) max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME05501000	1 l	0	ME0550025A	25 l	0
ME05502500	2,5 l	0	ME0550200L	200 l	0

ME0551 tert-Butyl methyl ether, reagent grade, Reag. Ph Eur

assay (G.C.) min. 99,5 %
residue on evaporation max. 0,001 %
water (K.F.) max. 0,03 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME05511000	1 l	0	ME0551007E	7 l	0
ME05512500	2,5 l	0	ME0551025S	25 l	0

ME0552 tert-Butyl methyl ether, HPLC grade

assay (G.C.) min. 99,8 %
residue on evaporation max. 0,0002 %
water (K.F.) max. 0,02 %

min. transmission/max. absorbance
wavelength: T(%) A (AU)
240 nm. 50 % 0,301 AU
255 nm. 80 % 0,097 AU
280 nm. 98 % 0,009 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
ME05521000	1 l	0
ME05522500	2,5 l	0
ME05524000	4 l	0

ME0553 tert-Butyl methyl ether, for GC residue analysis

assay (G.C.) min. 99,8 %
residue on evaporation max. 0,0001 %
water (K.F.) max. 0,02 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container
ME05531000	1 l	0
ME05532500	2,5 l	0

ME0555 tert-Butyl methyl ether, 99,5%, anhydrous (max. 0,005% H₂O)

assay (G.C.) min. 99,5 %
water (K.F.) max. 0,005 %

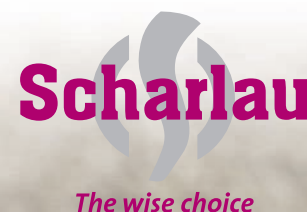
Art. No.	Volume	Container
ME05550100	100 ml	0

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Ultrapure acids for inorganic trace analysis

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- Analytical results for more than 60 methods
- Tested by ICP-OES and ICP-MS
- PE and PTFE containers for optimum product preservation



Cadmium

CA0080 Cadmium, metal, extra pure, Reag. Ph Eur



- Cd
- M = 112,40 g/mol
- CAS [7440-43-9]
- EINECS-No.: 231-152-8
- Solub. in water: (20 °C): insoluble
- Melting point: 321 °C
- Boiling point: 767 °C
- Vapour pressure: (394 °C) 1,3 hPa
- LD 50 (oral, rat): 225 mg/kg

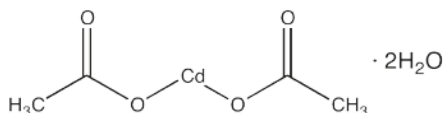
- EC-Index-No.: 048-002-00-0 [1]
- ADR: 6.1 T5 I UN 3288
- IMDG: 6.1 I UN 3288
- IATA/ICAO: 6.1 I UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H330 - H350 - H372 - H341 - H361fd - H410
- GHS-P sentences: P260 - P284 - P310 - P320 - P405 - P501a

- Tariff number: 8107 20 00 00
- Applications: analytical chemistry, laboratory reagent, electrolyte for batteries.

assay (complexometric)min. 99 %

Art. No.	Volume	Container
CA00800250	250 g	⊘

Cadmium acetate dihydrate



- Synonyms: Acetic acid cadmium salt
- $\text{Cd}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$
- M = 266,52 g/mol
- CAS [5743-04-4]
- EINECS-No.: 208-853-2
- Solub. in water: (20 °C): freely soluble
- Melting point: 256 °C (anhydrous substance)
- EC-Index-No.: 048-001-00-5
- ADR: 6.1 T5 III UN 2570
- IMDG: 6.1 III UN 2570

- IATA/ICAO: 6.1 III UN 2570
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, laboratory reagent, for the detection of: sulfur, selenium, tellurium.
- Appearance: White solid

CA0048 Cadmium acetate dihydrate, extra pure



assay (complexometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CA00480250	250 g	⊘	CA0048025P	25 kg	⊞
CA0048005P	5 kg	⊞			

CA0050 Cadmium acetate dihydrate, reagent grade



assay (complexometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CA00500100	100 g	⊘	CA0050005P	5 kg	⊞
CA00500250	250 g	⊘	CA0050025P	25 kg	⊞
CA00501000	1 kg	⊘			

Cadmium chloride 2,5-hydrate

CA0060 Cadmium chloride 2,5-hydrate, extra pure



- $\text{CdCl}_2 \cdot 2,5\text{H}_2\text{O}$
- M = 228,34 g/mol
- CAS [7790-78-5]
- EINECS-No.: 233-296-7
- Solub. in water: (25 °C): freely soluble
- LD 50 (oral, rat): 665 mg/kg
- EC-Index-No.: 048-008-00-5
- ADR: 6.1 T5 II UN 2570
- IMDG: 6.1 II UN 2570
- IATA/ICAO: 6.1 II UN 2570

- GHS-signal word: Danger
- GHS-H sentences: H301 - H330 - H340 - H350 - H360 - H372 - H410
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 - P405 - P501a
- Tariff number: 2827 39 80 90
- Applications: analytical chemistry, laboratory reagent, electrolyte for batteries, metal alloys, in solders (aluminium), in galvanotechnia.
- Appearance: White chunks

assay (complexometric)98 - 102 %

Art. No.	Volume	Container
CA00600250	250 g	⊘
CA00601000	1 kg	⊘

Cadmium hydroxide

CA0075 Cadmium hydroxide, extra pure



- $\text{Cd}(\text{OH})_2$
- M = 146,42 g/mol
- CAS [21041-95-2]
- EINECS-No.: 244-168-5
- EC-Index-No.: 048-001-00-5
- ADR: 6.1 T5 III UN 2570
- IMDG: 6.1 III UN 2570
- IATA/ICAO: 6.1 III UN 2570

- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2825 90 80 00
- Applications: electrolyte for batteries, laboratory reagent.

assay (complexometric)min. 98 %

Art. No.	Volume	Container
CA0075005P	5 kg	⊞

Cadmium iodide

CA0135 Cadmium iodide, extra pure



- CdI_2
- M = 366,21 g/mol
- CAS [7790-80-9]
- EINECS-No.: 232-223-6
- Solub. in water: (20 °C): 798 g/l
- Melting point: 388 °C
- Boiling point: 787 °C
- LD 50 (oral, rat): 222 mg/kg
- EC-Index-No.: 048-007-00-8
- ADR: 6.1 T5 III UN 2570
- IMDG: 6.1 III UN 2570

- IATA/ICAO: 6.1 III UN 2570
- GHS-signal word: Danger
- GHS-H sentences: H301 - H331 - H351 - H373 - H410
- GHS-P sentences: P260 - P261 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2827 60 00 90
- Applications: analytical chemistry, photography, in galvanotechnia, insecticide, in lubricant compositions.
- Appearance: White to pale yellow flakes

assay (complexometric)min. 99 %

Art. No.	Volume	Container
CA01350100	100 g	⊘
CA01350250	250 g	⊘
CA01351000	1 kg	⊘

Cadmium

Cadmium nitrate tetrahydrate

- Synonyms: Nitric acid cadmium salt tetrahydrate
- $\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$
- $M = 308,47 \text{ g/mol}$
- CAS [10022-68-1]
- EINECS-No.: 233-710-6
- Solub. in water: (20 °C): soluble
- Melting point: 59 °C

- LD 50 (oral, rat): 300 mg/kg
- EC-Index-No.: 048-001-00-5
- ADR: 6.1 T5 III UN 2570
- IMDG: 6.1 III UN 2570
- IATA/ICAO: 6.1 III UN 2570
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H312 - H332

- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent, photography, for the synthesis of: cadmium salts.
- Appearance: White crystals

CA0097 Cadmium nitrate tetrahydrate, extra pure

assay (complexometric) min. 99 %

Art. No.	Volume	Container
CA00970250	250 g	⊘
CA00971000	1 kg	⊘

Art. No.	Volume	Container
CA0097005P	5 kg	⊘

CA0100 Cadmium nitrate tetrahydrate, reagent grade

assay (complexometric) min. 99 %

Art. No.	Volume	Container
CA01000250	250 g	⊘
CA01001000	1 kg	⊘

Art. No.	Volume	Container
CA0100005P	5 kg	⊘

Cadmium oxide

CA0110 Cadmium oxide, extra pure

- CdO
- $M = 128,40 \text{ g/mol}$
- CAS [1306-19-0]
- EINECS-No.: 215-146-2
- Solub. in water: (20 °C): insoluble
- Melting point: < 1426 °C
- Boiling point: 1559 °C
- LD 50 (oral, rat): 72 mg/kg
- EC-Index-No.: 048-002-00-0

- ADR: 6.1 T5 III UN 2570
- IMDG: 6.1 III UN 2570
- IATA/ICAO: 6.1 III UN 2570
- GHS-signal word: Danger
- GHS-H sentences: H330 - H350 - H372 - H341 - H361fd - H410
- GHS-P sentences: P260 - P284 - P310 - P320 - P405 - P501a
- Tariff number: 2825 90 60 00

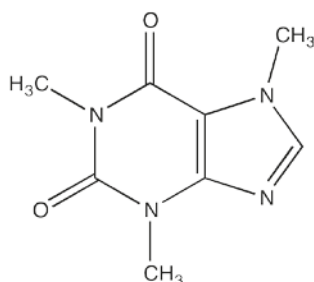
- Applications: synthesis of organic products, electrolyte for batteries, laboratory reagent.
- Appearance: Reddish-brown solid

assay (complexometric) min. 99 %

Art. No.	Volume	Container
CA01100250	250 g	⊘

Caffeine anhydrous

CA0150 Caffeine anhydrous, extra pure, Pharmapur®, Ph Eur, BP, USP



- Synonyms: 7-Methyltheobromine, 1,3,7-Trimethylxanthine, 3,7-Dihydro-1,3,7-trimethyl-1H-purine-2,6-dione
- $\text{C}_8\text{H}_{10}\text{N}_4\text{O}_2$
- $M = 194,19 \text{ g/mol}$
- CAS [58-08-2]
- EINECS-No.: 200-362-1
- Solub. in water: (20 °C): 20 g/l
- Melting point: 235 - 238 °C
- Ignition temp.: > 600 °C
- LD 50 (oral, rat): 261 - 383 mg/kg
- EC-Index-No.: 613-086-00-5
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a

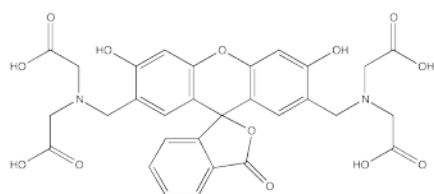
- Tariff number: 2939 30 00 00
- Applications: analytical chemistry, for pharmaceuticals synthesizing, in food industry, in pharma industry.

assay (titration with HClO_4 , on dried sample). 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CA01501000	1 kg	⊘
CA0150005P	5 kg	⊘
CA0150025P	25 kg	⊘

Calcein

CA0165 Calcein, indicator for metal titration



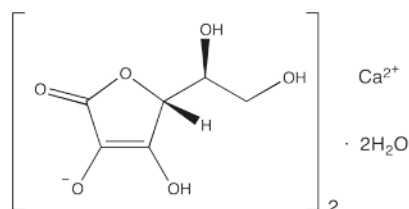
- Synonyms: 2,7-Bis[bis(carboxymethyl)aminomethyl]fluorescein, Fluorescein complexon, Fluorexon
- $\text{C}_{30}\text{H}_{26}\text{N}_2\text{O}_{13}$
- $M = 622,55 \text{ g/mol}$
- CAS [1461-15-0]
- EINECS-No.: 215-957-1
- Solub. in water: (20 °C): sparingly soluble
- Tariff number: 3204 19 00 90

- Applications: analytical chemistry, indicator, for determination of: calcium.

Art. No.	Volume	Container
CA01650001	1 g	⊘
CA01650005	5 g	⊘

Calcium L(+)-ascorbate

CA0180 Calcium L(+)-ascorbate, extra pure, Pharmapur®, USP



- Synonyms: L-(+)-Ascorbic acid calcium salt
- $\text{C}_{12}\text{H}_{14}\text{CaO}_{12} \cdot 2\text{H}_2\text{O}$
- $M = 426,35 \text{ g/mol}$
- CAS [5743-28-2]
- EINECS-No.: 227-261-5
- Solub. in water: (20 °C): soluble
- Tariff number: 2936 27 00 00
- Applications: antioxidant (in food industry), in the pharmaceuticals industry, in pharma industry.

assay (iodometric) 98 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CA01801000	1 kg	⊘

Calcium carbonate, precipitated

- Synonyms: Lime, Chalk, Marble
- CaCO_3
- $M = 100,09 \text{ g/mol}$
- CAS [471-34-1]
- EINECS-No.: 207-439-9
- Solub. in water: (20 °C): 14 mg/l
- Melting point: 825 °C (decomposes)
- LD 50 (oral, rat): 6450 mg/kg
- Tariff number: 2836 50 00 00
- Applications: painting, in the rubber industry, plasticizer, dentifrices, in porcelain industry, insecticide, in food industry, cosmetics, for pharmaceuticals synthesizing.

CA0182 Calcium carbonate, precipitated, extra pure, Pharpur®, Ph Eur, BP, USP

assay (complexometric, on dried sample)	Art. No.	Volume	Container	Art. No.	Volume	Container
. 98,5 - 100,5 %	CA01820500	500 g	Ⓟ	CA0182005P	5 kg	Ⓟ
Residual solvents are analysed according to guideline CPMP/ICH/283/95.	CA01821000	1 kg	Ⓟ	CA0182025P	25 kg	Ⓟ

CA0187 Calcium carbonate, precipitated, powder, Pharpur®, Ph Eur, GMP, suitable for use as excipient

assay (complexometric, on dried sample)	Art. No.	Volume	Container	Art. No.	Volume	Container
. 98,5 - 100,5 %	CA01871000	1 kg	Ⓟ	CA0187025P	25 kg	Ⓟ
Residual solvents are analysed according to guideline CPMP/ICH/283/95.	CA0187005P	5 kg	Ⓟ			

CA0184 Calcium carbonate, precipitated, reagent grade, Reag. Ph Eur

assay (complexometric, on dried sample)	Art. No.	Volume	Container	Art. No.	Volume	Container
. min. 99 %	CA01840500	500 g	Ⓟ	CA01841000	1 kg	Ⓟ

CA0185 Calcium carbonate, secondary standard for volumetric titrations, Titasure®

assay (on dried sample)	Art. No.	Volume	Container
. 99,5 - 100,1 %	CA01850060	60 g	Ⓟ

Calcium chloride anhydrous

- Synonyms: Chloro calcium
- CaCl_2
- $M = 110,99 \text{ g/mol}$
- CAS [10043-52-4]
- EINECS-No.: 233-140-8
- Solub. in water: (20 °C): 740 g/l
- Melting point: 772 °C
- Boiling point: > 1600 °C
- LD 50 (oral, rat): 1000 mg/kg
- EC-Index-No.: 017-013-00-2
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2827 20 00 00
- Applications: analytical chemistry, laboratory reagent, desiccant.

CA0190 Calcium chloride anhydrous, granulated, extra pure

assay (argentometric)	Art. No.	Volume	Container	Art. No.	Volume	Container
. 99 - 107%	CA01900500	500 g	Ⓟ	CA0190005P	5 kg	Ⓟ
	CA01901000	1 kg	Ⓟ			

CA0197 Calcium chloride anhydrous, powder, extra pure

assay (argentometric)	Art. No.	Volume	Container	Art. No.	Volume	Container
. min. 95 %	CA01970500	500 g	Ⓟ	CA0197005P	5 kg	Ⓟ
	CA01971000	1 kg	Ⓟ	CA0197025P	25 kg	Ⓟ

CA0192 Calcium chloride anhydrous, powder, reagent grade

assay (argentometric)	Art. No.	Volume	Container	Art. No.	Volume	Container
. min. 96 %	CA01920500	500 g	Ⓟ	CA0192005P	5 kg	Ⓟ
acidity (as HCl) max. 0,005 %	CA01921000	1 kg	Ⓟ	CA0192025P	25 kg	Ⓟ
alkalinity (as $\text{Ca}(\text{OH})_2$) max. 0,5 %						

Calcium chloride dihydrate

- $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
- $M = 147,02 \text{ g/mol}$
- CAS [10035-04-8]
- EINECS-No.: 233-140-8
- Melting point: ~ 176 °C
- LD 50 (oral, rat): 1000 mg/kg (anhydrous substance)
- EC-Index-No.: 017-013-00-2
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2827 20 00 00
- Applications: analytical chemistry, for pharmaceuticals synthesizing, in food industry, laboratory reagent, in pharma industry.

CA0193 Calcium chloride dihydrate, powder, extra pure, Pharpur®, Ph Eur, BP, USP

assay (complexometric)	Art. No.	Volume	Container	Art. No.	Volume	Container
. 99 - 103 %	CA01930500	500 g	Ⓟ	CA0193005P	5 kg	Ⓟ
residual solvents (Ph Eur/ICH). excluded by production process	CA01931000	1 kg	Ⓟ	CA0193025P	25 kg	Ⓟ

CA0199 Calcium chloride dihydrate, sheets, extra pure

assay (as CaCl_2 , complexometric)	Art. No.	Volume	Container	Art. No.	Volume	Container
. min. 77 %	CA01991000	1 kg	Ⓟ	CA0199005P	5 kg	Ⓟ

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Calciu

CA0194 Calcium chloride dihydrate, powder, reagent grade, ACS

assay (complexometric) 99 - 105 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CA01940500	500 g	⊕	CA0194005P	5 kg	⊕
CA01941000	1 kg	⊕			

CA0198 Calcium chloride dihydrate, molecular biology grade

assay (complexometric) min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
CA01980250	250 g	⊕	CA0198025P	25 kg	⊕
CA01981000	1 kg	⊕			

Calcium chloride, volumetric solutions

CA0195 Calcium chloride, solution 1 mol/l

- CaCl₂
- M = 110,99 g/mol
- CAS [10043-52-4]
- EINECS-No.: 233-140-8
- Density: 1,08 g/cm³
- LD 50 (oral, rat): 1000 mg/kg (pure substance)

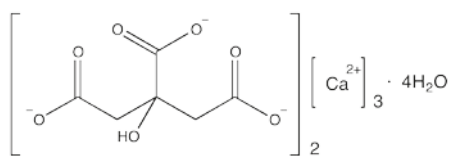
- EC-Index-No.: 017-013-00-2
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2827 20 00 00

- Applications: analytical chemistry, in food industry, in antifreeze compositions.

Art. No.	Volume	Container
CA01951000	1 l	⊕

tri-Calcium dicitrate tetrahydrate, powder

CA0203 tri-Calcium dicitrate tetrahydrate, powder, extra pure, Pharmapur®, USP



- Synonyms: Calcium citrate, 2-Hydroxy-1,2,3-propanetricarboxylic acid calcium salt (2:3)
- C₁₂H₁₀Ca₃O₁₄·4H₂O
- M = 570,51 g/mol
- CAS [5785-44-4]
- EINECS-No.: 212-391-7
- Solub. in water: (20 °C): ~ 1 g/l
- Applications: pharmaceutical and food industries, in pharma industry.
- Tariff number: 2918 15 00 90

assay (complexometric, on dried sample) 97,5 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CA02031000	1 kg	⊕
CA0203025P	25 kg	⊕

Calcium bis-(dihydrogen phosphate) monohydrate

CA0211 Calcium bis-(dihydrogen phosphate) monohydrate, extra pure

- Synonyms: Calcium biphosphate
- Ca(H₂PO₄)₂·H₂O
- M = 252,07 g/mol
- CAS [7758-23-8]
- EINECS-No.: 231-837-1
- Solub. in water: (20 °C): insoluble
- Melting point: 109 °C

- Tariff number: 2835 26 10 00
- Applications: analytical chemistry, in fertilizer compositions, in food industry, in the production of enamels.

assay (complexometric) min. 98 %

Art. No.	Volume	Container
CA02110500	500 g	⊕
CA02111000	1 kg	⊕
CA0211005P	5 kg	⊕
CA0211025P	25 kg	⊕

Calcium hydrogen phosphate dihydrate

CA0210 Calcium hydrogen phosphate dihydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

- Synonyms: Calcium phosphate dibasic
- CaHPO₄·2H₂O
- M = 172,10 g/mol
- CAS [7789-77-7]
- EINECS-No.: 231-826-1
- Solub. in water: (25 °C): 0,2 g/l
- Tariff number: 2835 25 10 00

- Applications: analytical chemistry, in food industry, manufacture of glass, for dentistry, in pharma industry.

assay (complexometric) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CA02100500	500 g	⊕
CA02101000	1 kg	⊕
CA0210005P	5 kg	⊕
CA0210025P	25 kg	⊕

Calcium hydroxide, 90%

- Ca(OH)₂
- M = 74,09 g/mol
- CAS [1305-62-0]
- EINECS-No.: 215-137-3

- GHS-signal word: Danger
- GHS-H sentences: H318
- GHS-P sentences: P280 - P305 + P351 + P338 - P310

- Tariff number: 2825 90 19 00
- Applications: in building materials, in lubricant compositions, painting, laboratory reagent.

CA0215 Calcium hydroxide, 90%, synthesis grade

assay (acidimetric) approx. 90 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CA02150250	250 g	⊕	CA02151000	1 kg	⊕
CA02150500	500 g	⊕			

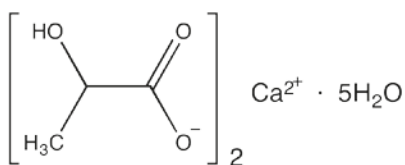
CA0216 Calcium hydroxide, powder, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (acidimetric) 95 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CA02160500	500 g	⊕	CA0216005P	5 kg	⊕
CA02161000	1 kg	⊕	CA0216025P	25 kg	⊕

Calcium lactate pentahydrate

CA0225 Calcium lactate pentahydrate, extra pure, Pharmapur®, Ph Eur, BP, USP



- Synonyms: Lactic acid calcium salt pentahydrate
- $C_6H_{10}CaO_5 \cdot 5H_2O$
- M = 308,30 g/mol
- CAS [28305-25-1]
- EINECS-No.: 248-953-3
- Solub. in water: (20 °C): 66 g/l
- Melting point: 240 °C
- Tariff number: 2918 11 00 00
- Applications: in food industry (preservative agent), dentifrices, in pharma industry.

assay (complexometric, on dried sample) . . . 98 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CA02250500	500 g	Ⓟ
CA02251000	1 kg	Ⓟ
CA0225005P	5 kg	Ⓟ

Calcium nitrate tetrahydrate

- Synonyms: Nitric acid calcium salt tetrahydrate
- $Ca(NO_3)_2 \cdot 4H_2O$
- M = 236,15 g/mol
- CAS [13477-34-4]
- EINECS-No.: 233-332-1
- Solub. in water: (20 °C): soluble
- Melting point: 42 °C

- LD 50 (oral, rat): 3900 mg/kg
- ADR: 5.1 Q2 III UN 1454
- IMDG: 5.1 III UN 1454
- IATA/ICAO: 5.1 III UN 1454
- GHS-signal word: Warning
- GHS-H sentences: H272

- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, in pyrotechnics, in the electronic industry, in fertilizer compositions.
- Appearance: White crystals

CA0230 Calcium nitrate tetrahydrate, extra pure

assay (complexometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CA02300500	500 g	Ⓟ	CA0230005P	5 kg	Ⓟ
CA02301000	1 kg	Ⓟ	CA0230025P	25 kg	Ⓟ

CA0231 Calcium nitrate tetrahydrate, reagent grade, ACS

assay (complexometric)99 - 103 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CA02310500	500 g	Ⓟ	CA0231005P	5 kg	Ⓟ
CA02311000	1 kg	Ⓟ	CA0231025P	25 kg	Ⓟ

Calcium oxide

CA0260 Calcium oxide, natural, blocks

- Synonyms: Lime, caustic; Quicklime
- CaO
- M = 56,08 g/mol
- CAS [1305-78-8]
- EINECS-No.: 215-138-9
- Solub. in water: (20 °C): 1,65 g/l (exothermic reaction)
- Melting point: 2580 °C
- Boiling point: 2850 °C

- IATA/ICAO: 8 III
- GHS-signal word: Danger
- GHS-H sentences: H318
- GHS-P sentences: P280 - P305 + P351 + P338 - P310
- Tariff number: 2825 90 19 00
- Applications: analytical chemistry, for pharmaceuticals synthesizing, absorbent for: water and carbon dioxide, laboratory reagent.

Art. No.	Volume	Container
CA02600500	500 g	Ⓟ
CA02601000	1 kg	Ⓟ
CA0260005P	5 kg	Ⓟ
CA0260025P	25 kg	Ⓟ

tri-Calcium phosphate

CA0205 tri-Calcium phosphate anhydrous, extra pure, Pharmapur®, Ph Eur, BP

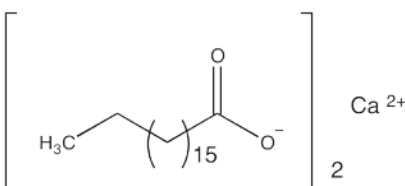
- Synonyms: Calcium phosphate tribasic, Tricalcium orthophosphate
- $Ca_3(PO_4)_2$
- M = 310,18 g/mol
- CAS [7758-87-4]
- EINECS-No.: 231-840-8
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 1730 °C

- Tariff number: 2835 26 10 00
 - Applications: in food industry (E-341), emulsifier, in the pharmaceuticals industry, in pharma industry.
- assay (complexometric, as Ca)35 - 40 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CA02050500	500 g	Ⓟ
CA02051000	1 kg	Ⓟ
CA0205005P	5 kg	Ⓟ
CA0205025P	25 kg	Ⓟ

Calcium stearate

CA0200 Calcium stearate, extra pure



- Synonyms: Stearic acid calcium salt
- $C_{36}H_{70}CaO_4$
- M = 607,04 g/mol
- CAS [1592-23-0]
- EINECS-No.: 216-472-8
- Solub. in water: (20 °C): 2,2 mg/l
- Melting point: 147 - 149 °C
- Ignition temp.: 460 °C
- LD 50 (oral, rat): > 10000 mg/kg
- Tariff number: 2915 70 30 00
- Applications: in building materials, in explosive compositions, plasticizer, in lubricant compositions, in food industry, for pharmaceuticals synthesizing.

assay (complexometric, as Ca)6,4 - 7,4 %
assay (complexometric, as CaO)9,0 - 10,5 %

Art. No.	Volume	Container
CA02000500	500 g	Ⓟ
CA02001000	1 kg	Ⓟ
CA0200005P	5 kg	Ⓟ
CA0200020P	20 kg	Ⓟ

Calcium sulfate dihydrate

- Synonyms: Sulfuric acid calcium salt dihydrate
- $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
- $M = 172,17 \text{ g/mol}$
- CAS [10101-41-4]
- EINECS-No.: 231-900-3
- Solub. in water: (20 °C): ~ 2 g/l
- Tariff number: 2833 29 90 00
- Applications: analytical chemistry, laboratory reagent, in building materials, synthesis of organic products, for pharmaceuticals synthesizing.

CA0284 Calcium sulfate dihydrate, extra pure, Pharpur®, Ph Eur, BP, NF

assay (complexometric) 98 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CA02840500	500 g	⊖	CA0284005P	5 kg	⊖
CA02841000	1 kg	⊖	CA0284025P	25 kg	⊖

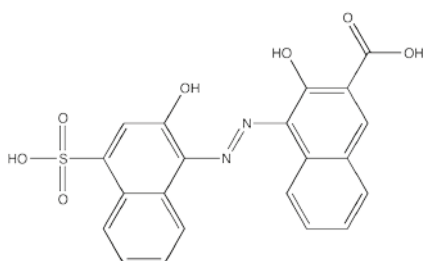
CA0285 Calcium sulfate dihydrate, reagent grade, ACS

assay (complexometric) 98 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CA02850250	250 g	⊖	CA0285005P	5 kg	⊖
CA02850500	500 g	⊖	CA0285025P	25 kg	⊖
CA02851000	1 kg	⊖			

Calconcarboxylic acid

AC0635 Calconcarboxylic acid, indicator for metal titration

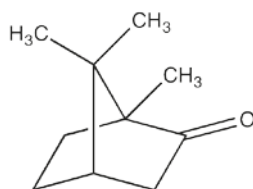


- Synonyms: 2-Hydroxy-1-(2-hydroxy-4-sulpho-1-naphthylazo)-3-naphthoic acid
- $\text{C}_{21}\text{H}_{14}\text{N}_2\text{O}_7\text{S}$
- $M = 438,42 \text{ g/mol}$
- CAS [3737-95-9]
- EINECS-No.: 223-117-0
- Solub. in water: (20 °C): insoluble
- Melting point: 300 °C
- Tariff number: 2927 00 00 90
- Applications: analytical chemistry, indicator, for the identification of: calcium.

Art. No.	Volume	Container
AC06350005	5 g	⊖
AC06350025	25 g	⊖

DL-Camphor

AL0070 DL-Camphor, synthetic, extra pure



- Synonyms: 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one
- $\text{C}_{10}\text{H}_{16}\text{O}$
- $M = 152,24 \text{ g/mol}$
- CAS [76-22-2]
- EINECS-No.: 200-945-0
- Solub. in water: (25 °C): 1,25 g/l
- Melting point: 172 - 176 °C
- Flash pt. 64 °C
- Ignition temp.: 466 °C
- ADR: 4.1 F1 III UN 2717
- IMDG: 4.1 III UN 2717
- IATA/ICAO: 4.1 III UN 2717

- GHS-signal word: Danger
- GHS-H sentences: H301 - H228
- GHS-P sentences: P210 - P241 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2914 21 00 00
- Applications: plasticizer, in explosive compositions, in pyrotechnics, manufacturing of lacquers, cosmetics, for pharmaceuticals synthesizing.
- Appearance: White powder

Art. No.	Volume	Container
AL00701000	1 kg	⊖

Canada Balsam

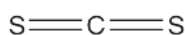
BA0030 Canada balsam, for microscopy

- Synonyms: Balsam Canada
- CAS [8007-47-4]
- EINECS-No.: 232-362-2
- Solub. in water: (20 °C): insoluble
- Flash pt. 39 °C
- LD 50 (oral, rat): > 5000 g/kg
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993
- GHS-signal word: Warning
- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 1301 90 90 00

- Applications: microscopy.

Art. No.	Volume	Container
BA00300025	25 ml	⊖
BA00300100	100 ml	⊖
BA00300250	250 ml	⊖

Carbon disulfide



- Synonyms: Carbon bisulfide, Dithiocarbonic anhydride
- CS_2
- $M = 76,14 \text{ g/mol}$
- CAS [75-15-0]
- EINECS-No.: 200-843-6
- Density: 1,26 g/cm³
- Solub. in water: (20 °C): 2,1 g/l
- Melting point: -111,6 °C
- Boiling point: 46,5 °C
- Flash pt. -30 °C
- Ignition temp.: 100 °C
- Vapour pressure: (20 °C) 398 hPa

- Dielectric const.: (20 °C) 2,6
- LD 50 (oral, rat): 3188 mg/kg
- EC-Index-No.: 006-003-00-3
- ADR: 3 FT1 I UN 1131
- IMDG: 3 I UN 1131
- IATA/ICAO: Forbidden
- GHS-signal word: Danger
- GHS-H sentences: H225 - H372 - H361fd - H315 - H319
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2813 10 00 00
- Applications: synthesis of organic products, solvents.

SU0170 Carbon disulfide, extra pure



assay (G.C.) min. 99,5 %
residue on evaporation max. 0,002 %
water (K.F.) max. 0,02 %

Art. No.	Volume	Container
SU01701000	1 l	0

SU0171 Carbon disulfide, reagent grade, ACS, Reag. Ph Eur

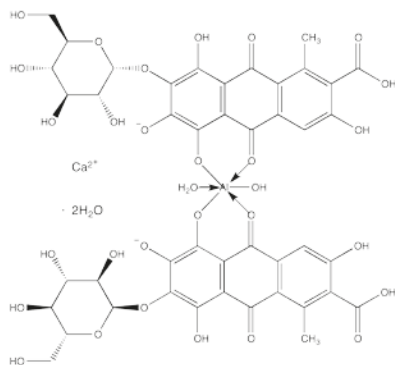


assay (G.C.) min. 99,9 %

Art. No.	Volume	Container
SU01711000	1 l	0

Carmine, C.I. 75470

CA0380 Carmine, C.I. 75470, for microscopy



- Synonyms: Alum lacquer of carminic acid
- $C_{44}H_{37}AlCaO_{29} \cdot 3H_2O$
- M = 492,38 g/mol
- CAS [1390-65-4]
- EINECS-No.: 215-724-4
- Solub. in water: (20 °C): insoluble
- Tariff number: 3203 00 90 00
- Applications: microscopy, for biology, photography, manufacturing of inks, in food industry, cosmetics.

Art. No.	Volume	Container
CA03800025	25 g	0

Carrez's Reagent I

RE0016 Carrez's Reagent I

- Density: 1,11 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container	Art. No.	Volume	Container
RE00161000	1 l	0	RE0016005P	5 l	0

Carrez's Reagent II

RE0017 Carrez's Reagent II

- Density: 1,07 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container	Art. No.	Volume	Container
RE00171000	1 l	0	RE0017005P	5 l	0

Cedar wood oil

AC0020 Cedar wood oil, thickened

- CAS [8000-27-9]
- Density: 0,99 g/cm³
- Flash pt. 110 °C
- Refraction index: (n 20°C/D) 1,518
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 3301 29 61 00
- Applications: microscopy, for biology.

Art. No.	Volume	Container
AC00200025	25 g	0

Cerium(III) nitrate hexahydrate

CE0080 Cerium(III) nitrate hexahydrate, extra pure, Reag. Ph Eur



- $Ce(NO_3)_3 \cdot 6H_2O$
- M = 434,23 g/mol
- CAS [10294-41-4]
- EINECS-No.: 233-297-2
- Solub. in water: (20 °C): soluble
- LD 50 (oral, rat): 4200 mg/kg
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2846 10 00 90
- Applications: analytical chemistry, laboratory reagent, inorganic salts.
- Appearance: Colourless to white crystalline powder

assay (complexometric) min. 98,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CE00800100	100 g	0

Cerium(IV) oxide

CE0090 Cerium(IV) oxide, synthesis grade

- CeO_2
- M = 172,12 g/mol
- CAS [1306-38-3]
- EINECS-No.: 215-150-4
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 2000 °C
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2846 10 00 90
- Applications: oxidizing agent, in optics, inorganic salts.

assay (on ignited sample) min. 99 %

Art. No.	Volume	Container
CE00900100	100 g	0

Cerium

Cerium(IV) sulfate, volumetric solutions

CE0102 Cerium(IV) sulfate, solution 0,1 mol/l (0,1 N)

<ul style="list-style-type: none"> Ce(SO₄)₂·4H₂O M = 404,30 g/mol CAS [10294-42-5] EINECS-No.: 237-029-5 Density: 1,08 g/cm³ 	<ul style="list-style-type: none"> GHS-H sentences: EUH210 Tariff number: 2846 10 00 90 Applications: analytical chemistry, titrant in volumetric analysis. 	Art. No.	Volume	Container
		CE01021000	1 l	⊕

CE0101 Cerium(IV) sulfate, solution 0,05 mol/l (0,05 N)

<ul style="list-style-type: none"> Ce(SO₄)₂·4H₂O M = 404,30 g/mol CAS [10294-42-5] EINECS-No.: 237-029-5 Density: 1,04 g/cm³ 	<ul style="list-style-type: none"> GHS-H sentences: EUH210 Tariff number: 2846 10 00 90 Applications: analytical chemistry, titrant in volumetric analysis. 	Art. No.	Volume	Container
		CE01011000	1 l	⊕

Cesium chloride

<ul style="list-style-type: none"> CsCl M = 168,36 g/mol CAS [7647-17-8] EINECS-No.: 231-600-2 	<ul style="list-style-type: none"> Solub. in water: (20 °C): soluble Melting point: 646 °C Boiling point: 1382 °C LD 50 (oral, rat): 2600 mg/kg 	<ul style="list-style-type: none"> Tariff number: 2827 39 80 90 Applications: analytical chemistry, laboratory reagent, for the synthesis of: cesium, in radiology applications.
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CE0110 Cesium chloride, reagent grade

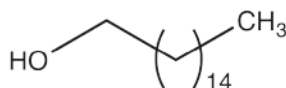
assay (argentometric) min. 99,5 %	Art. No.	Volume	Container
	CE01100100	100 g	⊕

CE0121 Cesium chloride, molecular biology grade

assay (argentometric) min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
DNases, RNases, Proteases non detected	CE01210100	100 g	⊕	CE01210500	500 g	⊕

Cetyl alcohol

AL0190 Cetyl alcohol, extra pure



<ul style="list-style-type: none"> Synonyms: 1-Hexadecanol C₁₆H₃₄O M = 242,45 g/mol CAS [36653-82-4] EINECS-No.: 253-149-0 Solub. in water: (20 °C): insoluble Melting point: ~ 49 - 53 °C Boiling point: ~ 355 °C Flash pt. > 110 °C Ignition temp.: ~ 235 °C Vapour pressure: (20 °C) 5000 mg/kg 	<ul style="list-style-type: none"> Tariff number: 2905 17 00 00 Applications: synthesis of organic products, for pharmaceuticals synthesizing, cosmetics, emulsifier, in pharma industry. 		
assay (G.C.) min. 96 %	Art. No.	Volume	Container
	AL01901000	1 kg	⊕

Charcoal

<ul style="list-style-type: none"> C M = 12,01 g/mol CAS [7440-44-0] 	<ul style="list-style-type: none"> EINECS-No.: 231-153-3 Solub. in water: (20 °C): insoluble Tariff number: 3802 10 00 20 	<ul style="list-style-type: none"> Applications: analytical chemistry, for decolourization of liquids, antidote, in explosive compositions.
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CA0346 Charcoal activated, granulated

Art. No.	Volume	Container	Art. No.	Volume	Container
CA03460500	500 g	⊕	CA0346005P	5 kg	⊕
CA03461000	1 kg	⊕			

CA0351 Charcoal activated, powder, extra pure

loss on drying max. 10 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	CA03510250	250 g	⊕	CA03511000	1 kg	⊕
	CA03510500	500 g	⊕	CA0351005P	5 kg	⊕

CA0352 Charcoal activated, powder, reagent grade

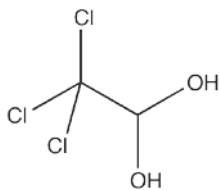
loss on drying (120 °C) max. 5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	CA03520250	250 g	⊕	CA03521000	1 kg	⊕
	CA03520500	500 g	⊕	CA0352005P	5 kg	⊕

CA0350 Charcoal, animal, powder, extra pure

Art. No.	Volume	Container
CA03500500	500 g	⊕

Chloral hydrate

CL0010 Chloral hydrate, extra pure



- Synonyms: Trichloroacetaldehyde hydrate
- $C_2H_2Cl_3O_2$
- $M = 165,40$ g/mol
- CAS [302-17-0]
- EINECS-No.: 206-117-5
- Solub. in water: (20 °C): soluble
- Melting point: 51,7 °C
- Boiling point: 96,3 °C
- Vapour pressure: (20 °C) 13 hPa
- LD 50 (oral, rat): 479 mg/kg
- EC-Index-No.: 605-014-00-6
- ADR: 6.1 T2 II UN 2811
- IMDG: 6.1 II UN 2811
- IATA/ICAO: 6.1 II UN 2811
- GHS-signal word: Danger

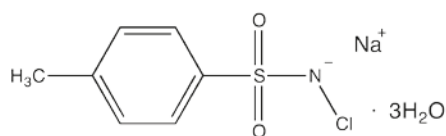
- GHS-H sentences: H301 - H315 - H319
- GHS-P sentences: P280 - P301 + P310 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2905 59 99 00
- Applications: analytical chemistry, synthesis of organic products, laboratory reagent.
- Appearance: White crystalline powder

assay (acidimetric) 98,5 - 101 %

Art. No.	Volume	Container
CL00100500	500 g	⓪
CL00101000	1 kg	⓪

Chloramine T trihydrate

CL0020 Chloramine T trihydrate, reagent grade, ACS



- Synonyms: N-Chloro-4-methylbenzenesulfonamide sodium salt, N-Chloro-p-toluenesulfonamide sodium salt, Tosylchloramide sodium, N-Chloro-4-toluenesulfonamide sodium salt
- $C_7H_7ClNNaO_2S \cdot 3H_2O$
- $M = 281,69$ g/mol
- CAS [7080-50-4]
- EINECS-No.: 204-854-7
- Solub. in water: (25 °C): 150 g/l
- Melting point: > 70 °C (decomposes)
- Flash pt. 192 °C
- LD 50 (oral, rat): ~ 1000 mg/kg
- EC-Index-No.: 616-010-00-9
- ADR: 8 C8 III UN 3263
- IMDG: 8 III UN 3263
- IATA/ICAO: 8 III UN 3263
- GHS-signal word: Danger
- GHS-H sentences: H334 - H314 - H302 - EUH031

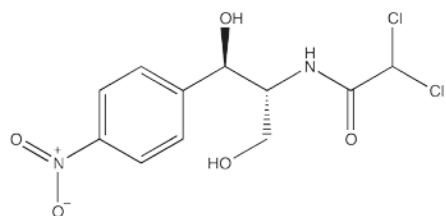
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2935 00 90 90
- Applications: analytical chemistry, synthesis of organic products, for the detection of: halogens and bromates.
- Appearance: White to off-white crystalline powder

assay (iodometric) 99 - 103 %
suitability for determination
of bromide (Br) passes test

Art. No.	Volume	Container
CL00200100	100 g	⓪
CL00200250	250 g	⓪
CL00201000	1 kg	⓪

Chloramphenicol

CL0025 Chloramphenicol, for biochemical purposes



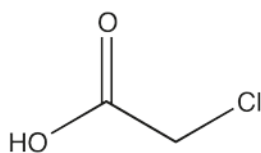
- Synonyms: Chloromycetin
- $C_{11}H_{12}Cl_2N_2O_5$
- $M = 323,13$ g/mol
- CAS [56-75-7]
- EINECS-No.: 200-287-4
- Solub. in water: (25 °C): 2,5 g/l
- Melting point: 149 - 153 °C
- LD 50 (oral, rat): 2500 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H350
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a

- Tariff number: 2941 40 00 00
- Applications: in biochemistry, for pharmaceuticals synthesizing, antibacterian.

assay (DSC) min. 99 %

Art. No.	Volume	Container
CL00250050	50 g	⓪
CL00250500	500 g	⓪

Chloroacetic acid



- Synonyms: Monochloroacetic acid
- $CH_2ClCOOH$
- $M = 94,50$ g/mol
- CAS [79-11-8]
- EINECS-No.: 201-178-4
- Solub. in water: (20 °C): soluble
- Melting point: 60 - 63 °C
- Boiling point: 189 °C
- Flash pt. 126 °C
- Ignition temp.: 470 °C
- Vapour pressure: (20 °C) 1 hPa
- LD 50 (oral, rat): 55 mg/kg
- EC-Index-No.: 607-003-00-1

- ADR: 6.1 TC2 II UN 1751
- IMDG: 6.1 II UN 1751
- IATA/ICAO: 6.1 II UN 1751
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H314 - H400
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2915 40 00 90
- Applications: analytical chemistry, manufacture of dyes, synthesis of organic products, for acetylations.

AC0747 Chloroacetic acid, extra pure

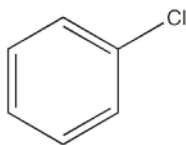
assay (acidimetric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC07470500	500 g	⓪	AC0747005P	5 kg	⓪
AC07471000	1 kg	⓪			

AC0750 Chloroacetic acid, reagent grade, ACS

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AC07500500	500 g	0

Chlorobenzene


- Synonyms: Monochlorobenzene, Benzene chloride, Phenyl chloride
- C_6H_5Cl
- $M = 112,56$ g/mol
- CAS [108-90-7]
- EINECS-No.: 203-628-5
- Density: 1,11 g/cm³
- Solub. in water: (20 °C): 0,5 g/l
- Melting point: -45 °C
- Boiling point: 132 °C
- Flash pt. 28 °C
- Ignition temp.: 590 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,5248
- Dielectric const.: (25 °C) 5,6
- LD 50 (oral, rat): 1100 mg/kg
- EC-Index-No.: 602-033-00-1
- ADR: 3 F1 III UN 1134
- IMDG: 3 III UN 1134
- IATA/ICAO: 3 III UN 1134
- GHS-signal word: Warning
- GHS-H sentences: H226 - H332 - H411
- GHS-P sentences: P210 - P241 - P261 - P280 - P303 + P361 + P353 - P501a
- Tariff number: 2903 91 00 00
- Applications: laboratory reagent, synthesis of organic products, solvents (painting).

CL0110 Chlorobenzene, extra pure

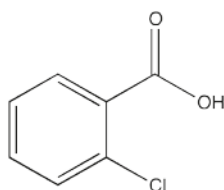
assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL01101000	1 l	0	CL0110005P	5 l	0
CL01102500	2,5 l	0	CL0110025P	25 l	0

CL0111 Chlorobenzene, reagent grade, ACS

 assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,0005 %
 water (K.F.) max. 0,02 %

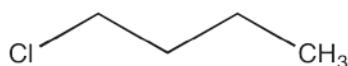
Art. No.	Volume	Container	Art. No.	Volume	Container
CL01111000	1 l	0	CL01111005P	5 l	0
CL01112500	2,5 l	0			

2-Chlorobenzoic acid
AC0765 2-Chlorobenzoic acid, extra pure


- Synonyms: o-Chlorobenzoic acid
- $C_7H_5ClO_2$
- $M = 156,57$ g/mol
- CAS [118-91-2]
- EINECS-No.: 204-285-4
- Solub. in water: (20 °C): 21 g/l
- Melting point: 139 - 142 °C
- Boiling point: 284 - 286 °C
- Flash pt. 173 °C
- Ignition temp.: 530 °C
- LD 50 (oral, rat): 2465 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2916 39 00 90
- Applications: synthesis of organic products.

assay (acidimetric) min. 99 %

Art. No.	Volume	Container
AC07650250	250 g	0

1-Chlorobutane


- Synonyms: n-Butyl chloride, n-Propylcarbonyl chloride
- C_4H_9Cl
- $M = 92,57$ g/mol
- CAS [109-69-3]
- EINECS-No.: 203-696-6
- Density: 0,88 g/cm³
- Solub. in water: (20 °C): ~ 0,5 g/l
- Melting point: -123 °C
- Boiling point: 78 °C
- Flash pt. ~ -17 °C
- Ignition temp.: ~ 280 °C
- Vapour pressure: (20 °C) ~ 110 hPa
- LD 50 (oral, rat): 2670 mg/kg
- EC-Index-No.: 602-059-00-3
- ADR: 3 F1 II UN 1127
- IMDG: 3 II UN 1127
- IATA/ICAO: 3 II UN 1127
- GHS-signal word: Danger
- GHS-H sentences: H225
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2903 19 80 00
- Applications: analytical chemistry, synthesis of organic products.

CL0119 1-Chlorobutane, reagent grade

assay (G.C.) min. 99,5 %

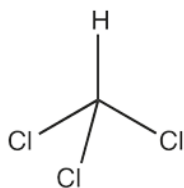
Art. No.	Volume	Container	Art. No.	Volume	Container
CL01191000	1 l	0	CL0119025A	25 l	0

CL0120 1-Chlorobutane, HPLC grade

 assay (G.C.) min. 99,8 %
 min. transmission/max. absorbance
 wavelength: T(%) A (AU)
 225 nm. 20 % 0,699 AU
 230 nm. 50 % 0,301 AU
 245 nm. 90 % 0,046 AU
 Microfiltered through membranes of pore diameter
 0,22µm

Art. No.	Volume	Container
CL01201000	1 l	0
CL01202500	2,5 l	0

Chloroform



- Synonyms: Trichloromethane, Formyl trichloride
- CHCl_3
- M = 119,38 g/mol
- CAS [67-66-3]
- EINECS-No.: 200-663-8
- Density: 1,47 g/cm³
- Solub. in water: (20 °C): 8 g/l
- Melting point: -63 °C
- Boiling point: 61 °C
- Ignition temp.: 982 °C
- Vapour pressure: (20 °C) 213 hPa
- Dielectric const.: (20 °C) 4,8
- LD 50 (oral, rat): 908 mg/kg
- EC-Index-No.: 602-006-00-4
- ADR: 6.1 T1 III UN 1888
- IMDG: 6.1 III UN 1888
- IATA/ICAO: 6.1 III UN 1888
- GHS-signal word: Danger
- GHS-H sentences: H351 - H361d - H331 - H302 - H372 - H319 - H315 -
- GHS-P sentences: P260 - P261 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2903 13 00 00
- Applications: solvents, analytical chemistry, in the rubber industry.

CL0198 Chloroform, synthesis grade, stabilized with ethanol



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL01981000	1 l	0	CL0198005P	5 l	0
CL01982500	2,5 l	0	CL0198025P	25 l	0

CL0200 Chloroform, extra pure, stabilized with ethanol



assay (G.C.)99,0 - 99,6 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL02001000	1 l	0	CL0200005P	5 l	0
CL02002500	2,5 l	0	CL0200025A	25 l	0

CL0210 Chloroform, extra pure, stabilized with 150 ppm of amylene



assay (G.C.)min. 99,9 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,05 %

Art. No.	Volume	Container
CL02102500	2,5 l	0

CL0203 Chloroform, reagent grade, ACS, ISO, stabilized with ethanol



assay (G.C.)99,0 - 99,5 %
residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,01 %
suitability for use in
dithizone testspasses test

Art. No.	Volume	Container	Art. No.	Volume	Container
CL02031000	1 l	0	CL0203025A	25 l	0
CL02032500	2,5 l	0	CL0203200L	200 l	0
CL0203005P	5 l	0			

CL0204 Chloroform, reagent grade, ACS, stabilized with ethanol, for determinations with dithizone



assay (G.C.)99,0 - 99,5 %
residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,01 %
suitability for use in

dithizone testspasses test

Art. No.	Volume	Container
CL02041000	1 l	0
CL02042500	2,5 l	0

CL0218 Chloroform, stabilized with ethanol, Multisolvant® HPLC grade ACS ISO UV-VIS



assay (G.C.)min. 99,8 %
residue on evaporationmax. 0,0002 %
water (K.F.)max. 0,01 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
250 nm. T(%) A (AU) 50 % 0,301 AU
265 nm. 90 % 0,046 AU
300 nm. 98 % 0,009 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
CL02181000	1 l	0
CL02182500	2,5 l	0

CL0207 Chloroform, HPLC grade, stabilized with amylene (approx. 150 ppm)



assay (G.C.)min. 99,8 %
residue on evaporationmax. 0,0003 %
water (K.F.)max. 0,01 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
248 nm. T(%) A (AU) 20 % 0,699 AU
253 nm. 50 % 0,301 AU
265 nm. 90 % 0,046 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
CL02071000	1 l	0
CL02072500	2,5 l	0

CL0208 Chloroform, for GC residue analysis, stabilized with ethanol



assay (G.C.)min. 99 %
residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
CL02081000	1 l	0
CL02082500	2,5 l	0

CL0202 Chloroform, 99,9%, anhydrous (max. 0,003% H₂O), stabilized with 150 ppm of amylene



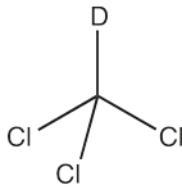
assay (G.C.)min. 99,9 %
water (K.F.)max. 0,003 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL02020100	100 ml	0	CL02021000	1 l	0
CL02020500	500 ml	0			

CL0219 Chloroform, 99,9%, anhydrous (max. 0,003% H₂O), with molecular sieves, stabilized with 150 ppm of amylene

 assay (G.C.) min. 99,9 %
 water (K.F.) max. 0,003 %

Art. No.	Volume	Container
CL02191000	1 l	0

Chloroform-d


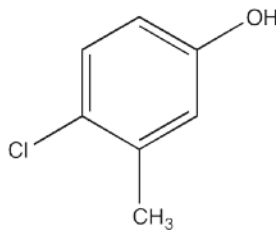
- CDCl₃
- M = 120,38 g/mol
- CAS [865-49-6]
- EINECS-No.: 212-742-4
- Density: 1,50 g/cm³
- Solub. in water: (20 °C): 8,2 g/l
- Melting point: -64,1 °C
- Boiling point: 60 °C
- Vapour pressure: (20 °C) 211 hPa
- LD 50 (oral, rat): 908 mg/kg
- EC-Index-No.: 602-006-00-4
- ADR: 6.1 T1 III UN 1888
- IMDG: 6.1 III UN 1888
- IATA/ICAO: 6.1 III UN 1888
- GHS-signal word: Warning
- GHS-H sentences: H351 - H373 - H302 - H315
- GHS-P sentences: P260 - P280 - P281 - P321 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

CL0213 Chloroform-d, deuteration degree min. 99,8%, NMR spectroscopy grade, Spectrosol®

Art. No.	Volume	Container	Art. No.	Volume	Container
CL02130100	100 ml	0	CL02131000	1 l	0
CL02130500	500 ml	0			

CL0215 Chloroform-d + TMS (99:1, v/v), deuteration degree min. 99,8%, NMR spectroscopy grade, Spectrosol®

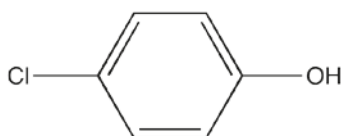
Art. No.	Volume	Container
CL02150100	100 ml	0

4-Chloro-3-methylphenol
CL0125 4-Chloro-3-methylphenol, synthesis grade


- Synonyms: 4-Chloro-m-cresol, 2-Chloro-5-hydroxy-toluene
- C₇H₇ClO
- M = 142,59 g/mol
- CAS [59-50-7]
- EINECS-No.: 200-431-6
- Solub. in water: (20 °C): 4 g/l
- Melting point: 63 - 65 °C
- Boiling point: 235 - 238 °C
- Flash pt. 118 °C
- Ignition temp.: 590 °C
- Vapour pressure: (20 °C) 0,08 hPa
- LD 50 (oral, rat): 1830 mg/kg
- EC-Index-No.: 604-014-00-3
- ADR: 6.1 T1 II UN 3437
- IMDG: 6.1 II UN 3437
- IATA/ICAO: 6.1 II UN 3437
- GHS-signal word: Danger
- GHS-H sentences: H318 - H400 - H302 - H312 - H317
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P310 - P321 - P501a
- Tariff number: 2908 19 00 00
- Applications: disinfectant and antiseptic.
- Appearance: White tablets

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
CL01250250	250 g	0
CL01251000	1 kg	0

4-Chlorophenol
CL0160 4-Chlorophenol, synthesis grade


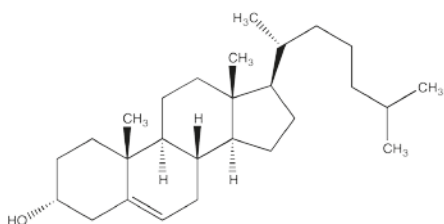
- Synonyms: 4-Chloro-1-hydroxybenzene
- C₆H₅ClO
- M = 128,56 g/mol
- CAS [106-48-9]
- EINECS-No.: 203-402-6
- Solub. in water: (20 °C): 27 g/l
- Melting point: 41 - 44 °C
- Boiling point: 216 - 218 °C
- Flash pt. 121 °C
- Vapour pressure: (20 °C) 0,15 hPa
- LD 50 (oral, rat): 261 mg/kg
- EC-Index-No.: 604-008-00-0 [2]
- ADR: 6.1 T2 III UN 2020
- IMDG: 6.1 III UN 2020
- IATA/ICAO: 6.1 III UN 2020
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332 - H411
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2908 19 00 00
- Applications: synthesis of organic products, laboratory reagent.

assay (G.C.) min. 98 %

Art. No.	Volume	Container
CL01600250	250 g	0
CL01601000	1 kg	0

Cholesterol

CO0180 Cholesterol, extra pure, Pharmapur®, Ph Eur, BP, NF



- Synonyms: 2-Cholesten-3 β -ol
- C₂₇H₄₆O
- M = 386,67 g/mol
- CAS [57-88-5]
- EINECS-No.: 200-353-2
- Solub. in water: (20 °C): insoluble
- Melting point: 147 - 150 °C
- Boiling point: ~ 360 °C (decomposes)
- Tariff number: 2906 13 10 00
- Applications: analytical chemistry, for pharmaceuticals synthesizing, in pharma industry.

assay (G.C., on dried sample)min. 95 %
total esterols (G.C. on dried sample)97 - 103 %
Residual solvents are analysed according to guideline
CPMP/ICH/283/95.

Art. No.	Volume	Container
CO01800100	100 g	0

Chromic mixture

CR0210 Chromic mixture



- Synonyms: Chromosulfuric acid, Dichromate sulfuric acid mixture
- CAS [65272-71-1]
- Density: 1,84 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: 330 °C
- ADR: 8 C1 I UN 2240
- IMDG: 8 I UN 2240

- IATA/ICAO: 8 I UN 2240
- GHS-signal word: Danger
- GHS-H sentences: H334 - H340 - H350 - H360FD - H373 - H314 - H332 - H317 - H411
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3824 90 99 99
- Applications: for laboratory glassware cleaning.

• Appearance: Red-dark brown liquid

for glassware cleaning

Art. No.	Volume	Container
CR02101000	1 l	0

Chromium(III) chloride hexahydrate

CR0190 Chromium(III) chloride hexahydrate, extra pure, Reag. Ph Eur



- CrCl₃·6H₂O
- M = 266,45 g/mol
- CAS [10060-12-5]
- EINECS-No.: 233-038-3
- Solub. in water: (20 °C): 590 g/l
- Melting point: 95 °C
- LD 50 (oral, rat): 1790 mg/kg
- GHS-signal word: Warning

- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2827 39 85 90
- Applications: analytical chemistry, synthesis of polymers, synthesis of organic products, for the synthesis of: chromium salts, corrosion inhibitor.

assay (iodometric)min. 97 %

Art. No.	Volume	Container
CR01901000	1 kg	0
CR0190005P	5 kg	0

Chromium(III) nitrate nonahydrate

CR0194 Chromium(III) nitrate nonahydrate, extra pure



- Synonyms: Chromic nitrate nonahydrate
- Cr(NO₃)₃·9H₂O
- M = 400,15 g/mol
- CAS [7789-02-8]
- EINECS-No.: 236-921-1
- Solub. in water: (20 °C): 810 g/l
- Melting point: 36 - 37 °C
- LD 50 (oral, rat): 3250 mg/l
- ADR: 5.1 O2 III UN 2720

- IMDG: 5.1 III UN 2720
- IATA/ICAO: 5.1 III UN 2720
- GHS-signal word: Danger
- GHS-H sentences: H272 - H302
- GHS-P sentences: P221 - P210 - P220 - P280 - P301 + P312 - P501a
- Applications: for the synthesis of: catalyst (Cr); in the textile industry; corrosion inhibitor.
- Tariff number: 2834 29 80 00

assay (iodometric)min. 97 %

Art. No.	Volume	Container
CR01940500	500 g	0
CR01941000	1 kg	0
CR0194005P	5 kg	0

Chromium(VI) oxide

AN0200 Chromium(VI) oxide, extra pure, Reag. Ph Eur



- Synonyms: Chromium trioxide, Chromic anhydride
- CrO₃
- M = 99,99 g/mol
- CAS [1333-82-0]
- EINECS-No.: 215-607-8
- Solub. in water: (20 °C): soluble
- Melting point: 197 °C
- LD 50 (oral, rat): 80 mg/kg
- EC-Index-No.: 024-001-00-0
- ADR: 5.1 OTC II UN 1463

- IMDG: 5.1 II UN 1463
- IATA/ICAO: 5.1 III UN 1463
- GHS-signal word: Danger
- GHS-H sentences: H271 - H301 - H311 - H330 - H334 - H340 - H350 - H372 - H361f - H314 - H410 - H317
- GHS-P sentences: P221 - P283 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2819 10 00 00

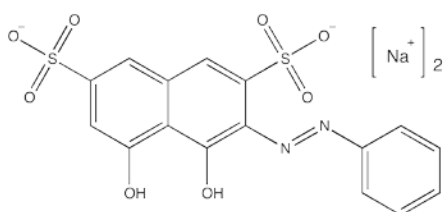
• Applications: analytical chemistry, corrosion inhibitor, photography, oxidizing agent (synthesis of organic products), microscopy.

assay (iodometric)min. 99 %

Art. No.	Volume	Container
AN02000500	500 g	0
AN02001000	1 kg	0

Chromotrop 2 R, C.I. 16570

CR0235 Chromotrop 2 R, C.I. 16570, for complexometry



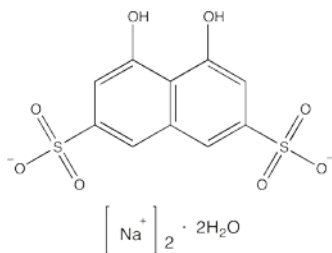
- Synonyms: 2-(Phenylazo)chromotropic acid disodium salt, Acid red 29
- C₁₆H₁₀N₂Na₂O₉S₂
- M = 468,39 g/mol
- CAS [4197-07-3]
- EINECS-No.: 224-085-0
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a

• Tariff number: 2927 00 00 90
• Applications: indicator, for biology, complexant agent.

Art. No.	Volume	Container
CR02350010	10 g	0

Chromotropic acid, disodium salt dihydrate

AC0788 Chromotropic acid, disodium salt dihydrate, reagent grade, ACS



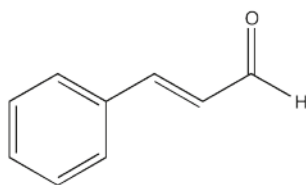
- Synonyms: 4,5-Dihydroxy-2,7-naphthalenedisulfonic acid disodium salt dihydrate
- $C_{10}H_8Na_2O_6 \cdot 2H_2O$
- $M = 400,30 \text{ g/mol}$
- CAS [5808-22-0]
- EINECS-No.: 204-972-9
- Solub. in water: (20 °C): 170 g/l
- Tariff number: 2908 99 00 90
- Applications: analytical chemistry, manufacture of dyes, for determination of: silver, mercury, chlorates, nitrates, nitrites, chromium and titanium.

assay (acidimetric) min. 98,5 %
 suitability for determination of formaldehyde passes test
 suitability for determination of nitrates passes test

Art. No.	Volume	Container
AC07880025	25 g	0
AC07880050	50 g	0

Cinnamaldehyde

AL0535 Cinnamaldehyde, synthesis grade



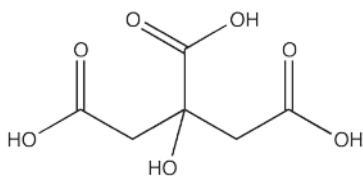
- Synonyms: trans-Cinnamic aldehyde, trans-3-Phenyl-2-propenal
- C_9H_8O
- $M = 132,16 \text{ g/mol}$
- CAS [104-55-2]
- EINECS-No.: 203-213-9
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): 1,1 g/l
- Melting point: -8 °C
- Boiling point: (21 hPa) 127 °C
- Flash pt. 138 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- Refraction index: (n 20 °C/D) 1,6219
- LD 50 (oral, rat): 2220 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H312 - H315 - H317
- GHS-P sentences: P261 - P280 - P321 - P322 - P362 - P501a
- Tariff number: 2912 29 00 90
- Applications: analytical chemistry, perfumery, in food industry, synthesis of organic products.

assay (G.C.) min. 98 %

Art. No.	Volume	Container
AL05350250	250 ml	0
AL05351000	1 l	0

Citric acid anhydrous



- Synonyms: 2-Hydroxy-1,2,3-propanetricarboxylic acid, β-Hydroxy tricarboxylic acid
- $C_6H_8O_7$
- $M = 192,13 \text{ g/mol}$
- CAS [77-92-9]
- EINECS-No.: 201-069-1
- Solub. in water: (20 °C): soluble
- Melting point: ~ 153 °C (decomposes)
- Ignition temp.: 345 °C

- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 3000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2918 14 00 00
- Applications: acidifying agent, analytical chemistry, laboratory reagent, in food industry, antioxidant.

AC0718 Citric acid anhydrous, extra pure, Pharmpur®, Ph Eur, BP, USP



assay (acidimetric, on dried sample) 99,5 - 100,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC07180500	500 g	0
AC07181000	1 kg	0

Art. No.	Volume	Container
AC0718005P	5 kg	0
AC0718025P	25 kg	0

AC0724 Citric acid anhydrous, powder, Pharmpur®, Ph Eur, USP, GMP, suitable for use as excipient



assay (acidimetric, on dried sample) 99,5 - 100,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC07241000		0

Art. No.	Volume	Container
AC0724025P	25 kg	0

AC0719 Citric acid anhydrous, reagent grade, ACS, Reag. Ph Eur

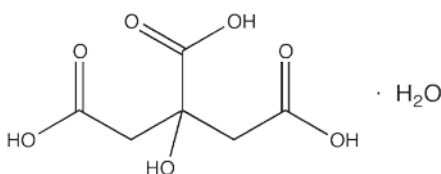


assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AC07190500	500 g	0
AC07191000	1 kg	0

Art. No.	Volume	Container
AC0719005P	5 kg	0
AC0719025P	25 kg	0

Citric acid monohydrate



- Synonyms: 2-Hydroxy-1,2,3-propanetricarboxylic acid monohydrate, β-Hydroxytricarboxylic acid monohydrate
- $C_6H_8O_7 \cdot H_2O$
- $M = 210,14 \text{ g/mol}$
- CAS [5949-29-1]
- EINECS-No.: 201-069-1
- Solub. in water: (20 °C): very soluble in water
- Melting point: 135 - 152 °C
- Boiling point: 135 - 152 °C (decomposes)

- Ignition temp.: 345 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 3000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2918 14 00 00
- Applications: analytical chemistry, laboratory reagent, in buffer solutions.

AC0720 Citric acid monohydrate, extra pure, Ph Eur, BP, USP


assay (acidimetric, on dried sample)	99,5 - 100,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		AC07200500	500 g	Ⓟ	AC0720005P	5 kg	Ⓟ
		AC07201000	1 kg	Ⓟ	AC0720025P	25 kg	Ⓟ

AC0723 Citric acid monohydrate, granular, Ph Eur, USP, GMP, suitable for use as excipient


assay (acidimetric, on dried sample)	99,5 - 100,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
Residual solvents are analysed according to guideline CPMP/ICH/283/95.		AC07231000	1 kg	Ⓟ	AC0723025P	25 kg	Ⓟ

AC0725 Citric acid monohydrate, reagent grade, ACS, ISO, Reag. Ph Eur


assay (acidimetric)	99,5 - 100,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		AC07250500	500 g	Ⓟ	AC0725005P	5 kg	Ⓟ
		AC07251000	1 kg	Ⓟ	AC0725025P	25 kg	Ⓟ

Cobalt(II) chloride hexahydrate

- $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$
- M = 237,93 g/mol
- CAS [7791-13-1]
- EINECS-No.: 231-589-4
- Solub. in water: (20 °C): 76 g/l
- Melting point: 56 °C
- LD 50 (oral, rat): 766 mg/kg
- EC-Index-No.: 027-004-00-5
- ADR: 6.1 T5 III UN 3288
- IMDG: 6.1 III UN 3288
- IATA/ICAO: 6.1 III UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H334 - H350 - H410 - H302 - H317
- GHS-P sentences: P285 - P261 - P280 - P321 - P405 - P501a
- Tariff number: 2827 34 00 00
- Applications: analytical chemistry, laboratory reagent, invisible ink.
- Appearance: Violet solid

CO0025 Cobalt(II) chloride hexahydrate, extra pure


assay (complexometric)	min. 98 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		CO00250100	100 g	Ⓟ	CO0025005P	5 kg	Ⓟ
		CO00250500	500 g	Ⓟ	CO0025025P	25 kg	Ⓟ
		CO00251000	1 kg	Ⓟ			

CO0027 Cobalt(II) chloride hexahydrate, reagent grade, ACS, ISO, Reag. Ph Eur


assay (complexometric)	99 - 102 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		CO00270250	250 g	Ⓟ	CO0027005P	5 kg	Ⓟ
		CO00271000	1 kg	Ⓟ			

Cobalt(II) nitrate hexahydrate

- Synonyms: Nitric acid cobalt salt hexahydrate
- $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$
- M = 291,04 g/mol
- CAS [10026-22-9]
- EINECS-No.: 233-402-1
- Solub. in water: (20 °C): soluble
- Melting point: 57 °C
- LD 50 (oral, rat): 691 mg/kg
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272 - H351 - H302 - H317
- GHS-P sentences: P221 - P210 - P220 - P321 - P405 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent, pigment, invisible ink.
- Appearance: Pink-red-brown crystalline powder

CO0045 Cobalt(II) nitrate hexahydrate, extra pure


assay (complexometric)	98 - 102 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		CO00450500	500 g	Ⓟ	CO0045005P	5 kg	Ⓟ
		CO00451000	1 kg	Ⓟ	CO0045025P	25 kg	Ⓟ

CO0046 Cobalt(II) nitrate hexahydrate, reagent grade, ACS, Reag. Ph Eur


assay (complexometric)	99 - 102 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		CO00460250	250 g	Ⓟ	CO0046005P	5 kg	Ⓟ

Cobalt(II) sulfate heptahydrate

- $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$
- M = 281,10 g/mol
- CAS [10026-24-1]
- EINECS-No.: 233-334-2
- Solub. in water: (20 °C): 260 g/l
- Melting point: 98 °C
- LD 50 (oral, rat): 582 mg/kg
- EC-Index-No.: 027-005-00-0
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H334 - H350 - H410 - H302 - H317
- GHS-P sentences: P285 - P261 - P280 - P321 - P405 - P501a
- Tariff number: 2833 29 30 00
- Applications: analytical chemistry, laboratory reagent, in porcelain industry, pigment, manufacturing of inks.

CO0075 Cobalt(II) sulfate heptahydrate, extra pure


assay (complexometric)	min. 98 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		CO00750250	250 g	Ⓟ	CO0075005P	5 kg	Ⓟ
		CO00751000	1 kg	Ⓟ	CO0075025P	25 kg	Ⓟ

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Z

C00077 Cobalt(II) sulfate heptahydrate, reagent grade

assay (complexometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
C000770250	250 g	⊘	C00077005P	5 kg	⊘
C000771000	1 kg	⊘			

Cocktails for liquid scintillation
C00135 Cocktail 22, for liquid scintillation, Normascint®

- Density: 0,92 g/cm³
- Flash pt. < 20 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H361 - H373 - H318 - H302 - H336 - H315 - H411
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: for liquid scintillation.

Art. No.	Volume	Container
C001352500	2,5 l	⊘

C00150 Cocktail Biogreen 3, for liquid scintillation

- Density: 0,99 g/cm³
- Boiling point: 315 °C
- Flash pt. 130 °C
- Vapour pressure: (20 °C) 1,5 hPa
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: for liquid scintillation.

Art. No.	Volume	Container
C00150005P	5 l	⊘

Collodion flexible
C00192 Collodion flexible, pure

- CAS [9004-70-0]
- Density: 0,78 g/cm³
- Solub. in water: (20 °C): insoluble
- Boiling point: (1000 hPa) 34,6 °C
- Flash pt. -52 °C
- Ignition temp.: 170 °C
- Vapour pressure: (20 °C) 576 hPa
- ADR: 3 D I UN 2059
- IMDG: 3 I UN 2059
- IATA/ICAO: 3 I UN 2059
- GHS-signal word: Danger
- GHS-H sentences: H224 - EUH019 - H302 - H336
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3912 20 11 00
- Applications: in building materials, manufacturing of lacquers, in the textile industry.
- Appearance: Oily colourless liquid

Art. No.	Volume	Container
C001920250	250 ml	⊘
C001921000	1 l	⊘

Collodion, solution 4%
C00190 Collodion, solution approx. 4% w/v, extra pure, Pharmapur®, USP

- Density: 0,76 - 0,80 g/cm³
- Solub. in water: (20 °C): non-miscible
- Boiling point: ~ 34 °C
- Flash pt. -52 °C
- Ignition temp.: 170 °C
- Vapour pressure: (20 °C) 576 hPa
- LD 50 (oral, rat): 1215 mg/kg (toxic component)
- ADR: 3 D I UN 2059
- IMDG: 3 I UN 2059
- IATA/ICAO: 3 I UN 2059
- GHS-signal word: Danger
- GHS-H sentences: H224 - EUH019 - H302 - H336
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3912 20 11 00
- Applications: photography, manufacturing of lacquers, in building materials, in pharma industry.
- Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
C001900250	250 ml	⊘
C001901000	1 l	⊘

Complexon - magnesium, volumetric solutions
C00221 Complexon - magnesium, solution 0,1 mol/l

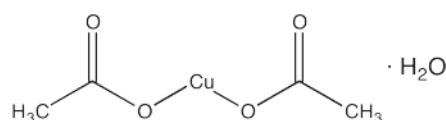
- Density: 1,032 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
C002210250	250 ml	⊘
C002211000	1 l	⊘

Copper
C00093 Copper, powder, extra pure, Reag. Ph Eur

- Cu
- M = 63,55 g/mol
- CAS [7440-50-8]
- EINECS-No.: 231-159-6
- Solub. in water: (20 °C): insoluble
- Melting point: 1083 °C
- Boiling point: 2595 °C
- Tariff number: 7406 10 00 00
- Applications: analytical chemistry, electrical conductor, catalyst (synthesis of organic products), metal alloys.
- assay (iodometric)min. 99,7 %

Art. No.	Volume	Container
C000930500	500 g	⊘
C000931000	1 kg	⊘

Copper(II) acetate monohydrate


- Synonyms: Cupric acetate
- Cu(CH₃COO)₂·H₂O
- M = 199,65 g/mol
- CAS [6046-93-1]
- EINECS-No.: 205-553-3
- Solub. in water: (20 °C): 72 g/l
- Melting point: 115 °C
- Boiling point: 240 °C (decomposes)
- LD 50 (oral, rat): 710 mg/kg
- ADR: 8 CT2 II UN 2923
- IMDG: 8 II UN 2923
- IATA/ICAO: 8 II UN 2923
- GHS-signal word: Danger
- GHS-H sentences: H318 - H410 - H302
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P310 - P301 + P312 - P501a
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, pigment (in porcelain industry), fungicide, spraying reagent in thin layer chromatography.

CO0092 Copper(II) acetate monohydrate, extra pure



assay (iodometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
C000920500	500 g	Ⓟ	C00092005P	5 kg	Ⓟ
C000921000	1 kg	Ⓟ	C00092025P	25 kg	Ⓟ

CO0095 Copper(II) acetate monohydrate, reagent grade, ACS, Reag. Ph Eur



assay (iodometric)99 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
C000950250	250 g	Ⓟ	C00095005P	5 kg	Ⓟ
C000950500	500 g	Ⓟ	C00095025P	25 kg	Ⓟ
C000951000	1 kg	Ⓟ			

Copper(I) cyanide

CO0110 Copper(I) cyanide, extra pure



- Synonyms: Cupricin
- CuCN
- M = 89,56 g/mol
- CAS [544-92-3]
- EINECS-No.: 208-883-6
- Solub. in water: (20 °C): almost insoluble
- Melting point: 473 °C
- LD 50 (oral, rat): 1265 mg/kg
- EC-Index-No.: 006-007-00-5

- ADR: 6.1 T5 II UN 1587
- IMDG: 6.1 II UN 1587
- IATA/ICAO: 6.1 II UN 1587
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H410 - EUH032
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2837 19 00 20

- Applications: synthesis of organic products, catalyst (synthesis of polymers), in galvanotechnia.
- Appearance: Green-white to beige powder

assay (complexometric)min. 98 %

Art. No.	Volume	Container
C001100100	100 g	Ⓟ

Copper(I) chloride

CO0097 Copper(I) chloride, reagent grade, ACS



- Synonyms: Copper monochloride
- CuCl
- M = 98,99 g/mol
- CAS [7758-89-6]
- EINECS-No.: 231-842-9
- Solub. in water: (25 °C): 0,06 g/l
- Melting point: 422 °C
- Boiling point: 1366 °C
- LD 50 (oral, rat): 140 mg/kg
- EC-Index-No.: 029-001-00-4
- ADR: 8 C2 III UN 2802

- IMDG: 8 III UN 2802
- IATA/ICAO: 8 III UN 2802
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302
- GHS-P sentences: P273 - P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2827 39 80 10
- Applications: analytical chemistry, for the detection of: arsenic and antimony hydrides, for the absorption of carbon monoxide, laboratory reagent.
- Appearance: Light green crystalline powder

assay (iodometric)min. 97 %

Art. No.	Volume	Container
C000970250	250 g	Ⓟ
C000970500	500 g	Ⓟ

Copper(II) chloride dihydrate

- Synonyms: Copper dichloride dihydrate
- CuCl₂·2H₂O
- M = 170,48 g/mol
- CAS [10125-13-0]
- EINECS-No.: 231-210-2
- Solub. in water: (20 °C): soluble
- Melting point: ~ 100 °C

- LD 50 (oral, rat): 584 mg/kg (anhydrous substance)
- ADR: 8 C2 III UN 2802
- IMDG: 8 III UN 2802
- IATA/ICAO: 8 III UN 2802
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2827 39 80 90
- Applications: catalyst, invisible ink, analytical chemistry.
- Appearance: Blue crystals

CO0100 Copper(II) chloride dihydrate, extra pure, Pharpur®, USP



assay (iodometric, on dried sample)99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
C001000500	500 g	Ⓟ	C00100005P	5 kg	Ⓟ
C001001000	1 kg	Ⓟ	C00100025P	25 kg	Ⓟ

CO0112 Copper(II) chloride dihydrate, reagent grade, ACS

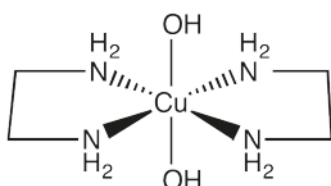


assay (iodometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
C001120100	100 g	Ⓟ	C00112005P	5 kg	Ⓟ
C001121000	1 kg	Ⓟ			

Copper(II) ethylenediamine solution

RE0008 Copper(II) ethylenediamine solution, for determination of viscosity in cellulose according to DIN 54270



- [Cu(OH)₂(C₂H₈N₂)₂]
- CAS [14552-35-3]
- EINECS-No.: 238-597-7
- Density: 1,10 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 750 mg/kg (pure substance)
- ADR: 8 CT1 II UN 1761
- IMDG: 8 II UN 1761
- IATA/ICAO: 8 II UN 1761
- GHS-signal word: Danger

- GHS-H sentences: H334 - H314 - H302 - H317 - H411
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2942 00 00 00
- Applications: for determination of viscosity in cellulose.
- Appearance: Dark blue liquid

Art. No.	Volume	Container
RE00081000	1 l	Ⓟ

Copper

Copper(II) hydroxide carbonate

CO0088 Copper(II) hydroxide carbonate, extra pure

- Synonyms: Copper(II) carbonate hydroxide, Copper(II) carbonate basic
- $\text{CuCO}_3 \cdot \text{Cu(OH)}_2$
- M = 221,20 g/mol
- CAS [12069-69-1]
- EINECS-No.: 235-113-6
- Solub. in water: (20 °C): insoluble
- Melting point: 200 °C
- LD 50 (oral, rat): 1350 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2836 99 11 00
- Applications: in pyrotechnics, in galvanotechnology, for the synthesis of: copper salts.
- assay (iodometric)min. 95 %

Art. No.	Volume	Container
C000880500	500 g	
C000881000	1 kg	

Copper(II) nitrate trihydrate

- Synonyms: Copper dinitrate trihydrate
- $\text{Cu(NO}_3)_2 \cdot 3\text{H}_2\text{O}$
- M = 241,60 g/mol
- CAS [10031-43-3]
- EINECS-No.: 221-838-5
- Solub. in water: (20 °C): soluble
- Melting point: ~ 114 °C
- LD 50 (oral, rat): 940 mg/kg
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477
- GHS-signal word: Danger
- GHS-H sentences: H272 - H410 - H302 - H315 - H319
- GHS-P sentences: P221 - P210 - P220 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 2834 29 40 00
- Applications: analytical chemistry, in galvanotechnology, spraying reagent in thin layer chromatography, in porcelain industry (colouring agent).
- Appearance: Blue crystals

CO0098 Copper(II) nitrate trihydrate, extra pure

Art. No.	Volume	Container	Art. No.	Volume	Container
C000980500	500 g		C00098005P	5 kg	
C000981000	1 kg		C00098025P	25 kg	

CO0091 Copper(II) nitrate trihydrate, reagent grade

Art. No.	Volume	Container	Art. No.	Volume	Container
C000910500	500 g		C00091005P	5 kg	
C000911000	1 kg		C00091025P	25 kg	

Copper(II) oxide

CO0099 Copper(II) oxide, extra pure

- Synonyms: Copper monoxide
- CuO
- M = 79,55 g/mol
- CAS [1317-38-0]
- EINECS-No.: 215-269-1
- Solub. in water: (20 °C): insoluble
- Melting point: 1336 °C
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2825 50 00 10
- Applications: analytical chemistry, catalyst (synthesis of organic products), in pyrotechnics, in porcelain industry, in galvanotechnology.
- assay (complexometric)min. 96 %

Art. No.	Volume	Container
C000990500	500 g	
C000991000	1 kg	
C00099005P	5 kg	
C00099025P	25 kg	

Copper(II) sulfate anhydrous

CO0087 Copper(II) sulfate anhydrous, extra pure, Pharmapur®, Ph Eur, BP, USP

- Synonyms: Copper monosulfate anhydrous, Copper vitriol anhydrous
- CuSO_4
- M = 159,60 g/mol
- CAS [7758-98-7]
- EINECS-No.: 231-847-6
- Solub. in water: (20 °C): 203 g/l
- LD 50 (oral, rat): 300 mg/kg
- EC-Index-No.: 029-004-00-0
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2833 25 00 00
- Applications: analytical chemistry, for the detection of: water, in pharma industry.
- assay (iodometric, on dried sample)99 - 101 %
- Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
C000870250	250 g	
C000871000	1 kg	
C00087005P	5 kg	

Copper(II) sulfate pentahydrate

- Synonyms: Copper monosulfate pentahydrate, Copper vitriol pentahydrate
- $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
- M = 249,68 g/mol
- CAS [7758-99-8]
- EINECS-No.: 231-847-6
- Solub. in water: (20 °C): ~ 317 g/l
- LD 50 (oral, rat): 300 mg/kg (anhydrous substance)
- EC-Index-No.: 029-004-00-0
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2833 25 00 00
- Applications: analytical chemistry, nitrogen determinations.

CO0096 Copper(II) sulfate pentahydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

Art. No.	Volume	Container	Art. No.	Volume	Container
C000960500	500 g		C00096005P	5 kg	
C000961000	1 kg		C00096025P	25 kg	

CO0101 Copper(II) sulfate pentahydrate, reagent grade, ACS, ISO, Reag. Ph Eur


assay (iodometric) 99 - 100,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CO01010500	500 g	P	CO0101005P	5 kg	P
CO01011000	1 kg	P	CO0101025P	25 kg	P

Copper(II) sulfate, volumetric solutions
CO0102 Copper(II) sulfate, solution 0,1 mol/l

- CuSO₄
- M = 159,60 g/mol
- CAS [7758-98-7]
- EINECS-No.: 231-847-6
- Density: 1,02 g/cm³

- EC-Index-No.: 029-004-00-0
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 2833 25 00 00
- Applications: analytical chemistry, fungicide.

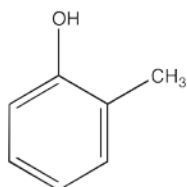
Art. No.	Volume	Container
CO01021000	1 l	P

Copper (II) sulfate, volumetric solutions
CO0103 Copper(II) sulfate, solution 0,02 mol/l

- CuSO₄
- M = 159,60 g/mol
- CAS [7758-98-7]
- EINECS-No.: 231-847-6
- Density: ~ 1,00 g/cm³

- EC-Index-No.: 029-004-00-0
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 2833 25 00 00
- Applications: analytical chemistry.

Art. No.	Volume	Container
CO0103010C	10 l	P

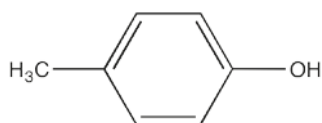
o-Cresol
CR0062 o-Cresol, synthesis grade


- Synonyms: 2-Methylphenol, 2-Hydroxytoluene
- C₇H₈O
- M = 108,14 g/mol
- CAS [95-48-7]
- EINECS-No.: 202-423-8
- Density: 1,04 g/cm³
- Solub. in water: (20 °C): 20 g/l
- Melting point: 29 - 31 °C
- Boiling point: 191 °C
- Flash pt. 81 °C
- Ignition temp.: 555 °C
- Vapour pressure: (20 °C) 0,35 hPa
- Refraction index: (n 20 °C/D) 1,553
- LD 50 (oral, rat): 121 mg/kg
- EC-Index-No.: 604-004-00-9 [2]
- ADR: 6.1 TC2 II UN 3455
- IMDG: 6.1 II UN 3455
- IATA/ICAO: 6.1 II UN 3455

- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H314
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2907 12 00 10
- Applications: synthesis of organic products, manufacturing of synthetic resins, disinfectant, fumigant, solvents.
- Appearance: Crystals

assay (G.C.) min. 99 %

Art. No.	Volume	Container
CR00620250	250 g	P
CR00621000	1 kg	P

p-Cresol
CR0082 p-Cresol, synthesis grade


- Synonyms: 4-Methylphenol, 4-Hydroxytoluene
- C₇H₈O
- M = 108,14 g/mol
- CAS [106-44-5]
- EINECS-No.: 203-398-6
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): 20 g/l
- Melting point: 31 - 34 °C
- Boiling point: 202 °C
- Flash pt. 86 °C
- Ignition temp.: 555 °C
- Vapour pressure: (20 °C) 0,15 hPa
- LD 50 (oral, rat): 207 mg/kg
- EC-Index-No.: 604-004-00-9 [3]
- ADR: 6.1 TC2 II UN 3455
- IMDG: 6.1 II UN 3455

- IATA/ICAO: 6.1 II UN 3455
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H314
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2907 12 00 91
- Applications: synthesis of organic products, manufacturing of synthetic resins, disinfectant, fumigant, solvents.

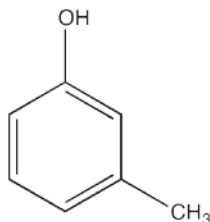
assay (G.C.) min. 98 %

Art. No.	Volume	Container
CR00820250	250 g	P



m-Cresol

CR0072 m-Cresol, synthesis grade



- Synonyms: 3-Methylphenol, 3-Hydroxytoluene
- C_7H_8O
- $M = 108,14$ g/mol
- CAS [108-39-4]
- EINECS-No.: 203-577-9
- Density: $1,03$ g/cm³
- Solub. in water: (20 °C): 20 g/l
- Melting point: 10 - 12 °C
- Boiling point: 203 °C
- Flash pt. 86 °C
- Ignition temp.: 620 °C
- Vapour pressure: (20 °C) 0,05 hPa
- Refraction index: (n 20 °C) 1,5392
- LD 50 (oral, rat): 242 mg/kg
- EC-Index-No.: 604-004-00-9 [1]
- ADR: 6.1 TC1 II UN 2076
- IMDG: 6.1 II UN 2076
- IATA/ICAO: 6.1 II UN 2076
- GHS-signal word: Danger

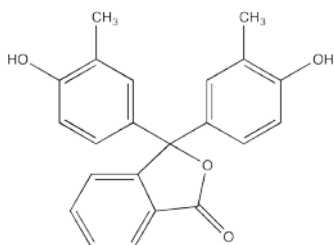
- GHS-H sentences: H301 - H311 - H314
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2907 12 00 99
- Applications: synthesis of organic products, manufacturing of synthetic resins, disinfectant, fumigant, solvents, photography, in explosive compositions.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
CR00720250	250 ml	0
CR00721000	1 l	0
CR00722500	2,5 l	0
CR0072005P	5 l	0

o-Cresolphthalein

CR0095 o-Cresolphthalein, indicator



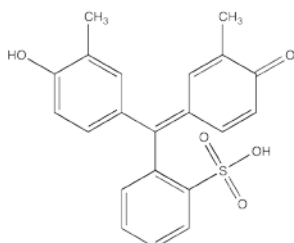
- Synonyms: 3,3-Bis(4-hydroxy-3-methylphenyl)-1(3H)-isobenzofuranone
- $C_{22}H_{18}O_4$
- $M = 346,38$ g/mol
- CAS [596-27-0]
- EINECS-No.: 209-881-8
- Solub. in water: (20 °C): slightly soluble
- Melting point: 223 - 225 °C
- Tariff number: 2932 20 90 90
- Applications: laboratory reagent, indicator.

pH range (colourless to red)8,2 - 9,8

Art. No.	Volume	Container
CR00950025	25 g	0

Cresol red

R00110 Cresol red, indicator



- Synonyms: o-Cresolsulfonphthalein
- $C_{21}H_{19}O_5S$
- $M = 382,44$ g/mol
- CAS [1733-12-6]
- EINECS-No.: 217-064-2
- Solub. in water: (20 °C): slightly soluble
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator (to fit pH of the reaction media).

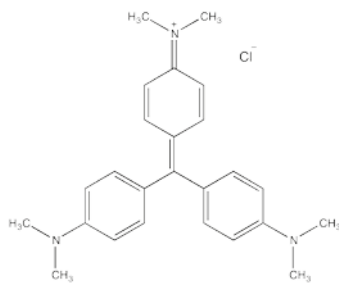
yellow)0,5 - 2,5
 pH range (brown-yellow to red-violet)6,5 - 8,5

Art. No.	Volume	Container
R001100005	5 g	0
R001100010	10 g	0

pH range (brown-orange to

Crystal violet, C.I. 42555

VI0025 Crystal violet, C.I. 42555, indicator, extra pure



- Synonyms: Hexamethyleneparosaniline chloride, Hexamethyl-p-rostanilinium chloride, Methyl violet 10 B
- $C_{25}H_{30}ClN_3$
- $M = 407,99$ g/mol
- CAS [548-62-9]
- EINECS-No.: 208-953-6
- Solub. in water: (20 °C): 10 g/l
- Melting point: 189 - 194 °C
- LD 50 (oral, rat): 420 mg/kg
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077

- GHS-signal word: Danger
- GHS-H sentences: H318 - H351 - H410 - H302
- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3204 13 00 90
- Applications: analytical chemistry, microscopy, indicator.

Art. No.	Volume	Container
VI00250025	25 g	0
VI00250100	100 g	0

Crystal violet oxalate, solution according to Gram Hücker

VI0027 Crystal violet oxalate, solution according to Gram Hücker



- Density: 0,980 g/cm³
- GHS-signal word: Warning
- GHS-H sentences: H226 - H351 - H319 - H412
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: microscopy, bacterium staining.

Art. No.	Volume	Container
VI0027G100	100 ml	0
VI00270500	500 ml	0
VI00271000	1 l	0
VI00272500	2,5 l	0

Cyanogen bromide

BR0175 Cyanogen bromide, synthesis grade



- Synonyms: Bromine cyanide, Bromocyan
- BrCN
- M = 105,93 g/mol
- CAS [506-68-3]
- EINECS-No.: 208-051-2
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: 52 °C
- Boiling point: 61 - 62 °C
- Vapour pressure: (20 °C) 113 hPa

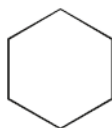
- ADR: 6.1 TC2 I UN 1889
- IMDG: 6.1 I UN 1889
- IATA/CAO: Forbidden
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H314
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2851 00 80 00

- Applications: synthesis of organic products, laboratory reagent.
- Appearance: White crystals

assay (iodometric)min. 98 %

Art. No.	Volume	Container
BR01750010	10 g	⊘

Cyclohexane



- Synonyms: Hexahydrobenzene, Hexamethylene, Naphthene
- C₆H₁₂
- M = 84,16 g/mol
- CAS [110-82-7]
- EINECS-No.: 203-806-2
- Density: 0,78 g/cm³
- Solub. in water: (20 °C): 55 mg/l
- Melting point: 6 °C
- Boiling point: 80,7 - 81 °C
- Flash pt. -18 °C
- Ignition temp.: 260 °C
- Vapour pressure: (20 °C) 103 hPa
- Refraction index: (n 20 °C/D) 1,4264

- Dielectric const.: (20 °C) 2,0
- LD 50 (oral, rat): 12705 mg/kg
- EC-Index-No.: 601-017-00-1
- ADR: 3 F1 II UN 1145
- IMDG: 3 II UN 1145
- IATA/CAO: 3 II UN 1145
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H410 - H315 - H336
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2902 11 00 00
- Applications: solvents, analytical chemistry, synthesis of organic products.

CI0031 Cyclohexane, extra pure



assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CI00311000	1 l	⊘	CI0031025A	25 l	⊘
CI00312500	2,5 l	⊘	CI0031025S	25 l	⊘
CI0031005L	5 l	⊘	CI0031200L	200 l	⊘

CI0032 Cyclohexane, reagent grade, ACS, ISO, Reag. Ph Eur



assay (G.C.)min. 99,7 %
residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CI00321000	1 l	⊘	CI0032005L	5 l	⊘
CI00322500	2,5 l	⊘	CI0032025A	25 l	⊘

CI0039 Cyclohexane, Multisolvant® HPLC grade ACS ISO UV-VIS



assay (G.C.)min. 99,9 %
residue on evaporationmax. 0,0002 %
water (K.F.)max. 0,01 %
min. transmission/max. absorbance
wavelength: T(%) A (AU)
208 nm.20 % 0,699 AU

223 nm.50 % 0,301 AU
232 nm.80 % 0,097 AU
240 nm.90 % 0,046 AU
250 nm.98 % 0,009 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
CI00391000	1 l	⊘
CI00392500	2,5 l	⊘
CI00394000	4 l	⊘

CI0035 Cyclohexane, for GC residue analysis



assay (G.C.)min. 99,8 %
residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container
CI00351000	1 l	⊘
CI00352500	2,5 l	⊘

CI0036 Cyclohexane, GC ultra-trace analysis grade



assay (G.C.)min. 99,8 %
residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
CI00361000	1 l	⊘
CI00362500	2,5 l	⊘

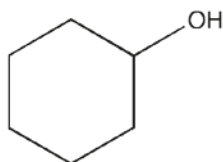
CI0030 Cyclohexane, 99,7%, anhydrous (max. 0,005% H₂O)



assay (G.C.)min. 99,7 %
water (K.F.)max. 0,005 %

Art. No.	Volume	Container
CI00300100	100 ml	⊘

Cyclohexanol



- Synonyms: Hexahydrophenol, Hydroxycyclohexane
- $C_6H_{12}O$
- $M = 100,16 \text{ g/mol}$
- CAS [108-93-0]
- EINECS-No.: 203-630-6
- Density: (25 °C) $0,94 \text{ g/cm}^3$
- Solub. in water: (20 °C): 36 g/l
- Melting point: 25 °C
- Boiling point: 161 °C
- Flash pt. 68 °C
- Ignition temp.: 300 °C
- Vapour pressure: (20 °C) $1,3 \text{ hPa}$
- Refraction index: (n 20 °C/D) 1,4657
- Dielectric const.: (25 °C) 15,0
- LD 50 (oral, rat): 1400 mg/kg
- EC-Index-No.: 603-009-00-3
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332 - H315 - H335
- GHS-P sentences: P261 - P280 - P321 - P362 - P405 - P501a
- Tariff number: 2906 12 00 00
- Applications: analytical chemistry, synthesis of organic products, insecticide, in the textile industry.

CI0040 Cyclohexanol, synthesis grade


assay (G.C.)min. 99 %

Art. No.	Volume	Container
CI00401000	1 l	0

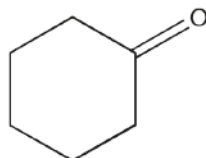
CI0042 Cyclohexanol, reagent grade


assay (G.C.)min.99,5 %

Art. No.	Volume	Container
CI00421000	1 l	0

Cyclohexanone

CI0050 Cyclohexanone, extra pure



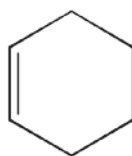
- Synonyms: Pimelic ketone
- $C_6H_{10}O$
- $M = 98,15 \text{ g/mol}$
- CAS [108-94-1]
- EINECS-No.: 203-631-1
- Density: $0,95 \text{ g/cm}^3$
- Solub. in water: (20 °C): ~ 80 g/l
- Melting point: -31 °C
- Boiling point: ~ 156 °C
- Flash pt. 43 °C
- Ignition temp.: 430 °C
- Vapour pressure: (20 °C) $4,0 \text{ hPa}$
- Dielectric const.: (25 °C) 18,3
- LD 50 (oral, rat): 1300 - 1840 mg/kg
- EC-Index-No.: 606-010-00-7
- ADR: 3 F1 III UN 1915
- IMDG: 3 III UN 1915
- IATA/ICAO: 3 III UN 1915
- GHS-signal word: Warning
- GHS-H sentences: H226 - H332
- GHS-P sentences: P210 - P241 - P261 - P280 - P303 + P361 + P353 - P501a
- Tariff number: 2914 22 00 00
- Applications: analytical chemistry, synthesis of organic products, solvents, manufacturing of synthetic resins.

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
CI00501000	1 l	0
CI00502500	2,5 l	0
CI0050005P	5 l	0

Cyclohexene

CI0060 Cyclohexene, synthesis grade, stabilized with approx. 100 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



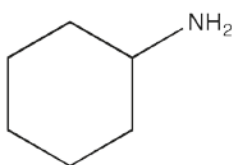
- Synonyms: 1,2,3,4-Tetrahydrobenzene
- C_6H_{10}
- $M = 82,15 \text{ g/mol}$
- CAS [110-83-8]
- EINECS-No.: 203-807-8
- Density: $0,81 \text{ g/cm}^3$
- Solub. in water: (20 °C): $0,21 \text{ g/l}$
- Melting point: -104 °C
- Boiling point: 83 °C
- Flash pt. -16 °C
- Ignition temp.: 310 °C
- Vapour pressure: (20 °C) 90 hPa
- Refraction index: (n 20 °C/D) 1,446
- LD 50 (oral, rat): 1940 mg/kg
- ADR: 3 F1 II UN 2256
- IMDG: 3 II UN 2256
- IATA/ICAO: 3 II UN 2256
- GHS-signal word: Danger
- GHS-H sentences: H225 - H302 - H312
- GHS-P sentences: P210 - P241 - P280 - P303 + P361 + P353 - P322 - P501a
- Tariff number: 2902 19 00 00
- Applications: synthesis of organic products.
- Appearance: Colourless clear liquid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
CI00601000	1 l	0
CI0060005P	5 l	0
CI0060025P	25 l	0

Cyclohexylamine

CI0070 Cyclohexylamine, synthesis grade



- Synonyms: Cyclohexanamine, Aminocyclohexane
- $C_6H_{13}N$
- M = 99,18 g/mol
- CAS [108-91-8]
- EINECS-No.: 203-629-0
- Density: 0,87 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -18 °C
- Boiling point: 133 - 134 °C
- Flash pt. 27 °C
- Ignition temp.: 265 °C
- Vapour pressure: (20 °C) 14 hPa
- Refraction index: (n 20 °C/D) 1,4580
- LD 50 (oral, rat): 300 mg/kg
- EC-Index-No.: 612-050-00-6
- ADR: 8 CF1 II UN 2357
- IMDG: 8 II UN 2357

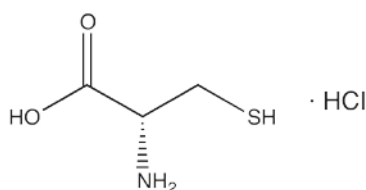
- IATA/ICAO: 8 II UN 2357
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226 - H361f - H302 - H312
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 30 10 00
- Applications: analytical chemistry, synthesis of organic products, in the rubber industry, manufacture of dyes, emulsifier, insecticide.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
CI00701000	1 l	0

L-Cysteine hydrochloride anhydrous

CI0305 L-Cysteine hydrochloride anhydrous, extra pure



- Synonyms: Thioisoserine
- $C_3H_7NO_2S \cdot HCl$
- M = 157,62 g/mol
- CAS [52-89-1]
- EINECS-No.: 200-157-7
- Solub. in water: (20 °C): soluble
- Melting point: 175 - 178 °C (decomposes)
- Tariff number: 2930 90 16 00

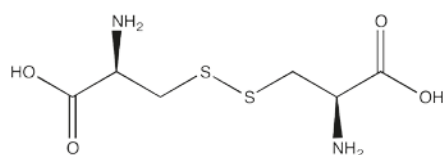
- Applications: in biochemistry, in food industry, antioxidant.

assay (argentometric)min. 99 %

Art. No.	Volume	Container
CI03050025	25 g	0
CI03050100	100 g	0

L-Cystine

CI0315 L-Cystine, extra pure, Pharpur®, Ph Eur, BP



- Synonyms: Dicysteine
- $C_6H_{12}N_2O_4S_2$
- M = 240,30 g/mol
- CAS [56-89-3]
- EINECS-No.: 200-296-3
- Solub. in water: (20 °C): 0,1 - 0,2 g/l
- Melting point: 261 - 262 °C (decomposes)
- LD 50 (oral, rat): 11200 mg/kg
- Tariff number: 2930 90 13 90
- Applications: in biochemistry, synthesis of organic products, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CI03150100	100 g	0

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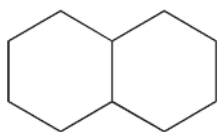
Columns · Vials · Syringe filters · Solvents



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Decahydronaphthalene

DE0020 Decahydronaphthalene, mixture of isomers, synthesis grade



- Synonyms: Decalin
- $C_{10}H_{18}$
- $M = 138,25$ g/mol
- CAS [91-17-8]
- EINECS-No.: 202-046-9
- Density: 0,88 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: -32 °C
- Boiling point: 189 - 191 °C
- Flash pt. 57 °C
- Ignition temp.: 255 °C
- Vapour pressure: (50 °C) 100 hPa
- Refraction index: (n 20 °C/D) 1,4742
- LD 50 (oral, rat): 4170 mg/kg
- ADR: 3 F1 III UN 1147
- IMDG: 3 III UN 1147

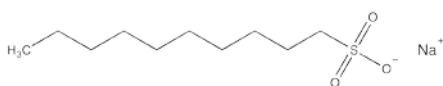
- IATA/ICAO: 3 III UN 1147
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226 - H332 - H411
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2902 19 80 00
- Applications: synthesis of organic products, analytical chemistry, manufacturing of lacquers, as gasoline additive, in lubricant compositions, solvents: Naphthalene, oils, fats, waxes and resins.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
DE00201000	1 l	0

1-Decane sulfonic acid, sodium salt

AC0801 1-Decane sulfonic acid, sodium salt, HPLC grade



- Synonyms: Sodium 1-decylsulfonate
- $C_{10}H_{21}NaO_3S$
- $M = 244,33$ g/mol
- CAS [13419-61-9]
- EINECS-No.: 236-525-9
- Solub. in water: (20 °C): soluble
- Melting point: > 300 °C
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography, synthesis of organic products.

assay (acidimetric)min. 99 %

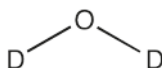
max. absorbance of an aqueous sol. 0,2 M in a 1 cm cell at wavelength: absorbance:

210 nm.0,05 AU
220 nm.0,03 AU
230 nm.0,02 AU
260 nm.0,02 AU

Art. No.	Volume	Container
AC08010025	25 g	0
AC08010100	100 g	0

Deuterium oxide

DE0037 Deuterium oxide, deuteration degree min. 99,8%, NMR spectroscopy grade, Spectrosol®



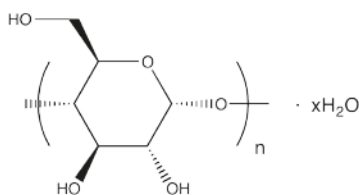
- Synonyms: Heavy water
- D_2O
- $M = 20,03$ g/mol
- CAS [7789-20-0]
- EINECS-No.: 232-148-9
- Density: 1,11 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 3,8 °C
- Boiling point: 101 °C

- Tariff number: 2845 10 00 00
- Applications: for nuclear magnetic resonance spectroscopy, for nuclear reactions.

Art. No.	Volume	Container
DE00370010	10 ml	0
DE00370100	100 ml	0

Dextrin white

DE0040 Dextrin white, extra pure, Pharnpur®, Ph Eur



- $(C_6H_{10}O_5)_n \cdot xH_2O$
- CAS [9004-53-9]
- EINECS-No.: 232-675-4
- Solub. in water: (20 °C): ~ 50 g/l
- Tariff number: 3505 10 10 00
- Applications: desiccant, emulsifier, manufacture of dyes, in explosive compositions, in pharma industry.

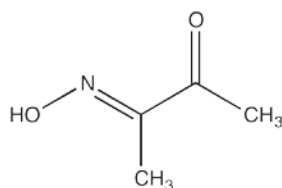
identificationpasses test

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
DE00401000	1 kg	0
DE0040005P	5 kg	0
DE0040025P	25 kg	0

Diacetylmonoxime

DI0030 Diacetylmonoxime, reagent grade



- $C_4H_7NO_2$
- $M = 101,11$ g/mol
- CAS [57-71-6]
- EINECS-No.: 200-348-5
- Solub. in water: (20 °C): soluble
- Melting point: 74 - 76 °C
- Boiling point: 185 - 186 °C
- Tariff number: 2928 00 90 90

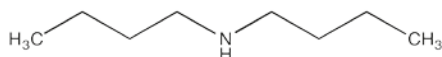
- Applications: analytical chemistry, for spectrophotometric determinations, for gravimetric determinations (for determination of: nickel).

assay (DSC)min. 99 %

Art. No.	Volume	Container
DI00300100	100 g	0

Dibutylamine

DI0300 Dibutylamine, synthesis grade



- Synonyms: N-Butyl-1-butanamine
- $C_8H_{19}N$
- M = 129,25 g/mol
- CAS [111-92-2]
- EINECS-No.: 203-921-8
- Density: 0,76 g/cm³
- Solub. in water: (25 °C): 4,05 g/l
- Melting point: -62 °C
- Boiling point: 160 - 162 °C
- Flash pt. 39 °C
- Ignition temp.: 260 °C
- Vapour pressure: (20 °C) 2 hPa
- Refraction index: (n 20 °C/D) 1,4168
- LD 50 (oral, rat): 189 mg/kg
- EC-Index-No.: 612-049-00-0 [1]
- ADR: 8 CF1 II UN 2248
- IMDG: 8 II UN 2248

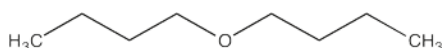
- IATA/ICAO: 8 II UN 2248
- GHS-signal word: Warning
- GHS-H sentences: H226 - H302 - H312 - H332
- GHS-P sentences: P210 - P241 - P261 - P280 - P303 + P361 + P353 - P501a
- Tariff number: 2921 19 80 90
- Applications: analytical chemistry, chromatography, synthesis of organic products.
- Appearance: Clear liquid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
DI03001000	1 l	Ø
DI03002500	2,5 l	Ø

Dibutyl ether

ET0060 Dibutyl ether, synthesis grade



- Synonyms: Butyl ether
- $C_8H_{18}O$
- M = 130,23 g/mol
- CAS [142-96-1]
- EINECS-No.: 205-575-3
- Density: 0,77 g/cm³
- Solub. in water: (20 °C): 0,3 g/l
- Melting point: -95 °C
- Boiling point: 140 - 143 °C
- Flash pt. 25 °C
- Ignition temp.: 185 °C
- Vapour pressure: (20 °C) 6,4 hPa
- Refraction index: (n 20 °C/D) 1,3992
- Dielectric const.: (25 °C) 3,1
- LD 50 (oral, rat): 7400 mg/kg
- EC-Index-No.: 603-054-00-9
- ADR: 3 F1 III UN 1149

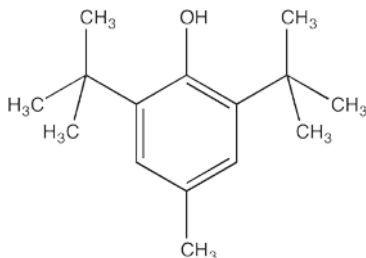
- IMDG: 3 III UN 1149
- IATA/ICAO: 3 III UN 1149
- GHS-signal word: Warning
- GHS-H sentences: H226 - H315 - H319 - H335 - H412
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2909 19 00 90
- Applications: synthesis of organic products, solvents. Separation and identification of: metals.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
ET00601000	1 l	Ø

2,6-Di-tert-butyl-4-methylphenol

DI0315 2,6-Di-tert-butyl-4-methylphenol, synthesis grade



- Synonyms: 2,6-Di-tert-butyl-p-cresol, BHT, Butylhydroxytoluene, Ionol
- $C_{15}H_{24}O$
- M = 220,36 g/mol
- CAS [128-37-0]
- EINECS-No.: 204-881-4
- Solub. in water: (20 °C): < 0,01 g/l
- Melting point: 69 - 70 °C
- Boiling point: 265 °C
- Flash pt. 127 °C
- Ignition temp.: 345 °C
- Vapour pressure: (20 °C) 0,02 hPa
- LD 50 (oral, rat): 890 mg/kg
- GHS-signal word: Warning

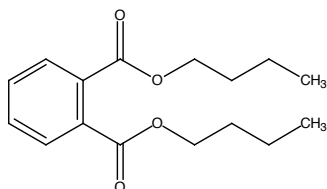
- GHS-H sentences: H302 - H315 - H319 - H413
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2907 19 00 90
- Applications: analytical chemistry, oxidizing agent.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
DI03150250	250 g	Ø
DI03150500	500 g	Ø
DI03151000	1 kg	Ø

Dibutyl phthalate

FT0035 Dibutyl phthalate, synthesis grade



- Synonyms: Phthalic acid dibutyl ester, DBP
- $C_{16}H_{22}O_4$
- M = 278,35 g/mol
- CAS [84-74-2]
- EINECS-No.: 201-557-4
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): 0,4 g/l
- Boiling point: ~ 340 °C
- Flash pt. 171 °C
- Ignition temp.: ~ 370 °C
- LD 50 (oral, rat): 8000 mg/kg
- ADR: 9 M6 III UN 3082
- IMDG: 9 III UN 3082
- IATA/ICAO: 9 III UN 3082
- GHS-signal word: Danger

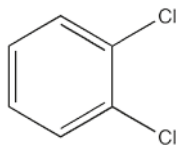
- GHS-H sentences: H360Df - H400
- GHS-P sentences: P281 - P273 - P308 + P313 - P391 - P405 - P501a
- Tariff number: 2917 31 00 00
- Applications: synthesis of organic products, insect repellent.
- Appearance: Colourless to yellowish liquid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
FT00351000	1 l	Ø
FT0035025P	25 l	Ø

1,2-Dichlorobenzene

DI0382 1,2-Dichlorobenzene, synthesis grade



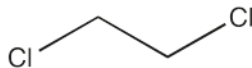
- Synonyms: o-Chlorobenzene
- $C_6H_4Cl_2$
- $M = 147,00$ g/mol
- CAS [95-50-1]
- EINECS-No.: 202-425-9
- Density: 1,31 g/cm³
- Solub. in water: (20 °C): ~ 0,13 g/l
- Melting point: -17 °C
- Boiling point: 180 °C
- Flash pt. 66 °C
- Ignition temp.: 640 °C
- Vapour pressure: (20 °C) ~ 1,3 hPa
- Dielectric const.: (25 °C) 9,9
- EC-Index-No.: 602-034-00-7
- ADR: 6.1 T1 III UN 1591
- IMDG: 6.1 III UN 1591
- IATA/ICAO: 6.1 III UN 1591

- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2903 91 00 00
- Applications: solvents, degreasing agent, manufacture of dyes.

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
DI03821000	1 l	0
DI03822500	2,5 l	0
DI0382005P	5 l	0

1,2-Dichloroethane



- Synonyms: Ethylene chloride, Ethylene dichloride
- $C_2H_4Cl_2$
- $M = 98,97$ g/mol
- CAS [107-06-2]
- EINECS-No.: 203-458-1
- Density: 1,25 g/cm³
- Solub. in water: (20 °C): 0,80 g/l
- Melting point: -35,5 °C
- Boiling point: 83,5 - 84,1 °C
- Flash pt. 13 °C
- Ignition temp.: 412,6 - 440 °C
- Vapour pressure: (20 °C) 87 hPa
- LD 50 (oral, rat): 670 mg/kg

- EC-Index-No.: 602-012-00-7
- ADR: 3 FT1 II UN 1184
- IMDG: 3 II UN 1184
- IATA/ICAO: 3 II UN 1184
- GHS-signal word: Danger
- GHS-H sentences: H225 - H350 - H302 - H315 - H319 - H335 -
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P338 - P405 - P501a
- Tariff number: 2903 15 00 00
- Applications: solvents, synthesis of organic products, fumigant.

DI0407 1,2-Dichloroethane, reagent grade, ACS



assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI04071000	1 l	0	DI04072500	2,5 l	0

DI0409 1,2-Dichloroethane, HPLC grade



assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,01 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:

Wavelength (nm)	T(%)	A (AU)
230 nm	20 %	0,699 AU
235 nm	50 %	0,301 AU
245 nm	90 %	0,046 AU

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
DI04091000	1 l	0
DI04092500	2,5 l	0

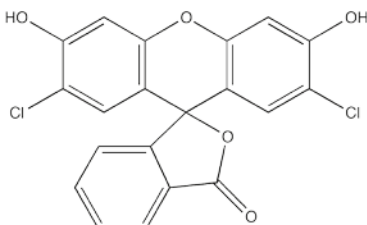
DI0411 1,2-Dichloroethane, 99,5%, anhydrous (max. 0,005% H₂O)

assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI04110100	100 ml	0	DI04111000	1 l	0

2',7'-Dichlorofluorescein

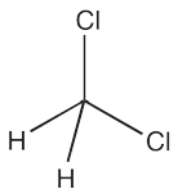
DI0425 2',7'-Dichlorofluorescein, indicator



- Synonyms: 2',7'-Dichloro-3',6'-dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one
- $C_{20}H_{10}Cl_2O_5$
- $M = 401,21$ g/mol
- CAS [76-54-0]
- EINECS-No.: 200-968-6
- Solub. in water: (20 °C): slightly soluble
- Tariff number: 3204 90 00 00
- Applications: analytical chemistry, for microbiology.

Art. No.	Volume	Container
DI04250005	5 g	0

Dichloromethane



- Synonyms: Methylene chloride, Chloromethylene
- CH_2Cl_2
- M = 84,93 g/mol
- CAS [75-09-2]
- EINECS-No.: 200-838-9
- Density: 1,32 g/cm³
- Solub. in water: (20 °C): 20 g/l
- Melting point: ~ -95 °C
- Boiling point: 40 °C
- Ignition temp.: 605 °C
- Vapour pressure: (20 °C) 475 hPa
- Dielectric const.: (20 °C) 9,1
- LD 50 (oral, rat): 1600 mg/kg
- EC-Index-No.: 602-004-00-3
- ADR: 6.1 T1 III UN 1593
- IMDG: 6.1 III UN 1593
- IATA/ICAO: 6.1 III UN 1593
- GHS-signal word: Warning
- GHS-H sentences: H351
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2903 12 00 00
- Applications: solvents, analytical chemistry.

CL0329 Dichloromethane, synthesis grade, stabilized with approx. 50 ppm of amylene

assay (G.C.) min. 99,8 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL03291000	1 l	0	CL0329025L	25 l	0
CL03292500	2,5 l	0	CL0329025P	25 l	0
CL0329005P	5 l	0	CL0329200E	200 l	0
CL0329025B	25 l	0			

CL0331 Dichloromethane, extra pure, stabilized with approx. 50 ppm of amylene, Pharpur®, Ph Eur, BP, NF

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,02 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CL03311000	1 l	0	CL0331007E	7 l	0
CL03312500	2,5 l	0	CL0331025A	25 l	0
CL0331005L	5 l	0	CL0331025B	25 l	0
CL0331005P	5 l	0			

CL0332 Dichloromethane, reagent grade, stabilized with ethanol

assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,0005 %
 water (K.F.) max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL03321000	1 l	0	CL0332007E	7 l	0
CL03322500	2,5 l	0	CL0332025B	25 l	0

CL0342 Dichloromethane, reagent grade, ACS, ISO, Reag. Ph Eur, stabilized with approx. 50 ppm of amylene

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL03421000	1 l	0	CL0342025A	25 l	0
CL03422500	2,5 l	0	CL0342025B	25 l	0
CL0342005P	5 l	0	CL0342025P	25 l	0
CL0342007E	7 l	0			

CL0338 Dichloromethane, dried (max. 0,005% H₂O), reagent grade, stabilized with approx. 50 ppm of amylene

assay (G.C.) min. 99,9 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CL03381000	1 l	0	CL03382500	2,5 l	0

CL0347 Dichloromethane, stabilized with approx. 50 ppm of amylene, Multisolvent® HPLC grade ACS ISO UV-VIS

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,01 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength: T(%) A (AU)
 235 nm. 20 % 0,699 AU
 240 nm. 50 % 0,301 AU
 245 nm. 80 % 0,097 AU
 248 nm. 90 % 0,046 AU

255 nm. 98 % 0,009 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
CL03471000	1 l	0
CL03472500	2,5 l	0
CL03474000	4 l	0
CL0347007E	7 l	0
CL0347020S	20 l	0
CL0347025B	25 l	0

CL0335 Dichloromethane, HPLC grade, stabilized with ethanol

assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,0003 %
 water (K.F.) max. 0,01 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength: T(%) A (AU)
 235 nm. 20 % 0,699 AU
 238 nm. 50 % 0,301 AU
 247 nm. 90 % 0,046 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
CL03351000	1 l	0
CL03352500	2,5 l	0

CL0340 Dichloromethane, for GC residue analysis, stabilized with ethanol

assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,02 %
 Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container	Art. No.	Volume	Container
CL03401000	1 l	0	CL0340007E	7 l	0
CL03402500	2,5 l	0			

CL0345 Dichloromethane, for GC residue analysis, stabilized with approx. 50 ppm of amylene

assay (G.C.)min.99,9 % Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

residue on evaporationmax. 0,0001 %

water (K.F.)max. 0,02 %

Art. No.	Volume	Container
CL03451000	1 l	0
CL03452500	2,5 l	0

CL0341 Dichloromethane, GC ultra-trace analysis grade, stabilized with ethanol

assay (G.C.)min. 99,8 % Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

residue on evaporationmax. 0,0001 %

water (K.F.)max. 0,02 %

Art. No.	Volume	Container
CL03411000	1 l	0
CL03412500	2,5 l	0

CL0349 Dichloromethane, 99,9%, anhydrous (max. 0,003% H₂O), stabilized with approx. 50 ppm of amylene

assay (G.C.)min. 99,9 %

water (K.F.)max. 0,003 %

Art. No.	Volume	Container
CL03490100	100 ml	0
CL03490500	500 ml	0

Art. No.	Volume	Container
CL03491000	1 l	0

CL0350 Dichloromethane, 99,9%, anhydrous (max. 0,003% H₂O), with molecular sieves

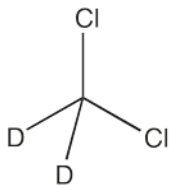
assay (G.C.)min. 99,9 %

water (K.F.)max. 0,003 %

Art. No.	Volume	Container
CL03501000	1 l	0

Dichloromethane-d₂

CL0337 Dichloromethane-d₂, deuteration degree min. 99,5%, NMR spectroscopy grade, Spectrosol®



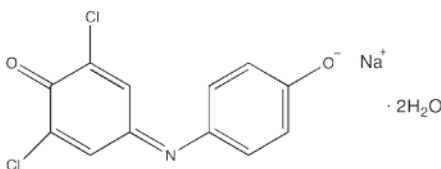
- Synonyms: Methylene chloride-d₂, Dideuteromethylene chloride, Dideuterodichloromethane
- CCl₂D₂
- M = 86,95 g/mol
- CAS [1665-00-5]
- EINECS-No.: 216-776-0
- Density: 1,36 g/cm³
- Solub. in water: (20 °C): 20 g/l
- Melting point: -97 °C
- Boiling point: 39 °C
- Ignition temp.: 605 °C
- Vapour pressure: (20°C) ~ 450 hPa
- LD 50 (oral, rat): 1600 mg/kg
- EC-Index-No.: 602-004-00-3
- ADR: 6.1 T1 III UN 1593

- IMDG: 6.1 III UN 1593
- IATA/ICAO: 6.1 III UN 1593
- GHS-signal word: Warning
- GHS-H sentences: H351
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
CL03370010	10 ml	0
CL0337.750	x10x0,75ml	0

2,6-Dichlorophenol-indophenol, sodium salt dihydrate

DI0415 2,6-Dichlorophenol-indophenol, sodium salt dihydrate, indicator, reagent grade, ACS

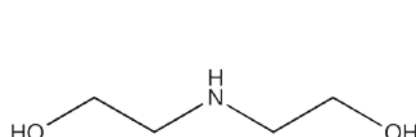


- Synonyms: 2,6-Dichloroindophenol sodium, 2,6-Dichloro-1,4-benzoquinone-4-(4-hydroxyanil) sodium
- C₁₂H₈Cl₂NNaO₂ · 2H₂O
- M = 326,11 g/mol
- CAS [620-45-1]
- EINECS-No.: 210-640-4
- Solub. in water: (20 °C): slightly soluble
- Tariff number: 2925 29 00 90
- Applications: analytical chemistry, indicator.

assay (titration with HClO₄, referred to dried sample)min. 98 %

Art. No.	Volume	Container
DI04150005	5 g	0
DI04150025	25 g	0

Diethanolamine



- Synonyms: 2,2'-Iminodiethanol, Bis(β-hydroxyethyl) amine, 2,2'-Dihydroxydiethylamine
- C₄H₁₁NO₂
- M = 105,14 g/mol
- CAS [111-42-2]
- EINECS-No.: 203-868-0
- Density: 1,09 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 28 °C
- Boiling point: 269 - 271 °C
- Flash pt. 177 °C
- Ignition temp.: 370 °C

- Vapour pressure: (20 °C) < 0,01 hPa
- LD 50 (oral, rat): 676 mg/kg
- EC-Index-No.: 603-071-00-1
- GHS-signal word: Danger
- GHS-H sentences: H318 - H373 - H302 - H315
- GHS-P sentences: P260 - P280 - P305 + P351 + P338 - P310 - P321 - P501a
- Tariff number: 2922 12 00 00
- Applications: analytical chemistry, in the rubber industry, cosmetics, for pharmaceuticals synthesizing, in lubricant compositions (in the textile industry), synthesis of organic products, herbicide.

DI0470 Diethanolamine, synthesis grade

assay (acidimetric)min. 98 %

Art. No.	Volume	Container
DI04701000	1 l	0
DI04702500	2,5 l	0

Art. No.	Volume	Container
DI047005P	5 l	0

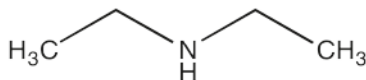
DI0472 Diethanolamine, extra pure, Pharmpur®, NF



assay (acidimetric, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
DI04720250	250 ml	0	DI0472005P	5 l	0
DI04721000	1 l	0	DI0472025P	25 l	0

Diethylamine



- Synonyms: N-Ethylethanamine
- C₄H₁₁N
- M = 73,14 g/mol
- CAS [109-89-7]
- EINECS-No.: 203-716-3
- Density: 0,71 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -48 °C
- Boiling point: 56 °C
- Flash pt. -23 °C
- Ignition temp.: 310 °C
- Vapour pressure: (20 °C) 260 hPa
- Refraction index: (n 20 °C/D) 1,3861
- LD 50 (oral, rat): 540 mg/kg

- EC-Index-No.: 612-003-00-X
- ADR: 3 FC II UN 1154
- IMDG: 3 II UN 1154
- IATA/ICAO: 3 II UN 1154
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - H302 - H312 - H332
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 19 50 00
- Applications: analytical chemistry, synthesis of organic products, in the rubber industry, for pharmaceuticals synthesizing, manufacture of dyes, resins, in the petroleum industry.

DI0485 Diethylamine, extra pure



assay (G.C.) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI04851000	1 l	0	DI0485005P	5 l	0
DI04852500	2,5 l	0	DI0485025P	25 l	0

DI0486 Diethylamine, reagent grade, ACS, Reag. Ph Eur

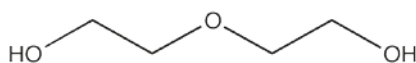


assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI04860250	250 ml	0	DI0486025P	25 l	0
DI04861000	1 l	0			

Diethylene glycol

DI0562 Diethylene glycol, synthesis grade



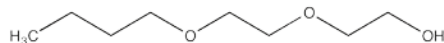
- Synonyms: 2,2'-Oxydiethanol, 2,2'-Dihydroxydiethyl ether, Diglycol
- C₄H₁₀O₃
- M = 106,12 g/mol
- CAS [111-46-6]
- EINECS-No.: 203-872-2
- Density: 1,12 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -10 °C
- Boiling point: 244 - 252 °C
- Flash pt. > 135 °C
- Ignition temp.: ~ 230 °C
- Vapour pressure: (20 °C) 0,013 hPa
- Refraction index: (n 20 °C/D) 1,4475
- Dielectric const.: (20 °C) 32
- LD 50 (oral, rat): 12565 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2909 41 00 00
- Applications: analytical chemistry, synthesis of organic products, in antifreeze compositions, solvents.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
DI05621000	1 l	0
DI05622500	2,5 l	0
DI0562005P	5 l	0

Diethylene glycol monobutyl ether



- Synonyms: Butyl diglycol, 2-(2-Butoxyethoxy)ethanol, Butyl carbitol
- C₈H₁₈O₃
- M = 162,23 g/mol
- CAS [112-34-5]
- EINECS-No.: 203-961-6
- Density: 0,95 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -68 °C
- Boiling point: 226 - 234 °C
- Flash pt. 105 °C
- Ignition temp.: 225 °C

- Vapour pressure: (20 °C) 0,1 hPa
- Refraction index: (n 20 °C/D) 1,4316
- Dielectric const.: (20 °C) 9,7
- LD 50 (oral, rat): 5660 mg/kg
- EC-Index-No.: 603-096-00-8
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2909 43 00 00
- Applications: synthesis of organic products, solvents.

DI0572 Diethylene glycol monobutyl ether, synthesis grade



assay (G.C.) min. 99 %
water (K.F.) max. 0,2 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI05721000	1 l	0	DI0572005P	5 l	0

DI0573 Diethylene glycol monobutyl ether, reagent grade

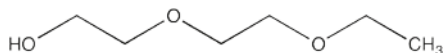


assay (G.C.) min. 99 %
water (K.F.) max. 0,03 %

Art. No.	Volume	Container
DI05731000	1 l	0

Diethylene glycol monoethyl ether

DI0580 Diethylene glycol monoethyl ether, synthesis grade



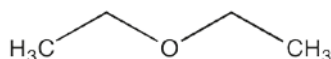
- Synonyms: Ethyl diglycol, 2-(2-Ethoxyethoxy)-ethanol, Carbitol
- $C_6H_{14}O_3$
- $M = 134,18 \text{ g/mol}$
- CAS [111-90-0]
- EINECS-No.: 203-919-7
- Density: $0,99 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: -80 °C
- Boiling point: 207 °C
- Flash pt. 94 °C
- Ignition temp.: 190 °C
- Vapour pressure: (20 °C) $0,13 \text{ hPa}$

- Refraction index: (n 20 °C/D) 1,427
- Dielectric const.: (20 °C) 12,6
- LD 50 (oral, rat): 8690 mg/kg
- Tariff number: 2909 44 00 90
- Applications: synthesis of organic products, solvents.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
DI05801000	1 l	Ø
DI0580005P	5 l	Ø

Diethyl ether



- Synonyms: Ethyl ether, Ethyl oxide, Ether
- $C_4H_{10}O$
- $M = 74,12 \text{ g/mol}$
- CAS [60-29-7]
- EINECS-No.: 200-467-2
- Density: $0,71 \text{ g/cm}^3$
- Solub. in water: (20 °C): 69 g/l
- Melting point: $-116,3 \text{ °C}$
- Boiling point: $34,6 \text{ °C}$
- Flash pt. -40 °C
- Ignition temp.: 170 °C
- Vapour pressure: (20 °C) 587 hPa
- Dielectric const.: (20 °C) 4,3
- LD 50 (oral, rat): 1215 mg/kg

- EC-Index-No.: 603-022-00-4
- ADR: 3 F1 | UN 1155
- IMDG: 3 | UN 1155
- IATA/ICAO: 3 | UN 1155
- GHS-signal word: Danger
- GHS-H sentences: H224 - EUH019 - H302 - H336 - EUH066
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2909 11 00 00
- Applications: solvents, synthesis of organic products, solvent for active principles from plant and animal tissues extractions.

ET0077 Diethyl ether, synthesis grade, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00771000	1 l	Ø	ET0077025L	25 l	Ø
ET00772500	2,5 l	Ø	ET0077025S	25 l	Ø
ET0077005M	5 l	Ø	ET0077200E	200 l	Ø
ET0077007E	7 l	Ø			

ET0078 Diethyl ether, extra pure, Ph Eur, BP, Pharmed®[®], stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,002 %
water (K.F.)max. 0,05 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00781000	1 l	Ø	ET0078025A	25 l	Ø
ET00782500	2,5 l	Ø	ET0078025S	25 l	Ø
ET0078005M	5 l	Ø	ET0078200L	200 l	Ø
ET0078007E	7 l	Ø			

ET0079 Diethyl ether, reagent grade, ACS, ISO, Reag. Ph Eur, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.)min. 99,9 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00791000	1 l	Ø	ET0079025A	25 l	Ø
ET00792500	2,5 l	Ø	ET0079025S	25 l	Ø
ET0079005M	5 l	Ø	ET0079200L	200 l	Ø
ET0079007E	7 l	Ø			

ET0080 Diethyl ether, dried (max. 0,0075% H₂O), reagent grade, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

assay (G.C.)min. 99,5 %
water (K.F.)max. 0,0075 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00801000	1 l	Ø	ET00802500	2,5 l	Ø

ET0082 Diethyl ether, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT), Multisolvent® ACS ISO



assay (G.C.)min. 99,7 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,03 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00821000	1 l	Ø	ET0082007E	7 l	Ø
ET00822500	2,5 l	Ø	ET0082020S	20 l	Ø
ET00824000	4 l	Ø	ET0082025S	25 l	Ø

ET0083 Diethyl ether, 99,7%, anhydrous (max. 0,005% H₂O), stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

assay (G.C.)min. 99,7 %
water (K.F.)max. 0,005 %

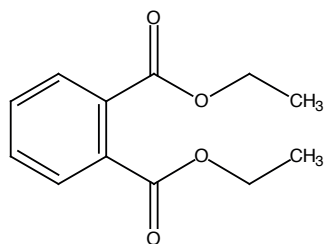
Art. No.	Volume	Container	Art. No.	Volume	Container
ET00830100	100 ml	Ø	ET00831000	1 l	Ø
ET00830500	500 ml	Ø			

ET0074 Diethyl ether, 99,5%, anhydrous (max. 0,005% H₂O), with molecular sieves, stabilized with approx. 7 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)

 assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
ET00741000	1 l	0

Diethyl phthalate

FT0045 Diethyl phthalate, synthesis grade


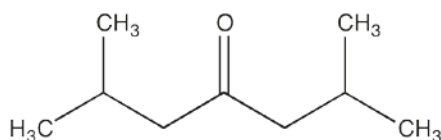
- Synonyms: Ethyl phthalate, DEP, Phthalic acid diethyl ester
- C₁₂H₁₄O₄
- M = 222,24 g/mol
- CAS [84-66-2]
- EINECS-No.: 201-550-6
- Density: 1,12 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: -3 °C
- Boiling point: 296 - 298 °C
- Flash pt. 156 °C
- Ignition temp.: 430 °C
- Vapour pressure: (20 °C) 0,002 hPa

- Refraction index: (n 20 °C/D) 1,5022
- LD 50 (oral, rat): 8200 mg/kg
- Tariff number: 2917 34 00 90
- Applications: analytical chemistry, perfumery, synthesis of organic products.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
FT00451000	1 l	0
FT00452500	2,5 l	0

Diisobutyl ketone

DI0810 Diisobutyl ketone, extra pure


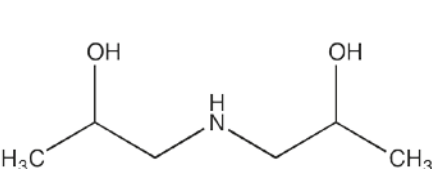
- Synonyms: 2,6-Dimethyl-4-heptanone, Isobutyl ketone
- C₉H₁₈O
- M = 142,24 g/mol
- CAS [108-83-8]
- EINECS-No.: 203-620-1
- Density: 0,81 g/cm³
- Solub. in water: (20 °C): 0,5 g/l
- Melting point: -46 °C
- Boiling point: 168 °C
- Flash pt. 49 °C
- Ignition temp.: 345 °C
- Vapour pressure: (20 °C) 2,6 hPa
- Refraction index: (n 20 °C/D) 1,4143
- LD 50 (oral, rat): 5750 mg/kg
- EC-Index-No.: 606-005-00-X
- ADR: 3 F1 III UN 1157

- IMDG: 3 III UN 1157
- IATA/ICAO: 3 III UN 1157
- GHS-signal word: Warning
- GHS-H sentences: H226 - H335
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2914 19 90 90
- Applications: analytical chemistry, synthesis of organic products.

total isomer content (G.C.) min. 98 %

Art. No.	Volume	Container
DI08101000	1 l	0
DI08102500	2,5 l	0
DI0810200L	200 l	0

Diisopropanolamine



- Synonyms: 1,1-Iminodi-2-propanol, Bis(2-hydroxypropyl)amine
- C₆H₁₅NO₂
- M = 133,19 g/mol
- CAS [110-97-4]
- EINECS-No.: 203-820-9
- Density: 0,99 g/cm³
- Solub. in water: (20 °C): 870 g/l
- Melting point: 36 - 42 °C
- Boiling point: 249 °C
- Flash pt. 130 °C
- Ignition temp.: 290 °C

- Vapour pressure: (20 °C) 0,02 hPa
- Refraction index: (n 16 °C/D) 1,4702
- LD 50 (oral, rat): 6720 mg/kg
- EC-Index-No.: 603-083-00-7
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2922 19 80 90
- Applications: synthesis of organic products, for pharmaceuticals synthesizing.

DI0825 Diisopropanolamine, synthesis grade


assay (G.C.) min. 98 %

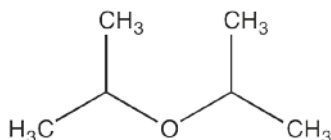
Art. No.	Volume	Container	Art. No.	Volume	Container
DI08251000	1 kg	0	DI0825025P	25 kg	0

DI0827 Diisopropanolamine, extra pure, Pharmpur®, NF


assay (acidimetric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI08271000	1 kg	0	DI0827025P	25 kg	0

Diisopropyl ether



- Synonyms: Isopropyl ether, 2,2'-Oxybis[propane], 2,2-Propoxypropane
- $C_6H_{14}O$
- $M = 102,18 \text{ g/mol}$
- CAS [108-20-3]
- EINECS-No.: 203-560-6
- Density: $0,72 \text{ g/cm}^3$
- Solub. in water: (20 °C): 12 g/l
- Melting point: -86 °C
- Boiling point: $67 - 70 \text{ °C}$
- Flash pt. -28 °C
- Ignition temp.: 405 °C
- Vapour pressure: (20 °C) 175 hPa
- Dielectric const.: (25 °C) 3,8
- LD 50 (oral, rat): 8470 mg/kg
- EC-Index-No.: 603-045-00-X [2]
- ADR: 3 F1 II UN 1159
- IMDG: 3 II UN 1159
- IATA/ICA: 3 II UN 1159
- GHS-signal word: Danger
- GHS-H sentences: H225 - EUH019 - H336 - EUH066
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2909 19 00 90
- Applications: analytical chemistry, solvents.

ET0085 Diisopropyl ether, synthesis grade, stabilized with approx. 10 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00851000	1 l	0	ET00852500	2,5 l	0

ET0086 Diisopropyl ether, extra pure, stabilized with approx. 10 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)


 assay (G.C.)min. 99 %
 residue on evaporationmax. 0,005 %
 water (K.F.)max. 0,05 %

Art. No.	Volume	Container
ET00861000	1 l	0

ET0087 Diisopropyl ether, reagent grade, ACS, stabilized with approx. 50 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.)min. 99,5 %

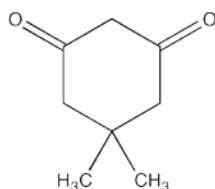
Art. No.	Volume	Container	Art. No.	Volume	Container
ET00871000	1 l	0	ET0087025A	25 l	0
ET00872500	2,5 l	0			

ET0089 Diisopropyl ether, 99,5%, anhydrous (max. 0,005% H₂O), stabilized with approx. 10 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)
 assay (G.C.)min. 99,5 %
 water (K.F.)max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00890100	100 ml	0	ET00891000	1 l	0
ET00890500	500 ml	0			

Dimedone

DI0840 Dimedone, reagent grade (reagent for aldehydes)

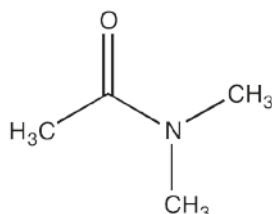


- Synonyms: 5,5-Dimethyl-1,3-cyclohexanedione, 5,5-Dimethyldihydroresorcinol, 5,5-Dimethyl-1,3-dioxocyclohexane, Methone
- $C_8H_{12}O_2$
- $M = 140,18 \text{ g/mol}$
- CAS [126-81-8]
- EINECS-No.: 204-804-4
- Solub. in water: (25 °C): 4,01 g/l
- Melting point: $148 - 150 \text{ °C}$ (decomposes)
- Tariff number: 2914 29 00 90
- Applications: Separation and identification of: aldehydes; synthesis of organic products, analytical chemistry.

assay (acidimetric, on dried sample)min. 99,5 %

Art. No.	Volume	Container
DI08400025	25 g	0

N,N-Dimethylacetamide



- Synonyms: Acetic acid dimethylamide
- C_4H_9NO
- $M = 87,12 \text{ g/mol}$
- CAS [127-19-5]
- EINECS-No.: 204-826-4
- Density: $0,94 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: -20 °C
- Boiling point: $165 - 166 \text{ °C}$
- Flash pt. 70 °C
- Ignition temp.: 320 °C
- Vapour pressure: (20 °C) 1,76 hPa
- Refraction index: (n 20 °C/D) 1,4230
- Dielectric const.: (25 °C) 37,8
- LD 50 (oral, rat): 4300 mg/kg
- EC-Index-No.: 616-011-00-4
- GHS-signal word: Danger
- GHS-H sentences: H360D - H312 - H332
- GHS-P sentences: P261 - P280 - P281 - P322 - P405 - P501a
- Tariff number: 2924 19 00 90
- Applications: laboratory reagent, solvents (synthesis of organic products).

DI0855 N,N-Dimethylacetamide, synthesis grade



assay (G.C.)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI08551000	1 l	0	DI0855005P	5 l	0
DI08552500	2,5 l	0	DI0855200L	200 l	0

DI0856 N,N-Dimethylacetamide, reagent grade


 assay (G.C.)min. 99,5 %
 residue on evaporationmax. 0,0005 %
 water (K.F.)max. 0,05 %

Art. No.	Volume	Container
DI08561000	1 l	0

DI0860 N,N-Dimethylacetamide, HPLC grade



assay (G.C.) min. 99,8 %
residue on evaporation max. 0,0002 %
water (K.F.) max. 0,05 %

min. transmission/max. absorbance
wavelength: T(%) A (AU)
275 nm. 20 % 0,699 AU
285 nm. 50 % 0,301 AU
310 nm. 90 % 0,046 AU
Microfiltered through membranes of pore diameter
0,22µm

Art. No.	Volume	Container
DI08601000	1 l	0
DI08602500	2,5 l	0

DI0862 N,N-Dimethylacetamide, GC head space grade



assay (G.C.) min. 99,99 %
water (K.F.) max. 0,03 %
Packed under inert gas
Suitable for residual solvents analysis

Art. No.	Volume	Container
DI08621000	1 l	0

Art. No.	Volume	Container
DI08622500	2,5 l	0

DI0861 N,N-Dimethylacetamide, 99,5%, anhydrous (max. 0,005% H₂O)

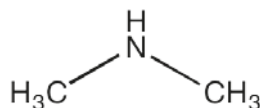


assay (G.C.) min. 99,5 %
water (K.F.) max. 0,005 %

Art. No.	Volume	Container
DI08610100	100 ml	0

Dimethylamine, solution 40%

DI0870 Dimethylamine, solution 40% in water, w/w, synthesis grade



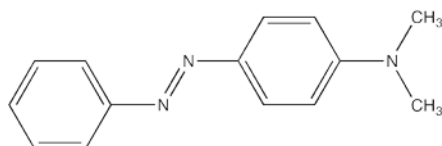
- Synonyms: N-Methylmethanamine
- C₂H₇N
- M = 45,09 g/mol
- CAS [124-40-3]
- EINECS-No.: 204-697-4
- Density: 0,89 g/cm³
- Melting point: -37 °C
- Boiling point: 54 °C
- Flash pt. -18 °C
- Ignition temp.: 415 °C
- Vapour pressure: (20 °C) 263 hPa
- Refraction index: (n 20 °C/D) 1,3700
- LD 50 (oral, rat): 698 mg/kg (pure substance)
- EC-Index-No.: 612-001-00-9
- ADR: 3 FC II UN 1160

- IMDG: 3 II UN 1160
- IATA/ICAO: 3 II UN 1160
- GHS-signal word: Danger
- GHS-H sentences: H225 - H318 - H335 - H315
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 11 00 00
- Applications: analytical chemistry, in the rubber industry, cosmetics, detergent, laboratory reagent (magnesium).
- Appearance: Colourless clear liquid

Art. No.	Volume	Container
DI08701000	1 l	0

4-(Dimethylamino)-azobenzene

DI0900 4-(Dimethylamino)-azobenzene, reagent grade

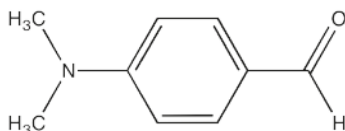


- Synonyms: Methyl yellow, Dimethyl yellow, Solvent yellow 2
- C₁₆H₁₅N₃
- M = 225,30 g/mol
- CAS [60-11-7]
- EINECS-No.: 200-455-7
- Solub. in water: (20 °C): almost insoluble
- Melting point: 113 - 117 °C
- LD 50 (oral, rat): 200 mg/kg
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811

- GHS-signal word: Danger
- GHS-H sentences: H301 - H351 - H317
- GHS-P sentences: P261 - P280 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2927 00 00 90
- Applications: indicator, analytical chemistry.
- Appearance: Orange-orange brown powder

Art. No.	Volume	Container
DI09000010	10 g	0
DI09000100	100 g	0

4-(Dimethylamino)-benzaldehyde



- Synonyms: p-Formyldimethylaniline, Ehrlich's reagent
- C₉H₁₁NO
- M = 149,19 g/mol
- CAS [100-10-7]
- EINECS-No.: 202-819-0
- Solub. in water: (20 °C): 0,3 g/l
- Melting point: 72 - 75 °C
- Boiling point: (23 hPa) 176 - 177 °C
- Flash pt. > 100 °C

- LD 50 (oral, rat): > 6400 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2922 39 00 90
- Applications: analytical chemistry, manufacture of dyes and for pharmaceuticals synthesizing.

DI0935 4-(Dimethylamino)-benzaldehyde, synthesis grade



assay (G.C.) min. 98 %

Art. No.	Volume	Container
DI09350100	100 g	0

Art. No.	Volume	Container
DI09350250	250 g	0

DI0937 4-(Dimethylamino)-benzaldehyde, reagent grade, ACS



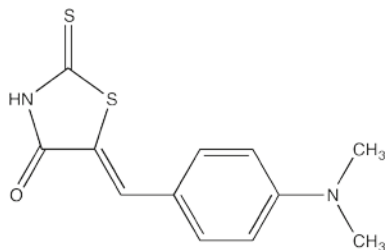
assay (G.C.) min. 99 %

Art. No.	Volume	Container
DI09370025	25 g	0

Art. No.	Volume	Container
DI09370100	100 g	0

5-(4-Dimethylaminobenzylidene)-rhodanine

DI0920 5-(4-Dimethylaminobenzylidene)-rhodanine, reagent grade

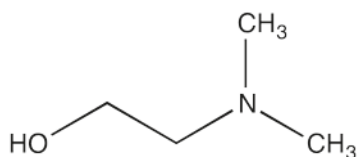


- Synonyms: p-Dimethylaminobenzalrhodanine
- $C_{12}H_{12}N_2OS_2$
- $M = 264,37$ g/mol
- CAS [536-17-4]
- EINECS-No.: 208-625-2
- Solub. in water: (20 °C): almost insoluble
- Tariff number: 2934 10 00 90
- Applications: for the detection of: metals.
- assay min. 98 %

Art. No.	Volume	Container
DI09200005	5 g	0

2-(Dimethylamino)-ethanol

DI0950 2-(Dimethylamino)-ethanol, synthesis grade



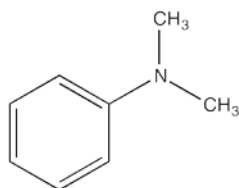
- Synonyms: N,N-Dimethylethanolamine
- $C_4H_{11}NO$
- $M = 89,14$ g/mol
- CAS [108-01-0]
- EINECS-No.: 203-542-8
- Density: 0,89 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: < -70 °C
- Boiling point: 132 - 135 °C
- Flash pt. 39 °C
- Ignition temp.: 220 °C
- Vapour pressure: (20 °C) 5,6 hPa
- Refraction index: (n 20 °C/D) 1,4294
- LD 50 (oral, rat): 1180 mg/kg
- EC-Index-No.: 603-047-00-0
- ADR: 8 CF1 II UN 2051
- IMDG: 8 II UN 2051

- IATA/ICAO: 8 II UN 2051
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226 - H302 - H312 - H332
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2922 19 80 90
- Applications: synthesis of organic products, laboratory reagent.
- Appearance: Colourless liquid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
DI09501000	1 l	0

N,N-Dimethylaniline



- Synonyms: Dimethylaminobenzene
- $C_8H_{11}N$
- $M = 121,18$ g/mol
- CAS [121-69-7]
- EINECS-No.: 204-493-5
- Density: 0,96 g/cm³
- Solub. in water: (20 °C): 1,2 g/l
- Melting point: 2,45 °C
- Boiling point: 194,2 °C
- Flash pt. 63 °C
- Ignition temp.: 370 °C
- Vapour pressure: (20 °C) 0,53 hPa
- Refraction index: (n 20°/D) 1,5581
- LD 50 (oral, rat): 1120 mg/kg

- EC-Index-No.: 612-016-00-0
- ADR: 6.1 T1 II UN 2253
- IMDG: 6.1 II UN 2253
- IATA/ICAO: 6.1 II UN 2253
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H226 - H351 - H411
- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P361 - P405 - P501a
- Tariff number: 2921 42 90 00
- Applications: synthesis of organic products, solvents, manufacture of dyes, laboratory reagent, in food industry.

DI0972 N,N-Dimethylaniline, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container
DI09721000	1 l	0

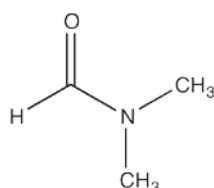
DI0975 N,N-Dimethylaniline, reagent grade



assay (G.C.)min. 99 %
water (K.F.)max. 0,1 %

Art. No.	Volume	Container
DI09750250	250 ml	0
DI09751000	1 l	0

N,N-Dimethylformamide



- Synonyms: DMF, Formic acid dimethylamide
- C_3H_7NO
- $M = 73,10$ g/mol
- CAS [68-12-2]
- EINECS-No.: 200-679-5
- Density: 0,94 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -61 °C
- Boiling point: 153 °C
- Flash pt. 58 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20 °C) 3,77 hPa
- Refraction index: (n 20 °C/D) 1,4305

- Dielectric const.: (20 °C) 36,7
- LD 50 (oral, rat): 2800 mg/kg
- EC-Index-No.: 616-001-00-X
- ADR: 3 F1 III UN 2265
- IMDG: 3 III UN 2265
- IATA/ICAO: 3 III UN 2265
- GHS-signal word: Danger
- GHS-H sentences: H360D - H226 - H312 - H332 - H319
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2924 19 00 90
- Applications: solvents, synthesis of organic products.

DI1061 N,N-Dimethylformamide, synthesis grade


assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI10611000	1 l	Ø	DI1061005P	5 l	Ø
DI10612500	2,5 l	Ø	DI1061025P	25 l	Ø

DI1062 N,N-Dimethylformamide, extra pure

 assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,2 %

Art. No.	Volume	Container
DI10621000	1 l	Ø
DI10622500	2,5 l	Ø
DI1062005P	5 l	Ø
DI1062025A	25 l	Ø

DI1065 N,N-Dimethylformamide, reagent grade, ACS, ISO, Reag. Ph Eur

 assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,1 %

Art. No.	Volume	Container
DI10651000	1 l	Ø
DI10652500	2,5 l	Ø
DI1065005P	5 l	Ø
DI1065025A	25 l	Ø

DI1071 N,N-Dimethylformamide, dried (max. 0,01% H₂O), reagent grade

 assay (G.C.) min. 99,8 %
 water (K.F.) max. 0,01 %

Art. No.	Volume	Container
DI10711000	1 l	Ø

DI1072 N,N-Dimethylformamide, Multisolvant® HPLC grade ACS ISO UV-VIS

 assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,05 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 T(%) A (AU)
 268 nm. 15 % 0,824 AU
 275 nm. 50 % 0,301 AU
 290 nm. 80 % 0,097 AU
 300 nm. 90 % 0,046 AU
 330 nm. 98 % 0,009 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
DI10721000	1 l	Ø
DI10722500	2,5 l	Ø
DI10724000	4 l	Ø
DI1072020S	20 l	Ø
DI1072025S	25 l	Ø

DI1068 N,N-Dimethylformamide, for GC residue analysis

 assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,05 %
 Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container
DI10681000	1 l	Ø
DI10682500	2,5 l	Ø

DI1074 N,N-Dimethylformamide, GC head space grade

 assay (G.C.) min. 99,99 %
 water (K.F.) max. 0,03 %
 Packed under inert gas
 Suitable for residual solvents analysis

Art. No.	Volume	Container
DI10741000	1 l	Ø
DI10742500	2,5 l	Ø

DI1063 N,N-Dimethylformamide, 99,8%, anhydrous (max. 0,005% H₂O)

 assay (G.C.) min. 99,8 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
DI10630100	100 ml	Ø
DI10630500	500 ml	Ø
DI10631000	1 l	Ø

DI1073 N,N-Dimethylformamide, 99,5%, anhydrous (max. 0,005% H₂O), with molecular sieves

 assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
DI10731000	1 l	Ø

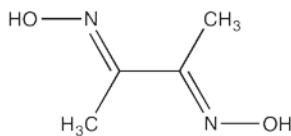
DI1070 N,N-Dimethylformamide, peptide synthesis grade


Art. No.	Volume	Container
DI10701000	1 l	Ø
DI10702500	2,5 l	Ø

 A
B
C
D
E
F
G
H
I
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Dimethylglyoxime

DI1080 Dimethylglyoxime, reagent grade, ACS



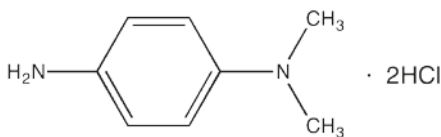
- Synonyms: 2,3-Butanedionedioxime, Diacetyldioxime
- $C_4H_8N_2O_2$
- $M = 116,12 \text{ g/mol}$
- CAS [95-45-4]
- EINECS-No.: 202-420-1
- Solub. in water: (20 °C): almost insoluble
- Melting point: 240 - 241 °C
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a

- Tariff number: 2928 00 90 90
- Applications: analytical chemistry, synthesis of organic products, for spectrophotometric determinations, for determination of: nickel.

assay (gravimetric)min. 99 %

Art. No.	Volume	Container
DI10800100	100 g	⊘
DI10800500	500 g	⊘
DI10801000	1 kg	⊘

N,N-Dimethyl-p-phenylenediamine dihydrochloride



- Synonyms: 4-Amino-N,N-dimethylaniline dihydrochloride, Oxidase reagent
- $C_8H_{12}N_2 \cdot 2HCl$
- $M = 209,12 \text{ g/mol}$
- CAS [536-46-9]
- EINECS-No.: 208-635-7
- Solub. in water: (20 °C): soluble
- Melting point: 208 - 212 °C (decomposes)
- LD 50 (oral, rat): < 90 mg/kg
- ADR: 6.1 T2 II UN 2811

- IMDG: 6.1 II UN 2811
- IATA/ICAO: 6.1 II UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H330
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2921 51 90 00
- Applications: analytical chemistry, laboratory reagent.
- Appearance: White-grey crystalline powder

DI1010 N,N-Dimethyl-p-phenylenediamine dihydrochloride, reagent grade



assay (acidimetric)min. 99,5 %
store below 4 °C

Art. No.	Volume	Container
DI10100025	25 g	⊘

RE0065 N,N-Dimethyl-p-phenylenediamine dihydrochloride, for microbiology, according to Gordon & McLeod

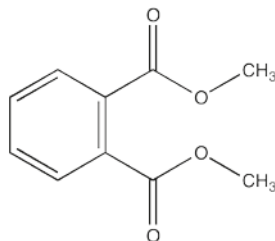


assay (acidimetric)min. 99 %
store below 4 °C

Art. No.	Volume	Container
RE00650005	5 g	⊘

Dimethyl phthalate

FT0055 Dimethyl phthalate, synthesis grade



- Synonyms: Phthalic acid dimethyl ester
- $C_{10}H_{10}O_4$
- $M = 194,19 \text{ g/mol}$
- CAS [131-11-3]
- EINECS-No.: 205-011-6
- Density: 1,19 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 4 - 6 °C
- Boiling point: (5 hPa) 134 - 138 °C
- Flash pt. 150 °C
- Ignition temp.: 556 °C
- Vapour pressure: (20 °C) 0,008 hPa

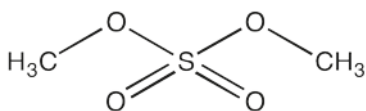
- Refraction index: (n 25°C/D) 1,5137
- LD 50 (oral, rat): 6800 mg/kg
- Tariff number: 2917 34 00 90
- Applications: analytical chemistry, synthesis of organic products, in the cellulose industry, insect repellent.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
FT00551000	1 l	⊘

Dimethyl sulfate

SU0119 Dimethyl sulfate, synthesis grade



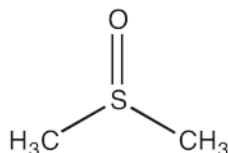
- Synonyms: Sulfuric acid dimethyl ester, Methyl sulfate
- $C_2H_6O_4S$
- $M = 126,13 \text{ g/mol}$
- CAS [77-78-1]
- EINECS-No.: 201-058-1
- Density: 1,33 g/cm³
- Solub. in water: (18 °C): 28 g/l (hydrolysis reaction)
- Melting point: -32 °C
- Boiling point: 188,5 °C (decomposes)
- Flash pt. 83 °C
- Ignition temp.: 188 °C
- Vapour pressure: (30 °C) 0,35 hPa
- Refraction index: (n 20 °C/D) 1,3865
- LD 50 (oral, rat): 205 mg/kg
- EC-Index-No.: 016-023-00-4
- ADR: 6.1 TC1 I UN 1595

- IMDG: 6.1 I UN 1595
- IATA/ICAO: Forbidden
- GHS-signal word: Danger
- GHS-H sentences: H301 - H330 - H350 - H341 - H314 - H317
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P405 - P501a
- Tariff number: 2920 90 10 90
- Applications: analytical chemistry, synthesis of organic products, in biochemistry.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
SU01191000	1 l	⊘

Dimethyl sulfoxide



- Synonyms: DMSO, Sulfinyl bis(methane), Methylsulfoxide, Methylsulfinylmethane
- C_2H_6OS
- $M = 78,13 \text{ g/mol}$
- CAS [67-68-5]
- EINECS-No.: 200-664-3
- Density: $1,10 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: $18,5 \text{ °C}$
- Boiling point: (33 hPa) $85 - 87 \text{ °C}$
- Flash pt. 95 °C
- Ignition temp.: $300 - 302 \text{ °C}$
- Vapour pressure: (20 °C) $0,6 \text{ hPa}$
- Refraction index: (n 20 °C/D) $1,48$
- LD 50 (oral, rat): 14500 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2930 90 99 99
- Applications: analytical chemistry, solvents, synthesis of organic products.

SU0150 Dimethyl sulfoxide, synthesis grade

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
SU01501000	1 l	0	SU0150005P	5 l	0
SU01502500	2,5 l	0	SU0150025P	25 l	0

SU0151 Dimethyl sulfoxide, extra pure, Pharmapur®, Ph Eur, USP

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,01 %
 water (K.F.) max. 0,2 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
SU01511000	1 l	0	SU0151025A	25 l	0
SU01512500	2,5 l	0	SU0151200L	200 l	0
SU0151005P	5 l	0			

SU0153 Dimethyl sulfoxide, reagent grade, ACS

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
SU01531000	1 l	0	SU0153005P	5 l	0
SU01532500	2,5 l	0			

SU0157 Dimethyl sulfoxide, dried (max. 0,01% H₂O), reagent grade

assay (G.C.) min. 99,9 %

Art. No.	Volume	Container	Art. No.	Volume	Container
SU01571000	1 l	0	SU01572500	2,5 l	0

SU0155 Dimethyl sulfoxide, HPLC grade

assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,0003 %
 water (K.F.) max. 0,1 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 T(%) A (AU)
 268 nm. 20 % 0,699 AU
 280 nm. 50 % 0,301 AU
 320 nm. 90 % 0,046 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
SU01551000	1 l	0
SU01552500	2,5 l	0

SU0165 Dimethyl sulfoxide, GC head space grade

assay (G.C.) min. 99,99 %
 water (K.F.) max. 0,04 %
 Packed under inert gas
 Suitable for residual solvents analysis

Art. No.	Volume	Container
SU01651000	1 l	0

SU0152 Dimethyl sulfoxide, 99,9%, anhydrous (max. 0,005% H₂O)

assay (G.C.) min. 99,9 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
SU01520100	100 ml	0	SU01521000	1 l	0
SU01520500	500 ml	0			

SU0158 Dimethyl sulfoxide, 99,5%, anhydrous (max. 0,005% H₂O), with molecular sieves

assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
SU01581000	1 l	0

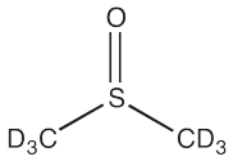
SU0159 Dimethyl sulfoxide, molecular biology grade

assay (G.C.) min. 99,8 %
 DNases, RNases, Proteases non detected

Art. No.	Volume	Container
SU01590250	250 ml	0

Dimethyl sulfoxide-d6

SU0161 Dimethyl sulfoxide-d6, deuteration degree min. 99,8%, NMR spectroscopy grade, Spectrosol®



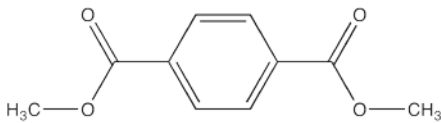
- Synonyms: Methylsulfoxide deuterated, DMSO deuterated, Hexadeuterodimethyl sulfoxide
- C₂D₆OS
- M = 84,17 g/mol
- CAS [2206-27-1]
- EINECS-No.: 218-617-0
- Density: 1,19 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 20,2 °C
- Boiling point: 190 °C
- Flash pt. 88 °C
- Ignition temp.: 270 °C
- Vapour pressure: (20 °C) 2,5 hPa
- Refraction index: (20 °C) 1,48

- LD 50 (oral, rat): 17500 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
SU01610010	10 ml	♻️
SU0161.750	x10x0,75ml	♻️

Dimethyl terephthalate

TE0080 Dimethyl terephthalate, synthesis grade



- Synonyms: DMT, Terephthalic acid dimethyl ester, Dimethyl-1,4-benzenedicarboxylate
- C₁₀H₁₀O₄
- M = 194,19 g/mol
- CAS [120-61-6]
- EINECS-No.: 204-411-8
- Solub. in water: (20 °C): 0,036 g/l
- Melting point: 139 - 141 °C
- Boiling point: 282 °C
- Flash pt. 141 °C
- Ignition temp.: 520 °C
- Vapour pressure: (20 °C) < 1 hPa
- LD 50 (oral, rat): 14400 mg/kg

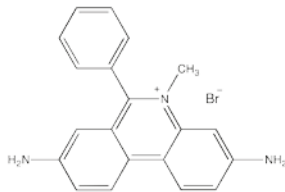
- Tariff number: 2917 37 00 00
- Applications: synthesis of organic products (herbicide), analytical chemistry, manufacture of adhesives, painting, manufacturing of inks, in the textile industry, manufacturing of synthetic resins.
- Appearance: White crystals

assay (G.C.)min. 99 %

Art. No.	Volume	Container
TE00801000	1 kg	♻️

Dimidium bromide

DI1115 Dimidium bromide, for determination of tensioactives



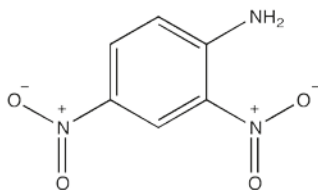
- Synonyms: 3,8-Diamino-5-methyl-6-phenylphenanthridinium bromide
- C₂₀H₁₈BrN₃
- M = 380,30 g/mol
- CAS [518-67-2]
- EINECS-No.: 208-256-7
- Solub. in water: (20 °C): soluble
- Melting point: 242 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2933 99 90 90
- Applications: analytical chemistry, for determination of: tensioactive substances.

Art. No.	Volume	Container
DI11150001	1 g	♻️
DI11150005	5 g	♻️

2,4-Dinitroaniline

DI1155 2,4-Dinitroaniline, extra pure



- Synonyms: 2,4-Dinitrobenzenamine
- C₆H₅N₃O₄
- M = 183,12 g/mol
- CAS [97-02-9]
- EINECS-No.: 202-553-5
- Solub. in water: (20 °C): 1 g/l
- Melting point: 177 - 180 °C
- Flash pt. 224 °C
- Vapour pressure: (20 °C) 13 hPa
- LD 50 (oral, rat): 285 mg/kg
- EC-Index-No.: 612-040-00-1
- ADR: 6.1 T2 II UN 1596
- IMDG: 6.1 II UN 1596
- IATA/ICAO: 6.1 II UN 1596
- GHS-signal word: Danger

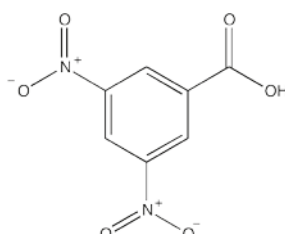
- GHS-H sentences: H300 - H310 - H330 - H373 - H411
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2921 42 10 90
- Applications: synthesis of organic products and manufacture of dyes.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
DI11550025	25 g	♻️
DI11550100	100 g	♻️

3,5-Dinitrobenzoic acid

AC0890 3,5-Dinitrobenzoic acid, synthesis grade



- C₇H₄N₂O₆
- M = 212,12 g/mol
- CAS [99-34-3]
- EINECS-No.: 202-751-1
- Solub. in water: (20 °C): sparingly soluble
- Melting point: 205 - 207 °C
- GHS-signal word: Warning
- GHS-H sentences: H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P304 + P340 - P405 - P501a

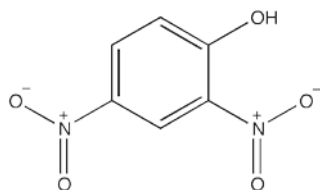
- Tariff number: 2916 39 00 90
- Applications: for the identification of: alcohols, alkyl halides; chromatography, synthesis of organic products.

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
AC08900250	250 g	♻️

2,4-Dinitrophenol

DI1245 2,4-Dinitrophenol, synthesis grade



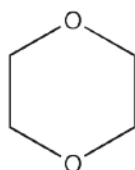
- Synonyms: 1-Hydroxy-2,4-dinitrobenzene, α -Dinitrophenol
- $C_6H_4N_2O_5$
- $M = 184,10$ g/mol
- CAS [51-28-5]
- EINECS-No.: 200-087-7
- Solub. in water: (20 °C): 5,6 g/l
- Melting point: 114 - 115 °C
- LD 50 (oral, rat): 30 mg/kg
- EC-Index-No.: 609-016-00-8
- ADR: 4.1 DT I UN 1320
- IMDG: 4.1 I UN 1320
- IATA/ICAO: 4.1 I UN 1320
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H373 - H400

- GHS-P sentences: P260 - P301 + P310 - P361 - P321 - P405 - P501a
- Tariff number: 2908 90 00 90
- Applications: manufacture of dyes, insecticide, indicator, preservative agent (wood), for the detection of potassium and ammonium.
- Appearance: Yellow-brown solid

assay (G.C., on dried sample) min. 98 %

Art. No.	Volume	Container
DI12450250	250 g	⊘
DI12451000	1 kg	⊘

1,4-Dioxane



- Synonyms: Glycoethylether, 1,4-Diethylene dioxide, 1,4-Dioxacyclohexane
- $C_4H_8O_2$
- $M = 88,11$ g/mol
- CAS [123-91-1]
- EINECS-No.: 204-661-8
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 12 °C
- Boiling point: 101,5 °C
- Flash pt. 11 °C
- Ignition temp.: 300 °C
- Vapour pressure: (20 °C) 41 hPa

- Dielectric const.: (25 °C) 2,2
- LD 50 (oral, rat): 5200 mg/kg
- EC-Index-No.: 603-024-00-5
- ADR: 3 F1 II UN 1165
- IMDG: 3 II UN 1165
- IATA/ICAO: 3 II UN 1165
- GHS-signal word: Danger
- GHS-H sentences: H225 - EUH019 - H351 - H319 - EUH066 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2932 99 00 90
- Applications: solvents, analytical chemistry.

DI1287 1,4-Dioxane, extra pure, stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) min. 99 %
residue on evaporation max. 0,002 %
water (K.F.) max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI12871000	1 l	⊘	DI1287005L	5 l	⊘
DI12872500	2,5 l	⊘	DI1287025A	25 l	⊘

DI1289 1,4-Dioxane, reagent grade, ACS, ISO, Reag. Ph Eur, stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) min. 99,5 %
residue on evaporation max. 0,001 %
water (K.F.) max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI12891000	1 l	⊘	DI1289005L	5 l	⊘
DI12892500	2,5 l	⊘			

DI1290 1,4-Dioxane, dried (max. 0,005% H₂O), reagent grade, stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
DI12901000	1 l	⊘

DI1292 1,4-Dioxane, HPLC grade, stabilized with 1 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) min. 99,8 %
residue on evaporation max. 0,0005 %
water (K.F.) max. 0,02 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
T(%) A (AU)
215 nm. 20 % 0,699 AU
230 nm. 50 % 0,301 AU
275 nm. 90 % 0,046 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
DI12921000	1 l	⊘
DI12922500	2,5 l	⊘

DI1288 1,4-Dioxane, 99,5%, anhydrous (max. 0,005% H₂O), stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



water (K.F.) max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
DI12880100	100 ml	⊘	DI12881000	1 l	⊘
DI12880500	500 ml	⊘			

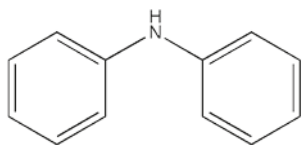
DI1294 1,4-Dioxane, 99%, anhydrous (max. 0,005% H₂O), with molecular sieves, stabilized with 2,5 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) min. 99 %
water (K.F.) max. 0,005 %

Art. No.	Volume	Container
DI12941000	1 l	⊘

Diphenylamine



- Synonyms: N-Phenylbenzeneamine, N-Phenylaniline
- $C_{12}H_{11}N$
- $M = 169,23 \text{ g/mol}$
- CAS [122-39-4]
- EINECS-No.: 204-539-4
- Solub. in water: (25 °C): ~ 0,05 g/l
- Melting point: 53 - 54 °C
- Boiling point: (13,3 hPa) ~ 159 °C
- Flash pt. ~ 153 °C
- Ignition temp.: ~ 630 °C
- Vapour pressure: (20 °C) 0,0003 hPa
- LD 50 (oral, rat): 2000 mg/kg
- EC-Index-No.: 612-026-00-5

- ADR: 6.1 T2 II UN 2811
- IMDG: 6.1 II UN 2811
- IATA/ICAO: 6.1 II UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H373 - H410
- GHS-P sentences: P260 - P301 + P310 - P361 - P321 - P405 - P501a
- Tariff number: 2921 44 00 20
- Applications: analytical chemistry, synthesis of organic products, for determination of: oxidizing agents, manufacture of dyes.
- Appearance: White to light yellow flakes

DI0630 Diphenylamine, synthesis grade

assay (G.C.) min. 99 %

Art. No.	Volume	Container
DI06301000	1 kg	0

DI0633 Diphenylamine, redox indicator, reagent grade, ACS

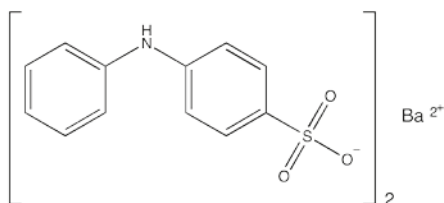
assay (titration with $HClO_4$) min. 99,5 %

Art. No.	Volume	Container
DI06330100	100 g	0

Art. No.	Volume	Container
DI06330250	250 g	0

Diphenylamine-4-sulfonic acid, barium salt

BA0060 Diphenylamine-4-sulfonic acid, barium salt, redox indicator, reagent grade



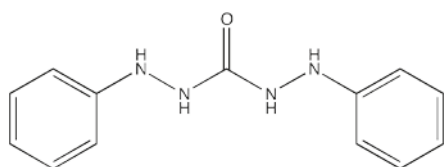
- Synonyms: Bariumdiphenylamine-4-sulfonate, 4-Anilinobenzene sulfonic acid barium salt
- $C_{24}H_{20}BaN_2O_6S_2$
- $M = 633,90 \text{ g/mol}$
- CAS [6211-24-1]
- EINECS-No.: 228-278-0
- Solub. in water: (20 °C): almost insoluble
- EC-Index-No.: 056-002-00-7
- ADR: 6.1 T5 III UN 1564
- IMDG: 6.1 III UN 1564
- IATA/ICAO: 6.1 III UN 1564

- GHS-signal word: Warning
- GHS-H sentences: H302 - H332
- GHS-P sentences: P261 - P264 - P301 + P312 - P304 + P340 - P312 - P501a
- Tariff number: 2921 44 00 90
- Applications: analytical chemistry, indicator, for determination of: nitrates.

Art. No.	Volume	Container
BA00600005	5 g	0

1,5-Diphenylcarbazine

DI0650 1,5-Diphenylcarbazine, reagent grade, ACS



- Synonyms: 1,5-Diphenylcarbazine dihydrazide
- $C_{13}H_{14}N_4O$
- $M = 242,28 \text{ g/mol}$
- CAS [140-22-7]
- EINECS-No.: 205-403-7
- Solub. in water: (20 °C): slightly soluble
- Melting point: 170 - 172 °C
- Tariff number: 2928 00 90 90

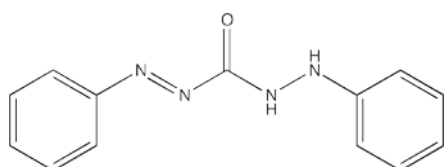
- Applications: analytical chemistry, reagent for metals detection.

assay (HPLC) approx. 98 %

Art. No.	Volume	Container
DI06500025	25 g	0
DI06500100	100 g	0

1,5-Diphenylcarbazone

DI0660 1,5-Diphenylcarbazone, reagent grade



- Synonyms: Phenylidiazene-carboxylic acid 2-phenylhydrazide, Phenylazoformic acid 2-phenylhydrazide
- $C_{13}H_{12}N_4O$
- $M = 240,27 \text{ g/mol}$
- CAS [538-62-5]
- EINECS-No.: 208-698-0
- Solub. in water: (20 °C): insoluble
- Melting point: 153 - 158 °C (decomposes)
- Tariff number: 2928 00 90 90

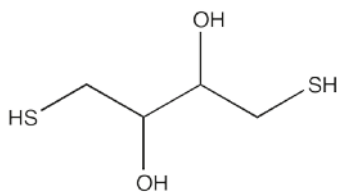
- Applications: analytical chemistry, laboratory reagent, for the detection of: mercury.

assay (HPLC) 35 - 40 %

Art. No.	Volume	Container
DI06600005	5 g	0
DI06600025	25 g	0

1,4-Dithiothreitol

DI1360 1,4-Dithiothreitol, molecular biology grade



- Synonyms: DTT, Cleland's reagent
- $C_4H_{10}O_2S_2$
- M = 154,24 g/mol
- CAS [3483-12-3]
- EINECS-No.: 222-468-7
- Solub. in water: (20 °C): soluble
- Melting point: 40 - 43 °C
- LD 50 (oral, rat): 400 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a

- Tariff number: 2930 90 99 99
- Applications: for microbiology.

assay (iodometric) min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
DI13600001	1 g	0
DI13600010	10 g	0

Doctor solution (sodium plumbite)

SO1012 Doctor solution (sodium plumbite), according to ASTM D235, reagent for sulfides



- Density: 1,15 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C5 II UN 3266
- IMDG: 8 II UN 3266
- IATA/ICAO: 8 II UN 3266
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H314 - H411

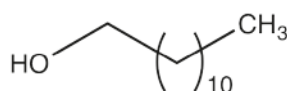
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for the detection of: sulfides.

alkaline aqueous solution saturated with PbO.

Art. No.	Volume	Container
SO10121000	1 l	0
SO1012005P	5 l	0
SO1012010C	10 l	0

1-Dodecanol

AL0330 1-Dodecanol, synthesis grade



- Synonyms: Dodecyl alcohol, Lauryl alcohol
- $C_{12}H_{26}O$
- M = 186,34 g/mol
- CAS [112-53-8]
- EINECS-No.: 203-982-0
- Density: 0,83 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 22 - 24 °C
- Boiling point: 258 - 265 °C
- Flash pt. 119 °C
- Ignition temp.: 275 °C
- LD 50 (oral, rat): 12800 mg/kg
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077

- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H400 - H315
- GHS-P sentences: P280 - P273 - P321 - P362 - P332 + P313 - P501a
- Tariff number: 2905 17 00 00
- Applications: laboratory reagent, synthesis of organic products.

assay (G.C.) min. 98 %

Art. No.	Volume	Container
AL03301000	1 l	0

DPX

DP0050 DPX, mounting medium for histology



- Flash pt. 8 °C
- Refraction index: (n 20 °C/D) 1,52
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H360Df - H304 - H373 - H315 - H336

- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: for histology, microscopy.
- Appearance: Clear, dense liquid

Synthetic balsam for inclusion in histology and microscopy techniques.

Art. No.	Volume	Container
DP00500100	100 ml	0
DP00500500	500 ml	0

Monobuf®

The Scharlau ready to use standard buffer solution packaged in single doses



Scharlau
The wise choice

A
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Eosinm

Eosin methylene blue, according to May-Grünwald

EO0055 Eosin methylene blue, according to May-Grünwald

- CAS [68988-92-1]
- EINECS-No.: 273-541-5
- Solub. in water: (20 °C): slightly soluble
- LD 50 (oral, rat): 1180 mg/kg (toxic component)

- Tariff number: 3204 19 00 90
- Applications: microscopy, colouring agent.

Art. No.	Volume	Container
E000550025	25 g	0
E000550100	100 g	0

Eosin methylene blue, according to Wright

EO0057 Eosin methylene blue, according to Wright

- Synonyms: Wright's eosin methylene blue
- CAS [68988-92-1]
- EINECS-No.: 273-541-5
- Solub. in water: (20 °C): insoluble
- LD 50 (oral, rat): 1180 mg/kg (toxic component)

- Tariff number: 3204 19 00 90
- Applications: analytical chemistry, for spectrophotometric determinations (for determination of: silver), for biology, indicator, microscopy.

Art. No.	Volume	Container
E000570025	25 g	0
E000570050	50 g	0
E000570100	100 g	0

Eosin methylene blue solutions

EO0050 Eosin methylene blue, solution according to Leishman



- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. ~ 11 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992

- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370
- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a

- Tariff number: 3204 19 00 90

Art. No.	Volume	Container
E000501000	1 l	0

EO0056 Eosin methylene blue, solution according to May-Grünwald



- Synonyms: May-Grünwald's eosin methylene blue solution
- Density: 0,791 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 65 °C
- Flash pt. ~ 12 °C
- Ignition temp.: ~ 455 °C
- Vapour pressure: (20 °C) ~ 125 hPa

- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370
- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3204 19 00 90

- Applications: microscopy.
- Appearance: Blue with red shades liquid

Art. No.	Volume	Container
E000560500	500 ml	0
E000562500	2,5 l	0

EO0058 Eosin methylene blue, solution according to Wright



- Synonyms: Wright's eosin methylene blue solution
- Density: 0,80 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 5 °C
- LD 50 (oral, rat): 5628 mg/kg
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992

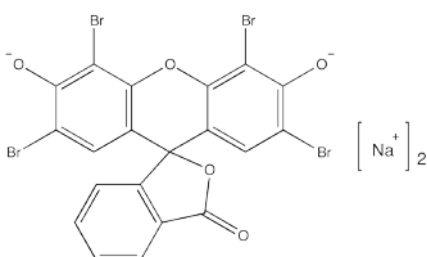
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370
- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3204 19 00 90

- Applications: microscopy, manufacture of dyes, analytical chemistry.

Art. No.	Volume	Container
E000580500	500 ml	0
E000582500	2,5 l	0

Eosin yellowish, C.I. 45380

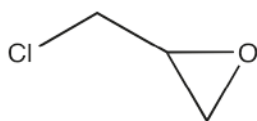
EO0025 Eosin yellowish, C.I. 45380, for microscopy



- Synonyms: 2',4',5',7'-Tetrabromofluorescein, Eosin Y
- C₂₀H₆Br₄Na₂O₅
- M = 691,86 g/mol
- CAS [17372-87-1]
- EINECS-No.: 241-409-6
- Solub. in water: (20 °C): 300 g/l
- LD 50 (oral, rat): 4700 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a

- Tariff number: 3204 12 00 90
- Applications: analytical chemistry, indicator, for spectrophotometric determinations (for determination of: silver), for biology, microscopy.

Art. No.	Volume	Container
E000250025	25 g	0
E000250100	100 g	0
E000250500	500 g	0

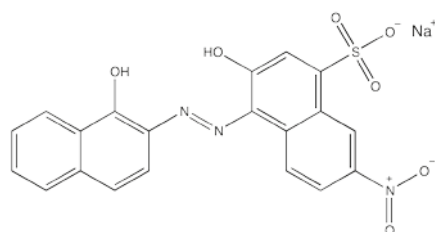
Epichlorohydrine
EP0030 Epichlorohydrine, synthesis grade


- Synonyms: 1-Chloro-2,3-epoxypropane, 2,3-Epoxypropyl chloride, 2-Chloromethyl oxirane
- C₃H₅ClO
- M = 92,53 g/mol
- CAS [106-89-8]
- EINECS-No.: 203-439-8
- Density: 1,18 g/cm³
- Solub. in water: (20 °C): 60 g/l
- Melting point: -57,2 °C
- Boiling point: 116,5 °C
- Flash pt. 28 °C
- Ignition temp.: 385 °C
- Vapour pressure: (20 °C) 16,5 hPa
- Refraction index: (n 20 °C/D) 1,4375
- LD 50 (oral, rat): 90 mg/kg
- EC-Index-No.: 603-026-00-6
- ADR: 6.1 TF1 II UN 2023
- IMDG: 6.1 II UN 2023

- IATA/ICAO: 6.1 II UN 2023
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H350 - H314 - H226 - H317 -
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2910 30 00 00
- Applications: synthesis of organic products, manufacturing of synthetic resins, painting, manufacturing of lacquers.

assay (G.C.)min. 99 %

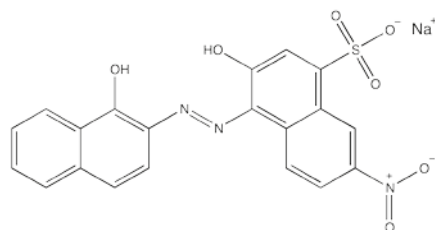
Art. No.	Volume	Container
EP00301000	1 l	0
EP00302500	2,5 l	0

Eriochrome black T, C.I. 14645
NE0045 Eriochrome black T, C.I. 14645, indicator for metal titration


- Synonyms: Chrome black T, 2-Hydroxy-1-(1-hydroxy-2-naphthylazo)-6-nitronaphthalene-4-sulfonic acid sodium salt
- C₂₀H₁₂N₃NaO₇S
- M = 461,38 g/mol
- CAS [1787-61-7]
- EINECS-No.: 217-250-3
- Solub. in water: (20 °C): 50 g/l
- LD 50 (oral, rat): 17590 mg/kg
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077

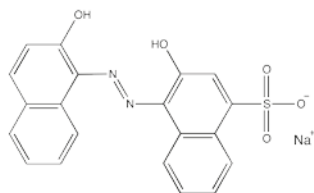
- GHS-signal word: Warning
- GHS-H sentences: H319 - H411
- GHS-P sentences: P280 - P273 - P264 - P305 + P351 + P338 - P337 + P313 - P501a
- Tariff number: 3204 19 00 90
- Applications: analytical chemistry, indicator (metals), indicator of the hardness of water.

Art. No.	Volume	Container
NE00450025	25 g	0
NE00450100	100 g	0

Eriochrome black T, solution 1%
NE0048 Eriochrome black T, solution 1%, for complexometry


- C₂₀H₁₂N₃NaO₇S
- M = 461,38 g/mol
- CAS [1787-61-7]
- EINECS-No.: 217-250-3
- GHS-H sentences: EUH210
- Tariff number: 3204 19 00 90
- Applications: analytical chemistry, indicator of the hardness of water.

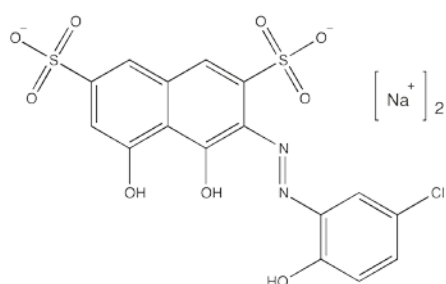
Art. No.	Volume	Container
NE00480100	100 ml	0

Eriochrome blue-black R, C.I. 15705
NE0035 Eriochrome blue-black R, C.I. 15705


- Synonyms: 2-Hydroxy-1-(2-hydroxy-1-naphthylazo)-naphthalene-4-sulfonic acid sodium salt
- C₂₀H₁₃N₃NaO₅S
- M = 416,39 g/mol
- CAS [2538-85-4]
- EINECS-No.: 219-810-2
- Solub. in water: (20 °C): ~ 20 g/l
- Tariff number: 2927 00 00 90

- Applications: analytical chemistry, indicator (metals).

Art. No.	Volume	Container
NE00350050	50 g	0

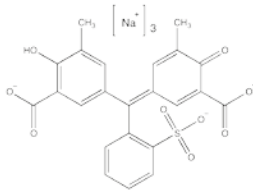
Eriochrome blue SE, C.I. 16680
AZ0155 Eriochrome blue SE, C.I. 16680, indicator for metal titration


- Synonyms: 2-(4-Chloro-1-hydroxyphenyl-2-azo)-1,8-dihydroxynaphthalene-3,6-disulfonic acid disodium salt
- C₁₈H₉ClN₂Na₂O₉S₂
- M = 518,82 g/mol
- CAS [1058-92-0]
- EINECS-No.: 213-894-4
- Solub. in water: (20 °C): ~ 30 g/l
- LD 50 (oral, rat): 8900 mg/kg
- Tariff number: 3204 19 00 90
- Applications: analytical chemistry, indicator (metals), in biochemistry.

Art. No.	Volume	Container
AZ01550005	5 g	0

Eriochrome cyanine R, C.I. 43820

ER0050 Eriochrome cyanine R, C.I. 43820, reagent grade



- $C_{23}H_{15}Na_3O_9S$
- $M = 536,40 \text{ g/mol}$
- CAS [3564-18-9]
- EINECS-No.: 222-641-7
- Solub. in water: (20 °C): ~ 420 g/l
- Tariff number: 3204 19 00 90
- Applications: analytical chemistry, for determination of: aluminium (indicator).

suitability for determination of Al passes test

Art. No.	Volume	Container
ER00500025	25 g	0
ER00500100	100 g	0

Esbach's reagent

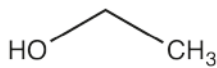
RE0004 Esbach's reagent

- Density: 0,987 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, for determination of: albumin.
- suitable for detection of protein.

Art. No.	Volume	Container
RE00040500	500 ml	0

Ethanol absolute



- Synonyms: Ethyl alcohol, Methylcarbinol, Spirit, Spirit of wine
- C_2H_5OH
- $M = 46,07 \text{ g/mol}$
- CAS [64-17-5]
- EINECS-No.: 200-578-6
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -114,5 °C
- Boiling point: 78,3 °C
- Flash pt. 12 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) 59 hPa
- Dielectric const.: (25 °C) 24,3

- LD 50 (oral, rat): 6200 mg/kg
- EC-Index-No.: 603-002-00-5
- ADR: 3 F1 II UN 1170
- IMDG: 3 II UN 1170
- IATA/ICAO: 3 II UN 1170
- GHS-signal word: Danger
- GHS-H sentences: H225
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2207 10 00 90
- Applications: solvents, disinfectant, for pharmaceuticals synthesizing, synthesis of organic products, perfumery.

ET0002 Ethanol absolute, synthesis grade

assay (G.C.) (v/v) min. 99,9 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00021000	1 l	0	ET0002010C	10 l	0
ET00022500	2,5 l	0	ET0002025P	25 l	0
ET0002005P	5 l	0	ET0002025S	25 l	0

ET0006 Ethanol absolute, extra pure, Pharpur®, Ph Eur, BP, USP

assay (G.C.) (v/v) min. 99,5 %
 assay (G.C.) (w/w) min. 99,2 %
 residue on evaporation max. 0,001 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00061000	1 l	0	ET0006025L	25 l	0
ET00062500	2,5 l	0	ET0006025P	25 l	0
ET0006005P	5 l	0	ET0006025S	25 l	0
ET0006010C	10 l	0	ET0006100S	100 l	0
ET0006025A	25 l	0			

ET0005 Ethanol absolute, reagent grade, ACS, ISO

assay (G.C.) (v/v) min. 99,9 %
 residue on evaporation max. 0,0005 %
 water (v/v) (K.F.) max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00051000	1 l	0	ET0005025A	25 l	0
ET00052500	2,5 l	0	ET0005025P	25 l	0
ET0005005P	5 l	0	ET0005025S	25 l	0
ET0005007E	7 l	0	ET0005200L	200 l	0

ET0015 Ethanol absolute, Multisolvant® HPLC grade ACS ISO UV-VIS

assay (G.C.) (v/v) min. 99,9 %
 residue on evaporation max. 0,0004 %
 water (v/v) (K.F.) max. 0,1 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 T(%) A (AU)
 220 nm 55 % 0,260 AU
 230 nm 72 % 0,143 AU
 245 nm 90 % 0,046 AU
 270 nm 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
ET00151000	1 l	0
ET00152500	2,5 l	0
ET00154000	4 l	0
ET0015007E	7 l	0
ET0015025S	25 l	0
ET0015100S	100 l	0

ET0010 Ethanol absolute, gradient HPLC grade

assay (G.C.) (v/v) min. 99,9 %	220 nm. 50 %	0,301 AU
residue on evaporation max. 0,0002 %	245 nm. 90 %	0,046 AU
water (v/v) (K.F.) max. 0,1 %	Microfiltered through membranes of pore diameter 0,22µm suitable for UPLC	
gradient grade (254 nm) maximum background absorbance: 0,02 AU maximum peak absorbance: 0,002 AU		
min. transmission/max. absorbance in a 1,0 cm cell at wavelength:	T(%)	A (AU)
205 nm. 20 %	0,699 AU	

Art. No.	Volume	Container
ET00101000	1 l	0
ET00102500	2,5 l	0
ET0010007E	7 l	0
ET0010025S	25 l	0
ET0010030S	30 l	0

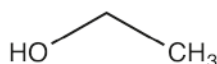
ET0011 Ethanol absolute, molecular biology grade

assay (G.C.) (v/v) min. 99,9 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
ET00110500	500 ml	0
ET00111000	1 l	0

Art. No.	Volume	Container
ET00112500	2,5 l	0

Ethanol, approx. 96%



- Synonyms: Ethyl alcohol, Methylcarbinol, Spirit, Spirit of wine
- C₂H₅OH
- M = 46,07 g/mol
- CAS [64-17-5]
- EINECS-No.: 200-578-6
- Density: 0,81 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -117 °C
- Boiling point: 78 °C
- Flash pt. 9 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) ~ 59 hPa
- Dielectric const.: (25 °C) 24,3
- LD 50 (oral, rat): 6200 mg/kg (anhydrous substance)
- EC-Index-No.: 603-002-00-5
- ADR: 3 F1 II UN 1170
- IMDG: 3 II UN 1170
- IATA/ICAO: 3 II UN 1170
- GHS-signal word: Danger
- GHS-H sentences: H225
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2207 10 00 90
- Applications: solvents, disinfectant, for pharmaceuticals synthesizing, synthesis of organic products, perfumery.

ET0003 Ethanol 96% v/v, extra pure, Ph Eur, BP

assay (G.C.) (v/v) 95,1 - 96,9 %
residue (G.C.) (w/w) 92,6 - 95,2 %
residue on evaporation max. 0,001 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
ET00031000	1 l	0
ET00032500	2,5 l	0
ET0003005P	5 l	0
ET0003007E	7 l	0

Art. No.	Volume	Container
ET0003010C	10 l	0
ET0003025A	25 l	0
ET0003025P	25 l	0
ET0003025S	25 l	0

ET0004 Ethanol 96% v/v, reagent grade, ACS, Reag. Ph Eur

assay (G.C.) (v/v) 95,1 - 96,9 %
residue on evaporation max. 0,0005 %
water (v/v) (K.F.) 3,1 - 4,9 %

Art. No.	Volume	Container
ET00041000	1 l	0
ET00042500	2,5 l	0
ET0004005P	5 l	0
ET0004007E	7 l	0

Art. No.	Volume	Container
ET0004025A	25 l	0
ET0004025P	25 l	0
ET0004025S	25 l	0

ET0013 Ethanol 96% v/v, Multisolvant® HPLC grade ACS UV-VIS

assay (G.C.) (v/v) 95,1 - 96,9 %
residue on evaporation max. 0,0002 %
water (v/v) (K.F.) 3,1 - 4,9 %
min. transmission/max. absorbance in a 1,0 cm cell at wavelength:

210 nm. 35 %	0,456 AU
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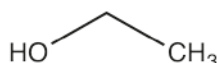
220 nm. 55 % 0,260 AU
230 nm. 72 % 0,143 AU
250 nm. 90 % 0,046 AU
270 nm. 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
ET00131000	1 l	0
ET00132500	2,5 l	0
ET0013007E	7 l	0
ET0013025S	25 l	0

Ethanol, approx. 70%

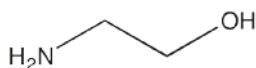
ET0001 Ethanol 70% v/v



- Synonyms: Ethyl alcohol, Methylcarbinol, Spirit, Spirit of wine
- C₂H₅OH
- M = 46,07 g/mol
- CAS [64-17-5]
- EINECS-No.: 200-578-6
- Density: 0,89 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 27 °C
- EC-Index-No.: 603-002-00-5
- ADR: 3 F1 III UN 1170
- IMDG: 3 III UN 1170
- IATA/ICAO: 3 III UN 1170
- GHS-signal word: Warning
- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2208 90 99 11
- Applications: solvents, disinfectant, for pharmaceuticals synthesizing, synthesis of organic products, perfumery.

Art. No.	Volume	Container
ET0001005P	5 l	0
ET0001025P	25 l	0

Ethanolamine



- Synonyms: 2-Aminoethanol, 2-Hydroxyethylamine, Monoethanolamine
- C_2H_7NO
- $M = 61,08 \text{ g/mol}$
- CAS [141-43-5]
- EINECS-No.: 205-483-3
- Density: $1,02 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: $10,5 \text{ °C}$
- Boiling point: 171 °C
- Flash pt. 93 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20 °C) $0,5 \text{ hPa}$
- Refraction index: (n 20 °C/D) $1,4539$
- LD 50 (oral, rat): 1720 mg/kg
- EC-Index-No.: 603-030-00-8
- ADR: 8 C7 III UN 2491
- IMDG: 8 III UN 2491
- IATA/ICAO: 8 III UN 2491
- GHS-signal word: Danger
- GHS-H sentences: H314 - H302 - H312 - H332
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2922 11 00 00
- Applications: analytical chemistry, synthesis of organic products, for pharmaceuticals synthesizing, emulsifier.
- Appearance: Clear liquid

ET0027 Ethanolamine, synthesis grade

assay (G.C.)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00271000	1 l	0	ET00272500	2,5 l	0

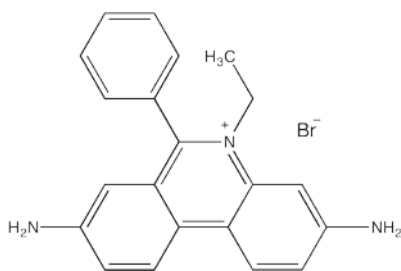
ET0028 Ethanolamine, reagent grade, ACS

assay (G.C.)min. 99,5 %

Art. No.	Volume	Container
ET00281000	1 l	0

Ethidium bromide

ET0108 Ethidium bromide, for biochemical purposes



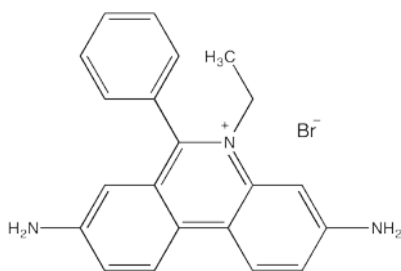
- Synonyms: 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide, Homidium bromide
- $C_{21}H_{20}BrN_3$
- $M = 394,32 \text{ g/mol}$
- CAS [1239-45-8]
- EINECS-No.: 214-984-6
- Solub. in water: (25 °C): $\sim 40 \text{ g/l}$
- Melting point: $261 - 264 \text{ °C}$
- Flash pt. $> 100 \text{ °C}$
- LD 50 (oral, rat): 1503 mg/kg
- ADR: 6.1 T2 I UN 2811
- IMDG: 6.1 I UN 2811
- IATA/ICAO: 6.1 I UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H330 - H341 - H302
- GHS-P sentences: P260 - P284 - P310 - P320 - P405 - P501a
- Tariff number: 2933 99 90 90
- Applications: in biochemistry, oxidizing agent.
- Appearance: Dark red solid

assay (titr. with $HClO_4$, referred to dried sample)min. 98 %

Art. No.	Volume	Container
ET01080001	1 g	0
ET01080010	10 g	0

Ethidium bromide, solution 10 mg/ml

ET0109 Ethidium bromide, solution 10 mg/ml

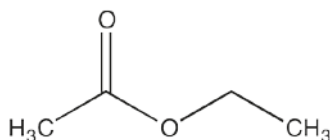


- Synonyms: 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide, Homidium bromide
- $C_{21}H_{20}BrN_3$
- $M = 394,32 \text{ g/mol}$
- CAS [1239-45-8]
- EINECS-No.: 214-984-6
- ADR: 6.1 T1 II UN 2810
- IMDG: 6.1 II UN 2810
- IATA/ICAO: 6.1 II UN 2810
- GHS-signal word: Warning
- GHS-H sentences: H341
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2933 99 90 90
- Applications: for electrophoresis, in biochemistry, for determination of: nucleic acids.

suitability for electrophoresis.passes test

Art. No.	Volume	Container
ET01090010	10 ml	0

Ethyl acetate



- Synonyms: Acetic acid ethyl ester, Acetic ether
- $C_4H_8O_2$
- $M = 88,10 \text{ g/mol}$
- CAS [141-78-6]
- EINECS-No.: 205-500-4
- Density: $0,90 \text{ g/cm}^3$
- Solub. in water: (20 °C): $85,3 \text{ g/l}$
- Melting point: -83 °C
- Boiling point: 77 °C
- Flash pt. -4 °C
- Ignition temp.: 460 °C
- Vapour pressure: (20 °C) 97 hPa
- Refraction index: (n 20 °C/D) $1,3723$
- Dielectric const.: (25 °C) $6,0$
- LD 50 (oral, rat): 5620 mg/kg
- EC-Index-No.: 607-022-00-5
- ADR: 3 F1 II UN 1173
- IMDG: 3 II UN 1173
- IATA/ICAO: 3 II UN 1173
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - EUH066 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2915 31 00 00
- Applications: solvents, perfumery, photography.

AC0140 Ethyl acetate, synthesis grade



assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC01401000	1 l	☉	AC0140025L	25 l	☉
AC01402500	2,5 l	☉	AC0140025P	25 l	☉
AC0140005L	5 l	☉	AC0140025S	25 l	☉
AC0140005P	5 l	☉	AC0140030S	30 l	☉
AC0140007E	7 l	☉	AC0140200E	200 l	☉

AC0143 Ethyl acetate, extra pure, Pharmapur®, Ph Eur, BP, NF



assay (G.C.) min. 99,8 %
 assay (acidimetric) 99 - 100,5 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,05 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC01431000	1 l	☉	AC0143025A	25 l	☉
AC01432500	2,5 l	☉	AC0143025S	25 l	☉
AC0143005L	5 l	☉	AC0143200L	200 l	☉

AC0145 Ethyl acetate, reagent grade, ACS, ISO, Reag. Ph Eur



assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC01451000	1 l	☉	AC0145005P	5 l	☉
AC01452500	2,5 l	☉	AC0145007E	7 l	☉
AC0145005L	5 l	☉	AC0145025S	25 l	☉

AC0155 Ethyl acetate, Multisolvent® HPLC grade ACS ISO UV-VIS



assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,03 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 255 nm. 20 % 0,699 AU

260 nm. 50 % 0,301 AU
 263 nm. 80 % 0,097 AU
 265 nm. 90 % 0,046 AU
 280 nm. 98 % 0,009 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AC01551000	1 l	☉
AC01552500	2,5 l	☉
AC01554000	4 l	☉
AC0155007E	7 l	☉

AC0158 Ethyl acetate, LC-MS



assay (G.C.) min. 99,8 %
 potassium (K) max. 0,0001 %
 sodium (Na) max. 0,0001 %
 residue on evaporation max. 0,0005 %
 water (K.F.) max. 0,03 %
 suitability for use in LC-MS passes test

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 255 nm. 20 % 0,699 AU
 258 nm. 50 % 0,301 AU
 265 nm. 90 % 0,046 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AC01581000	1 l	☉
AC01582500	2,5 l	☉

AC0148 Ethyl acetate, for GC residue analysis



assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,02 %
 Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC01481000	1 l	☉	AC0148007E	7 l	☉
AC01482500	2,5 l	☉	AC0148025S	25 l	☉

AC0149 Ethyl acetate, GC ultra-trace analysis grade



assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,02 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
AC01491000	1 l	☉
AC01492500	2,5 l	☉

AC0144 Ethyl acetate, 99,8%, anhydrous (max. 0,005% H₂O)



assay (G.C.) min. 99,8 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC01440100	100 ml	☉	AC01441000	1 l	☉
AC01440500	500 ml	☉			

AC0141 Ethyl acetate, 99,8%, anhydrous (max. 0,005% H₂O), with molecular sieves

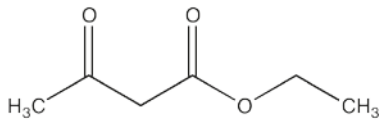



assay (G.C.) min. 99,8 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
AC01411000	1 l	☉



Ethyl acetoacetate

AC0287 Ethyl acetoacetate, synthesis grade 

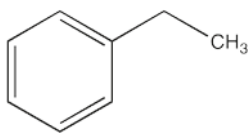

- Synonyms: EAA, Acetoacetic acid ethyl ester
- $C_8H_{10}O_3$
- $M = 130,14$ g/mol
- CAS [141-97-9]
- EINECS-No.: 205-516-1
- Density: $1,03$ g/cm³
- Solub. in water: (20 °C): 125 g/l
- Melting point: -40 °C
- Boiling point: (26,6 hPa) 81,8 - 86,4 °C
- Flash pt. 65 °C
- Ignition temp.: 295 °C
- Vapour pressure: (20 °C) 1 hPa
- Refraction index: (n 20 °C/D) 1,4190
- LD 50 (oral, rat): 3980 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2918 30 00 90
- Applications: synthesis of organic products, for decolourization of liquids.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
AC02871000	1 l	0
AC0287005P	5 l	0

Ethyl benzene

ET0110 Ethyl benzene, reagent grade 

- Synonyms: Ethylbenzene
- C_8H_{10}
- $M = 106,17$ g/mol
- CAS [100-41-4]
- EINECS-No.: 202-849-4
- Density: $0,87$ g/cm³
- Solub. in water: (20 °C): sparingly miscible
- Melting point: -95 °C
- Boiling point: 136 °C
- Flash pt. 15 °C
- Ignition temp.: 430 °C
- Vapour pressure: (20 °C) 4,9 hPa
- Dielectric const.: (30 °C) 2,3
- LD 50 (oral, rat): 3500 mg/kg
- EC-Index-No.: 601-023-00-4
- ADR: 3 F1 II UN 1175

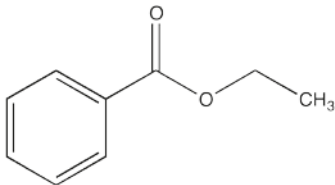
- IMDG: 3 II UN 1175
- IATA/ICAO: 3 II UN 1175
- GHS-signal word: Danger
- GHS-H sentences: H225 - H332
- GHS-P sentences: P210 - P241 - P261 - P280 - P303 + P361 + P353 - P501a
- Tariff number: 2902 60 00 00
- Applications: analytical chemistry, chromatography, solvents.

assay (G.C.)min. 99,5 %

Art. No.	Volume	Container
ET01101000	1 l	0

Ethyl benzoate

BE0195 Ethyl benzoate, extra pure, Reag. Ph Eur



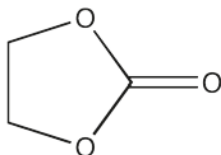
- Synonyms: Benzoic acid ethyl ester
- $C_9H_{10}O_2$
- $M = 150,18$ g/mol
- CAS [93-89-0]
- EINECS-No.: 202-284-3
- Density: $1,05$ g/cm³
- Solub. in water: (20 °C): 0,5 g/l
- Melting point: -35 °C
- Boiling point: 213 - 215 °C
- Flash pt. 91 °C
- Vapour pressure: (20 °C) 0,24 hPa
- Refraction index: (n 20 °C/D) 1,5057

- LD 50 (oral, rat): 2100 mg/kg
- Tariff number: 2916 31 00 00
- Applications: analytical chemistry, synthesis of organic products, perfumery.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
BE01950250	250 ml	0
BE01951000	1 l	0

Ethylene carbonate

CA0367 Ethylene carbonate, synthesis grade 

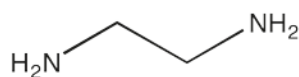
- Synonyms: 1,3-Dioxolane-2-one, Ethylene glycol carbonate
- $C_3H_4O_3$
- $M = 88,06$ g/mol
- CAS [96-49-1]
- EINECS-No.: 202-510-0
- Solub. in water: (20 °C): 214 g/l
- Melting point: 35 - 38 °C
- Boiling point: 247 - 249 °C
- Flash pt. 150 °C
- Ignition temp.: 465 °C
- Vapour pressure: (20 °C) 0,21 hPa
- LD 50 (oral, rat): 10000 mg/kg

- GHS-signal word: Danger
- GHS-H sentences: H318
- GHS-P sentences: P280 - P305 + P351 + P338 - P310
- Tariff number: 2920 90 10 90
- Applications: synthesis of organic products, cosmetics, for pharmaceuticals synthesizing.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
CA03671000	1 kg	0

Ethylenediamine



- Synonyms: 1,2-Ethanediamine, 1,2-Diaminoethane
- $C_2H_8N_2$
- M = 60,10 g/mol
- CAS [107-15-3]
- EINECS-No.: 203-468-6
- Density: 0,90 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 11 °C
- Boiling point: 116 - 118 °C
- Flash pt. ~ 36 °C
- Ignition temp.: ~ 400 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,4540
- Dielectric const.: (18 °C) 16
- LD 50 (oral, rat): 76 mg/kg
- EC-Index-No.: 612-006-00-6
- ADR: 8 CF1 II UN 1604
- IMDG: 8 II UN 1604
- IATA/ICAO: 8 II UN 1604
- GHS-signal word: Danger
- GHS-H sentences: H334 - H314 - H226 - H302 - H312 - H317
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 21 00 00
- Applications: solvents, emulsifier, in antifreeze compositions, in lubricant compositions, in pharma industry.

ET0135 Ethylenediamine, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET01351000	1 l	0	ET0135005P	5 l	0
ET01352500	2,5 l	0	ET0135025A	25 l	0

ET0137 Ethylenediamine, extra pure, Pharmapur®, Ph Eur, BP, USP

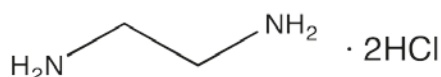


assay (acidimetric) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
ET01370100	100 ml	0	ET01371000	1 l	0
ET01370250	250 ml	0			

Ethylenediamine dihydrochloride

ET0145 Ethylenediamine dihydrochloride, extra pure

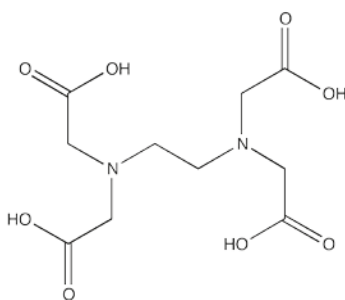


- Synonyms: 1,2-Diaminoethane dihydrochloride, Ethylenediammonium dichloride
 - $C_2H_8N_2 \cdot 2HCl$
 - M = 133,02 g/mol
 - CAS [333-18-6]
 - EINECS-No.: 206-369-6
 - Solub. in water: (20 °C): 300 g/l
 - GHS-signal word: Warning
 - GHS-H sentences: H302 - H312 - H332
 - GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
 - Tariff number: 2921 21 00 00
 - Applications: synthesis of organic products, laboratory reagent, for pharmaceuticals synthesizing, cosmetics.
- assay (argentometric)min. 99 %

Art. No.	Volume	Container
ET01450250	250 g	0
ET01451000	1 kg	0

Ethylenediaminetetraacetic acid, EDTA

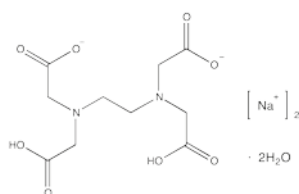
AC0940 Ethylenediaminetetraacetic acid, EDTA, synthesis grade



- Synonyms: Ethylenedinitrilotetraacetic acid, Edetic acid, EDTA
 - $C_{10}H_{16}N_2O_8$
 - M = 292,25 g/mol
 - CAS [60-00-4]
 - EINECS-No.: 200-449-4
 - Solub. in water: (20 °C): ~ 0,5 g/l
 - Melting point: 220 °C (decomposes)
 - Flash pt. > 100 °C
 - Ignition temp.: > 200 °C
 - Vapour pressure: (20 °C) < 0,013 hPa
 - LD 50 (oral, rat): 2580 mg/kg
 - GHS-signal word: Warning
 - GHS-H sentences: H319
 - GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
 - Tariff number: 2922 49 95 90
 - Applications: analytical chemistry, antioxidant (in food industry), synthesis of organic products, for pharmaceuticals synthesizing.
- assay (complexometric)min. 98 %

Art. No.	Volume	Container
AC09400100	100 g	0
AC09400500	500 g	0
AC09401000	1 kg	0
AC0940005P	5 kg	0

Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate



- Synonyms: Edetic acid disodium salt, Disodium dihydrogen ethylenediaminetetraacetate
- $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
- M = 372,24 g/mol
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Solub. in water: (20 °C): 100 g/l
- Melting point: 252 °C (decomposes)
- LD 50 (oral, rat): 2000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, sequestering agent.

AC0960 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, synthesis grade



assay (complexometric, referred to dried sample)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC09601000	1 kg	0	AC0960025P	25 kg	0
AC0960005P	5 kg	0			

AC0963 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (complexometric, referred to dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC09630250	250 g	Ⓢ
AC09631000	1 kg	Ⓢ
AC0963005P	5 kg	Ⓢ
AC0963025P	25 kg	Ⓢ

AC0968 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, powder, Pharmapur®, Ph Eur, USP, GMP, suitable for use as excipient

assay (complexometric, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC09681000	1 kg	Ⓢ
AC0968025P	25 kg	Ⓢ

AC0965 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, reagent grade, ACS, Reag. Ph Eur

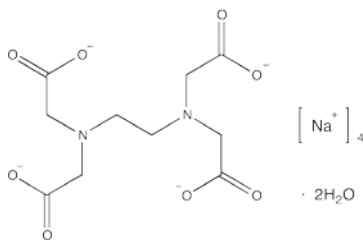
assay (complexometric, referred to dried sample) 99,4 - 100,6 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC09650100	100 g	Ⓢ	AC09651000	1 kg	Ⓢ
AC09650250	250 g	Ⓢ	AC0965005P	5 kg	Ⓢ
AC09650500	500 g	Ⓢ	AC0965025P	25 kg	Ⓢ

AC0967 Ethylenediaminetetraacetic acid, EDTA, disodium salt, dihydrate, molecular biology grade

assay (complexometric, referred to dried sample) min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AC09670100	100 g	Ⓢ	AC09671000	1 kg	Ⓢ

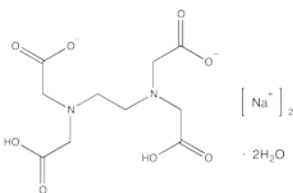
Ethylenediaminetetraacetic acid, EDTA, tetrasodium salt, dihydrate
AC0975 Ethylenediaminetetraacetic acid, EDTA, tetrasodium salt, dihydrate, synthesis grade


- Synonyms: Edetic acid tetrasodium salt, Tetrasodium ethylenediaminetetraacetate
- $C_{10}H_{12}N_2Na_4O_8 \cdot 2H_2O$
- $M = 416,21 \text{ g/mol}$
- CAS [10378-23-1]
- EINECS-No.: 200-573-9
- Solub. in water: (20 °C): soluble
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a

- Tariff number: 2922 49 95 90
- Applications: synthesis of organic products, analytical chemistry, titrant in volumetric analysis.

assay (complexometric, referred to dried sample) min. 98 %

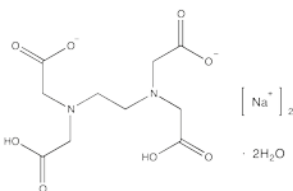
Art. No.	Volume	Container
AC09750500	500 g	Ⓢ
AC09751000	1 kg	Ⓢ

Ethylenediaminetetraacetic acid, EDTA, disodium salt, volumetric solutions
AC0970 Ethylenediaminetetraacetic acid, EDTA, disodium salt, solution 0,1 mol/l (0,2 N)


- $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
- $M = 372,24 \text{ g/mol}$
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Density: 1,01 g/cm³
- LD 50 (oral, rat): 2000 mg/kg (EDTA disodium salt)
- GHS-H sentences: EUH210
- Tariff number: 2922 49 95 90

- Applications: analytical chemistry, sequestering agent, for metals titration.

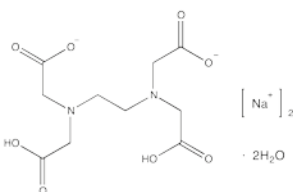
Art. No.	Volume	Container
AC09701000	1 l	Ⓢ
AC0970005P	5 l	Ⓢ
AC0970010C	10 l	Ⓢ

AC0972 Ethylenediaminetetraacetic acid, EDTA, disodium salt, solution 0,05 mol/l (0,1 N)


- $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
- $M = 372,24 \text{ g/mol}$
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Density: 1,01 g/cm³
- LD 50 (oral, rat): 2000 mg/kg (EDTA disodium salt)
- GHS-H sentences: EUH210
- Tariff number: 2922 49 95 90

- Applications: analytical chemistry, sequestering agent, for metals titration.

Art. No.	Volume	Container
AC09721000	1 l	Ⓢ
AC0972010C	10 l	Ⓢ

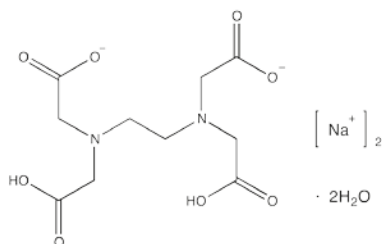
AC0974 Ethylenediaminetetraacetic acid, EDTA, disodium salt, solution 0,025 mol/l (0,05 N)


- $C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$
- $M = 372,24 \text{ g/mol}$
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Density: 0,998 g/cm³
- LD 50 (oral, rat): 2000 mg/kg (EDTA disodium salt)
- Tariff number: 2922 49 95 90

- Applications: analytical chemistry, sequestering agent, for metals titration.

Art. No.	Volume	Container
AC09741000	1 l	Ⓢ

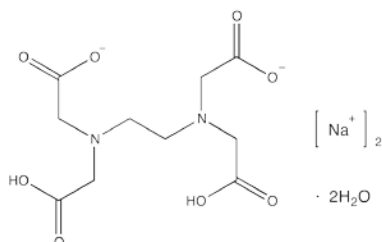
AC0973 Ethylenediaminetetraacetic acid, EDTA, disodium salt, solution 0,02 mol/l (0,04 N)



- C₁₀H₁₄N₂Na₂O₈·2H₂O
- M = 372,24 g/mol
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Density: 0,99 g/cm³
- LD 50 (oral, rat): 2000 mg/kg (EDTA disodium salt)
- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, sequestering agent, for metals titration.

Art. No.	Volume	Container
AC09731000	1 l	⊖

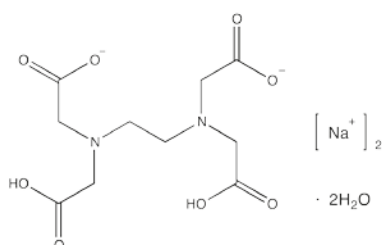
AC0971 Ethylenediaminetetraacetic acid, EDTA, disodium salt, solution 0,01 mol/l (0,02 N)



- C₁₀H₁₄N₂Na₂O₈·2H₂O
- M = 372,24 g/mol
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Density: 0,996 g/cm³
- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, sequestering agent, for metals titration.

Art. No.	Volume	Container
AC09711000	1 l	⊖
AC0971005P	5 l	⊗
AC0971010C	10 l	⊗

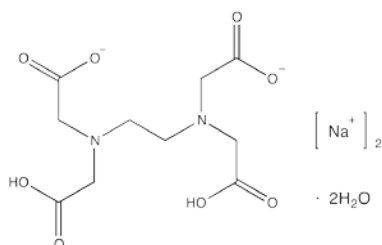
AC0996 Ethylenediaminetetraacetic acid, EDTA, disodium salt, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,2N)



- C₁₀H₁₄N₂Na₂O₈·2H₂O
- M = 372,24 g/mol
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Density: ~ 1,14 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210
- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, sequestering agent, for metals titration.

Art. No.	Volume	Container
AC099600PA	u.	⊖

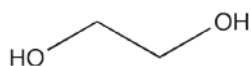
AC0966 Ethylenediaminetetraacetic acid, EDTA, disodium salt, concentrated solution to prepare 1 l of solution 0,01 mol/l (0,02N)



- C₁₀H₁₄N₂Na₂O₈·2H₂O
- M = 372,24 g/mol
- CAS [6381-92-6]
- EINECS-No.: 205-358-3
- Density: ~ 1,14 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210
- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, sequestering agent, for metals titration.

Art. No.	Volume	Container
AC096600PA	u.	⊖

Ethylene glycol



- Synonyms: 1,2-Ethanediol, Glycol
- C₂H₆O₂
- M = 62,07 g/mol
- CAS [107-21-1]
- EINECS-No.: 203-473-3
- Density: 1,11 g/cm³
- Solub. in water: (20 °C): 1000 g/l miscible
- Melting point: -13 °C
- Boiling point: (1013 hPa) 197 °C
- Flash pt. 111 °C
- Ignition temp.: 410 °C

- Vapour pressure: (20°C) 0,053 hPa
- Dielectric const.: (25 °C) 37,7
- LD 50 (oral, rat): 4700 mg/kg
- EC-Index-No.: 603-027-00-1
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2905 31 00 00
- Applications: analytical chemistry, solvents (in bio-chemistry), synthesis of organic products.

ET0164 Ethylene glycol, extra pure, packed in HDPE bottles

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET01641000	1 l	⊖	ET0164005P	5 l	⊗
ET01642500	2,5 l	⊖	ET0164025P	25 l	⊗

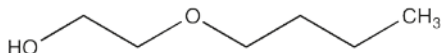
ET0166 Ethylene glycol, reagent grade, Reag. Ph Eur

assay (G.C.) min. 99,5 %
water (K.F.) max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET01661000	1 l	⊖	ET0166005P	5 l	⊗
ET01662500	2,5 l	⊖	ET0166025P	25 l	⊗

Ethylene glycol monobutyl ether

ET0175 Ethylene glycol monobutyl ether, synthesis grade



- Synonyms: 2-Butoxyethanol, Butyl glycol
- $C_8H_{18}O_2$
- $M = 118,18$ g/mol
- CAS [111-76-2]
- EINECS-No.: 203-905-0
- Density: 0,9 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -70 °C
- Boiling point: 170 - 172 °C
- Flash pt. 63 - 64 °C
- Ignition temp.: 230 °C
- Vapour pressure: (20 °C) 0,8 hPa
- Refraction index: (n 20 °C/D) 1,4193
- Dielectric const.: (20 °C) 9,4
- LD 50 (oral, rat): 1480 mg/kg

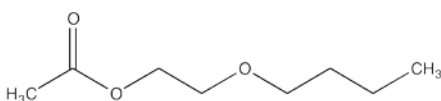
- EC-Index-No.: 603-014-00-0
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332 - H315 - H319
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P322 - P501a
- Tariff number: 2909 43 00 00
- Applications: synthesis of organic products, solvents, manufacture of dyes, plasticizer, insecticide.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
ET01751000	1 l	Ø

Ethylene glycol monobutyl ether acetate

AC0085 Ethylene glycol monobutyl ether acetate, synthesis grade



- Synonyms: 2-Butoxyethyl acetate, 1-Acetoxy-2-butoxyethane, Butyl glycol acetate, Acetic acid 2-butoxyethyl ester
- $C_8H_{16}O_3$
- $M = 160,21$ g/mol
- CAS [112-07-2]
- EINECS-No.: 203-933-3
- Density: 0,94 g/cm³
- Solub. in water: (20 °C): 15 g/l
- Melting point: -64 - -62 °C
- Boiling point: 194 - 196 °C
- Flash pt. 82 °C
- Ignition temp.: 355 °C
- Vapour pressure: (20 °C) 0,31 hPa
- Refraction index: (n 20 °C/D) 1,4138
- Dielectric const.: (20 °C) 6,8

- LD 50 (oral, rat): 2400 mg/kg
- EC-Index-No.: 607-038-00-2
- GHS-signal word: Warning
- GHS-H sentences: H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P304 + P340 - P312 - P501a
- Tariff number: 2915 39 90 90
- Applications: synthesis of organic products, manufacturing of lacquers.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AC00851000	1 l	Ø

Ethylene glycol monoethyl ether

ET0180 Ethylene glycol monoethyl ether, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container
ET01801000	1 l	Ø
ET01802500	2,5 l	Ø

Art. No.	Volume	Container
ET0180005P	5 l	Ø

ET0182 Ethylene glycol monoethyl ether, reagent grade, Reag. Ph Eur

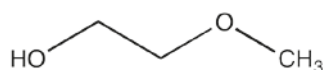


assay (G.C.)min. 99,5 %

Art. No.	Volume	Container
ET01821000	1 l	Ø

Art. No.	Volume	Container
ET01822500	2,5 l	Ø

Ethylene glycol monomethyl ether



- Synonyms: 2-Methoxyethanol, Methyl glycol, Methyl cellosolve
- $C_3H_8O_2$
- $M = 76,10 \text{ g/mol}$
- CAS [109-86-4]
- EINECS-No.: 203-713-7
- Density: $0,96 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: -85 °C
- Boiling point: $124,5 \text{ °C}$
- Flash pt. 38 °C
- Ignition temp.: 285 °C
- Vapour pressure: (20 °C) 11 hPa
- Refraction index: (n 20 °C/D) $1,4021$
- Dielectric const.: (20 °C) $15,4$
- LD 50 (oral, rat): 2370 mg/kg
- EC-Index-No.: 603-011-00-4
- ADR: 3 F1 III UN 1188
- IMDG: 3 III UN 1188
- IATA/ICAO: 3 III UN 1188
- GHS-signal word: Danger
- GHS-H sentences: H360FD - H226 - H302 - H312 - H332
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2909 42 00 00
- Applications: analytical chemistry, synthesis of organic products, manufacturing of synthetic resins, manufacture of dyes, for the analysis of: aminoacids.
- Appearance: Clear liquid

ET0190 Ethylene glycol monomethyl ether, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET01901000	1 l	0	ET0190005P	5 l	0
ET01902500	2,5 l	0	ET0190025P	25 l	0

ET0192 Ethylene glycol monomethyl ether, reagent grade, ACS

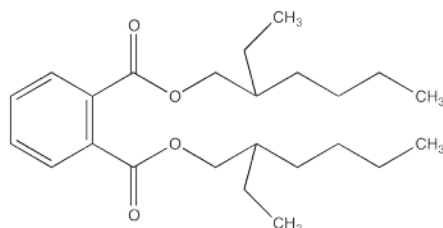


assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET01921000	1 l	0	ET0192005P	5 l	0
ET01922500	2,5 l	0			

Bis-(2-ethylhexyl) phthalate

FT0025 Bis-(2-ethylhexyl) phthalate, synthesis grade



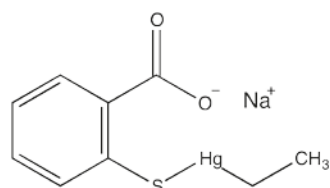
- Synonyms: Di-(2-ethylhexyl) phthalate, Dioctyl phthalate, Diisooctyl phthalate, Phthalic acid bis(2-ethylhexyl) ester, DOP
- $C_{24}H_{38}O_4$
- $M = 390,57 \text{ g/mol}$
- CAS [117-81-7]
- EINECS-No.: 204-211-0
- Density: $0,98 \text{ g/cm}^3$
- Solub. in water: (20 °C): $< 0,1 \text{ g/l}$
- Melting point: $\sim -50 \text{ °C}$
- Boiling point: (5 hPa) $220 - 225 \text{ °C}$
- Flash pt. $\sim 200 \text{ °C}$
- Ignition temp.: $\sim 400 \text{ °C}$
- Vapour pressure: (20 °C) $< 0,01 \text{ hPa}$
- Refraction index: (n 20 °C/D) $1,4862$
- LD 50 (oral, rat): 30600 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H360FD
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2917 34 00 90
- Applications: analytical chemistry, synthesis of organic products.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
FT00251000	1 l	0

Ethylmercurithiosalicylic acid, sodium salt

TI0050 Ethylmercurithiosalicylic acid, sodium salt, synthesis grade

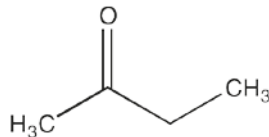


- Synonyms: Thimerosal, Thiomersal, Merthiolate, 2-(Ethylmercury)thiobenzoic acid sodium salt
- $C_9H_9HgNaO_2S$
- $M = 404,81 \text{ g/mol}$
- CAS [54-64-8]
- EINECS-No.: 200-210-4
- Solub. in water: (20 °C): soluble
- Melting point: $232 - 233 \text{ °C}$ (decomposes)
- LD 50 (oral, rat): 75 mg/kg
- EC-Index-No.: 080-004-00-7
- ADR: 6.1 T5 II UN 2025
- IMDG: 6.1 II UN 2025
- IATA/ICAO: 6.1 II UN 2025
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing.

assaymin. 97 %

Art. No.	Volume	Container
TI00500025	25 g	0
TI00500100	100 g	0

Ethyl methyl ketone



- Synonyms: 2-Butanone, Methyl ethyl ketone, MEK
- C_4H_8O
- $M = 72,11 \text{ g/mol}$
- CAS [78-93-3]
- EINECS-No.: 201-159-0
- Density: $0,80 \text{ g/cm}^3$
- Solub. in water: (20 °C): 292 g/l
- Melting point: -86 °C
- Boiling point: $79,6 \text{ °C}$
- Flash pt. -4 °C
- Ignition temp.: 505 °C
- Vapour pressure: (20 °C) 105 hPa
- Dielectric const.: (20 °C) $18,5$
- LD 50 (oral, rat): 2737 mg/kg
- EC-Index-No.: 606-002-00-3
- ADR: 3 F1 II UN 1193
- IMDG: 3 II UN 1193
- IATA/ICAO: 3 II UN 1193 GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - EUH066 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2914 12 00 00
- Applications: analytical chemistry, chromatography, synthesis of organic products, in food industry.

ME0454 Ethyl methyl ketone, synthesis grade

assay (G.C.)min. 99 %

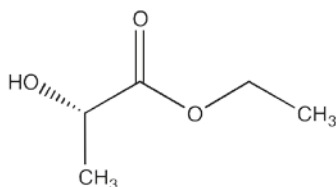
Art. No.	Volume	Container	Art. No.	Volume	Container
ME04541000	1 l	Ø	ME0454005P	5 l	Ø
ME04542500	2,5 l	Ø	ME0454025L	25 l	Ø
ME0454005L	5 l	Ø			

ME0457 Ethyl methyl ketone, reagent grade, ACS, Reag. Ph Eur

assay (G.C.)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME04571000	1 l	Ø	ME0457005L	5 l	Ø
ME04572500	2,5 l	Ø	ME0457025S	25 l	Ø

Ethyl lactate



- Synonyms: L(-)-Lactic acid ethyl ester, (S)-(-)-2-Hydroxypropanoic acid ethyl ester
- $C_5H_{10}O_3$
- $M = 118,14 \text{ g/mol}$
- CAS [687-47-8]
- EINECS-No.: 211-694-1
- Density: $1,03 \text{ g/cm}^3$
- Solub. in water: (25 °C): miscible
- Melting point: -25 °C
- Boiling point: 154 °C
- Flash pt. 46 °C
- Ignition temp.: 400 °C
- Vapour pressure: (20 °C) $1,6 \text{ hPa}$
- Refraction index: (n 25 °C) $1,411$
- LD 50 (oral, rat): $> 2000 \text{ mg/kg}$
- EC-Index-No.: 607-129-00-7 [2]
- ADR: 3 F1 III UN 1192
- IMDG: 3 III UN 1192
- IATA/ICAO: 3 III UN 1192
- GHS-signal word: Danger
- GHS-H sentences: H318 - H226 - H335
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2918 11 00 00
- Applications: synthesis of organic products, solvents.
- Appearance: Clear colourless to pale yellow liquid

LA0045 Ethyl lactate, synthesis grade

assay (G.C.)min. 98 %

Art. No.	Volume	Container
LA00451000	1 l	Ø

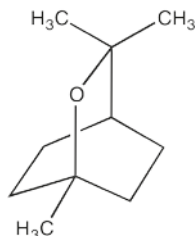
LA0047 Ethyl lactate, reagent grade

assay (G.C.)min. 99 %
 residue on evaporationmax. 0,005 %
 water (K.F.)max. 0,1 %

Art. No.	Volume	Container
LA00471000	1 l	Ø

Eucalyptol

EU0025 Eucalyptol, synthesis grade



- Synonyms: Cineole, 1,3,3-Trimethyl-2-oxabicyclo(2,2,2)-octane
- $C_{10}H_{18}O$
- $M = 154,3 \text{ g/mol}$
- CAS [470-82-6]
- EINECS-No.: 207-431-5
- Density: $0,922 - 0,927 \text{ g/cm}^3$
- Solub. in water: (20 °C): non-miscible
- Boiling point: $174 - 177 \text{ °C}$
- Flash pt. 49 °C
- LD 50 (oral, rat): 2480 mg/kg
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993
- GHS-signal word: Warning
- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2909 20 00 90
- Applications: analytical chemistry, in food industry, for pharmaceuticals synthesizing.
- Appearance: Colourless to slightly yellow clear liquid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
EU00250250	250 ml	Ø
EU00251000	1 l	Ø

Fehling's solution, solution A

RE0005 Fehling's solution, solution A: copper(II) sulfate, for determination of sugar

- Density: 1,04 g/cm³
- ADR: 9 M6 III UN 3082
- IMDG: 9 III UN 3082
- IATA/ICAO: 9 III UN 3082
- GHS-H sentences: H411

- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for determination of: sugars, in pharma industry.

Art. No.	Volume	Container
RE00050250	250 ml	0
RE00051000	1 l	0

Fehling's solution, solution B

RE0006 Fehling's solution, solution B: potassium sodium tartrate, alkaline, for determination of sugar

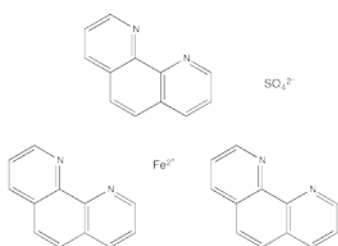
- Density: 1,24 g/cm³
- ADR: 8 C5 II UN 1719
- IMDG: 8 II UN 1719
- IATA/ICAO: 8 II UN 1719
- GHS-signal word: Danger
- GHS-H sentences: H314

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2918 13 00 90
- Applications: analytical chemistry, laboratory reagent, for determination of: sugars, in pharma industry.
- Appearance: Colourless clear liquid

Art. No.	Volume	Container
RE00060250	250 ml	0
RE00061000	1 l	0

Ferriin, solution 0,025 mol/l

FE0529 Ferriin, solution 0,025 mol/l, redox indicator

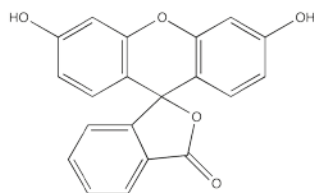


- Synonyms: 1,10-Phenanthroline iron (II) salt, Tris(1,10-phenanthroline) iron (II) sulfate
- C₃₃H₂₄FeN₆O₄S
- M = 692,53 g/mol
- CAS [14634-91-4]
- EINECS-No.: 238-676-6
- Density: 1,01 g/cm³
- EC-Index-No.: 613-092-00-8
- GHS-H sentences: H413
- GHS-P sentences: P273 - P501a
- Tariff number: 2933 99 90 90

- Applications: analytical chemistry, indicator, for determination of: metals (i.a.: nickel, silver).

Art. No.	Volume	Container
FE05290100	100 ml	0

Fluorescein, C.I. 45350



- Synonyms: 3',6'-Dihydroxyspiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one
- C₂₀H₁₂O₅
- M = 332,31 g/mol
- CAS [2321-07-5]
- EINECS-No.: 219-031-8
- Solub. in water: (20 °C): insoluble
- Melting point: 320 °C

- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 3204 90 00 00
- Applications: analytical chemistry, laboratory reagent, indicator, for the detection of: bromine.

FL0112 Fluorescein, C.I. 45350, synthesis grade

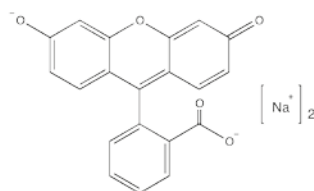
assaymin. 95 %

Art. No.	Volume	Container
FL01120100	100 g	0

FL0113 Fluorescein, C.I. 45350, extra pure

Art. No.	Volume	Container	Art. No.	Volume	Container
FL01130010	10 g	0	FL01130025	25 g	0

Fluorescein sodium



- Synonyms: 3',6'-Dihydroxyspiro-[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, Resorcinolphthalein
- C₂₀H₁₀Na₂O₅
- M = 376,28 g/mol
- CAS [518-47-8]
- EINECS-No.: 208-253-0
- Solub. in water: (20 °C): 500 g/l
- Melting point: > 360 °C

- LD 50 (oral, rat): 6721 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P304 + P340 - P312 - P501a
- Tariff number: 3204 90 00 00
- Applications: analytical chemistry, indicator.

FL0122 Fluorescein sodium, C.I. 45350, pure

assay (on dried sample)min. 85 %

Art. No.	Volume	Container	Art. No.	Volume	Container
FL01220100	100 g	0	FL01221000	1 kg	0
FL01220250	250 g	0			

FL0125 Fluorescein sodium, C.I. 45350, extra pure

assay (titration with HClO₄)min. 90 %

Art. No.	Volume	Container	Art. No.	Volume	Container
FL01250025	25 g	0	FL01250250	250 g	0
FL01250100	100 g	0			

Folin-Ciocalteu phenol reagent

RE0018 Folin-Ciocalteu, phenol reagent

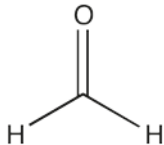
- Density: ~ 1,24 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313 -
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, reagent for the following substances detection: phenols.

- Appearance: Yellow liquid

Art. No.	Volume	Container
RE00180250	250 ml	0

Formaldehyde, solution 37%



- Synonyms: Formalin solution, Formol, Methanal solution, Methyl aldehyde solution
- CH₂O
- M = 30,03 g/mol
- CAS [50-00-0]
- EINECS-No.: 200-001-8
- Density: 1,09 g/cm³
- Melting point: < -15 °C
- Boiling point: 93 - 96 °C
- Flash pt. ~ 62 °C
- Ignition temp.: ~ 300 °C (pure substance)
- Vapour pressure: 1,3 hPa (formaldehyde)
- LD 50 (oral, rat): 100 mg/kg (formaldehyde)

- EC-Index-No.: 605-001-00-5
- ADR: 8 C9 III UN 2209
- IMDG: 8 III UN 2209
- IATA/ICAO: 8 III UN 2209
- GHS-signal word: Danger
- GHS-H sentences: H311 - H331 - H370 - H335 - H336 - H351 - H314 - H302 - H317
- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2912 11 00 00
- Applications: disinfectant, synthesis of organic products, in embalming liquids, analytical chemistry, photography, in pharma industry.

FO0009 Formaldehyde, solution 37%, synthesis grade

Art. No.	Volume	Container	Art. No.	Volume	Container
FO00091000	1 l	0	FO0009025P	25 l	0
FO0009005P	5 l	0			

FO0010 Formaldehyde, solution 37% w/w, extra pure, Pharmapur®, Ph Eur, BP, USP, stabilized with approx. 10% of methanol

assay (acidimetric) 34,5 - 38,0 %
 methanol (G.C.) (v/v) 9 - 15 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
FO00101000	1 l	0	FO0010005P	5 l	0
FO00102500	2,5 l	0	FO0010025P	25 l	0

FO0011 Formaldehyde, solution 37% w/w, reagent grade, stabilized with approx. 10% methanol

Art. No.	Volume	Container	Art. No.	Volume	Container
FO00111000	1 l	0	FO0011005P	5 l	0
FO00112500	2,5 l	0	FO0011025P	25 l	0

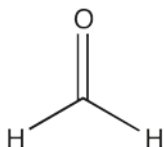
FO0012 Formaldehyde, solution 37% w/w, molecular biology grade

RNases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
FO00120250	250 ml	0	FO00121000	1 l	0

Formaldehyde, solution 30 - 36% w/w, buffered at pH = 8,1, stabilized with methanol

FO0018 Formaldehyde, solution 30 - 36% w/w, buffered at pH = 8,1, stabilized with methanol



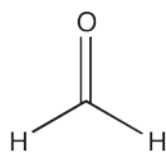
- Synonyms: Formalin solution, Formol, Methanal solution, Methyl aldehyde solution
- CH₂O
- M = 30,03 g/mol
- CAS [50-00-0]
- EINECS-No.: 200-001-8
- Density: 1,07 g/cm³
- LD 50 (oral, rat): 100 mg/kg (formaldehyde)
- EC-Index-No.: 605-001-00-5
- ADR: 8 C9 III UN 2209
- IMDG: 8 III UN 2209

- IATA/ICAO: 8 III UN 2209
- GHS-signal word: Danger
- GHS-H sentences: H311 - H331 - H370 - H335 - H336 - H351 - H314 - H302 - H317
- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2912 11 00 00

Art. No.	Volume	Container
FO0018010C	10 l	0

Formaldehyde, solution 10%, pH = 7

FO0014 Formaldehyde, solution 10% w/w, buffered at pH = 7 with carbonates



- Synonyms: Formalin solution, Formol, Methanal solution, Methyl aldehyde solution
- CH₂O
- M = 30,03 g/mol
- CAS [50-00-0]
- EINECS-No.: 200-001-8
- Density: 1,02 g/cm³
- EC-Index-No.: 605-001-00-5
- GHS-signal word: Warning
- GHS-H sentences: H351 - H302 - H315 - H319 - H317 - H335 - H336

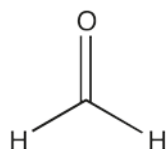
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2912 11 00 00
- Applications: analytical chemistry, in buffer solutions.

pH 6,8 - 7,2

Art. No.	Volume	Container
FO00141000	1 l	Ø
FO0014005P	5 l	Ø
FO0014010C	10 l	Ø

Formaldehyde, solution 3,5 - 4%

FO0013 Formaldehyde, solution 3,5 - 4,0 % w/w, buffered at pH = 7 with carbonates



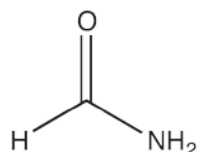
- Synonyms: Formalin solution, Formol, Methanal solution, Methyl aldehyde solution
- CH₂O
- M = 30,03 g/mol
- CAS [50-00-0]
- EINECS-No.: 200-001-8
- Density: 1,003 g/cm³
- Boiling point: ~ 100 °C
- LD 50 (oral, rat): 100 mg/kg (pure substance)
- EC-Index-No.: 605-001-00-5
- GHS-signal word: Warning
- GHS-H sentences: H351 - H317
- GHS-P sentences: P261 - P280 - P281 - P321 - P405 - P501a

- Tariff number: 2912 11 00 00
- Applications: analytical chemistry, laboratory reagent, in buffer solutions, for biology.

pH 6,8 - 7,2

Art. No.	Volume	Container
FO00131000	1 l	Ø
FO0013005P	5 l	Ø
FO0013010C	10 l	Ø
FO0013025P	25 l	Ø

Formamide



- Synonyms: Methanamide, Methane amide, Carbamaldehide, Formic acid amide
- CH₃NO
- M = 45,04 g/mol
- CAS [75-12-7]
- EINECS-No.: 200-842-0
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 2 °C
- Boiling point: 210 °C (decomposes)
- Flash pt. 175 °C
- Ignition temp.: 500 °C

- Vapour pressure: (20 °C) 0,08 hPa
- Dielectric const.: (25 °C) 109,5
- LD 50 (oral, rat): 5800 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H360D
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2924 19 00 90
- Applications: analytical chemistry, laboratory reagent, solvents, chromatography, synthesis of organic products.

FO0025 Formamide, extra pure



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
FO00251000	1 l	Ø	FO00252500	2,5 l	Ø

FO0026 Formamide, reagent grade, ACS



assay (as N) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
FO00261000	1 l	Ø	FO00262500	2,5 l	Ø

FO0027 Formamide, molecular biology grade



assay (as N)min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
FO00270100	100 ml	Ø

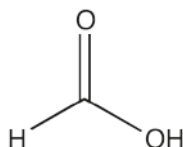
FO0028 Formamide, dried (max. 0,02% H₂O), reagent grade (Karl Fischer)



assay (as N) min. 99,5 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container
FO00281000	1 l	Ø

Formic acid, 98 - 100%



- Synonyms: Methanoic acid, Formylic acid
- HCOOH
- M = 46,03 g/mol
- CAS [64-18-6]
- EINECS-No.: 200-579-1
- Density: 1,22 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ 8 °C
- Boiling point: 101 °C
- Flash pt. 48 °C
- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) 42 hPa
- Refraction index: (n 20 °C/D) 1,3714
- Dielectric const.: (16 °C) 58,5
- LD 50 (oral, rat): 730 mg/kg
- EC-Index-No.: 607-001-00-0
- ADR: 8 CF1 II UN 1779
- IMDG: 8 II UN 1779
- IATA/ICAO: 8 II UN 1779
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 11 00 00
- Applications: analytical chemistry, synthesis of organic products, in the rubber industry, acidifying agent, cosmetics.

AC1086 Formic acid, 98 - 100%, extra pure

assay (acidimetric)min. 98 %
residue on evaporation.....max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC10861000	1 l	0	AC1086005P	5 l	0
AC10862500	2,5 l	0	AC1086025P	25 l	0

AC1085 Formic acid, 98 - 100%, reagent grade, ACS, Reag. Ph Eur

assay (acidimetric)min. 98 %
residue on evaporation.....max. 0,001 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC10851000	1 l	0	AC1085005P	5 l	0
AC10852500	2,5 l	0	AC1085025P	25 l	0

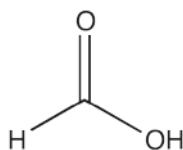
AC1076 Formic acid, eluent additive for LC-MS

assay (acidimetric)98 - 100 %
suitability for use in LC-MS.....passes test

Art. No.	Volume	Container
AC10760050	50 ml	0

Formic acid, 90,1% ± 0,1%

AC1083 Formic acid, solution 90,1% ± 0,1% w/w, reagent grade

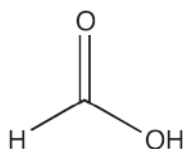


- Synonyms: Methanoic acid, Formylic acid
- HCOOH
- M = 46,03 g/mol
- CAS [64-18-6]
- EINECS-No.: 200-579-1
- Density: ~ 1,2 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -9 °C
- Boiling point: 107 °C
- Flash pt. 60 °C
- Ignition temp.: 485 °C
- LD 50 (oral, rat): 730 mg/kg (pure substance)
- EC-Index-No.: 607-001-00-0
- ADR: 8 CF1 II UN 1779
- IMDG: 8 II UN 1779
- IATA/ICAO: 8 II UN 1779
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 11 00 00
- Applications: analytical chemistry, synthesis of organic products, in the rubber industry, acidifying agent, cosmetics.

assay (acidimetric)90,0 - 90,2 %

Art. No.	Volume	Container
AC10831000	1 l	0
AC10832500	2,5 l	0

Formic acid, 85%



- Synonyms: Methanoic acid, Formylic acid
- HCOOH
- M = 46,03 g/mol
- CAS [64-18-6]
- EINECS-No.: 200-579-1
- Density: ~ 1,2 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -9 °C
- Boiling point: ~ 107 °C
- Flash pt. 69 °C
- LD 50 (oral, rat): 730 mg/kg (pure substance)
- EC-Index-No.: 607-001-00-0
- ADR: 8 C3 II UN 3412
- IMDG: 8 II UN 3412
- IATA/ICAO: 8 II UN 3412
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 11 00 00
- Applications: analytical chemistry, synthesis of organic products, in the rubber industry, acidifying agent, cosmetics.

AC1080 Formic acid, solution 85% w/w, extra pure

assay (acidimetric)min. 85 %
residue on evaporation.....max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC10801000	1 l	0	AC1080005P	5 l	0
AC10802500	2,5 l	0	AC1080025P	25 l	0

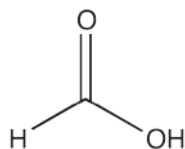
AC1081 Formic acid, solution 85% w/w, reagent grade

assay (acidimetric)min. 85 %
 colour (Hazen) max. 10

Art. No.	Volume	Container	Art. No.	Volume	Container
AC10811000	1 l	0	AC1081005P	5 l	0
AC10812500	2,5 l	0			

Formic acid, solution 10%

AC1075 Formic acid, solution 10% in water, for cleaning purposes, LC-MS



- Synonyms: Methanoic acid, Formylic acid
- CAS [64-18-6]
- EINECS-No.: 200-579-1
- EC-Index-No.: 607-001-00-0
- ADR: 8 C3 II UN 3265
- IMDG: 8 II UN 3265
- IATA/ICAO: 8 II UN 3265
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a

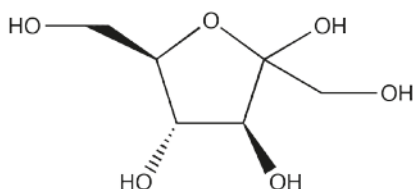
- Tariff number: 2915 11 00 00
- Applications: analytical chemistry, chromatography.

formic acid content (v/v)9,5 - 10,5 %
 suitability for use in LC-MSpasses test

Art. No.	Volume	Container
AC10751000	1 l	0

D(-)-Fructose

LE0070 D(-)-Fructose, extra pure, Pharmpur®, Ph Eur, BP, USP



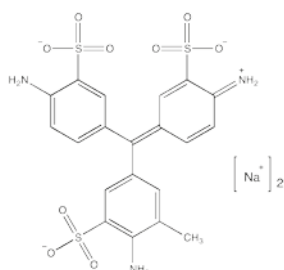
- Synonyms: Levulose, Laevulose
- C₆H₁₂O₆
- M = 180,16 g/mol
- CAS [57-48-7]
- EINECS-No.: 200-333-3
- Solub. in water: (20 °C): 500 g/l
- Melting point: 100 - 110 °C (decomposes)
- Tariff number: 1702 50 00 00
- Applications: analytical chemistry, in food industry, synthesis of organic products, nutrient media for bacterial culture, in pharma industry.

assay (C6H12O6)98 - 102 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
LE00700500	500 g	0
LE00701000	1 kg	0

Fuchsin acid, C.I. 42685

FU0055 Fuchsin acid, C.I. 42685, for microscopy



- C₂₀H₁₇N₃Na₂O₃S₃
- M = 585,54 g/mol
- CAS [3244-88-0]
- EINECS-No.: 221-816-5
- Solub. in water: (20 °C): 200 g/l
- Melting point: > 130 °C (decomposes)
- Tariff number: 3204 12 00 00
- Applications: indicator, manufacturing of inks (for biology), microscopy.

Art. No.	Volume	Container
FU00550010	10 g	0
FU00550025	25 g	0
FU00550050	50 g	0
FU00550100	100 g	0

Fuchsin basic, carbol solution, according to Ziehl

FU0065 Fuchsin basic, carbol solution, according to Ziehl

- Density: 0,98 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 47 °C
- ADR: 8 CF1 II UN 2920
- IMDG: 8 II UN 2920
- IATA/ICAO: 8 II UN 2920

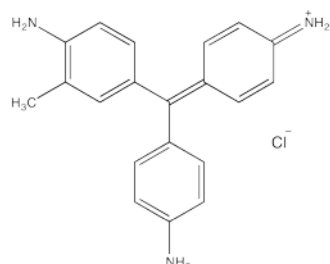
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226 - H341
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a -
- Tariff number: 3204 13 00 90
- Applications: microscopy.

- Appearance: Red liquid

Art. No.	Volume	Container
FU00650500	500 ml	0
FU00652500	2,5 l	0

Fuchsin basic, C.I. 42510

FU0060 Fuchsin basic, C.I. 42510, for microscopy

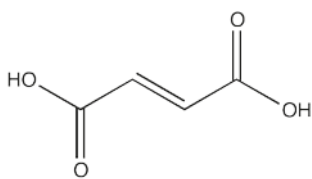


- C₂₀H₂₀ClN₃
- M = 337,85 g/mol
- CAS [632-99-5]
- EINECS-No.: 211-189-6
- Solub. in water: (25 °C): 4 g/l
- Melting point: ~ 235 °C (decomposes)
- GHS-signal word: Danger
- GHS-H sentences: H334 - H351 - H302 - H317
- GHS-P sentences: P285 - P261 - P280 - P321 - P405 - P501a -
- Tariff number: 3204 13 00 90
- Applications: microscopy.

Art. No.	Volume	Container
FU00600025	25 g	0
FU00600100	100 g	0
FU0060005P	5 kg	0

Fumaric acid

AC1155 Fumaric acid, extra pure



- Synonyms: trans-Butenedioic acid
- $C_4H_4O_4$
- $M = 116,07$ g/mol
- CAS [110-17-8]
- EINECS-No.: 203-743-0
- Solub. in water: (20 °C): 4,9 g/l
- Melting point: 287 °C
- Boiling point: 290 °C
- Flash pt. 273 °C
- Ignition temp.: 375 °C
- Vapour pressure: (20 °C) < 0,001 hPa
- LD 50 (oral, rat): 9300 mg/kg
- EC-Index-No.: 607-146-00-X
- GHS-signal word: Warning

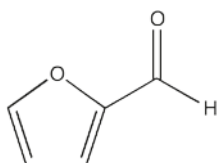
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2917 19 90 90
- Applications: antioxidant, manufacturing of synthetic resins, manufacture of dyes, synthesis of organic products.

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
AC11551000	1 kg	⓪

Furfural

FU0090 Furfural, synthesis grade



- Synonyms: 2-Furaldehyde, 2-Furancarbaldehyde, Furylmethanal
- $C_5H_4O_2$
- $M = 96,09$ g/mol
- CAS [98-01-1]
- EINECS-No.: 202-627-7
- Density: 1,16 g/cm³
- Solub. in water: (20 °C): 83 g/l
- Melting point: -37 °C
- Boiling point: 162 °C
- Flash pt. 60 °C
- Ignition temp.: 315 °C
- Vapour pressure: (20 °C) 1 hPa
- Dielectric const.: (20 °C) 41,9
- LD 50 (oral, rat): 65 mg/kg
- EC-Index-No.: 605-010-00-4
- ADR: 6.1 TF1 II UN 1199
- IMDG: 6.1 II UN 1199

- IATA/ICAO: 6.1 II UN 1199
- GHS-signal word: Danger
- GHS-H sentences: H301 - H331 - H226 - H351 - H312 - H315 - H319 - H335
- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2932 12 00 00
- Applications: analytical chemistry, for the detection of: aromatic amines, insecticide, fungicide, solvents.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
FU00901000	1 l	⓪
FU0090005P	5 l	ⓐ

ICP Standards

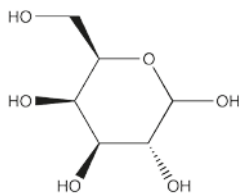
Pure confidence



- All directly traceable to the NIST
- Produced in an accredited ISO 17025 and ISO Guide 34 laboratory
- Wide range of single element standards and also multielement mixtures on demand
- The Certificate of Analysis always supplied with the product
- Tested by gravimetric, volumetric or ICP methods

D(+)-Galactose

GA0025 D(+)-Galactose, extra pure, Pharmapur®, Ph Eur, BP



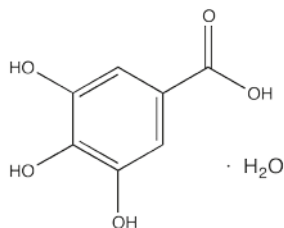
- Synonyms: Lactoglucose, D-Galactopyranose
- $C_6H_{12}O_6$
- M = 180,16 g/mol
- CAS [59-23-4]
- EINECS-No.: 200-416-4
- Solub. in water: (20 °C): 650 g/l
- Melting point: 163 - 169 °C
- Tariff number: 2940 00 00 80
- Applications: analytical chemistry, in food industry, in biochemistry, nutrient media for bacterial culture, in pharma industry.

identity (IR-spectrum) passes test
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
GA00250100	100 g	0

Gallic acid monohydrate

AC1180 Gallic acid monohydrate, extra pure



- Synonyms: 3,4,5-Trihydroxybenzoic acid
- $C_7H_6O_5 \cdot H_2O$
- M = 188,14 g/mol
- CAS [5995-86-8]
- EINECS-No.: 205-749-9
- Solub. in water: (20 °C): ~ 15 g/l
- Melting point: 256 - 260 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a

- Tariff number: 2918 29 00 90
 - Applications: analytical chemistry, photography, manufacture of dyes, cosmetics.
- assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AC11800250	250 g	0
AC11800500	500 g	0
AC1180025P	25 kg	0

Gelatine powder

GE0020 Gelatine powder, for analysis and bacteriology

- Synonyms: Gelatin powder
- CAS [9000-70-8]
- EINECS-No.: 232-554-6
- Solub. in water: soluble in hot water
- Boiling point: 100 °C
- LD 50 (oral, rat): > 5000 mg/kg

- Tariff number: 3503 00 10 00
- Applications: in food industry, in the rubber industry, for pharmaceuticals synthesizing, plasticizer, for microbiology, nutrient media for bacterial culture, analytical chemistry.

Art. No.	Volume	Container
GE00200250	250 g	0
GE00201000	1 kg	0

Gentian violet, carbol solution

VI0032 Gentian violet, carbol solution, for microscopy

- Density: 0,988 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210

- Tariff number: 3503 00 10 00
- Applications: microscopy, bacterium staining.

Art. No.	Volume	Container
VI00320500	500 ml	0

Glass wool

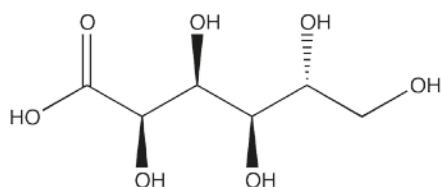
LA0075 Glass wool, washed

- CAS [65997-17-3]
- EINECS-No.: 266-046-0
- Solub. in water: (20 °C): insoluble
- Tariff number: 7019 90 00 90
- Applications: for laboratory uses.

Art. No.	Volume	Container
LA00750100	100 g	0
LA00750250	250 g	0
LA00751000	1 kg	0

Gluconic acid, solution 50%

AC1200 Gluconic acid, solution 50% w/w, extra pure



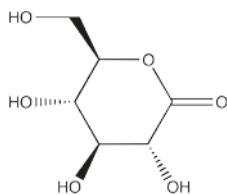
- Synonyms: Dextronic acid, Maltonic acid, Glyconic acid, Pentahydroxycaproic acid
- $C_6H_{12}O_7$
- M = 196,16 g/mol
- CAS [526-95-4]
- EINECS-No.: 208-401-4
- Density: 1,24 g/cm³
- Solub. in water: (20 °C): freely miscible

- Boiling point: 105 - 106 °C
- Tariff number: 2918 16 00 00
- Applications: synthesis of organic products, whitener agent.

Art. No.	Volume	Container
AC12000250	250 ml	0

D-Glucono-d-lactone

GL0110 D-Glucono-d-lactone, synthesis grade



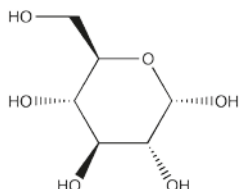
- Synonyms: D(+) -Glucono-1,5-lactone, δ-Glucono-lactone, D(+) -Dextronic acid δ-lactone
- $C_6H_{10}O_6$
- $M = 178,14$ g/mol
- CAS [90-80-2]
- EINECS-No.: 202-016-5
- Solub. in water: (20 °C): ~ 590 g/l
- Melting point: 153 °C
- Tariff number: 2932 20 90 90

- Applications: laboratory reagent, synthesis of organic products, in food industry.

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
GL01100250	250 g	⊘

D(+)-Glucose anhydrous



- Synonyms: Dextrose
- $C_6H_{12}O_6$
- $M = 180,16$ g/mol
- CAS [50-99-7]
- EINECS-No.: 200-075-1
- Solub. in water: (20 °C): ~ 470 g/l
- Melting point: ~ 146 °C
- Ignition temp.: ~ 500 °C

- LD 50 (oral, rat): 25800 mg/kg
- Tariff number: 1702 30 51 00
- Applications: analytical chemistry, in biochemistry, for pharmaceuticals synthesizing, in food industry, in pharma industry.

GL0125 D(+)-Glucose anhydrous, extra pure, Ph Eur, BP, USP

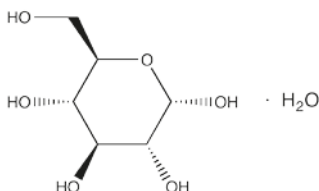
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
GL01250500	500 g	⊘	GL0125025P	25 kg	⊞
GL01251000	1 kg	⊘			

GL0127 D(+)-Glucose anhydrous, reagent grade, ACS, Reag. Ph Eur

Art. No.	Volume	Container	Art. No.	Volume	Container
GL01270250	250 g	⊘	GL0127005P	5 kg	⊞
GL01271000	1 kg	⊘			

D(+)-Glucose monohydrate



- Synonyms: Dextrose, Blood sugar
- $C_6H_{12}O_6 \cdot H_2O$
- $M = 198,17$ g/mol
- CAS [14431-43-7]
- EINECS-No.: 200-075-1
- Solub. in water: (20 °C): ~ 470 g/l
- Melting point: ~ 83 °C
- Ignition temp.: ~ 500 °C

- LD 50 (oral, rat): 25800 mg/kg (anhydrous substance)
- Tariff number: 1702 30 51 00
- Applications: synthesis of organic products, in food industry, nutrient media for bacterial culture, for pharmaceuticals synthesizing, in pharma industry.

GL0129 D(+)-Glucose monohydrate, extra pure, Ph Eur, BP, USP

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
GL01290500	500 g	⊘	GL0129005P	5 kg	⊞
GL01291000	1 kg	⊘	GL0129025P	25 kg	⊞

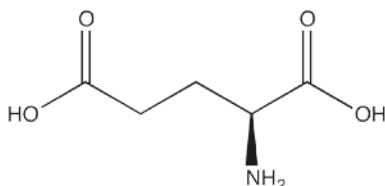
GL0130 D(+)-Glucose monohydrate, crystallized, Ph Eur, USP, GMP, suitable for use as excipient

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
GL01301000	1 kg	⊘	GL0130025P	25 kg	⊞

L-Glutamic acid

AC1225 L-Glutamic acid, extra pure, Ph Eur, BP



- Synonyms: L-α-Aminoglutaric acid, (S)-2-Aminopentanedioic acid
- $C_5H_9NO_4$
- $M = 147,13$ g/mol
- CAS [56-86-0]
- EINECS-No.: 200-293-7
- Solub. in water: (25 °C): ~ 11,1 g/l
- Melting point: 160 °C
- LD 50 (oral, rat): > 30000 mg/kg
- Tariff number: 2922 42 00 90

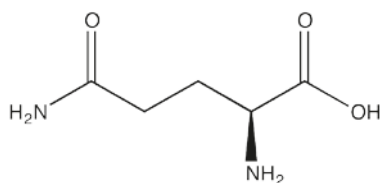
- Applications: in biochemistry, in food industry, in pharma industry.

assay (acidimetric) 98,5 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC12250250	250 g	⊘
AC12251000	1 kg	⊘

L-Glutamine

GL0165 L-Glutamine, extra pure, Pharmapur®, USP



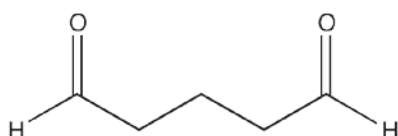
- Synonyms: L-Glutamic acid-5-amide
- $C_5H_{10}N_2O_3$
- M = 146,15 g/mol
- CAS [56-85-9]
- EINECS-No.: 200-292-1
- Solub. in water: (18 °C): 26 g/l
- Melting point: 185 - 186 °C
- LD 50 (oral, rat): 7500 mg/kg
- Tariff number: 2924 19 00 90
- Applications: in biochemistry, analytical chemistry, for pharmaceuticals synthesizing, synthesis of organic products, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 98,5 - 101,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
GL01650100	100 g	0

Glutardialdehyde, solution 25%

GL0170 Glutardialdehyde, solution 25% w/w, extra pure



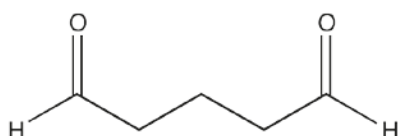
- Synonyms: Pentanedial, Glutaraldehyde, Glutaric dialdehyde
- $C_5H_8O_2$
- M = 100,12 g/mol
- CAS [111-30-8]
- EINECS-No.: 203-856-5
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -7 °C
- Boiling point: ~ 100 °C
- LD 50 (oral, rat): 134 mg/kg (pure substance)
- EC-Index-No.: 605-022-00-X
- ADR: 6.1 TC1 II UN 2927
- IMDG: 6.1 II UN 2927

- IATA/ICAO: 6.1 II UN 2927
- GHS-signal word: Danger
- GHS-H sentences: H334 - H314 - H400 - H302 - H332 - H335 - H317
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2912 19 00 00
- Applications: analytical chemistry, in sterilization of endoscopic instruments, cosmetics.
- Appearance: Colourless, clear liquid

Art. No.	Volume	Container
GL01700250	250 ml	0
GL01701000	1 l	0

Glutardialdehyde, solution 50%

GL0168 Glutardialdehyde, solution 50% w/w, extra pure

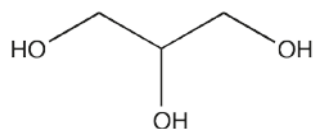


- Synonyms: Pentanedial, Glutaraldehyde, Glutaric dialdehyde
- $C_5H_8O_2$
- M = 100,12 g/mol
- CAS [111-30-8]
- EINECS-No.: 203-856-5
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -21 °C
- Boiling point: 100,5 °C
- Flash pt. > 100 °C
- Ignition temp.: > 225 °C
- Vapour pressure: (20 °C) 0,27 hPa
- LD 50 (oral, rat): 134 mg/kg (pure substance)
- EC-Index-No.: 605-022-00-X
- ADR: 6.1 TC1 II UN 2927

- IMDG: 6.1 II UN 2927
- IATA/ICAO: 6.1 II UN 2927
- GHS-signal word: Danger
- GHS-H sentences: H301 - H331 - H334 - H314 - H400 - H317 - H335
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2912 19 00 00
- Applications: analytical chemistry, in sterilization of endoscopic instruments, cosmetics.
- Appearance: Clear liquid

Art. No.	Volume	Container
GL01680250	250 ml	0
GL01681000	1 l	0

Glycerol



- Synonyms: Glycerin, 1,2,3-Propanetriol
- $C_3H_8O_3$
- M = 92,10 g/mol
- CAS [56-81-5]
- EINECS-No.: 200-289-5
- Density: 1,26 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 18 °C
- Boiling point: (0,09 hPa) 120 °C

- Flash pt. 199 °C
- Ignition temp.: 400 °C
- Vapour pressure: (20 °C) < 0,001 hPa
- LD 50 (oral, rat): 12600 mg/kg
- Tariff number: 2905 45 00 00
- Applications: analytical chemistry, synthesis of organic products, in explosive compositions, cosmetics, for pharmaceuticals synthesizing.

GL0027 Glycerol, 99%, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (acidimetric, on dried sample) 99 - 101 %
water (K.F.) max. 2 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
GL00271000	1 l	0	GL0027005P	5 l	0
GL00272500	2,5 l	0	GL0027025P	25 l	0

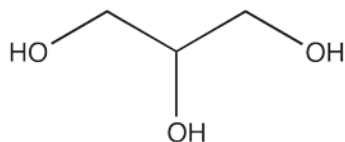
GL0026 Glycerol, 99,5%, reagent grade, ACS, Reag. Ph Eur

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
GL00261000	1 l	0	GL0026005P	5 l	0
GL00262500	2,5 l	0			

GL0028 Glycerol anhydrous, molecular biology grade
 assay (acidimetric)min. 99 %
 DNases, RNases, Proteases non detected

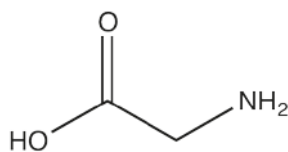
Art. No.	Volume	Container	Art. No.	Volume	Container
GL00280100	100 ml	Ø	GL00281000	1 l	Ø

Glycerol, 86 - 88%**GL0023 Glycerol, solution 86 - 88% w/w, reagent grade, ISO**

- Synonyms: Glycerin, 1,2,3-Propanetriol
- $C_3H_8O_3$
- $M = 92,10 \text{ g/mol}$
- CAS [56-81-5]
- EINECS-No.: 200-289-5
- Density: $1,23 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: $17,8 \text{ °C}$
- Boiling point: $> 130 \text{ °C}$
- Flash pt. 199 °C
- Ignition temp.: $\sim 429 \text{ °C}$
- Vapour pressure: (20 °C) $\sim 8 \text{ hPa}$

- Dielectric const.: (20 °C) 42,5
- LD 50 (oral, rat): 12600 mg/kg (pure substance)
- Tariff number: 2905 45 00 00
- Applications: solvents, humectant, plasticizer, in food industry, cosmetics, in antifreeze compositions, in lubricant compositions.

Art. No.	Volume	Container
GL00231000	1 l	Ø
GL0023005P	5 l	Ø

Glycine

- Synonyms: Aminoacetic acid, Glycocoll
- $C_2H_5NO_2$
- $M = 75,07 \text{ g/mol}$
- CAS [56-40-6]
- EINECS-No.: 200-272-2
- Solub. in water: (20 °C): 225 g/l
- Melting point: $232 - 236 \text{ °C}$ (decomposes)
- LD 50 (oral, rat): 7930 mg/kg

- Tariff number: 2922 49 10 00
- Applications: analytical chemistry, in buffer solutions (for electrophoresis), for pharmaceuticals synthesizing, in food industry.

AC0402 Glycine, extra pure, Pharmapur®, Ph Eur, BP, USP
 assay (titration with $HClO_4$, on dried sample) 98,5 - 101 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC04020250	250 g	Ø	AC0402005P	5 kg	Ø
AC04021000	1 kg	Ø	AC0402025P	25 kg	Ø

AC0405 Glycine, crystallized, Pharmapur®, Ph Eur, USP, JP, GMP, suitable for use as excipient

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

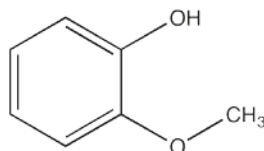
Art. No.	Volume	Container	Art. No.	Volume	Container
AC04051000	1kg	Ø	AC0405025P	25 kg	Ø

AC0404 Glycine, reagent grade, ACS, Reag. Ph Eur
 assay (titration with $HClO_4$) min. 99,7 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC04040250	250 g	Ø	AC0404005P	5 kg	Ø
AC04041000	1 kg	Ø	AC0404025P	25 kg	Ø

AC0406 Glycine, molecular biology grade
 assay (titration with $HClO_4$) min. 99,7 %
 DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
AC04060100	100 g	Ø	AC04061000	1 kg	Ø

Guaiacol**GU0115 Guaiacol, synthesis grade**

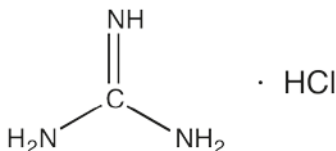
- Synonyms: O-Methoxyphenol, Methylcatechol, 1-Hydroxy-2-methoxybenzene, 2-Methoxyphenol, Pyrocatechol monomethyl ether, 2-Hydroxyanisole
- $C_7H_8O_2$
- $M = 124,14 \text{ g/mol}$
- CAS [90-05-1]
- EINECS-No.: 201-964-7
- Density: $1,13 \text{ g/cm}^3$
- Solub. in water: (30 °C): 15 g/l
- Melting point: $28 - 32 \text{ °C}$
- Boiling point: 205 °C
- Flash pt. 82 °C
- Ignition temp.: 750 °C
- Vapour pressure: (25 °C) $0,1 \text{ hPa}$
- LD 50 (oral, rat): 520 mg/kg

- EC-Index-No.: 604-031-00-6
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2909 50 00 90
- Applications: perfumery, in food industry.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
GU01150250	250 ml	Ø
GU01151000	1 l	Ø

Guanidine hydrochloride



- Synonyms: Guanidinium chloride, Aminomethanamide hydrochloride, Carbamidine hydrochloride
- $\text{CH}_5\text{N}_3\cdot\text{HCl}$
- $M = 95,53 \text{ g/mol}$
- CAS [50-01-1]
- EINECS-No.: 200-002-3
- Solub. in water: (20 °C): soluble
- Melting point: 185 °C
- LD 50 (oral, rat): 475 mg/kg

- EC-Index-No.: 607-148-00-0
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2925 29 00 90
- Applications: synthesis of organic products, in biochemistry, for pharmaceuticals synthesizing.

GU0060 Guanidine hydrochloride, synthesis grade

assay (argentometric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
GU00600250	250 g	Ⓟ	GU00601000	1 kg	Ⓟ

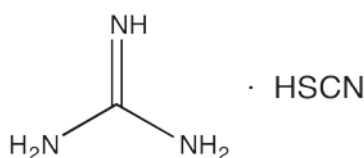
GU0061 Guanidine hydrochloride, molecular biology grade

assay (titration with HClO_4) min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
GU00610100	100 g	Ⓟ	GU00611000	1 kg	Ⓟ

Guanidine thiocyanate

GU0065 Guanidine thiocyanate, molecular biology grade



- Synonyms: Aminomethanamidine thiocyanate, Carbamidine thiocyanate
- $\text{C}_2\text{H}_5\text{N}_3\text{S}$
- $M = 118,16 \text{ g/mol}$
- CAS [593-84-0]
- EINECS-No.: 209-812-1
- Solub. in water: (20 °C): soluble
- Melting point: 118 °C
- EC-Index-No.: 615-004-00-3
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332 - H412 - EUH032

- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2925 29 00 90
- Applications: laboratory reagent (for biology), for pharmaceuticals synthesizing, in buffer solutions.
- Appearance: White to light yellow powder

assay (argentometric)min. 99 %
RNases non detected

Art. No.	Volume	Container
GU00650250	250 g	Ⓟ

Gum arabic

GO0020 Gum arabic, powder, extra pure, Pharmpur®, Ph Eur, BP

- Synonyms: Acacia
- CAS [9000-01-5]
- EINECS-No.: 232-519-5
- Solub. in water: (20 °C): 500 g/l
- Flash pt. > 250 °C
- LD 50 (oral, rat): > 16000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319

- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 1301 20 00 00
- Applications: emulsifier and thickener (in food industry), manufacture of adhesives, stabilizer, in pharma industry.

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
GO00200100	100 g	Ⓟ
GO00200500	500 g	Ⓟ
GO00201000	1 kg	Ⓟ

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Hanus solution

RE0020 Hanus solution, IBr solution 0,1 mol/l (0,2 N)



- Synonyms: Iodine solution according to Hanus
- IBr
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. ~ 40 °C
- LD 50 (oral, rat): 3310 mg/kg (chief component)
- ADR: 8 CF1 II UN 2920
- IMDG: 8 II UN 2920
- IATA/ICAO: 8 II UN 2920
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for determination of: iodine.

- Appearance: Brown liquid

suitability for det. of iodine
index passes test

Art. No.	Volume	Container
RE00201000	1 l	0

Hematoxylin, according to Harris

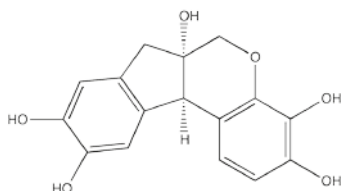
HE0060 Hematoxylin, according to Harris

- C₁₆H₁₄O₆
- Density: 1,075 g/cm³
- Solub. in water: miscible
- Tariff number: 3203 00 19 00
- Applications: for cytology.
- for the histochemical demonstration of fetal hemoglobin

Art. No.	Volume	Container
HE00600500	500 ml	0
HE00601000	1 l	0
HE00602500	2,5 l	0

Hematoxylin, C.I. 75290

HE0070 Hematoxylin, C.I. 75290, pH indicator



- Synonyms: cis-(+)-7,11β-Dihydrobenz[β]indeno[1,2-b]pyran-3,4,6a,9,10(6H)pentol, Hydroxy-brasilin
- C₁₆H₁₄O₆
- M = 302,29 g/mol
- CAS [517-28-2]
- EINECS-No.: 208-237-3
- Solub. in water: (20 °C): slightly soluble
- Melting point: ~ 140 °C (release of crystalline water)
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332

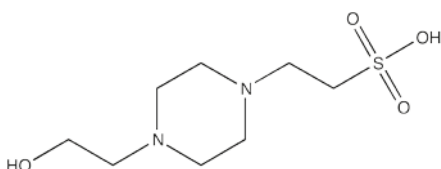
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 3203 00 10 00
- Applications: manufacture of dyes (microscopy), manufacturing of inks.

pH range (yellow to violet) 5,0 - 7,2

Art. No.	Volume	Container
HE00700005	5 g	0
HE00700025	25 g	0

HEPES free acid

HE0100 HEPES free acid, molecular biology grade



- Synonyms: 4-(2-Hydroxyethyl)-1-piperazineethanesulfonic acid, N-(2-Hydroxyethyl)-piperazine-N'-(2-ethanesulfonic acid)
- C₈H₁₈N₂O₄S
- M = 238,3 g/mol
- CAS [7365-45-9]
- EINECS-No.: 230-907-9
- Solub. in water: (20 °C): 400 g/l
- Melting point: 210 - 215 °C
- Tariff number: 2933 59 95 90

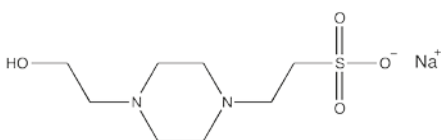
- Applications: in buffer solutions (for biology).

assay (acidimetric) min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
HE01000025	25 g	0
HE01000250	250 g	0

HEPES, sodium salt

HE0011 HEPES, sodium salt, molecular biology grade



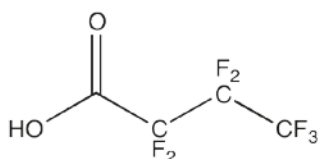
- Synonyms: N-(2-Hydroxyethyl)-piperazine-N'-(2-ethanesulfonic acid) sodium salt
- C₈H₁₇N₂NaO₄S
- M = 260,28 g/mol
- CAS [75277-39-3]
- EINECS-No.: 278-169-7
- Tariff number: 2933 59 95 90
- Applications: laboratory reagent, analytical chemistry, in buffer solutions, for biology.

assay (titr. with HClO₄, referred to dried sample) min. 99 %

Art. No.	Volume	Container
HE00110025	25 g	0
HE00110250	250 g	0

Heptafluorobutyric acid

AC1235 Heptafluorobutyric acid, 99,5%

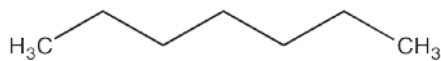


- Synonyms: Perfluorobutyric acid, HFBA, Edman reagent No. 3
- C₄HF₇O₂
- M = 214,04 g/mol
- CAS [375-22-4]
- EINECS-No.: 206-786-3
- Density: 1,645 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -17,5 °C
- Boiling point: (755mm Hg) 120 °C
- ADR: 8 C3 III UN 3265

- IMDG: 8 III UN 3265
- IATA/ICAO: 8 III UN 3265
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 90 80 90
- Applications: synthesis of organic products.

Art. No.	Volume	Container
AC12350100	100 ml	0

n-Heptane



- Synonyms: n-Dipropylmethane, n-Heptylhydride
- C_7H_{16}
- M = 100,21 g/mol
- CAS [142-82-5]
- EINECS-No.: 205-563-8
- Density: 0,68 g/cm³
- Solub. in water: (20 °C): almost non-miscible
- Melting point: -90,6 °C
- Boiling point: 98,4 °C
- Flash pt. -4 °C
- Ignition temp.: 215 °C
- Vapour pressure: (20 °C) 48 hPa
- Refraction index: (n 20 °C/D) 1,3876
- Dielectric const.: (20 °C) 1,9
- LD 50 (oral, rat): > 15000 mg/kg
- EC-Index-No.: 601-008-00-2
- ADR: 3 F1 II UN 1206
- IMDG: 3 II UN 1206
- IATA/ICAO: 3 II UN 1206
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H410 - H315 - H336
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: analytical chemistry, as gasoline additive.

HE0123 n-Heptane, 95%, synthesis grade



assay (G.C.)min. 95 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HE01231000	1 l	0	HE0123025L	25 l	1
HE01232500	2,5 l	0			

HE0125 n-Heptane, 99%, extra pure



assay (G.C.)min. 99 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HE01251000	1 l	0	HE0125025A	25 l	1
HE01252500	2,5 l	0	HE0125200L	200 l	1
HE0125005L	5 l	1			

HE0127 n-Heptane, 99%, reagent grade, Reag. Ph Eur



assay (G.C.)min. 99,2 %
residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HE01271000	1 l	0	HE0127025A	25 l	1
HE01272500	2,5 l	0	HE0127025S	25 l	1
HE0127007E	7 l	0	HE0127200L	200 l	1

HE0131 n-Heptane, 99%, HPLC grade



assay (G.C.)min. 99,3 %
residue on evaporationmax. 0,0002 %
water (K.F.)max. 0,01 %
min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
T(%) A (AU)
200 nm.20 % 0,699 AU
210 nm.50 % 0,301 AU
227 nm.90 % 0,046 AU

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
HE01311000	1 l	0
HE01312500	2,5 l	0
HE01314000	4 l	0
HE0131007E	7 l	0
HE0131025S	25 l	1

HE0126 n-Heptane, 99%, anhydrous (max. 0,003% H₂O)



water (K.F.)max. 0,003 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HE01260100	100 ml	0	HE01260500	500 ml	0

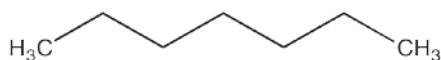
HE0135 n-Heptane, 99%, ASTM



Art. No.	Volume	Container	Art. No.	Volume	Container
HE01352500	2,5 l	0	HE0135200L	200 l	1
HE0135025A	25 l	1			

Heptane, fraction from petroleum

HE0120 Heptane, fraction from petroleum, extra pure



C_7H_{16}
• M = 100,21 g/mol
• CAS [142-82-5]
• EINECS-No.: 205-563-8
• Density: 0,715 g/cm³

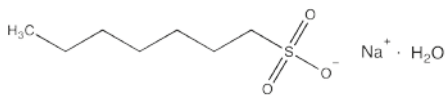
- Boiling point: 93 - 99 °C
- Flash pt. -4 °C
- Vapour pressure: (20 °C) 48 hPa
- Dielectric const.: (20 °C) 1,9
- EC-Index-No.: 601-008-00-2
- ADR: 3 F1 II UN 1206
- IMDG: 3 II UN 1206
- IATA/ICAO: 3 II UN 1206
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H410 - H315 - H336
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: analytical chemistry, for spectroscopy.

boiling range.93 - 99 °C
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container
HE01201000	1 l	0
HE01202500	2,5 l	0
HE0120005L	5 l	1
HE0120025A	25 l	1
HE0120025S	25 l	1
HE0120030S	30 l	0
HE0120200E	200 l	0

Heptane sulfonic acid, sodium salt monohydrate

AC1242 1-Heptane sulfonic acid, sodium salt monohydrate, HPLC grade

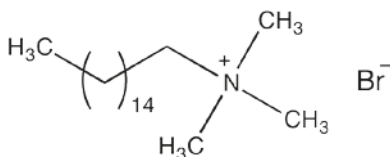


- Synonyms: Sodium 1-heptylsulfonate monohydrate
- $C_7H_{15}NaO_3S \cdot H_2O$
- $M = 220,26 \text{ g/mol}$
- CAS [207300-90-1]
- EINECS-No.: 245-210-5
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, laboratory reagent, chromatography.
- assay (acidimetric)min. 99 %

max. absorbance of an aqueous sol. 0,25 M in a 1 cm cell at wavelength: absorbance:
 210 nm. 0,1 AU
 220 nm. 0,06 AU
 230 nm. 0,04 AU
 260 nm. 0,02 AU

Art. No.	Volume	Container
AC12420025	25 g	0
AC12420100	100 g	0

Hexadecyltrimethylammonium bromide



- Synonyms: Cetrimum bromide, Trimethylhexadecylammonium bromide, N-Cetyl-N,N,N-trimethylammonium bromide, CTAB
- $C_{19}H_{42}BrN$
- $M = 364,46 \text{ g/mol}$
- CAS [57-09-0]
- EINECS-No.: 200-311-3
- Solub. in water: (20 °C): 3 g/l
- Melting point: 237 - 243 °C
- LD 50 (oral, rat): 410 mg/kg

- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H400 - H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2923 90 00 90
- Applications: chromatography, detergent, antiseptic, laboratory reagent, synthesis of organic products.

BR0168 Hexadecyltrimethylammonium bromide, extra pure

assay (argentometric)min. 96 %

Art. No.	Volume	Container
BR01680025	25 g	0

Art. No.	Volume	Container
BR01680250	250 g	0

BR0170 Hexadecyltrimethylammonium bromide, HPLC grade

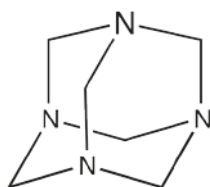
assay (argentometric)min. 97 %

maximum absorbance of a solution in methanol (10%) in a 1,0 cm cell at wavelength: absorbance:
 240 nm. 0,07 AU
 250 nm. 0,05 AU
 260 nm. 0,04 AU

Art. No.	Volume	Container
BR01700025	25 g	0

Hexamethylenetetramine

HE0200 Hexamethylenetetramine, synthesis grade



Synonyms: Hexamine, Methenamine, Formin, Urotropin

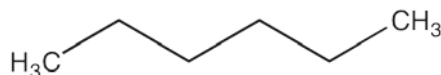
- $C_6H_{12}N_4$
- $M = 140,19 \text{ g/mol}$
- CAS [100-97-0]
- EINECS-No.: 202-905-8
- Solub. in water: (20 °C): 100 g/l
- LD 50 (oral, rat): 9200 mg/kg
- EC-Index-No.: 612-101-00-2
- ADR: 4.1 F1 III UN 1328
- IMDG: 4.1 III UN 1328
- IATA/ICAO: 4.1 III UN 1328
- GHS-signal word: Warning
- GHS-H sentences: H228 - H317

- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P321 - P501a
- Tariff number: 2933 69 20 00
- Applications: manufacture of adhesives, in the rubber industry, corrosion inhibitor (steel), in explosive compositions, stabilizer.

assay (titration with $HClO_4$)min. 99 %

Art. No.	Volume	Container
HE02000500	500 g	0
HE02001000	1 kg	0

n-Hexane



- Synonyms: n-Caproylhydride, n-Hexylhydride
- C_6H_{14}
- $M = 86,18 \text{ g/mol}$
- CAS [110-54-3]
- EINECS-No.: 203-777-6
- Density: $0,66 \text{ g/cm}^3$
- Solub. in water: (20 °C): 0,0095 g/l
- Melting point: -94,3 °C
- Boiling point: 69 °C
- Flash pt. -22 °C
- Ignition temp.: 240 °C
- Vapour pressure: (20 °C) 160 hPa

- Dielectric const.: (20 °C) 1,8
- LD 50 (oral, rat): 28710 mg/kg
- EC-Index-No.: 601-037-00-0
- ADR: 3 F1 II UN 1208
- IMDG: 3 II UN 1208
- IATA/ICAO: 3 II UN 1208
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H361f - H373 - H315 - H336 - H411
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00

HE0232 n-Hexane, min. 99%, reagent grade, ACS

assay (G.C.)min. 99 %
 residue on evaporationmax. 0,0005 %
 water (K.F.)max. 0,005 %

Art. No.	Volume	Container
HE02321000	1 l	0
HE02322500	2,5 l	0

Art. No.	Volume	Container
HE0232025S	25 l	0

HE0242 n-Hexane, 99%, HPLC grade



assay (G.C.)min 99 %	Microfiltered through membranes of pore diameter 0,22µm
residue on evaporationmax. 0,0001 %	
water (K.F.)max. 0,01 %	
min. transmission/max. absorbance in a 1,0 cm cell at wavelength:	
200 nm. T(%) A (AU) 20 % 0,699 AU	
210 nm. 50 % 0,301 AU	
230 nm. 90 % 0,046 AU	

Art. No.	Volume	Container
HE02421000	1 l	0
HE02422500	2,5 l	0
HE02424000	4 l	0
HE0242025S	25 l	0
HE0242100S	100 l	0

HE0227 n-Hexane, 96%, extra pure



assay (G.C.)min. 96 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container
HE02271000	1 l	0
HE02272500	2,5 l	0
HE0227005L	5 l	0
HE0227007E	7 l	0

Art. No.	Volume	Container
HE0227025A	25 l	0
HE0227025S	25 l	0
HE0227030S	30 l	0
HE0227200L	200 l	0

HE0228 n-Hexane, 96%, reagent grade, ACS, Reag. Ph Eur



assay (G.C.)min. 96,0 %
total isomer content (G.C.)min. 98,5 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container
HE02281000	1 l	0
HE02282500	2,5 l	0
HE0228005L	5 l	0
HE0228007E	7 l	0

Art. No.	Volume	Container
HE0228025A	25 l	0
HE0228025S	25 l	0
HE0228030S	30 l	0

HE0234 n-Hexane, 96%, Multisolvant® HPLC grade ACS UV-VIS



assay (G.C.)min. 96 %
residue on evaporationmax. 0,0002 %
water (K.F.)max. 0,005 %
min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
200 nm. T(%) A (AU) 10 % 1,000 AU
210 nm. 40 % 0,398 AU
217 nm. 70 % 0,155 AU
225 nm. 80 % 0,097 AU
245 nm. 98 % 0,009 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
HE02341000	1 l	0
HE02342500	2,5 l	0
HE02344000	4 l	0
HE0234007E	7 l	0
HE0234020S	20 l	0
HE0234025S	25 l	0
HE0234030S	30 l	0

Art. No.	Volume	Container
HE0234185E	185 l	0

HE0238 n-Hexane, 96%, for GC residue analysis



assay (G.C.)min. 96 %
residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container
HE02381000	1 l	0
HE02382500	2,5 l	0
HE02384000	4 l	0

Art. No.	Volume	Container
HE0238007E	7 l	0
HE0238025S	25 l	0

HE0239 n-Hexane, 96%, GC ultra-trace analysis grade



assay (G.C.)min. 96 %
residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
HE02391000	1 l	0
HE02392500	2,5 l	0
HE02394000	4 l	0

HE0233 n-Hexane, 96%, anhydrous (max. 0,002% H₂O)



water (K.F.)max. 0,002 %

Art. No.	Volume	Container
HE02331000	1 l	0

Hexane, fraction from petroleum

- C₆H₁₄
- M = 86,18 g/mol
- CAS [92112-69-1]
- EINECS-No.: 295-570-2
- Density: 0,67 g/cm³
- Solub. in water: (20 °C): insoluble
- Boiling point: 65 - 70 °C
- Flash pt. -22 °C

- Vapour pressure: (20 °C) 160 hPa
- Refraction index: (n 20 °C/D) 1,380
- EC-Index-No.: 601-037-00-0
- ADR: 3 F1 II UN 1208
- IMDG: 3 II UN 1208
- IATA/ICAO: 3 II UN 1208
- GHS-signal word: Danger

- GHS-H sentences: H224 - H304 - H361 - H373 - H315 - H336 - H411
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: analytical chemistry, for spectroscopy, manufacture of dyes.
- Appearance: Colourless clear liquid

HE0219 Hexane, fraction from petroleum, synthesis grade



boiling range. 65 - 70 °C

Art. No.	Volume	Container
HE02191000	1 l	0
HE02192500	2,5 l	0
HE0219005L	5 l	0

Art. No.	Volume	Container
HE0219007E	7 l	0
HE0219025L	25 l	0
HE0219025S	25 l	0

HE0220 Hexane, fraction from petroleum, extra pure



boiling range. 65 - 70 °C
residue on evaporation.max. 0,001 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HE02201000	1 l	Ø	HE0220025A	25 l	Ø
HE02202500	2,5 l	Ø	HE0220025S	25 l	Ø
HE0220005L	5 l	Ø			

HE0222 Hexane, fraction from petroleum, reagent grade



boiling range. 65 - 70 °C
residue on evaporation.max. 0,0005 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HE02221000	1 l	Ø	HE0222007E	7 l	Ø
HE02222500	2,5 l	Ø	HE0222025S	25 l	Ø
HE0222005L	5 l	Ø			

HE0221 Hexane, fraction from petroleum, Multisolvant® HPLC grade ACS



boiling range. 65 - 70 °C
residue on evaporation.max. 0,0002 %
water (K.F.)max. 0,01 %
min. transmission/max. absorbance in a 1,0 cm cell at wavelength: T(%) A (AU)
200 nm. 10 % 1,000 AU

Art. No.	Volume	Container	Art. No.	Volume	Container
HE02211000	1 l	Ø	HE02211000	1 l	Ø
HE02212500	2,5 l	Ø	HE02212500	2,5 l	Ø
HE0221007E	7 l	Ø	HE0221007E	7 l	Ø
HE0221025S	25 l	Ø	HE0221025S	25 l	Ø

HE0223 Hexane, fraction from petroleum, for GC residue analysis

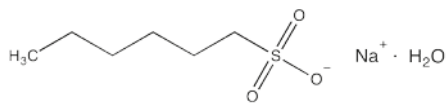


residue on evaporation.max. 0,0001 %
water (K.F.)max. 0,01 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container	Art. No.	Volume	Container
HE02231000	1 l	Ø	HE02232500	2,5 l	Ø

1-Hexane sulfonic acid, sodium salt monohydrate

AC1247 1-Hexane sulfonic acid, sodium salt monohydrate, HPLC grade



- Synonyms: Sodium 1-hexylsulfonate monohydrate
- $C_6H_{13}NaO_3S \cdot H_2O$
- $M = 206,24$ g/mol
- CAS [207300-91-2]
- EINECS-No.: 220-601-3
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

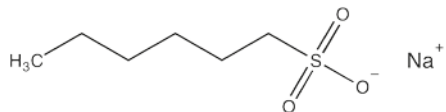
max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:
210 nm. 0,1 AU
220 nm. 0,06 AU
230 nm. 0,04 AU
260 nm. 0,02 AU

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
AC12470025	25 g	Ø
AC12470100	100 g	Ø

1-Hexane sulfonic acid, sodium salt, HPLC solutions

AC1245 1-Hexane sulfonic acid, sodium salt, solution 0,1 mol/l, HPLC grade

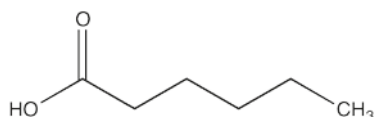


- $C_6H_{13}NaO_3S$
- $M = 188,22$ g/mol
- CAS [2832-45-3]
- EINECS-No.: 220-601-3
- Tariff number: 2904 10 00 90
- Applications: laboratory reagent, analytical chemistry, chromatography.

factor limits. 0,995 - 1,005
pH (20 °C) 3,4 - 3,6
Contains acetic acid as preservative

Art. No.	Volume	Container
AC12450250	250 ml	Ø

Hexanoic acid



- Synonyms: Caproic acid
- $C_6H_{12}O_2$
- $M = 116,16$ g/mol
- CAS [142-62-1]
- EINECS-No.: 205-550-7
- Density: 0,93 g/cm³
- Solub. in water: (20 °C): sparingly miscible
- Melting point: ~ -3 °C
- Boiling point: ~ 206 °C
- Flash pt. 102 °C
- Ignition temp.: 380 °C
- Vapour pressure: (20 °C) 0,3 hPa

- Refraction index: (n 20 °C/D) 1,4162
- LD 50 (oral, rat): > 2000 mg/kg
- ADR: 8 C3 III UN 2829
- IMDG: 8 III UN 2829
- IATA/ICAO: 8 III UN 2829
- GHS-signal word: Danger
- GHS-H sentences: H311 - H314 - H302
- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2915 90 80 90
- Applications: analytical chemistry, chromatography, perfumery.

AC0680 Hexanoic acid, synthesis grade



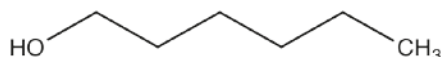
assay (G.C.)min. 98 %
residue on ignitionmax. 0,05 %

Art. No.	Volume	Container
AC06801000	1 l	Ø

AC0682 Hexanoic acid, extra pure, Reag. Ph Eur

 assay (G.C.)min. 98 %
 residue on ignitionmax. 0,01 %

Art. No.	Volume	Container
AC06820250	250 ml	0

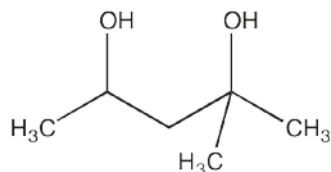
1-Hexanol
AL0270 1-Hexanol, synthesis grade


- Synonyms: n-Hexyl alcohol
- C₆H₁₄O
- M = 102,18 g/mol
- CAS [111-27-3]
- EINECS-No.: 203-852-3
- Density: 0,82 g/cm³
- Solub. in water: (20 °C): 5,8 g/l
- Melting point: -45 °C
- Boiling point: 157 °C
- Flash pt. 62 °C
- Ignition temp.: 285 °C
- Vapour pressure: (20 °C) 1 hPa
- Refraction index: (n 20 °C/D) 1,4179
- LD 50 (oral, rat): 720 mg/kg
- EC-Index-No.: 603-059-00-6
- ADR: 3 F1 III UN 2282

- IMDG: 3 III UN 2282
- IATA/ICAO: 3 III UN 2282
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2905 19 00 99
- Applications: synthesis of organic products, for pharmaceuticals synthesizing.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
AL02701000	1 l	0

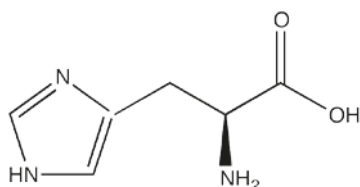
Hexylene glycol
HE0250 Hexylene glycol, synthesis grade


- Synonyms: 2-Methyl-2,4-pentanediol
- C₆H₁₄O₂
- M = 118,18 g/mol
- CAS [107-41-5]
- EINECS-No.: 203-489-0
- Density: 0,92 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -40 °C
- Boiling point: 196 °C
- Flash pt. 93 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) 0,06 hPa
- Refraction index: (n 20 °C/D) 1,4270
- LD 50 (oral, rat): 4000 mg/kg

- EC-Index-No.: 603-053-00-3
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2905 39 10 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, cosmetics.

assay (G.C.)min. 99 %

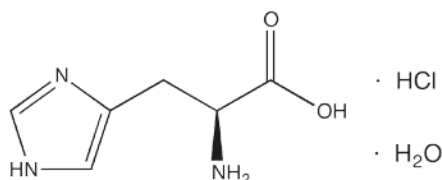
Art. No.	Volume	Container
HE02501000	1 l	0

L-Histidine
HI0395 L-Histidine, extra pure, Pharmpur®, Ph Eur, BP, USP


- Synonyms: L-3-Imidazol-4-alanine
- C₆H₉N₃O₂
- M = 155,16 g/mol
- CAS [71-00-1]
- EINECS-No.: 200-745-3
- Solub. in water: (20 °C): 38,2 g/l
- Melting point: 272 - 273 °C (decomposes)
- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 2933 21 00 90
- Applications: in biochemistry, for pharmaceuticals synthesizing, in food industry, in pharma industry.

 assay (acidimetric, on dried sample) . . .98,5 - 101,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
HI03950025	25 g	0
HI03950100	100 g	0
HI03951000	x 1 kg	0

L-Histidine hydrochloride monohydrate
HI0405 L-Histidine hydrochloride monohydrate, extra pure, Pharmpur®, Ph Eur, BP


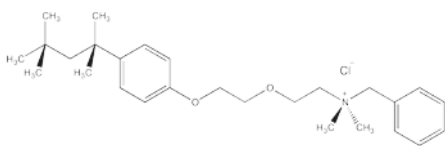
- Synonyms: (S)-α-Amino-1H-imidazole-4-propanoic acid
- C₆H₉N₃O₂·HCl·H₂O
- M = 209,63 g/mol
- CAS [5934-29-2]
- EINECS-No.: 211-438-9
- Solub. in water: (20 °C): 169,9 g/l
- Melting point: 259 °C (decomposes)
- Tariff number: 2933 21 00 90
- Applications: in biochemistry, for pharmaceuticals synthesizing, in pharma industry.

 assay (argentometric, on dried sample)98,5 - 101 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
HI04050025	25 g	0
HI04050100	100 g	0

Hyamine® 1622

HY0002 Hyamine® 1622 (Hyamine is a trademark of Rohm and Haas Company)



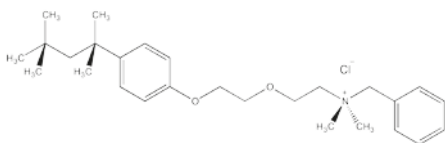
- Synonyms: N-Benzyl-N,N-dimethyl-N-[4-(1,1,3,3-tetramethylbutyl)-phenoxyethoxyethyl]ammonium chloride, Benzethonium chloride
- $C_{27}H_{42}ClNO_2$
- $M = 448,18 \text{ g/mol}$
- CAS [121-54-0]
- EINECS-No.: 204-479-9
- Solub. in water: (20 °C): freely soluble
- Melting point: 164 - 166 °C
- LD 50 (oral, rat): 368 mg/kg
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077

- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319 - H411
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, for the analysis of: tensioactive substances (detergent).

Art. No.	Volume	Container
HY00020250	250 g	⊘

Hyamine® 1622, volumetric solutions

HY0001 Hyamine® 1622, solution 0,004 mol/l (Hyamine is a trademark of Rohm and Haas Company)



- $C_{27}H_{42}ClNO_2$
- $M = 448,18 \text{ g/mol}$
- CAS [121-54-0]
- EINECS-No.: 204-479-9
- Density: 1,0 g/cm³
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, for determination of: tensioactive substances (detergent).

Art. No.	Volume	Container
HY00011000	1 l	⊘
HY00012500	2,5 l	⊘
HY0001005P	5 l	⊘

Hydrazine dihydrochloride

HI0080 Hydrazine dihydrochloride, reagent grade



- Synonyms: Hydrazinium dichloride
- $N_2H_4 \cdot 2HCl$
- $M = 104,97 \text{ g/mol}$
- CAS [5341-61-7]
- EINECS-No.: 226-283-2
- Solub. in water: (20 °C): soluble
- Melting point: ~ 198 °C (decomposes)
- EC-Index-No.: 007-014-00-6
- ADR: 6.1 T5 III UN 3288
- IMDG: 6.1 III UN 3288

- IATA/ICAO: 6.1 III UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H350 - H410 - H317
- GHS-P sentences: P261 - P301 + P310 - P361 - P321 - P405 - P501a
- Tariff number: 2825 10 00 00
- Applications: analytical chemistry, chlorine scavenger for HCl gas stream.
- Appearance: White solid

assay (iodometric) min. 99 %

Art. No.	Volume	Container
HI00800250	250 g	⊘
HI00801000	1 kg	⊘

Hydrazine hydrate, 100%

HI0092 Hydrazine hydrate, 100%, synthesis grade



- Synonyms: Hydrazinium hydroxide
- $N_2H_4 \cdot H_2O$
- $M = 50,06 \text{ g/mol}$
- CAS [7803-57-8]
- EINECS-No.: 206-114-9
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -51,7 °C
- Boiling point: 120,5 °C
- Flash pt. 75 °C

- Ignition temp.: 280 °C
- Vapour pressure: (20 °C) 20 hPa
- Refraction index: (n 20 °C/D) 1,4284
- LD 50 (oral, rat): 129 mg/kg
- ADR: 8 CT1 II UN 2030
- IMDG: 8 II UN 2030
- IATA/ICAO: 8 II UN 2030
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H330 - H350 - H314 - H410 - H317

- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2825 10 00 90
- Applications: analytical chemistry, synthesis of organic products, solvents.
- Appearance: Colourless liquid

Art. No.	Volume	Container
HI00921000	1 l	⊘

Hydrazine hydrate, 80%

HI0090 Hydrazine hydrate, solution 80% w/w, extra pure



- Synonyms: Hydrazinium hydroxide
- $N_2H_4 \cdot H_2O$
- $M = 50,06 \text{ g/mol}$
- CAS [7803-57-8]
- EINECS-No.: 206-114-9
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -60 °C
- Boiling point: 117 - 119 °C
- Flash pt. 91 °C
- Ignition temp.: 310 °C

- Vapour pressure: (20 °C) 13 hPa
- LD 50 (oral, rat): 129 mg/kg (pure substance)
- ADR: 8 CT1 II UN 2030
- IMDG: 8 II UN 2030
- IATA/ICAO: 8 II UN 2030
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H330 - H350 - H314 - H410 - H317
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a

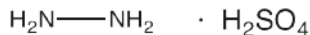
- Tariff number: 2825 10 00 90
- Applications: analytical chemistry, synthesis of organic products, solvents.
- Appearance: Colourless liquid

assay (iodometric) min. 80 %

Art. No.	Volume	Container
HI00900250	250 ml	⊘
HI00901000	1 l	⊘

Hydrazine sulfate

HI0110 Hydrazine sulfate, reagent grade, ACS



Synonyms: Hydrazinium sulfate, Hydrazonium sulfate

- $\text{N}_2\text{H}_4 \cdot \text{H}_2\text{SO}_4$
- M = 130,12 g/mol

- CAS [10034-93-2]
- EINECS-No.: 233-110-4
- Solub. in water: (20 °C): 30 g/l
- Melting point: 254 °C (decomposes)
- LD 50 (oral, rat): 601 mg/kg
- EC-Index-No.: 007-014-00-6
- ADR: 6.1 T5 III UN 3288
- IMDG: 6.1 III UN 3288
- IATA/ICAO: 6.1 III UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H311 - H330 - H350 - H410 - H302 - H317
- GHS-P sentences: P260 - P310 - P320 - P361 - P405 - P501a

- Tariff number: 2825 10 00 00
- Applications: analytical chemistry, oxidizing agent, Separation and identification of: tellurium and polonium, for the synthesis of: azides.

assay (iodometric) min. 99 %

Art. No.	Volume	Container
HI01100100	100 g	⊖
HI01100500	500 g	⊖
HI01101000	1 kg	⊖

Hydriodic acid, 57%

AC3350 Hydriodic acid, 57%, reagent grade



- Synonyms: Hydrogen iodide solution
- HI
- M = 127,91 g/mol
- CAS [10034-85-2]
- EINECS-No.: 233-109-9
- Density: 1,70 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 127 °C
- EC-Index-No.: 053-002-00-9
- ADR: 8 C1 II UN 1787

- IMDG: 8 II UN 1787
- IATA/ICAO: 8 II UN 1787
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2811 19 80 90
- Applications: analytical chemistry, reducing agent (organic substances).

assay (acidimetric) min. 57,0 %

Art. No.	Volume	Container
AC33500100	100 ml	⊖
AC33501000	1 l	⊖

Hydrobromic acid, 48%

AC0596 Hydrobromic acid, 48%, reagent grade, ACS, ISO



- HBr
- M = 80,92 g/mol
- CAS [10035-10-6]
- EINECS-No.: 233-113-0
- Density: 1,49 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -11 °C
- Boiling point: ~ 126 °C
- Vapour pressure: (20 °C) 10,6 hPa

- EC-Index-No.: 035-002-00-0
- ADR: 8 C1 II UN 1788
- IMDG: 8 II UN 1788
- IATA/ICAO: 8 II UN 1788
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2811 19 10 00

- Applications: analytical chemistry, synthesis of organic products and inorganic salts, solvents.

assay (acidimetric) 47 - 49 %

Art. No.	Volume	Container
AC05961000	1 l	⊖

Hydrochloric acid, 37%

- Synonyms: Hydrochloric acid fuming, Muriatic acid, Hydrogen chloride solution
- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: ~ 1,19 g/cm³
- Solub. in water: (20 °C): miscible

- Melting point: -28 °C
- Boiling point: ~ 50 °C
- Vapour pressure: (20 °C) 190 hPa
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Danger

- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2806 10 00 00
- Applications: laboratory reagent, acidifying agent, in the production of chlorides, synthesis of organic products.

AC0736 Hydrochloric acid, 37%, extra pure, Pharmpur®, Ph Eur, BP, NF



assay (acidimetric) 36,5 - 38,0 %
 residue on ignition (as SO₄) max. 0,003 %
 residue on evaporation max. 0,005 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC07361000	1 l	⊖
AC07362500	2,5 l	⊖

Art. No.	Volume	Container
AC0736005P	5 l	⊖
AC0736025P	25 l	⊖

AC0741 Hydrochloric acid, 37%, reagent grade, ACS, ISO, Reag. Ph Eur



assay (acidimetric) 36,5 - 38,0 %

Art. No.	Volume	Container
AC07411000	1 l	⊖
AC07411001	1 l	⊖
AC07412500	2,5 l	⊖

Art. No.	Volume	Container
AC07412501	2,5 l	⊖
AC0741005P	5 l	⊖
AC0741025P	25 l	⊖

AC0730 Hydrochloric acid, 37%, reagent grade, ACS, ISO, max. 0,000005% Hg



assay (acidimetric) 36,5 - 38,0 %
 colour (Hazen) max. 10

Art. No.	Volume	Container
AC07301000	1 l	⊖

Art. No.	Volume	Container
AC07302500	2,5 l	⊖

AC0780 Hydrochloric acid, 37%, Ultratrace®, ppb-trace analysis grade



Art. No.	Volume	Container
AC07800500	500 ml	⊖
AC07801000	1 l	⊖

Art. No.	Volume	Container
AC07802500	2,5 l	⊖

Hydrochloric acid, 35%

- Synonyms: Hydrogen chloride solution, Muriatic acid
- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: ~ 1,19 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -28 °C
- Boiling point: ~ 50 °C
- Vapour pressure: (20 °C) ~ 190 hPa
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2806 10 00 00
- Applications: laboratory reagent, acidifying agent, in the production of chlorides, synthesis of organic products.

AC0737 Hydrochloric acid, solution 35% w/w, synthesis grade

assay (acidimetric)min. 35 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC07371000	1 l	⊘	AC0737005P	5 l	⊘
	AC07372500	2,5 l	⊘	AC0737025P	25 l	⊘

AC0756 Hydrochloric acid, solution min. 35% w/w, extra pure, Pharmapur®, Ph Eur

assay (acidimetric)35 - 39 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC07561000	1 l	⊘	AC0756005P	5 l	⊘
	AC07562500	2,5 l	⊘	AC0756025P	25 l	⊘

AC0781 Hydrochloric acid, 35%, Ultratrace®, ppt-trace analysis grade

assay (acidimetric)32 - 35 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC07810250	250 ml	⊘	AC07810500	500 ml	⊘

Hydrochloric acid, 32%

AC0739 Hydrochloric acid, solution 32% w/w, reagent grade, ISO

- Synonyms: Hydrogen chloride solution
- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: 1,15 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -40 °C
- Boiling point: 84 °C
- Vapour pressure: (20 °C) 21,3 hPa
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2806 10 00 00
- Applications: laboratory reagent, acidifying agent, in the production of chlorides, synthesis of organic products.
- assay (acidimetric)min. 32 %

Art. No.	Volume	Container
AC07391000	1 l	⊘
AC07392500	2,5 l	⊘
AC0739005P	5 l	⊘
AC0739025P	25 l	⊘

Hydrochloric acid, 25%

AC0767 Hydrochloric acid, solution 25% w/w, reagent grade, ISO

- Synonyms: Hydrogen chloride solution
- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: ~ 1,12 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -70 °C
- Boiling point: 107 °C
- Vapour pressure: (20 °C) 12 hPa
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2806 10 00 00
- Applications: laboratory reagent, acidifying agent, in the production of chlorides, synthesis of organic products.
- assay (acidimetric)min. 25 %

Art. No.	Volume	Container
AC07671000	1 l	⊘
AC07672500	2,5 l	⊘
AC0767005P	5 l	⊘
AC0767025P	25 l	⊘

Hydrochloric acid, volumetric solutions

AC0752 Hydrochloric acid, solution 6 mol/l (6 N)

- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: 1,098 g/cm³
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2806 10 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for the analysis of: fats.

Art. No.	Volume	Container
AC07521000	1 l	⊘

AC0749 Hydrochloric acid, solution 5 mol/l (5 N)

- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: 1,08 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2806 10 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for the analysis of: fats.

Art. No.	Volume	Container
AC07491000	1 l	⊘

AC0738 Hydrochloric acid, solution 3 mol/l (3 N) !

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: ~ 1,06 g/cm³ • EC-Index-No.: 017-002-01-X • ADR: 8 C1 II UN 1789 • IMDG: 8 II UN 1789 	<ul style="list-style-type: none"> • IATA/ICAO: 8 II UN 1789 • GHS-signal word: Warning • GHS-H sentences: H315 - H319 - H335 • GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for the analysis of: fats. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC07381000</td> <td>1 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC07382500</td> <td>2,5 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0738010C</td> <td>10 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC07381000	1 l	Ⓟ	AC07382500	2,5 l	Ⓟ	AC0738010C	10 l	Ⓟ
Art. No.	Volume	Container												
AC07381000	1 l	Ⓟ												
AC07382500	2,5 l	Ⓟ												
AC0738010C	10 l	Ⓟ												

AC0748 Hydrochloric acid, solution 2 mol/l (2 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: ~ 1,03 g/cm³ • EC-Index-No.: 017-002-01-X • ADR: 8 C1 III UN 1789 	<ul style="list-style-type: none"> • IMDG: 8 III UN 1789 • IATA/ICAO: 8 III UN 1789 • GHS-H sentences: EUH210 • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, titrant in volumetric analysis. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC07481000</td> <td>1 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC07481000	1 l	Ⓟ
Art. No.	Volume	Container						
AC07481000	1 l	Ⓟ						

AC0751 Hydrochloric acid, solution 1,4 mol/l (1,4 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: 1,02 g/cm³ • EC-Index-No.: 017-002-01-X • ADR: 8 C1 III UN 1789 	<ul style="list-style-type: none"> • IMDG: 8 III UN 1789 • IATA/ICAO: 8 III UN 1789 • GHS-H sentences: EUH210 • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, titrant in volumetric analysis. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC0751005P</td> <td>5 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0751010C</td> <td>10 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC0751005P	5 l	Ⓟ	AC0751010C	10 l	Ⓟ
Art. No.	Volume	Container									
AC0751005P	5 l	Ⓟ									
AC0751010C	10 l	Ⓟ									

AC0744 Hydrochloric acid, solution 1 mol/l (1 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: 1,01 g/cm³ • EC-Index-No.: 017-002-01-X • ADR: 8 C1 III UN 1789 	<ul style="list-style-type: none"> • IMDG: 8 III UN 1789 • IATA/ICAO: 8 III UN 1789 • GHS-H sentences: EUH210 • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, titrant in volumetric analysis. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC07441000</td> <td>1 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0744005P</td> <td>5 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0744010C</td> <td>10 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0744025P</td> <td>25 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC07441000	1 l	Ⓟ	AC0744005P	5 l	Ⓟ	AC0744010C	10 l	Ⓟ	AC0744025P	25 l	Ⓟ
Art. No.	Volume	Container															
AC07441000	1 l	Ⓟ															
AC0744005P	5 l	Ⓟ															
AC0744010C	10 l	Ⓟ															
AC0744025P	25 l	Ⓟ															

AC0745 Hydrochloric acid, solution 0,5 mol/l (0,5 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: 1,01 g/cm³ • EC-Index-No.: 017-002-01-X • ADR: 8 C1 III UN 1789 	<ul style="list-style-type: none"> • IMDG: 8 III UN 1789 • IATA/ICAO: 8 III UN 1789 • GHS-H sentences: EUH210 • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, titrant in volumetric analysis. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC07451000</td> <td>1 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0745005P</td> <td>5 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0745010C</td> <td>10 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC07451000	1 l	Ⓟ	AC0745005P	5 l	Ⓟ	AC0745010C	10 l	Ⓟ
Art. No.	Volume	Container												
AC07451000	1 l	Ⓟ												
AC0745005P	5 l	Ⓟ												
AC0745010C	10 l	Ⓟ												

AC0769 Hydrochloric acid, solution 0,31 mol/l (0,31 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: 1,01 g/cm³ • EC-Index-No.: 017-002-01-X • ADR: 8 C1 III UN 1789 	<ul style="list-style-type: none"> • IMDG: 8 III UN 1789 • IATA/ICAO: 8 III UN 1789 • GHS-H sentences: EUH210 • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, titrant in volumetric analysis. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC0769005P</td> <td>5 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC0769005P	5 l	Ⓟ
Art. No.	Volume	Container						
AC0769005P	5 l	Ⓟ						

AC0755 Hydrochloric acid, solution 0,25 mol/l (0,25 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: 1,00 g/cm³ 	<ul style="list-style-type: none"> • EC-Index-No.: 017-002-01-X • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC07551000</td> <td>1 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0755005P</td> <td>5 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0755010C</td> <td>10 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC07551000	1 l	Ⓟ	AC0755005P	5 l	Ⓟ	AC0755010C	10 l	Ⓟ
Art. No.	Volume	Container												
AC07551000	1 l	Ⓟ												
AC0755005P	5 l	Ⓟ												
AC0755010C	10 l	Ⓟ												

AC0740 Hydrochloric acid, solution 0,2 mol/l (0,2 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 	<ul style="list-style-type: none"> • Density: ~ 1,01 g/cm³ • EC-Index-No.: 017-002-01-X • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, laboratory reagent. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC07401000</td> <td>1 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC07401000	1 l	Ⓟ
Art. No.	Volume	Container						
AC07401000	1 l	Ⓟ						

AC0746 Hydrochloric acid, solution 0,1 mol/l (0,1 N)

<ul style="list-style-type: none"> • HCl • M = 36,46 g/mol • CAS [7647-01-0] • EINECS-No.: 231-595-7 • Density: 1,00 g/cm³ 	<ul style="list-style-type: none"> • EC-Index-No.: 017-002-01-X • Tariff number: 2806 10 00 00 • Applications: analytical chemistry, laboratory reagent. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>AC07461000</td> <td>1 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0746005P</td> <td>5 l</td> <td>Ⓟ</td> </tr> <tr> <td>AC0746010C</td> <td>10 l</td> <td>Ⓟ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	AC07461000	1 l	Ⓟ	AC0746005P	5 l	Ⓟ	AC0746010C	10 l	Ⓟ
Art. No.	Volume	Container												
AC07461000	1 l	Ⓟ												
AC0746005P	5 l	Ⓟ												
AC0746010C	10 l	Ⓟ												



AC0754 Hydrochloric acid, solution 0,05 mol/l (0,05 N)

- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: 0,996 g/cm³
- EC-Index-No.: 017-002-01-X
- Tariff number: 2806 10 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC07541000	1 l	Ⓟ

AC0757 Hydrochloric acid, solution 0,01 mol/l (0,01 N)

- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: 0,994 g/cm³
- EC-Index-No.: 017-002-01-X
- Tariff number: 2806 10 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC07571000	1 l	Ⓟ

AC0743 Hydrochloric acid, concentrated solution to prepare 1 l of solution 1 mol/l (1 N)

- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: ~ 1,09 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a

- Tariff number: 2806 10 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC074300PA	u.	Ⓟ

AC0759 Hydrochloric acid, concentrated solution to prepare 1 l of solution 0,5 mol/l (0,5 N)

- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: 1,08 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2806 10 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC075900PA	u.	Ⓟ

AC0742 Hydrochloric acid, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,1 N)

- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: ~ 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 017-002-01-X
- GHS-H sentences: EUH210
- Tariff number: 2806 10 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
AC074200PA	u.	Ⓟ

Hydrochloric acid-water, solution 50:50 v/v**AC0760 Hydrochloric acid-water, solution 50:50 v/v, reagent grade**

- Synonyms: Hydrogen chloride - water solution
- HCl
- M = 36,46 g/mol
- CAS [7647-01-0]
- EINECS-No.: 231-595-7
- Density: 1,10 g/cm³
- EC-Index-No.: 017-002-01-X
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a

- Tariff number: 2806 10 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for the analysis of: fats.

Art. No.	Volume	Container
AC07601000	1 l	Ⓟ

Hydrofluoric acid, 48%

- HF
- M = 20,00 g/mol
- CAS [7664-39-3]
- EINECS-No.: 231-634-8
- Density: 1,16 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -35 °C
- Boiling point: ~ 106 °C
- EC-Index-No.: 009-002-00-6
- ADR: 8 CT1 II UN 1790
- IMDG: 8 II UN 1790
- IATA/ICAO: 8 II UN 1790
- GHS-signal word: Danger
- GHS-H sentences: H330 - H300 - H310 - H314

- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2811 11 00 00
- Applications: analytical chemistry, acidifying agent, dissolution agent for silicates.

AC1059 Hydrofluoric acid, solution 48% w/w, extra pure

assay (acidimetric)min. 48 %

Art. No.	Volume	Container
AC10591000	1 l	Ⓟ

Art. No.	Volume	Container
AC10592500	2,5 l	Ⓟ

AC1060 Hydrofluoric acid, solution 48% w/w, reagent grade, ACS, ISO

assay (acidimetric)48,0 - 51,0 %

Art. No.	Volume	Container
AC10601000	1 l	Ⓟ
AC10602500	2,5 l	Ⓟ

Art. No.	Volume	Container
AC106005P	5 l	Ⓟ
AC1060025P	25 l	Ⓟ

AC1061 Hydrofluoric acid, 48%, Ultratrace®, ppb-trace analysis grade

Art. No.	Volume	Container
AC10610500	500 ml	Ⓟ

AC1062 Hydrofluoric acid, 48%, Ultratrace®, ppt-trace analysis grade

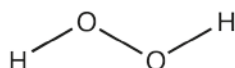

Art. No.	Volume	Container
AC10620250	250 ml	Ø

Hydrofluoric acid, 40%
AC1051 Hydrofluoric acid, solution 40% w/w, reagent grade, ISO


assay (acidimetric) min. 40 %

Art. No.	Volume	Container
AC10511000	1 l	Ø
AC10512500	2,5 l	Ø
AC1051005P	5 l	Ø

- HF
- M = 20,01 g/mol
- CAS [7664-39-3]
- EINECS-No.: 231-634-8
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -44 °C
- Boiling point: ~ 112 °C
- EC-Index-No.: 009-002-00-6
- ADR: 8 CT1 II UN 1790
- IMDG: 8 II UN 1790
- IATA/ICAO: 8 II UN 1790
- GHS-signal word: Danger
- GHS-H sentences: H310 - H330 - H314
- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2811 11 00 00
- Applications: analytical chemistry, acidifying agent, dissolution agent for silicates.

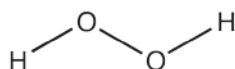
Hydrogen peroxide, 50%
HI0139 Hydrogen peroxide, solution 50% w/w (200 vol), extra pure


- CAS [7722-84-1]
- EINECS-No.: 231-765-0
- Density: 1,20 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: - 52 °C
- Boiling point: 114 °C
- Vapour pressure: (30 °C) 240 hPa
- LD 50 (oral, rat): 1518 mg/kg
- EC-Index-No.: 008-003-00-9
- ADR: 5.1 OC1 II UN 2014
- IMDG: 5.1 II UN 2014
- IATA/ICAO: Forbidden
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314 - H302 - H335 -
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2847 00 00 00
- Applications: oxidizing agent, bleaching agent, for pharmaceuticals synthesizing, in the pharmaceuticals industry.

assay (permanganometric) approx. 50 %

Art. No.	Volume	Container
HI01391000	1 l	Ø
HI01392500	2,5 l	Ø

- Synonyms: Hydrogen dioxide, Hydroperoxide
- H₂O₂
 - M = 34,01 g/mol

Hydrogen peroxide, 35%


- Synonyms: Hydrogen dioxide, Hydroperoxide
- H₂O₂
- M = 34,01 g/mol
- CAS [7722-84-1]
- EINECS-No.: 231-765-0
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -24 °C
- Boiling point: ~ 110 °C
- Vapour pressure: (20 °C) ~ 20 hPa
- LD 50 (oral, rat): 2000 mg/kg (90% solution)
- EC-Index-No.: 008-003-00-9
- ADR: 5.1 OC1 II UN 2014
- IMDG: 5.1 II UN 2014
- IATA/ICAO: 5.1 II UN 2014
- GHS-signal word: Danger
- GHS-H sentences: H318 - H302 - H335 - H315
- GHS-P sentences: P261 - P305 + P351 + P338 - P310 - P321 - P405 - P501a
- Tariff number: 2847 00 00 00
- Applications: oxidizing agent, bleaching agent, for pharmaceuticals synthesizing, in the pharmaceuticals industry.

HI0137 Hydrogen peroxide, solution 35% w/w (133 vol), extra pure

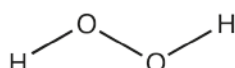

assay (permanganometric) 34,5 - 36,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI01371000	1 l	Ø	HI0137005P	5 l	Ø

HI0138 Hydrogen peroxide, solution 35% w/w (133 vol), reagent grade


assay (permanganometric) min. 34,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI01381000	1 l	Ø	HI01382500	2,5 l	Ø

Hydrogen peroxide, 30%


- Synonyms: Hydrogen dioxide, Hydroperoxide
- H₂O₂
- M = 34,01 g/mol
- CAS [7722-84-1]
- EINECS-No.: 231-765-0
- Density: 1,11 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -26 °C
- Boiling point: 107 °C
- Vapour pressure: (20 °C) ~ 18 hPa
- LD 50 (oral, rat): 2000 mg/kg (90% solution)
- EC-Index-No.: 008-003-00-9
- ADR: 5.1 OC1 II UN 2014
- IMDG: 5.1 II UN 2014
- IATA/ICAO: 5.1 II UN 2014
- GHS-signal word: Danger
- GHS-H sentences: H318 - H302
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P310 - P301 + P312 - P501a
- Tariff number: 2847 00 00 00
- Applications: analytical chemistry, oxidizing agent, bleaching agent, for pharmaceuticals synthesizing.

HI0135 Hydrogen peroxide, solution 30% w/w (110 vol), extra pure


assay (permanganometric) approx. 30 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI01350500	500 ml	Ø	HI01352500	2,5 l	Ø
HI01351000	1 l	Ø	HI0135005P	5 l	Ø



HI0136 Hydrogen peroxide, solution 30% w/w (110 vol), reagent grade, ACS, ISO

assay (permanganometric) 30,0 - 32,0 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI01361000	1 l	0	HI0136005P	5 l	0
HI01362500	2,5 l	0			

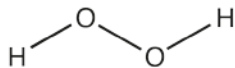
HI0143 Hydrogen peroxide, solution 30% w/w (110 vol), Ultratrace®, ppt-trace analysis grade

assay (permanganometric) 30,0 - 32,0 %

Art. No.	Volume	Container
HI01430500	500 ml	0

Hydrogen peroxide, 6%, w/v

HI0132 Hydrogen peroxide, solution 6% w/v (20 vol), extra pure



- Synonyms: Hydrogen dioxide, Hydroperoxide
- H_2O_2
- $M = 34,01$ g/mol
- CAS [7722-84-1]
- EINECS-No.: 231-765-0
- Density: $1,016$ g/cm³
- LD 50 (oral, rat): 2000 mg/kg (90% solution)
- EC-Index-No.: 008-003-00-9
- GHS-signal word: Danger
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313

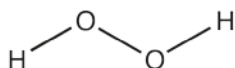
- Tariff number: 2847 00 00 00
- Applications: oxidizing agent, bleaching agent, for pharmaceuticals synthesizing, in the pharmaceuticals industry.

assay (permanganometric) approx. 6 %

Art. No.	Volume	Container
HI01321000	1 l	0
HI0132005P	5 l	0

Hydrogen peroxide, 0,9% w/v

HI0130 Hydrogen peroxide, solution 0,9% w/v (3 vol), for determination of sulfurous gas (SO₂) according to Paul



- Synonyms: Hydrogen dioxide, Hydroperoxide
- H_2O_2
- $M = 34,01$ g/mol
- CAS [7722-84-1]
- EINECS-No.: 231-765-0
- Density: $1,00$ g/cm³
- LD 50 (oral, rat): 2000 mg/kg (90% solution)
- EC-Index-No.: 008-003-00-9
- Tariff number: 2847 00 00 00

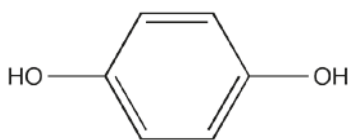
- Applications: oxidizing agent, bleaching agent, for pharmaceuticals synthesizing, in the pharmaceuticals industry.

assay (permanganometric) approx. 0,9 %

Art. No.	Volume	Container
HI01300250	250 ml	0

Hydroquinone

HI0145 Hydroquinone, synthesis grade



Synonyms: 1,4-Dihydroxybenzene, p-Dihydroxybenzene, Quinol
 • $C_6H_6O_2$
 • $M = 110,11$ g/mol
 • CAS [123-31-9]

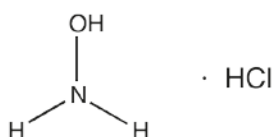
- EINECS-No.: 204-617-8
- Solub. in water: (25 °C): 70 g/l
- Melting point: ~ 172 °C
- Boiling point: 287 °C
- Flash pt. 165 °C
- Ignition temp.: 516 °C
- Vapour pressure: (132 °C) 1,3 hPa
- LD 50 (oral, rat): 320 mg/kg
- EC-Index-No.: 604-005-00-4
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H318 - H341 - H351 - H400 - H302 - H317

- GHS-P sentences: P261 - P305 + P351 + P338 - P310 - P321 - P405 - P501a
- Tariff number: 2907 22 00 10
- Applications: analytical chemistry, for determination of: phosphates, antioxidant, photography, synthesis of organic products.
- Appearance: White crystalline powder

assay min. 99 %

Art. No.	Volume	Container
HI01450100	100 g	0
HI01450500	500 g	0
HI0145005P	5 kg	0

Hydroxylamine hydrochloride



- Synonyms: Hydroxylammonium chloride
- $NH_2OH \cdot HCl$
- $M = 69,49$ g/mol
- CAS [5470-11-1]
- EINECS-No.: 226-798-2
- Solub. in water: (20 °C): 464 g/l
- Melting point: 159 °C
- LD 50 (oral, rat): 141 mg/kg
- EC-Index-No.: 612-123-00-2 [1]
- ADR: 8 C2 III UN 3260
- IMDG: 8 III UN 3260

- IATA/ICAO: 8 III UN 3260
- GHS-signal word: Warning
- GHS-H sentences: H351 - H373 - H290 - H400 - H302 - H312 - H317 - H315 - H319
- GHS-P sentences: P260 - P261 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2825 10 00 10
- Applications: analytical chemistry, strong reducing agent, synthesis of organic products, for the synthesis of: oximes. Separation and identification of: tellurium and selenium, for determination of: gold.

HI0212 Hydroxylamine hydrochloride, synthesis grade

assay (argentometric) min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI02120250	250 g	0	HI02121000	1 kg	0
HI02120500	500 g	0			

HI0215 Hydroxylamine hydrochloride, reagent grade, ACS, ISO

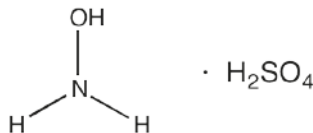


assay (permanganometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI02150250	250 g	Ⓟ	HI0215025P	25 kg	Ⓟ
HI02151000	1 kg	Ⓟ			

Hydroxylammonium sulfate

HI0225 Hydroxylammonium sulfate, synthesis grade



Synonyms: Hydroxylamine sulfate
• $(\text{NH}_3\text{OH})_2\text{SO}_4$

- M = 164,14 g/mol
- CAS [10039-54-0]
- EINECS-No.: 233-118-8
- Solub. in water: (20 °C): 587 g/l
- Melting point: 170 °C (decomposes)
- LD 50 (oral, rat): 937 mg/kg
- EC-Index-No.: 612-123-00-2 [2]
- ADR: 8 C2 III UN 2865
- IMDG: 8 III UN 2865
- IATA/CAO: 8 III UN 2865
- GHS-signal word: Warning
- GHS-H sentences: H351 - H373 - H290 - H400 - H302 - H312 - H317 - H315 - H319

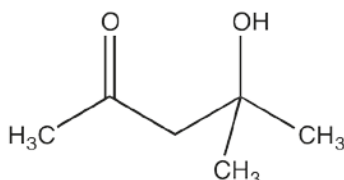
- GHS-P sentences: P260 - P261 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2825 10 00 00
- Applications: analytical chemistry, reducing agent, for the synthesis of: oximes.

assay (permanganometric)min. 99 %

Art. No.	Volume	Container
HI02250250	250 g	Ⓟ
HI02251000	1 kg	Ⓟ

4-Hydroxy-4-methyl-2-pentanone

AL0225 4-Hydroxy-4-methyl-2-pentanone, synthesis grade



Synonyms: Diacetone alcohol, 2-Methyl-2-pentanol-4-one
• $\text{C}_6\text{H}_{12}\text{O}_2$
• M = 116,16 g/mol
• CAS [123-42-2]

- EINECS-No.: 204-626-7
- Density: 0,94 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -47 °C
- Boiling point: 166 °C
- Flash pt. 58 °C
- Ignition temp.: 640 °C
- Vapour pressure: (20 °C) 2 hPa
- Refraction index: (n 20 °C/D) 1,4233
- LD 50 (oral, rat): 4000 mg/kg
- EC-Index-No.: 603-016-00-1
- ADR: 3 F1 III UN 1148
- IMDG: 3 III UN 1148
- IATA/CAO: 3 III UN 1148
- GHS-signal word: Warning

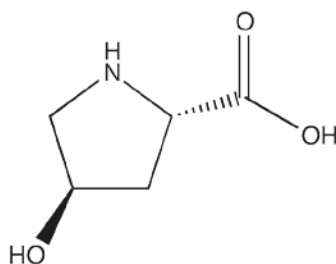
- GHS-H sentences: H226 - H319
- GHS-P sentences: P210 - P241 - P280 - P303 + P361 + P353 - P305 + P351 + P338 - P501a
- Tariff number: 2914 40 10 00
- Applications: solvents, for pharmaceuticals synthesizing, in antifreeze compositions.
- Appearance: Clear liquid

assay (G.C.)min. 98 %

Art. No.	Volume	Container
AL02251000	1 l	Ⓟ
AL02252500	2,5 l	Ⓟ
AL0225005P	5 l	Ⓟ

4-Hydroxy-L-proline

HI0235 4-Hydroxy-L-proline, extra pure



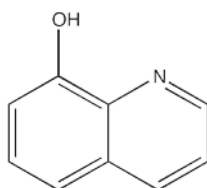
- Synonyms: L(-)-4-Hydroxypyrrolidine-2-carboxylic acid
- $\text{C}_5\text{H}_9\text{NO}_3$
- M = 131,13 g/mol
- CAS [51-35-4]
- EINECS-No.: 200-091-9
- Solub. in water: (20 °C): 500 g/l
- Melting point: 274 °C
- Tariff number: 2933 99 90 90
- Applications: synthesis of organic products, laboratory reagent.

assay (titration with HClO_4)min. 99 %

Art. No.	Volume	Container
HI02350005	5 g	Ⓟ
HI02350025	25 g	Ⓟ

8-Hydroxyquinoline

HI0257 8-Hydroxyquinoline, synthesis grade



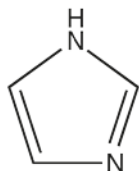
- Synonyms: Oxine, 8-Quinololinol, Hydroxybenzopyridine
- $\text{C}_9\text{H}_7\text{NO}$
- M = 145,16 g/mol
- CAS [148-24-3]
- EINECS-No.: 205-711-1
- Solub. in water: (20 °C): insoluble
- Melting point: 73,8 °C
- Boiling point: 267 °C
- LD 50 (oral, rat): 1200 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302

- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2933 49 90 90
- Applications: synthesis of organic products, analytical chemistry.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
HI02570250	250 g	Ⓟ

Imidazole



- Synonyms: 1,3-Diazole, Glyoxaline, Iminazole
- $C_3H_4N_2$
- $M = 68,08 \text{ g/mol}$
- CAS [288-32-4]
- EINECS-No.: 206-019-2
- Solub. in water: (20 °C): 633 g/l
- Melting point: 90 - 91 °C
- Boiling point: 256 °C
- Flash pt. > 135 °C
- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) 0,003 hPa
- LD 50 (oral, rat): 220 mg/kg
- ADR: 8 C8 III UN 3263
- IMDG: 8 III UN 3263
- IATA/ICAO: 8 III UN 3263
- GHS-signal word: Danger
- GHS-H sentences: H314 - H302 - H360D
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2933 21 00 90
- Applications: analytical chemistry, in buffer solutions.

IM0025 Imidazole, synthesis grade

assay (titration with $HClO_4$) min. 99 %

Art. No.	Volume	Container
IM00250250	250 g	⊘
IM00251000	1 kg	⊘

IM0026 Imidazole, reagent grade, ACS

assay (titration with $HClO_4$) min. 99,5 %

Art. No.	Volume	Container
IM00260250	250 g	⊘
IM00261000	1 kg	⊘

Immersion oil

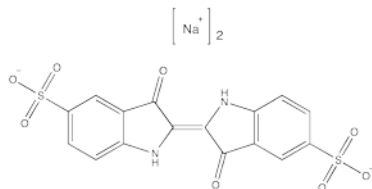
AC0031 Immersion oil, for microscopy

- Density: 0,92 g/cm³
- Solub. in water: (20 °C): almost non-miscible
- Melting point: < 0 °C
- Boiling point: 340 °C
- Flash pt. 163 °C
- Vapour pressure: (23 °C) < 0,13 hPa
- Refraction index: (n 20 °C/D) 1,516
- Tariff number: 3822 00 00 00
- Applications: for biology, microscopy.
- density (20°/4°) 0,92 - 0,95
- refractive index n₂₀/D 1,515 - 1,522

Art. No.	Volume	Container
AC00310100	100 ml	⊘
AC00310250	250 ml	⊘
AC00310500	500 ml	⊘

Indigo carmine, C.I. 73015

IN0065 Indigo carmine, C.I. 73015, extra pure, Reag. Ph Eur



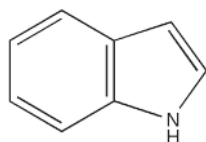
- Synonyms: Indigo-5,5'-disulfonic acid disodium salt, Acid Blue 74
- $C_{16}H_8N_2Na_2O_8S_2$
- $M = 466,35 \text{ g/mol}$
- CAS [860-22-0]
- EINECS-No.: 212-728-8
- Solub. in water: (25 °C): 10 g/l
- LD 50 (oral, rat): > 2000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 3204 12 00 00
- Applications: colouring agent (microscopy), for pharmaceuticals synthesizing, in food industry, for the detection of: nitrates, chlorates.

assay (titr. with $TiCl_3$) 90 - 95 %

Art. No.	Volume	Container
IN00650010	10 g	⊘
IN00650025	25 g	⊘
IN00650100	100 g	⊘

Indole

IN0120 Indole, reagent grade



- Synonyms: 2,3-Benzopyrrole, 1H-Benzo[β]pyrrole
- C_8H_7N
- $M = 117,15 \text{ g/mol}$
- CAS [120-72-9]
- EINECS-No.: 204-420-7
- Solub. in water: (25 °C): 3,56 g/l
- Melting point: 52,5 °C
- Boiling point: 254 °C
- Flash pt. 110 °C
- Vapour pressure: (25 °C) 0,016 hPa
- LD 50 (oral, rat): 1000 mg/kg
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H311 - H302
- GHS-P sentences: P280 - P361 - P322 - P301 + P312 - P405 - P501a
- Tariff number: 2933 99 20 00
- Applications: analytical chemistry, in biochemistry, in the paper industry.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
IN01200010	10 g	⊘

Iodine

- I_2
- $M = 253,81 \text{ g/mol}$
- CAS [7553-56-2]
- EINECS-No.: 231-442-4
- Solub. in water: (20 °C): 0,29 g/l
- Melting point: 114 °C
- Boiling point: 185 °C
- Vapour pressure: (25 °C) 0,41 hPa
- LD 50 (oral, rat): 14000 mg/kg
- EC-Index-No.: 053-001-00-3
- ADR: 8 CT2 III UN 3495
- IMDG: 8 III UN 3495
- IATA/ICAO: 8 III UN 3495
- GHS-signal word: Warning
- GHS-H sentences: H400 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P304 + P340 - P312 - P501a
- Tariff number: 2801 20 00 00
- Applications: synthesis of organic products, inorganic salts, for pharmaceuticals synthesizing, disinfectant, stabilizer, manufacture of dyes, colouring agent, photography, catalyst, in the rubber industry, analytical chemistry, in biochemistry and for biology.

YO0019 Iodine, pearls, resublimed, extra pure, Pharmpur®, Ph Eur, BP, USP



assay (iodometric) 99,5 - 100,5 %
Residual solvents are analysed according to guideline
CPMP/ICH/283/95.

Art. No.	Volume	Container
Y000190100	100 g	0
Y000191000	1 kg	0

YO0021 Iodine, pearls, resublimed, reagent grade, ACS, ISO, Reag. Ph Eur



assay (iodometric) min. 99,8 %

Art. No.	Volume	Container
Y000210100	100 g	0
Y000210250	250 g	0
Y000211000	1 kg	0

Iodine, volumetric solutions

YO0024 Iodine, solution 0,5 mol/l (1 N)

- I₂
- M = 253,81 g/mol
- CAS [7553-56-2]
- EINECS-No.: 231-442-4
- Density: 1,22 g/cm³
- EC-Index-No.: 053-001-00-3
- GHS-H sentences: EUH210
- Tariff number: 2801 20 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
Y000241000	1 l	0

YO0023 Iodine, solution 0,05 mol/l (0,1 N)

- I₂
- M = 253,81 g/mol
- CAS [7553-56-2]
- EINECS-No.: 231-442-4
- Density: 1,02 g/cm³
- EC-Index-No.: 053-001-00-3
- GHS-H sentences: EUH210
- Tariff number: 2801 20 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
Y00023G100	100 ml	0
Y000231000	1 l	0
Y000232500	2,5 l	0

YO0027 Iodine, solution 0,02365 mol/l (0,0473 N)

- I₂
- M = 253,81 g/mol
- CAS [7553-56-2]
- EINECS-No.: 231-442-4
- EC-Index-No.: 053-001-00-3
- Tariff number: 2801 20 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
Y000271000	1 l	0

YO0025 Iodine, solution 0,01 mol/l (0,02 N)

- I₂
- M = 253,81 g/mol
- CAS [7553-56-2]
- EINECS-No.: 231-442-4
- Density: 1,005 g/cm³
- EC-Index-No.: 053-001-00-3
- Tariff number: 2801 20 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
Y000250500	500 ml	0
Y000251000	1 l	0

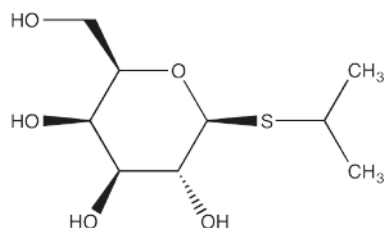
YO0022 Iodine, concentrated solution to prepare 1 l of solution 0,05 mol/l (0,1 N)

- I₂
- M = 253,81 g/mol
- CAS [7553-56-2]
- EINECS-No.: 231-442-4
- Density: 1,38 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 14000 mg/kg (toxic component)
- GHS-H sentences: EUH210
- Tariff number: 2801 20 00 00
- Applications: analytical chemistry, disinfectant, in biochemistry, for biology.

Art. No.	Volume	Container
Y0002200GA	u.	0

IPTG

IP0010 IPTG, molecular biology grade (dioxane free)



- Synonyms: Isopropyl-β-D-1-thiogalactopyranoside
- C₉H₁₈O₆S
- M = 238,29 g/mol
- CAS [367-93-1]
- EINECS-No.: 206-703-0
- Solub. in water: (20 °C): 10 g/l
- Melting point: 109 -111 °C
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a

- Tariff number: 2932 99 00 90
- Applications: for biology.

assay (HPLC) min. 99 %
dioxane (G.C.) max. 0,02 %

Art. No.	Volume	Container
IP00100001	1 g	0

Iron

- Fe
- M = 55,85 g/mol
- CAS [7439-89-6]
- EINECS-No.: 231-096-4
- Solub. in water: (20 °C): insoluble
- Melting point: 1535 °C
- Boiling point: ~ 3000 °C
- Ignition temp.: > 100 °C
- LD 50 (oral, rat): 30000 mg/kg
- ADR: 4.1 F3 III UN 3089
- IMDG: 4.1 III UN 3089
- IATA/ICAO: 4.1 III UN 3089
- GHS-signal word: Warning
- GHS-H sentences: H228
- GHS-P sentences: P210 - P241 - P280 - P240 - P370 + P378b
- Tariff number: 7205 29 00 00

HI0303 Iron, powder, extra pure (made by reduction), particle size < 100 µm

assay (cerimetric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI03030250	250 g	⊘	HI03031000	1 kg	⊘
HI03030500	500 g	⊘			

HI0304 Iron, powder, extra pure (made by reduction), particle size < 150 µm

assay (cerimetric)min. 99 %

Art. No.	Volume	Container
HI03041000	1 kg	⊘

Iron(III) chloride, 30%, aqueous solution

HI0333 Iron(III) chloride, 30%, aqueous solution, synthesis grade

- FeCl₃·6H₂O
- M = 270,32 g/mol
- CAS [7705-08-0]
- EINECS-No.: 231-729-4
- Density: 1,3 g/cm³
- LD 50 (oral, rat): 900 mg/kg (pure substance)
- ADR: 8 C1 III UN 2582

- IMDG: 8 III UN 2582
- IATA/ICAO: 8 III UN 2582
- GHS-signal word: Danger
- GHS-H sentences: H318 - H315
- GHS-P sentences: P280 - P305 + P351 + P338 - P310 - P321 - P362 - P332 + P313
- Tariff number: 2827 39 20 00

- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
HI03331000	1 l	⊘
HI0333025P	25 l	⊘

Iron(III) nitrate nonahydrate

HI0340 Iron(III) nitrate nonahydrate, extra pure, Reag. Ph Eur

- Fe(NO₃)₃·9H₂O
- M = 404,00 g/mol
- CAS [7782-61-8]
- EINECS-No.: 233-899-5
- Solub. in water: (20 °C): soluble
- Melting point: 47 °C (decomposes)
- LD 50 (oral, rat): 3250 mg/kg
- ADR: 5.1 O2 III UN 1466
- IMDG: 5.1 III UN 1466

- IATA/ICAO: 5.1 III UN 1466
- GHS-signal word: Danger
- GHS-H sentences: H272 - H315 - H319
- GHS-P sentences: P221 - P210 - P220 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, oxidizing agent, laboratory reagent.
- Appearance: Light purple crystalline powder

assay (iodometric)min. 99 %

Art. No.	Volume	Container
HI03400500	500 g	⊘
HI03401000	1 kg	⊘

Iron(III) oxide

HI0341 Iron(III) oxide, synthesis grade

- Fe₂O₃
- M = 159,70 g/mol
- CAS [1309-37-1]
- EINECS-No.: 215-168-2
- Solub. in water: (20 °C): insoluble
- Melting point: 1562 °C (decomposes)
- Tariff number: 2821 10 00 90

- Applications: analytical chemistry, in the rubber industry (pigment), painting, in porcelain industry, in semiconductors industry, catalyst.

assay (iodometric)min. 96 %

Art. No.	Volume	Container
HI03410500	500 g	⊘
HI03411000	1 kg	⊘
HI0341005P	5 kg	⊘

Iron(II) sulfate heptahydrate

- Synonyms: Iron vitriol
- FeSO₄·7H₂O
- M = 278,02 g/mol
- CAS [7782-63-0]
- EINECS-No.: 231-753-5

- Solub. in water: (20 °C): 665 g/l
- Melting point: > 60 °C (release of crystalline water)
- LD 50 (oral, rat): 319 mg/kg (anhydrous substance)
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2833 29 80 80
- Applications: analytical chemistry, determining COD.

HI0350 Iron(II) sulfate heptahydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (cerimetric)99,5 - 104,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI03500500	500 g	⊘	HI0350005P	5 kg	⊘
HI03501000	1 kg	⊘	HI0350025P	25 kg	⊘

HI0351 Iron(II) sulfate heptahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (permanganometric)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
HI03510500	500 g	⊘	HI0351005P	5 kg	⊘
HI03511000	1 kg	⊘			

Iron(III) sulfate hydrate

HI0352 Iron(III) sulfate hydrate, reagent grade

- Fe₂(SO₄)₃·xH₂O
- M = 399,87 g/mol
- CAS [15244-10-7]
- EINECS-No.: 233-072-9
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2833 29 80 80

- Applications: laboratory reagent, analytical chemistry, flotation agent (water).
- assay (iodometric, as Fe₂(SO₄)₃)min. 75 %

Art. No.	Volume	Container
HI03520500	500 g	⊘
HI03521000	1 kg	⊘
HI0352005P	5 kg	⊘
HI0352025P	25 kg	⊘

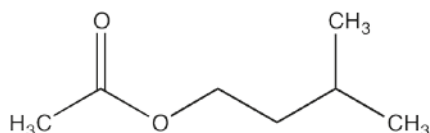
Iron(II) sulfide
HI0360 Iron(II) sulfide, for producing hydrogen sulfide

- FeS
- M = 87,92 g/mol
- CAS [1317-37-9]
- EINECS-No.: 215-268-6
- Solub. in water: (20 °C): almost insoluble
- Melting point: ~ 1195 °C

- Tariff number: 2830 90 11 00
- Applications: for the synthesis of: hydrogen sulfide, in porcelain industry, pigment, in lubricant compositions.

sulphide content: approx. 29 %

Art. No.	Volume	Container
HI03600500	500 g	⊞
HI03601000	1 kg	⊞

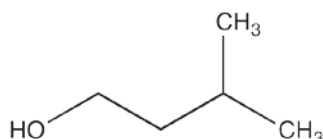
Isoamyl acetate
AC0157 Isoamyl acetate, extra pure


- Synonyms: Acetic acid isoamyl ester, 3-Methylbutyl acetate
- C₇H₁₄O₂
- M = 130,19 g/mol
- CAS [123-92-2]
- EINECS-No.: 204-662-3
- Density: 0,87 g/cm³
- Solub. in water: (19,4 °C): 2,12 g/l
- Melting point: -78 °C
- Boiling point: 141 °C
- Flash pt. 25 °C
- Ignition temp.: 355 °C
- Vapour pressure: (20 °C) 4 hPa
- LD 50 (oral, rat): > 5000 mg/kg
- EC-Index-No.: 607-130-00-2 [2]
- ADR: 3 F1 III UN 1104

- IMDG: 3 III UN 1104
- IATA/ICAO: 3 III UN 1104
- GHS-signal word: Warning
- GHS-H sentences: H226 - EUH066
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2915 39 30 00
- Applications: analytical chemistry, solvents, synthesis of organic products, perfumery.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
AC01571000	1 l	⊞

Isoamyl alcohol


- Synonyms: 3-Methyl-1-butanol, Isopentyl alcohol
- C₅H₁₂O
- M = 88,15 g/mol
- CAS [123-51-3]
- EINECS-No.: 204-633-5
- Density: 0,81 g/cm³
- Solub. in water: (20 °C): 25 g/l
- Melting point: -117 °C
- Boiling point: 131 °C
- Flash pt. 43 °C
- Ignition temp.: 340 °C
- Vapour pressure: (20 °C) 3,1 hPa
- Dielectric const.: (20 °C) 14,7

- LD 50 (oral, rat): > 5000 mg/kg
- EC-Index-No.: 603-006-00-7
- ADR: 3 F1 III UN 1105
- IMDG: 3 III UN 1105
- IATA/ICAO: 3 III UN 1105
- GHS-signal word: Warning
- GHS-H sentences: H226 - H302
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2905 19 00 98
- Applications: analytical chemistry, solvents, synthesis of organic products, for determination of: fats in milk.

AL0285 Isoamyl alcohol, mixture of isomers, extra pure

total isomer content (G.C.) min. 99 %

Art. No.	Volume	Container
AL02851000	1 l	⊞
AL02852500	2,5 l	⊞

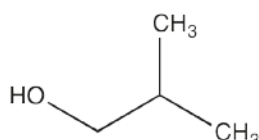
Art. No.	Volume	Container
AL0285005P	5 l	⊞

ME0376 Isoamyl alcohol, reagent grade, ACS

assay (G.C.) min. 98,5 %

Art. No.	Volume	Container
ME03761000	1 l	⊞
ME03762500	2,5 l	⊞

Art. No.	Volume	Container
ME0376005P	5 l	⊞

Isobutanol


- Synonyms: 2-Methyl-1-propanol, Isobutyl alcohol, Isopropylcarbinol, iso-Butanol
- C₄H₁₀O
- M = 74,12 g/mol
- CAS [78-83-1]
- EINECS-No.: 201-148-0
- Density: 0,8 g/cm³
- Solub. in water: (20 °C): 80 g/l
- Melting point: -108 °C
- Boiling point: 108 °C
- Flash pt. 28 °C
- Ignition temp.: 430 °C
- Vapour pressure: (20 °C) 12 hPa
- Refraction index: (n 20 °C/D) 1,3955
- Dielectric const.: (20 °C) 17,7

- LD 50 (oral, rat): 2460 mg/kg
- EC-Index-No.: 603-108-00-1
- ADR: 3 F1 III UN 1212
- IMDG: 3 III UN 1212
- IATA/ICAO: 3 III UN 1212
- GHS-signal word: Danger
- GHS-H sentences: H318 - H226 - H335 - H336 - H315
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2905 14 90 00
- Applications: synthesis of organic products, perfumery, solvents (painting), analytical chemistry, laboratory reagent.
- Appearance: Colourless clear liquid

AL0293 Isobutanol, synthesis grade

assay (G.C.) min. 99 %

Art. No.	Volume	Container
AL02931000	1 l	⊞
AL02932500	2,5 l	⊞

Art. No.	Volume	Container
AL0293005P	5 l	⊞
AL0293025P	25 l	⊞

AL0295 Isobutanol, reagent grade, ACS

assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,05 %

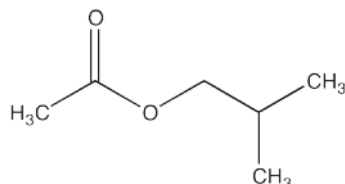
Art. No.	Volume	Container
AL02951000	1 l	0
AL02952500	2,5 l	0

Art. No.	Volume	Container
AL0295005P	5 l	0



Isobutyl acetate

AC0170 Isobutyl acetate, synthesis grade



- Synonyms: Acetic acid isobutyl ester
- $C_6H_{12}O_2$
- $M = 116,16 \text{ g/mol}$
- CAS [110-19-0]
- EINECS-No.: 203-745-1
- Density: $0,87 \text{ g/cm}^3$
- Solub. in water: (20 °C): 7 g/l
- Melting point: -99 °C
- Boiling point: $116 - 118 \text{ °C}$
- Flash pt. 18 °C
- Ignition temp.: 510 °C
- Vapour pressure: (20 °C) 17 hPa
- Refraction index: (n 20 °C/D) $1,3877$
- Dielectric const.: (20 °C) $5,3$
- LD 50 (oral, rat): 13400 mg/kg
- EC-Index-No.: 607-026-00-7 [3]

- ADR: 3 F1 II UN 1213
- IMDG: 3 II UN 1213
- IATA/ICAO: 3 II UN 1213
- GHS-signal word: Danger
- GHS-H sentences: H225 - EUH066
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2915 34 00 00
- Applications: synthesis of organic products, solvents, in food industry.

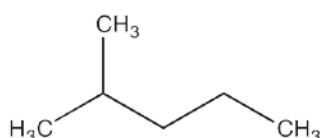
assay (G.C.) min. 96 %

Art. No.	Volume	Container
AC01701000	1 l	0



Isohexane

IS0122 Isohexane, Multisolvent® HPLC grade UV-VIS



(main isomer)

- C_6H_{14}
- $M = 86,18 \text{ g/mol}$
- CAS [73513-42-5]
- EINECS-No.: 295-570-2
- Density: $0,65 \text{ g/cm}^3$
- Solub. in water: (20 °C): $0,02 \text{ g/l}$
- Melting point: -153 °C
- Boiling point: $53 - 63 \text{ °C}$
- Flash pt. -26 °C
- Ignition temp.: 260 °C
- Vapour pressure: (20 °C) 240 hPa
- LD 50 (oral, rat): $> 5000 \text{ mg/kg}$
- EC-Index-No.: 601-007-00-7
- ADR: 3 F1 II UN 1208
- IMDG: 3 II UN 1208
- IATA/ICAO: 3 II UN 1208
- GHS-signal word: Danger
- GHS-H sentences: H224 - H304 - H315 - H336 - H411
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00

- Applications: analytical chemistry, chromatography, solvent for fat and oil extractions.
- Appearance: Colourless, clear liquid

assay (G.C.) min. 97 %
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,005 %
 min. transmission/max. absorbance
 wavelength: T(%) A (AU)

200 nm.	10 %	1,000 AU
210 nm.	50 %	0,301 AU
217 nm.	70 %	0,155 AU
225 nm.	80 %	0,097 AU
245 nm.	98 %	0,009 AU

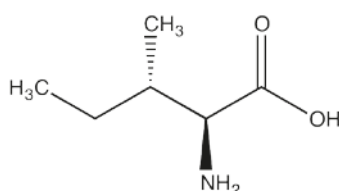
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
IS01221000	1 l	0
IS01222500	2,5 l	0



L-Isoleucine

IS0140 L-Isoleucine, extra pure, Pharmpur®, Ph Eur, BP, USP

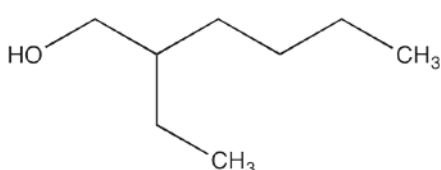


- Synonyms: Ile, 2-Amino-3-methylvaleric acid, (2S,3S)-2-Amino-3-methylpentanoic acid
- $C_6H_{13}NO_2$
- $M = 131,18 \text{ g/mol}$
- CAS [73-32-5]
- EINECS-No.: 200-798-2
- Solub. in water: (20 °C): $32,1 \text{ g/l}$
- Melting point: $279 - 280 \text{ °C}$ (decomposes)
- Tariff number: 2922 49 95 90
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, in food industry.

assay (titration with $HClO_4$ on dried sample) 98,5 - 101,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
IS01400025	25 g	0

Isooctanol



- Synonyms: 2-Ethyl-1-hexanol, Isooctyl alcohol
- $C_8H_{18}O$
- $M = 130,23 \text{ g/mol}$
- CAS [104-76-7]
- EINECS-No.: 203-234-3
- Density: $0,83 \text{ g/cm}^3$
- Solub. in water: (20 °C): $1,1 \text{ g/l}$
- Melting point: -76 °C
- Boiling point: 185 °C
- Flash pt. 75 °C
- Ignition temp.: $270 - 330 \text{ °C}$
- Vapour pressure: (20 °C) $0,13 \text{ hPa}$
- Refraction index: (n 20 °C/D) $1,4317$

- Dielectric const.: (20 °C) $7,7$
- LD 50 (oral, rat): 3730 mg/kg
- ADR: Not regulated/IMDG: Not regulated
- IATA/ICAO: 9
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2905 16 85 10
- Applications: analytical chemistry, chromatography, in the textile industry, solvents (manufacture of dyes, resins, oils), antifoaming agent.

ET0205 Isooctanol, extra pure

assay (G.C.)min. 99 %

Art. No.	Volume	Container
ET02051000	1 l	0

IS0162 Isooctanol, HPLC grade

 assay (G.C.)min. 99 %
 residue on evaporationmax. 0,0003 %
 water (K.F.)max. 0,15 %
 min. transmission/max. absorbance
 wavelength: T(%) A (AU)
 240 nm.40 % 0,398 AU
 260 nm.80 % 0,097 AU
 Microfiltered through membranes of pore diameter
 0,22µm

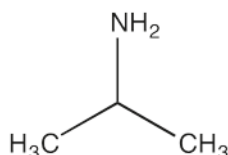
Art. No.	Volume	Container
IS01622500	2,5 l	0

Isoparaffin L
IS0170 Isoparaffin L, synthesis grade

- Synonyms: Isopar L
- CAS [64742-48-9]
- EINECS-No.: 265-150-3
- Density: 0,770 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 260 °C
- Refraction index: (n 20 °C/D) 1,428
- EC-Index-No.: 649-327-00-6

- GHS-signal word: Danger
- GHS-H sentences: H340 - H350 - H304
- GHS-P sentences: P281 - P301 + P310 - P308 + P313 - P331 - P405 - P501a
- Tariff number: 2712 20 90 00
- Applications: solvents, substitute of xylene, in combustion processes.

Art. No.	Volume	Container
IS01701000	1 l	0
IS0170005P	5 l	0
IS0170025P	25 l	0

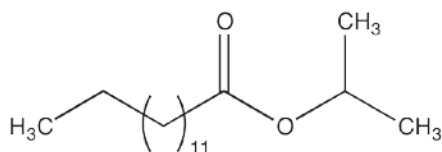
Isopropylamine
IS0175 Isopropylamine, synthesis grade


- Synonyms: 2-Aminopropane
- C₃H₇N
- M = 59,11 g/mol
- CAS [75-31-0]
- EINECS-No.: 200-860-9
- Density: 0,69 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -101 °C
- Boiling point: 31 - 33 °C
- Flash pt. -37 °C
- Ignition temp.: 330 °C
- Vapour pressure: (20 °C) 632 hPa
- Refraction index: (n 20 °C/D) 1,3746
- LD 50 (oral, rat): 550 mg/kg
- EC-Index-No.: 612-007-00-1
- ADR: 3 FC I UN 1221

- IMDG: 3 I UN 1221
- IATA/ICAO: 3 I UN 1221
- GHS-signal word: Danger
- GHS-H sentences: H224 - H315 - H319 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2921 19 30 00
- Applications: synthesis of organic products, analytical chemistry, chromatography.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
IS01751000	1 l	0

Isopropyl myristate
MI0020 Isopropyl myristate, synthesis grade


- Synonyms: Tetradecanoic acid isopropyl ester, Myristic acid isopropyl ester
- C₁₇H₃₄O₂
- M = 270,46 g/mol
- CAS [110-27-0]
- EINECS-No.: 203-751-4
- Density: 0,85 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 0 - 1 °C
- Boiling point: (3 hPa) 140 °C
- Flash pt. 150 °C
- Ignition temp.: > 300 °C

- Vapour pressure: (20 °C) < 1hPa
- Refraction index: (n 20 °C/D) 1,4340
- Tariff number: 2915 90 80 90
- Applications: synthesis of organic products, cosmetics, for pharmaceuticals synthesizing.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
MI00201000	1 l	0

Scharlau syringe filters

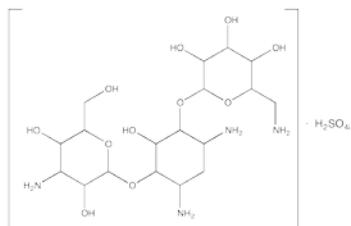



Scharlau
The wise choice

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Kanamycin sulfate

KA0010 Kanamycin sulfate, molecular biology grade



- Synonyms: Kanamycin A sulfate
- $C_{18}H_{36}N_6O_{11} \cdot H_2SO_4$
- $M = 582,58 \text{ g/mol}$
- CAS [25389-94-0]
- EINECS-No.: 246-933-9
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H360

- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2941 90 00 90
- Applications: for microbiology, antibiotic.

Art. No.	Volume	Container
KA00100005	5 g	0
KA00100025	25 g	0

Karl Fischer reagents, free from pyridine, for volumetric titration

AQ0003 Aquagent® Complet 5, free from pyridine, one-component reagent for volumetric Karl Fischer titration



- Density: 1,17 g/cm³
- Boiling point: 194 °C
- Flash pt. 90 °C
- GHS-signal word: Danger
- GHS-H sentences: H360D
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, laboratory reagent.
- 1 ml = 5 mg H₂O approx. Contains imidazole, sulfur dioxide and diethyleneglycol monoethyl ether

Art. No.	Volume	Container
AQ00030500	500 ml	0
AQ00031000	1 l	0
AQ00032500	2,5 l	0

AQ0007 Aquagent® Complet 2, free from pyridine, one-component reagent for volumetric Karl Fischer titration



- Density: 1,13 g/cm³
- Boiling point: 194 °C
- Flash pt. 90 °C
- GHS-signal word: Danger
- GHS-H sentences: H319 - H360D
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313

- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent.
- 1 ml = 2 mg H₂O approx. Contains imidazole, sulfur dioxide and diethyleneglycol monoethyl ether

Art. No.	Volume	Container
AQ00070500	500 ml	0
AQ00071000	1 l	0
AQ00072500	2,5 l	0

AQ0009 Aquagent® buffer, free from pyridine, buffer capacity 5 mmol acid/ml



- Density: ~ 0,96 g/cm³
- Flash pt. 11 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger

- GHS-H sentences: H225 - H331 - H370 - H314 - H360D
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent.

Contains methanol

Art. No.	Volume	Container
AQ00090500	500 ml	0
AQ00091000	1 l	0

AQ0004 Aquagent® Complet 5K, free from pyridine, one-component reagent for volumetric Karl Fischer titration (ketones, aldehydes)



- Density: 1,17 g/cm³
- Boiling point: 194 °C
- Flash pt. 90 °C
- GHS-signal word: Danger
- GHS-H sentences: H360D

- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent.
- 1 ml = 5 mg H₂O approx. Contains imidazole, sulfur dioxide and diethyleneglycol monoethyl ether

Art. No.	Volume	Container
AQ00040500	500 ml	0
AQ00041000	1 l	0

AQ0005 Aquagent® Medium K, free from pyridine, solvent for volumetric Karl Fischer titration (ketones, aldehydes)



- Density: 1,35 g/cm³
- Boiling point: 60 °C
- ADR: 6.1 T1 I UN 2810
- IMDG: 6.1 I UN 2810
- IATA/ICAO: 6.1 I UN 2810
- GHS-signal word: Danger

- GHS-H sentences: H301 - H310 - H330 - H351 - H373 - H315 - EUH209
- GHS-P sentences: P260 - P301 + P310 - P320 - P361 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent.

For use with: Aquagent® Complet 5K (AQ0004)
Contains trichloromethane and 2-chloroethanol

Art. No.	Volume	Container
AQ00050500	500 ml	0
AQ00051000	1 l	0

AQ0006 Aquagent® Titrant 2, free from pyridine, titrant-component for volumetric Karl Fischer titration



- Flash pt. 11 °C
- LD 50 (oral, rat): 5628 mg/kg (methanol)
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370

- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent.

For use with: Aquagent® Solvent (AQ0002) 1 ml = 2,00 ± 0,02 mg H₂O (20 °C) Contains methanol

Art. No.	Volume	Container
AQ00060500	500 ml	0
AQ00061000	1 l	0

AQ0001 Aquagent® Titrant 5, free from pyridine, titrant-component for volumetric Karl Fischer titration



- Density: ~ 0,86 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 11 °C
- LD 50 (oral, rat): 5628 mg/kg (methanol)
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger

- GHS-H sentences: H225 - H331 - H370
- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent.

For use with: Aquagent® Solvent (AQ0002) 1 ml = 5,00 ± 0,02 mg H₂O (20 °C) Contains methanol

Art. No.	Volume	Container
AQ00010500	500 ml	0
AQ00011000	1 l	0
AQ00012500	2,5 l	0

AQ0002 Aquagent® Solvent, free from pyridine, solvent-component for volumetric Karl Fischer titration


- Density: ~ 0,91 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 12 °C
- LD 50 (oral, rat): 5628 mg/kg (methanol)
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger

- GHS-H sentences: H225 - H331 - H370 - H314 - H360D
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent.

For use with: Aquagent® Titrant 5 (AQ0001) Aquagent® Titrant 2 (AQ0006)

Contains imidazole, sulfur dioxide and methanol

Art. No.	Volume	Container
AQ00021000	1 l	0
AQ00022500	2,5 l	0

AQ0011 Aquagent® Methanol Fast


- Density: 0,82 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 11 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger

- GHS-H sentences: H225 - H331 - H314 - H360D - H370
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

For use with: Aquagent® Complet 5 (AQ0003) Aquagent® Complet 2 (AQ0007) Reagent for accelerated volumetric titration Contains imidazole, sulfur dioxide and methanol

Art. No.	Volume	Container
AQ00111000	1 l	0
AQ00112500	2,5 l	0

AQ0008 Aquagent® Solvent CM, solvent-component for volumetric Karl Fischer titration in oils and fats


- Density: 1,33 g/cm³
- Boiling point: 60 - 65 °C
- Flash pt. > 100 °C
- ADR: 6.1 T1 II UN 2810
- IMDG: 6.1 II UN 2810
- IATA/ICAO: 6.1 II UN 2810
- GHS-signal word: Danger

- GHS-H sentences: H311 - H370 - H351 - H373 - H314 - H302 - H332 - EUH209 - H360D
- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Applications: analytical chemistry, for water determination.
- Tariff number: 3822 00 00 00

For use with: Aquagent® Titrant 5 (AQ0001) Aquagent® Titrant 2 (AQ0006) Contains imidazole, sulfur dioxide, chloroform and methanol

Art. No.	Volume	Container
AQ00081000	1 l	0
AQ00082500	2,5 l	0

AQ0010 Aquagent® Solvent Oil, solvent-component for volumetric Karl Fischer titration in oils and fats, free from halogenated hydrocarbons


- Density: ~ 0,835 g/cm³
- Boiling point: 63 °C
- Flash pt. 17 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger

- GHS-H sentences: H225 - H370 - H302 - H332 - H315 - H360D -
- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Applications: analytical chemistry, laboratory reagent.
- Tariff number: 3822 00 00 00

For use with: Aquagent® Titrant 5 (AQ0001) Aquagent® Titrant 2 (AQ0006) 1-hexanol and methanol. Contains imidazole, sulfur dioxide, Free from halogenated hydrocarbons

Art. No.	Volume	Container
AQ00101000	1 l	0

Karl Fischer reagents, free from pyridine, for coulometric titration
AQ0022 Aquagent® Coulometric A, anolyte for coulometric Karl Fischer titration


- Density: 1,07 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: 59 °C
- Flash pt. 11 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992

- GHS-signal word: Danger
- GHS-H sentences: H225 - H311 - H331 - H370 - H351 - H373 - H314 - H302 - H360D
- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 3822 00 00 00
- Suitability for coulometric KF titrationpasses test

Contains methanol, chloroform, imidazole, sulfur dioxide Suitable for cells with diaphragm

Art. No.	Volume	Container
AQ00220500	500 ml	0

AQ0023 Aquagent® Coulometric CG, catholyte for coulometric Karl Fischer titration


- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: 63 °C
- Flash pt. 14 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992

- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370 - H319
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3822 00 00 00
- Suitability for coulometric KF titrationpasses test
- Contains methanol Suitable for cells with diaphragm

Art. No.	Volume	Container
AQ00230050	10 x 5 ml	0
AQ00230100	100 ml	0

AQ0024 Aquagent® Coulometric AG, for coulometric Karl Fischer titration, suitable for cells without diaphragm


- Density: 0,93 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: 63 °C
- Flash pt. 14 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992

- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370 - H314 - H360D
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Suitability for coulometric KF titrationpasses test

Contains methanol, diethanolamine, imidazole, sulfur dioxide

Art. No.	Volume	Container
AQ00240500	500 ml	0
AQ00241000	1 l	0

AQ0025 Aquagent® Coulometric Oil



- Density: 0,98 g/cm³
- Flash pt. 8 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H301 + H311 + H331 - H314 - H351 - H360D - H370 - H372

- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 3822 00 00 00
- Suitability for coulometric KF titration passes test

Contains methanol, chloroform, imidazole, xylol, sulfur dioxide
Suitable for cells with diaphragm

Art. No.	Volume	Container
AQ00250100	100 ml	0

Karl Fischer reagents, with pyridine

RE0013 Karl Fischer reagent 5, one-component reagent



- Density: 1,19 g/cm³
- Flash pt. 35 °C
- ADR: 3 FT1 III UN 1992
- IMDG: 3 III UN 1992
- IATA/ICAO: 3 III UN 1992
- GHS-signal word: Danger

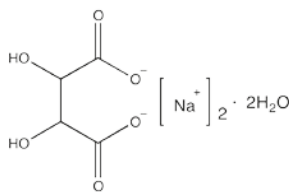
- GHS-H sentences: H360FD - H226 - H312 - H332 - H315
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for water determination.

1 ml = 5 mg H₂O approx.

Art. No.	Volume	Container
RE00131000	1 l	0

Karl Fischer reagents, standards

AQ0030 Aquagent®, di-Sodium tartrate dihydrate, secondary standard for volumetric Karl-Fischer titration



- Synonyms: Tartaric acid sodium salt dihydrate
- C₄H₄Na₂O₆ · 2H₂O
- M = 230,08 g/mol
- CAS [6106-24-7]
- EINECS-No.: 212-773-3
- Solub. in water: (20 °C): 290 g/l
- Melting point: 154 °C
- LD 50 (oral, rat): 1290 mg/kg
- Tariff number: 2918 13 00 90

- Applications: analytical chemistry, for water determination.
- water 15,61 - 15,71 %

Art. No.	Volume	Container
AQ00300025	25 g	0
AQ00300100	100 g	0

AQ0020 Aquagent®, standard solution 10



- Density: 1,00 g/cm³
- Flash pt. 30 °C
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993
- GHS-signal word: Danger

- GHS-H sentences: H318 - H226 - H335 - H336 - H315
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Water standard for volumetric KF titration.

water content 10,0 mg/g
contains 10,0 mg H₂O/1 g standard

Art. No.	Volume	Container
AQ00200080	10 x 8 ml	0

AQ0021 Aquagent®, standard solution 5



- Density: 0,85 g/cm³
- Flash pt. 21 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H318 - H332 - H335 - H336 - H315

- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Applications: analytical chemistry, standard (for water determination).
- Tariff number: 3822 00 00 00
- Water standard for volumetric KF titration.
- water content . . . 5,00 ± 0,02 mg/ml (5,88 ± 0,02 mg/g)

contains 5,00 mg H₂O/ml standard Air humidity will change the water content Protect from moisture

Art. No.	Volume	Container
AQ00210100	100 ml	0
AQ00210500	500 ml	0

AQ0019 Aquagent®, standard solution 1



- Density: 1,00 g/cm³
- Flash pt. 43 °C
- ADR: 3 F1 III UN 2222
- IMDG: 3 III UN 2222
- IATA/ICAO: 3 III UN 2222
- GHS-signal word: Warning

- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2909 30 90 90
- Water standard for coulometric KF titration.
- water content 1,0 mg/g

contains 1,0 mg H₂O/1 g standard

Art. No.	Volume	Container
AQ00190040	10 x 4 ml	0

Kerosene

KE0100 Kerosene, pure



- Synonyms: Coal oil, Deobase
- CAS [8008-20-6]
- EINECS-No.: 232-366-4
- Density: 0,78 g/cm³
- Solub. in water: (20 °C): non-miscible
- Boiling point: 190 - 250 °C
- Flash pt. 77 °C
- Ignition temp.: 227 °C
- Vapour pressure: (20 °C) 0,23 mm

- Refraction index: (n 20 °C/D) 1,437
- EC-Index-No.: 649-404-00-4
- ADR: 3 F1 III UN 1223
- IMDG: 3 III UN 1223
- IATA/ICAO: 3 III UN 1223
- GHS-signal word: Danger
- GHS-H sentences: H304
- GHS-P sentences: P301 + P310 - P331 - P405 - P501a

- Tariff number: 2710 19 25 00
- Applications: as fuel, solvents, degreasing agent.

Art. No.	Volume	Container
KE01002500	2,5 l	0
KE0100005L	5 l	0
KE0100025L	25 l	0

Kjeldahl catalysts

ME0680 Kjeldahl catalyst (Cu-Se), for quick determination of nitrogen, according to Wieninger

- Synonyms: Wieninger's reagent
- Solub. in water: (20 °C): partially soluble
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a

- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, nitrogen determinations.

Art. No.	Volume	Container
ME06801000	1 kg	⓪
ME0680005P	5 kg	Ⓟ

- GHS-signal word: Warning
- GHS-H sentences: H373 - H411 - H401

- GHS-P sentences: P260 - P273 - P270 - P304 + P340 - P312 - P501a

- Tariff number: 3815 90 90 90
- Applications: catalyst.

CA0393 Kjeldahl catalyst (Cu-Se), tablets 5 g



Art. No.	Volume	Container	Art. No.	Volume	Container
CA03931000	1 kg	⓪	CA0393005P	5 kg	Ⓟ

CA0394 Kjeldahl catalyst (Cu-Se), tablets 1 g



Art. No.	Volume	Container
CA03941000	1 kg	⓪

CA0396 Kjeldahl catalyst (Cu), tablets 4 g



- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: –

- GHS-H sentences: H411
- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
CA0396004P	4 kg	Ⓟ

Kovacs' reagent

RE0007 Kovacs' reagent, for microbiology



- Density: 0,89 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 36 °C
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993

- GHS-signal word: Warning
- GHS-H sentences: H226 - H302 - H315 - H319 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3822 00 00 00

- Applications: laboratory reagent, antibiotic.

Art. No.	Volume	Container
RE0007G100	100 ml	⓪
RE00071000	1 l	⓪

Aquagent®

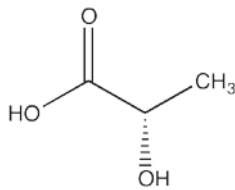
The Scharlau comprehensive pyridine-free solutions range for a reliable Karl Fischer Titration



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L(+)-Lactic acid



- Synonyms: 2-Hydroxypropanoic acid, Lactol
- $C_3H_6O_3$
- $M = 90,08 \text{ g/mol}$
- CAS [79-33-4]
- EINECS-No.: 200-018-0
- Density: $1,21 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: 18 °C

- Boiling point: (20 hPa) 122 °C
- LD 50 (oral, rat): 3543 mg/kg (pure substance)
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2918 11 00 00
- Applications: in food industry.

AC1380 L(+)-Lactic acid, 88 - 92%, extra pure, Pharmapur®, Ph Eur, BP

assay (acidimetric)88 - 92 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC13801000	1 l	⊘	AC1380005P	5 l	⊘

AC1381 L(+)-Lactic acid, 88- 90%, reagent grade, ACS, Reag. Ph Eur

assay (acidimetric)min. 88 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC13811000	1 l	⊘	AC1381005P	5 l	⊘

Lactophenol blue, solution

AZ0175 Lactophenol blue, solution for microscopy

- Density: $1,18 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- ADR: 6.1 TC1 II UN 2927
- IMDG: 6.1 II UN 2927
- IATA/ICAO: 6.1 II UN 2927

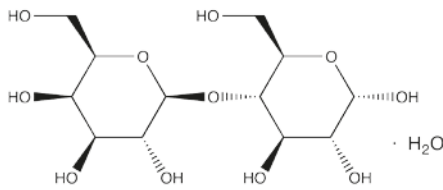
- GHS-signal word: Danger
- GHS-H sentences: H314 - H341 - H373 - H302 - H332
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a

- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
AZ0175G100	100 ml	⊘

D(+)-Lactose monohydrate

LA0060 D(+)-Lactose monohydrate, extra pure, Pharmapur®, Ph Eur, BP, NF



- Synonyms: Lactobiose, Milk sugar
- $C_{12}H_{22}O_{11} \cdot H_2O$
- $M = 360,32 \text{ g/mol}$
- CAS [10039-26-6]
- EINECS-No.: 200-559-2
- Solub. in water: (20 °C): freely soluble
- Melting point: 202 °C
- Tariff number: 1702 11 00 00
- Applications: analytical chemistry, synthesis of organic products, in food industry, for pharmaceuticals synthesizing, in biochemistry, nutrient media for bacterial culture, in pharma industry.

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
LA00600500	500 g	⊘
LA00601000	1 kg	⊘
LA0060005P	5 kg	⊘
LA0060025P	25 kg	⊘

Lanthanum(III) chloride heptahydrate

LA0090 Lanthanum(III) chloride heptahydrate, reagent grade, ACS

- $LaCl_3 \cdot 7H_2O$
- $M = 371,37 \text{ g/mol}$
- CAS [10025-84-0]
- EINECS-No.: 233-237-5
- Solub. in water: (20 °C): soluble
- Melting point: 91 °C (release of crystalline water)
- LD 50 (oral, rat): 4184 mg/kg (anhydrous substance)

- Tariff number: 2846 90 00 00
- Applications: analytical chemistry, laboratory reagent, desiccant (painting), catalyst (in the petrochemical industry).

assay (gravimetric)min. 98 %

Art. No.	Volume	Container
LA00900100	100 g	⊘
LA00900250	250 g	⊘

Lanthanum(III) nitrate hexahydrate

LA0100 Lanthanum(III) nitrate hexahydrate, reagent grade

- $La(NO_3)_3 \cdot 6H_2O$
- $M = 433,02 \text{ g/mol}$
- CAS [10277-43-7]
- EINECS-No.: 233-238-0
- Solub. in water: (20 °C): soluble
- Melting point: 40 °C
- Boiling point: 126 °C (decomposes)
- ADR: 5.1 O2 II UN 1477
- IMDG: 5.1 II UN 1477
- IATA/ICAO: 5.1 II UN 1477

- GHS-signal word: Danger
- GHS-H sentences: H272 - H318
- GHS-P sentences: P221 - P210 - P220 - P305 + P351 + P338 - P310 - P501a
- Tariff number: 2846 90 00 00
- Applications: analytical chemistry, for biology, catalyst, in the electronic industry, stain for electron microscopy, manufacture of glass, in the ceramics industry.
- Appearance: White crystals

assay (complexometric)min. 99 %

Art. No.	Volume	Container
LA01000100	100 g	⊘
LA01000250	250 g	⊘

Lanthanum(III) oxide

LA0110 Lanthanum(III) oxide, extra pure

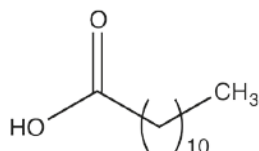
- La_2O_3
- $M = 325,81 \text{ g/mol}$
- CAS [1312-81-8]
- EINECS-No.: 215-200-5
- Solub. in water: (20 °C): insoluble
- Melting point: 2315 °C

- Tariff number: 2846 90 00 00
- Applications: for spectroscopy, in the electronic industry, manufacture of glass, in the ceramics industry.

Art. No.	Volume	Container
LA01100100	100 g	⊖
LA01100250	250 g	⊖

assay (complexometric)min. 98 %

Lauric acid



- Synonyms: Dodecanoic acid
- $\text{C}_{12}\text{H}_{24}\text{O}_2$
- $M = 200,32 \text{ g/mol}$
- CAS [143-07-7]
- EINECS-No.: 205-582-1
- Solub. in water: (20 °C): insoluble
- Melting point: 42 - 45 °C
- Boiling point: (1,3 hPa) 131 °C
- Flash pt. > 160 °C

- Vapour pressure: (20 °C) < 0,01 hPa
- LD 50 (oral, rat): 12000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2915 90 10 00
- Applications: synthesis of organic products, in food industry, for pharmaceuticals synthesizing.

AC1392 Lauric acid, synthesis grade

assay (G.C., as methyl ester)min. 99 %

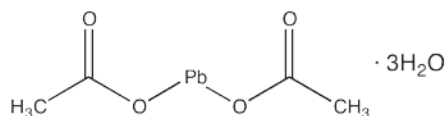
Art. No.	Volume	Container	Art. No.	Volume	Container
AC13921000	1 kg	⊖	AC1392005P	5 kg	⊖

AC1395 Lauric acid, extra pure, Reag. Ph Eur

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AC13950100	100 g	⊖

Lead(II) acetate trihydrate



- Synonyms: Acetic acid lead salt trihydrate
- $\text{Pb}(\text{CH}_3\text{COO})_2 \cdot 3\text{H}_2\text{O}$
- $M = 379,34 \text{ g/mol}$
- CAS [6080-56-4]
- EINECS-No.: 206-104-4
- Solub. in water: (20 °C): 410 g/l
- Melting point: 75 °C
- LD 50 (oral, rat): 4665 mg/kg
- EC-Index-No.: 082-005-00-8
- ADR: 6.1 T5 III UN 1616

- IMDG: 6.1 III UN 1616
- IATA/ICAO: 6.1 III UN 1616
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H410
- GHS-P sentences: P260 - P281 - P273 - P308 + P313 - P405 - P501a
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, manufacture of dyes, stain for electron microscopy.
- Appearance: Colourless to white solid

PL0114 Lead(II) acetate trihydrate, extra pure

assay (complexometric) 99,5 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PL01140500	500 g	⊖	PL0114005P	5 kg	⊖
PL01141000	1 kg	⊖	PL0114025P	25 kg	⊖

PL0115 Lead(II) acetate trihydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (complexometric) 99,5 - 103,0 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PL01150500	500 g	⊖	PL0115005P	5 kg	⊖
PL01151000	1 kg	⊖			

Lead(II) chloride

PL0120 Lead(II) chloride, extra pure

- PbCl_2
- $M = 278,10 \text{ g/mol}$
- CAS [7758-95-4]
- EINECS-No.: 231-845-5
- Solub. in water: (20 °C): 10 g/l
- Melting point: 500 °C
- Boiling point: 950 °C
- LD 50 (oral, rat): > 1947 mg/kg
- EC-Index-No.: 082-001-00-6
- ADR: 6.1 T5 III UN 2291

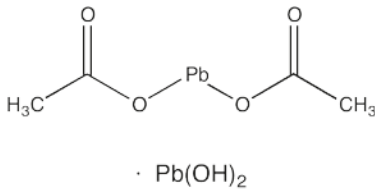
- IMDG: 6.1 III UN 2291
- IATA/ICAO: 6.1 III UN 2291
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H410 - H302 - H332
- GHS-P sentences: P260 - P261 - P281 - P301 + P312 - P405 - P501a
- Tariff number: 2827 39 80 90
- Applications: synthesis of organic products, pigment, in solders, laboratory reagent.

assay (complexometric)min. 99 %

Art. No.	Volume	Container
PL01200500	500 g	⊖
PL01201000	1 kg	⊖
PL0120005P	5 kg	⊖

Lead(II) hydroxide acetate

PL0135 Lead(II) hydroxide acetate, reagent grade, for determination of sugar according to Horne, ACS



- Synonyms: Horne's compound, Lead(II) acetate basic, Lead subacetate
- $C_4H_8O_6Pb_2$
- M = 566,50 g/mol
- CAS [51404-69-4]
- EINECS-No.: 257-175-3
- Solub. in water: (20 °C): soluble
- EC-Index-No.: 082-001-00-6
- ADR: 6.1 T5 III UN 2291
- IMDG: 6.1 III UN 2291
- IATA/ICAO: 6.1 III UN 2291
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H351 - H373 - H410

- GHS-P sentences: P260 - P281 - P273 - P308 + P313 - P405 - P501a
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, for determination of: sugars.

assay (PbO) min. 33,0 %

Art. No.	Volume	Container
PL0135005P	5 kg	
PL0135025P	25 kg	

Lead(II) nitrate

PL0140 Lead(II) nitrate, reagent grade, ACS



- $Pb(NO_3)_2$
- M = 331,21 g/mol
- CAS [10099-74-8]
- EINECS-No.: 233-245-9
- Solub. in water: (20 °C): 525 g/l
- Melting point: ~ 470 °C
- EC-Index-No.: 082-001-00-6
- ADR: 5.1 OT2 II UN 1469
- IMDG: 5.1 II UN 1469
- IATA/ICAO: 5.1 II UN 1469

- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H410 - H302 - H332
- GHS-P sentences: P260 - P261 - P281 - P301 + P312 - P405 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent, manufacture of dyes, in explosive compositions, photography, in the textile industry.
- Appearance: White solid

assay (complexometric) min. 99,5 %

Art. No.	Volume	Container
PL01400500	500 g	
PL01401000	1 kg	

Lead(II) nitrate, volumetric solutions

PL0145 Lead(II) nitrate, solution 0,05 mol/l



- $Pb(NO_3)_2$
- M = 331,21 g/mol
- CAS [10099-74-8]
- EINECS-No.: 233-245-9
- EC-Index-No.: 082-001-00-6
- ADR: 6.1 T4 III UN 3287

- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H360D - H373 - H412 -
- GHS-P sentences: P260 - P281 - P273 - P308 + P313 - P405 - P501a

- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
PL01451000	1 l	

Lead(II) oxide

- Synonyms: Litharge
- PbO
- M = 223,19 g/mol
- CAS [1317-36-8]
- EINECS-No.: 215-267-0
- Solub. in water: (20 °C): 0,017 g/l
- Melting point: 890 °C
- Boiling point: 1470 °C

- LD 50 (oral, rat): > 10000 mg/kg
- EC-Index-No.: 082-001-00-6
- ADR: 6.1 T5 III UN 2291
- IMDG: 6.1 III UN 2291
- IATA/ICAO: 6.1 III UN 2291
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H410 - H302 - H332

- GHS-P sentences: P260 - P261 - P281 - P301 + P312 - P405 - P501a
- Tariff number: 2824 10 00 00
- Applications: laboratory reagent, in building materials, in the ceramics industry, painting (in porcelain industry, in the ceramics industry), pigment (in the rubber industry).

PL0150 Lead(II) oxide, extra pure



assay (complexometric) 99 - 100,5 %

Art. No.	Volume	Container
PL01500500	500 g	
PL01501000	1 kg	

Art. No.	Volume	Container
PL0150005P	5 kg	
PL0150025P	25 kg	

PL0151 Lead(II) oxide, reagent grade



assay (complexometric) min. 99 %

Art. No.	Volume	Container
PL01510250	250 g	

Art. No.	Volume	Container
PL01511000	1 kg	

Lead(IV) oxide

PL0149 Lead(IV) oxide, extra pure



- Synonyms: Lead dioxide, Lead peroxide, Lead oxide brown
- PbO_2
- M = 239,20 g/mol
- CAS [1309-60-0]
- EINECS-No.: 215-174-5
- Solub. in water: (20 °C): almost insoluble
- Melting point: 290 °C (decomposes)
- EC-Index-No.: 082-001-00-6
- ADR: 5.1 OT2 III UN 1872

- IMDG: 5.1 III UN 1872
- IATA/ICAO: 5.1 III UN 1872
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H410 - H302 - H332
- GHS-P sentences: P260 - P261 - P281 - P301 + P312 - P405 - P501a
- Tariff number: 2824 90 00 00

- Applications: analytical chemistry, electrolyte for batteries, oxidizing agent (manufacture of dyes), in the rubber industry, in pyrotechnics, pigment.
- Appearance: Brown-black powder

assay (iodometric) min. 97 %

Art. No.	Volume	Container
PL01490500	500 g	

Lead(II) sulfate
PL0155 Lead(II) sulfate, extra pure


- PbSO₄
- M = 303,25 g/mol
- CAS [7446-14-2]
- EINECS-No.: 231-198-9
- Solub. in water: (20 °C): 0,045 g/l
- Melting point: 1170 °C
- EC-Index-No.: 082-001-00-6
- ADR: 8 C2 II UN 1794
- IMDG: 8 II UN 1794

- IATA/ICAO: 8 II UN 1794
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H410 - H302 - H332
- GHS-P sentences: P260 - P261 - P281 - P301 + P312 - P405 - P501a
- Tariff number: 2833 29 70 00
- Applications: analytical chemistry, pigment, electrolyte for batteries.

assay (complexometric)min. 98 %

Art. No.	Volume	Container
PL01550500	500 g	Ⓟ
PL0155005P	5 kg	Ⓟ

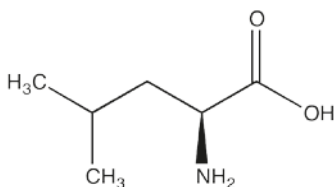
Lead tetraoxide
PL0152 Lead tetraoxide, reagent grade


- Synonyms: Minium, Lead orthoplumbate, Saturn red
- Pb₃O₄
- M = 685,57 g/mol
- CAS [1314-41-6]
- EINECS-No.: 215-235-6
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 470 °C (decomposes)
- EC-Index-No.: 082-001-00-6
- ADR: 6.1 T5 III UN 3288
- IMDG: 6.1 III UN 3288

- IATA/ICAO: 6.1 III UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H360Df - H373 - H410 - H302 - H332
- GHS-P sentences: P260 - P261 - P281 - P301 + P312 - P405 - P501a
- Tariff number: 2824 20 00 00
- Applications: protection of iron against corrosion and rusting; in the ceramics industry, glass.

 assay (as Pb₃O₄)min. 97 %

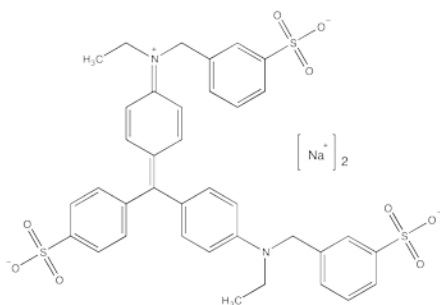
Art. No.	Volume	Container
PL01520500	500 g	Ⓟ
PL01521000	1 kg	Ⓟ

L-Leucine
LE0055 L-Leucine, extra pure, Pharmapur®, Ph Eur, BP, USP


- Synonyms: 2-Amino-4-methylvaleric acid, α-Aminoisocaproic acid, 2-Amino-4-methylpentanoic acid
- C₆H₁₃NO₂
- M = 131,18 g/mol
- CAS [61-90-5]
- EINECS-No.: 200-522-0
- Solub. in water: (20 °C): 24 g/l
- Melting point: 300 °C (decomposes)
- Tariff number: 2922 49 95 90
- Applications: in biochemistry, in food industry, synthesis of organic products, in pharma industry.

 assay (titration with HClO₄, on dried sample) 98,5 - 101 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
LE00550025	25 g	Ⓟ
LE00550100	100 g	Ⓟ

Light green SF yellowish, C.I. 42095
VE0160 Light green SF yellowish, C.I. 42095, for microscopy


- Synonyms: Acid green 5
- C₃₇H₃₄N₂Na₂O₉S₃
- M = 792,86 g/mol
- CAS [5141-20-8]
- EINECS-No.: 225-906-5
- Solub. in water: (25 °C): 200 g/l
- Melting point: 288 °C
- LD 50 (oral, rat): > 2000 mg/kg
- Tariff number: 3204 19 00 90
- Applications: manufacture of dyes, for biology, microscopy.

Art. No.	Volume	Container
VE01600025	25 g	Ⓟ
VE01600100	100 g	Ⓟ

Lithium carbonate

- Li₂CO₃
- M = 73,89 g/mol
- CAS [554-13-2]
- EINECS-No.: 209-062-5
- Solub. in water: (20 °C): 13 g/l
- Melting point: 720 °C

- LD 50 (oral, rat): 525 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 2836 91 00 90

• Applications: analytical chemistry, in the production of enamels (in porcelain industry, in the electronic industry), for pharmaceuticals synthesizing.

LI0098 Lithium carbonate, extra pure, Pharmapur®, Ph Eur, BP, USP

 assay (acidimetric) 98,5 - 100,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
LI00980500	500 g	Ⓟ

Art. No.	Volume	Container
LI00981000	1 kg	Ⓟ

LI0100 Lithium carbonate, reagent grade, ACS, Reag. Ph Eur


assay (acidimetric) min. 99,0 %

Art. No.	Volume	Container
LI01000250	250 g	Ⓟ

Art. No.	Volume	Container
LI01000500	500 g	Ⓟ

Lithium chloride

- LiCl
- M = 42,39 g/mol
- CAS [7447-41-8]
- EINECS-No.: 231-212-3
- Solub. in water: (20 °C): 832 g/l
- Melting point: 614 °C
- Boiling point: 1360 °C
- Vapour pressure: (547 °C) 1,33 hPa
- LD 50 (oral, rat): 526 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2827 39 80 90
- Applications: analytical chemistry, in explosive compositions, in solders, for pharmaceuticals synthesizing, laboratory reagent.

LI0110 Lithium chloride, extra pure

assay (argentometric)min. 98 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	LI01100100	100 g	⊘	LI01100500	500 g	⊘
	LI01100250	250 g	⊘	LI0110025P	25 kg	⊘

LI0112 Lithium chloride, molecular biology grade

assay (argentometric)min. 99 % DNases, RNases, Proteases non detected	Art. No.	Volume	Container	Art. No.	Volume	Container
	LI01120250	250 g	⊘	LI0112005P	x 5 kg	⊘

Lithium hydroxide monohydrate

- LiOH·H₂O
- M = 41,96 g/mol
- CAS [1310-66-3]
- EINECS-No.: 215-183-4
- Solub. in water: (20 °C): 124 g/l
- Melting point: 462 °C
- Boiling point: 924 °C (decomposes)
- ADR: 8 C6 II UN 2680
- IMDG: 8 II UN 2680
- IATA/ICAO: 8 II UN 2680
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2825 20 00 00
- Applications: analytical chemistry, laboratory reagent, for determination of: aminoacids.

LI0140 Lithium hydroxide monohydrate, synthesis grade

assay (acidimetric, LiOH)min. 56 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	LI01400500	500 g	⊘	LI01401000	1 kg	⊘

LI0141 Lithium hydroxide monohydrate, reagent grade, ACS

assay (acidimetric)min. 99 %	Art. No.	Volume	Container
	LI01410250	250 g	⊘

Lithium metaborate

LI0090 Lithium metaborate, reagent grade

• LiBO ₂ • M = 49,75 g/mol • CAS [13453-69-5] • EINECS-No.: 236-631-5 • Solub. in water: (20 °C): almost insoluble • Melting point: ~ 840 °C	• Tariff number: 2840 20 90 00 • Applications: analytical chemistry, laboratory reagent, for spectroscopy.	Art. No.	Volume	Container
		LI00900100	100 g	⊘
	assay (acidimetric)min. 99 %	LI00900500	500 g	⊘

Lithium nitrate

LI0175 Lithium nitrate, extra pure

• Synonyms: Nitric acid lithium salt • LiNO ₃ • M = 68,95 g/mol • CAS [7790-69-4] • EINECS-No.: 232-218-9 • Solub. in water: (20 °C): 522 g/l • Melting point: 255 °C • ADR: 5.1 O2 III UN 2722 • IMDG: 5.1 III UN 2722	• IATA/ICAO: 5.1 III UN 2722 • GHS-signal word: Warning • GHS-H sentences: H272 • GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a • Tariff number: 2834 29 80 00 • Applications: laboratory reagent, corrosion inhibitor. • Appearance: White crystalline powder	assay (argentometric)min. 98 %	Art. No.	Volume	Container
			LI01750250	250 g	⊘
			LI01750500	500 g	⊘
			LI0175005P	5 kg	⊘

Lithium sulfate monohydrate

LI0180 Lithium sulfate monohydrate, reagent grade, ACS

• Li ₂ SO ₄ ·H ₂ O • M = 127,96 g/mol • CAS [10102-25-7] • EINECS-No.: 233-820-4 • Solub. in water: (20 °C): 340 g/l • Melting point: 120 °C	• Tariff number: 2833 29 90 00 • Applications: laboratory reagent, manufacture of glass, in building materials.	assay (acidimetric, on dried sample)min. 99 %	Art. No.	Volume	Container
			LI01800250	250 g	⊘
			LI01800500	500 g	⊘

Litmus, soluble

TO0280 Litmus, soluble, synthesis grade

- Synonyms: Lacmus, Tournesol, Lacca musica
- M = ~ 3300 g/mol
- CAS [1393-92-6]
- EINECS-No.: 215-739-6
- Solub. in water: (20 °C): soluble

- Tariff number: 3203 00 19 00
 - Applications: indicator
- pH range (red to blue) 4,5 - 8,3

Art. No.	Volume	Container
TO02800025	25 g	0
TO02800250	250 g	0

Lugol's solution

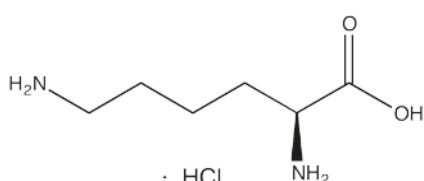
LU0010 Lugol's solution, for microscopy

- Synonyms: Iodine-potassium iodide solution
- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: 100 °C
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, laboratory reagent, for microbiology, bacterium staining.

Art. No.	Volume	Container
LU0010G100	100 ml	0
LU00100500	500 ml	0
LU00101000	1000 ml	0
LU00102500	2,5 l	0

L-Lysine monohydrochloride

LI0035 L-Lysine monohydrochloride, synthesis grade



- Synonyms: L-(+)-2,6-Diamino-N-caproic acid monohydrochloride
- C₆H₁₄N₂O₂·HCl
- M = 182,65 g/mol
- CAS [657-27-2]
- EINECS-No.: 211-519-9
- Solub. in water: (20 °C): 420 g/l
- Melting point: 263 - 264 °C
- LD 50 (oral, rat): 10000 mg/kg
- Tariff number: 2922 41 00 00

- Applications: in biochemistry, in food industry, synthesis of organic products.
- assay (titration with HClO₄) min. 99 %

Art. No.	Volume	Container
LI00351000	1 kg	0
LI0035005P	5 kg	0

Scharlau Dehydrated Culture Media



- PAC-o-VAC® (vacuum outer bag)
- Wide range of products
- Special formulations
- Also available in bulk (5 and 25kg)


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Magnesium

MA0020 Magnesium, powder, synthesis grade 

<ul style="list-style-type: none"> • Mg • M = 24,31 g/mol • CAS [7439-95-4] • EINECS-No.: 231-104-6 • Solub. in water: (20 °C): insoluble • Melting point: 651 °C • Boiling point: 1107 °C • Flash pt. 500 °C • EC-Index-No.: 012-001-00-3 • ADR: 4.3 WS II UN 1418 	<ul style="list-style-type: none"> • IMDG: 4.3 II UN 1418 • IATA/ICAO: 4.3 II UN 1418 • GHS-signal word: Danger • GHS-H sentences: H250 - H260 • GHS-P sentences: P210 - P222 - P231 + P232 - P280 - P422a - P501a • Tariff number: 8104 30 00 00 • Applications: in explosive compositions, photography, alloys, for organometallic compounds synthesizing, metal alloys. 	assay (complexometric) min. 99 %
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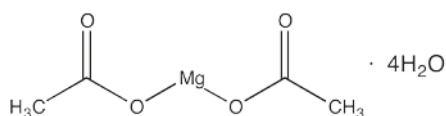
Art. No.	Volume	Container
MA00200025	25 g	⊖
MA00200250	250 g	⊖

MA0025 Magnesium, turnings, synthesis grade, according to Grignard 

<ul style="list-style-type: none"> • Mg • M = 24,31 g/mol • CAS [7439-95-4] • EINECS-No.: 231-104-6 • Solub. in water: (20 °C): insoluble • Melting point: 651 °C • Boiling point: 1107 °C • Flash pt. 500 °C • EC-Index-No.: 012-002-00-9 	<ul style="list-style-type: none"> • ADR: 4.1 F3 III UN 1869 • IMDG: 4.1 III UN 1869 • IATA/ICAO: 4.1 III UN 1869 • GHS-signal word: Danger • GHS-H sentences: H228 - H261 - H252 • GHS-P sentences: P210 - P231 + P232 - P241 - P280 - P235 + P410 - P501a • Tariff number: 8104 90 00 90 • Appearance: Silvery solid 	assay (complexometric) min. 99,5 %
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Art. No.	Volume	Container
MA00250100	100 g	⊖
MA00250250	250 g	⊖
MA00251000	1 kg	⊖

Magnesium acetate tetrahydrate



- Synonyms: Acetic acid magnesium salt tetrahydrate
- Mg(CH₃COO)₂·4H₂O
- M = 214,46 g/mol
- CAS [16674-78-5]
- EINECS-No.: 205-554-9
- Solub. in water: (20 °C): soluble
- Melting point: 80 °C
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, in food industry.

MA0027 Magnesium acetate tetrahydrate, extra pure, Pharmpur®, Ph Eur, BP

assay (complexometric, on dried sample) 98 - 101 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00270500</td> <td>500 g</td> <td>⊖</td> </tr> <tr> <td>MA00271000</td> <td>1 kg</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00270500	500 g	⊖	MA00271000	1 kg	⊖	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA0027005P</td> <td>5 kg</td> <td>⊖</td> </tr> <tr> <td>MA0027025P</td> <td>25 kg</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA0027005P	5 kg	⊖	MA0027025P	25 kg	⊖
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MA00271000	1 kg	⊖																		
Art. No.	Volume	Container																		
MA0027005P	5 kg	⊖																		
MA0027025P	25 kg	⊖																		

MA0028 Magnesium acetate tetrahydrate, reagent grade, ACS

assay (complexometric) 99,5 - 102 %	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00280500</td> <td>500 g</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00280500	500 g	⊖	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00281000</td> <td>1 kg</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00281000	1 kg	⊖
Art. No.	Volume	Container												
MA00280500	500 g	⊖												
Art. No.	Volume	Container												
MA00281000	1 kg	⊖												

Magnesium chloride hexahydrate

- MgCl₂·6H₂O
- M = 203,30 g/mol
- CAS [7791-18-6]
- EINECS-No.: 232-094-6
- Solub. in water: (20 °C): 1670 g/l
- Melting point: ~ 117 °C (decomposes)
- LD 50 (oral, rat): 8100 mg/kg
- Tariff number: 2827 31 00 00
- Applications: analytical chemistry, laboratory reagent, disinfectant. Extinguishant.

MA0035 Magnesium chloride hexahydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (complexometric) 98 - 101 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00350250</td> <td>250 g</td> <td>⊖</td> </tr> <tr> <td>MA00350500</td> <td>500 g</td> <td>⊖</td> </tr> <tr> <td>MA00351000</td> <td>1 kg</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00350250	250 g	⊖	MA00350500	500 g	⊖	MA00351000	1 kg	⊖	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA0035005P</td> <td>5 kg</td> <td>⊖</td> </tr> <tr> <td>MA0035025P</td> <td>25 kg</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA0035005P	5 kg	⊖	MA0035025P	25 kg	⊖
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MA00351000	1 kg	⊖																					
Art. No.	Volume	Container																					
MA0035005P	5 kg	⊖																					
MA0035025P	25 kg	⊖																					

MA0036 Magnesium chloride hexahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (complexometric) 99,0 - 101,0 %	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00360250</td> <td>250 g</td> <td>⊖</td> </tr> <tr> <td>MA00360500</td> <td>500 g</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00360250	250 g	⊖	MA00360500	500 g	⊖	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00361000</td> <td>1 kg</td> <td>⊖</td> </tr> <tr> <td>MA0036005P</td> <td>5 kg</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00361000	1 kg	⊖	MA0036005P	5 kg	⊖
Art. No.	Volume	Container																		
MA00360250	250 g	⊖																		
MA00360500	500 g	⊖																		
Art. No.	Volume	Container																		
MA00361000	1 kg	⊖																		
MA0036005P	5 kg	⊖																		

MA0037 Magnesium chloride hexahydrate, molecular biology grade

assay (complexometric) min. 99 % DNases, RNases, Proteases non detected	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00370100</td> <td>100 g</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00370100	100 g	⊖	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00370500</td> <td>500 g</td> <td>⊖</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00370500	500 g	⊖
Art. No.	Volume	Container												
MA00370100	100 g	⊖												
Art. No.	Volume	Container												
MA00370500	500 g	⊖												

Magnesium chloride, volumetric solutions

MA0038 Magnesium chloride, solution 0,1 mol/l (0,2 N)

<ul style="list-style-type: none"> • $MgCl_2 \cdot 6H_2O$ • M = 203,30 g/mol • CAS [7786-30-3] • EINECS-No.: 232-094-6 	<ul style="list-style-type: none"> • Density: ~ 1,01 g/cm³ • Tariff number: 2827 31 00 00 • Applications: analytical chemistry, titrant in volumetric analysis. 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00381000</td> <td>1 l</td> <td>Ⓓ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00381000	1 l	Ⓓ
Art. No.	Volume	Container						
MA00381000	1 l	Ⓓ						

Magnesium hydrogen phosphate trihydrate

MA0045 Magnesium hydrogen phosphate trihydrate, extra pure

<ul style="list-style-type: none"> • Synonyms: Magnesium phosphate dibasic • $MgHPO_4 \cdot 3H_2O$ • M = 174,33 g/mol • CAS [7782-75-4] • EINECS-No.: 231-823-5 • Solub. in water: (20 °C): 0,25 g/l 	<ul style="list-style-type: none"> • Tariff number: 2835 29 90 00 • Applications: in food industry (E 343). assay (complexometric) 98 - 102 % 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00450500</td> <td>500 g</td> <td>Ⓓ</td> </tr> <tr> <td>MA0045005P</td> <td>5 kg</td> <td>Ⓕ</td> </tr> <tr> <td>MA0045025P</td> <td>25 kg</td> <td>Ⓕ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00450500	500 g	Ⓓ	MA0045005P	5 kg	Ⓕ	MA0045025P	25 kg	Ⓕ
Art. No.	Volume	Container												
MA00450500	500 g	Ⓓ												
MA0045005P	5 kg	Ⓕ												
MA0045025P	25 kg	Ⓕ												

Magnesium hydroxide carbonate pentahydrate

MA0055 Magnesium hydroxide carbonate pentahydrate, synthesis grade

<ul style="list-style-type: none"> • Synonyms: Magnesium carbonate basic • ~ $4MgCO_3 \cdot Mg(OH)_2 \cdot 5H_2O$ • M = ~ 485 g/mol • CAS [12125-28-9] • EINECS-No.: 235-192-7 • Solub. in water: (20 °C): insoluble 	<ul style="list-style-type: none"> • Melting point: 700 °C • Tariff number: 2836 99 11 00 • Applications: analytical chemistry, in buffer solutions, in food industry, thickener, cosmetics. assay (as MgO) 40 - 45 % 	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00551000</td> <td>1 kg</td> <td>Ⓕ</td> </tr> <tr> <td>MA0055005P</td> <td>5 kg</td> <td>Ⓕ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00551000	1 kg	Ⓕ	MA0055005P	5 kg	Ⓕ
Art. No.	Volume	Container									
MA00551000	1 kg	Ⓕ									
MA0055005P	5 kg	Ⓕ									

Magnesium nitrate hexahydrate

<ul style="list-style-type: none"> • $Mg(NO_3)_2 \cdot 6H_2O$ • M = 256,41 g/mol • CAS [13446-18-9] • EINECS-No.: 233-826-7 • Solub. in water: (20 °C): 1250 g/l • Melting point: ~ 89 - 95 °C (decomposes) 	<ul style="list-style-type: none"> • LD 50 (oral, rat): 5440 mg/kg • ADR: 5.1 O2 III UN 1474 • IMDG: 5.1 III UN 1474 • IATA/ICAO: 5.1 III UN 1474 • GHS-signal word: Danger • GHS-H sentences: H272 	<ul style="list-style-type: none"> • GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a • Tariff number: 2834 29 80 00 • Applications: analytical chemistry, laboratory reagent, oxidizing agent. • Appearance: White crystals
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MA0048 Magnesium nitrate hexahydrate, extra pure, Reag. Ph Eur

assay (complexometric) min. 98 %	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00480500</td> <td>500 g</td> <td>Ⓓ</td> </tr> <tr> <td>MA00481000</td> <td>1 kg</td> <td>Ⓓ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00480500	500 g	Ⓓ	MA00481000	1 kg	Ⓓ	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA0048005P</td> <td>5 kg</td> <td>Ⓕ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA0048005P	5 kg	Ⓕ
Art. No.	Volume	Container															
MA00480500	500 g	Ⓓ															
MA00481000	1 kg	Ⓓ															
Art. No.	Volume	Container															
MA0048005P	5 kg	Ⓕ															

MA0050 Magnesium nitrate hexahydrate, reagent grade, ACS

assay (complexometric) 99 - 102 %	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00500500</td> <td>500 g</td> <td>Ⓓ</td> </tr> <tr> <td>MA00501000</td> <td>1 kg</td> <td>Ⓓ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00500500	500 g	Ⓓ	MA00501000	1 kg	Ⓓ	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA0050005P</td> <td>5 kg</td> <td>Ⓕ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA0050005P	5 kg	Ⓕ
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MA00500500	500 g	Ⓓ															
MA00501000	1 kg	Ⓓ															
Art. No.	Volume	Container															
MA0050005P	5 kg	Ⓕ															

Magnesium oxide

<ul style="list-style-type: none"> • Synonyms: Magnesia usta • MgO • M = 40,30 g/mol • CAS [1309-48-4] 	<ul style="list-style-type: none"> • EINECS-No.: 215-171-9 • Solub. in water: (20 °C): insoluble • Melting point: ~ 2800 °C • Boiling point: 3600 °C 	<ul style="list-style-type: none"> • Tariff number: 2519 90 10 00 • Applications: in the ceramics industry, in optics, in building materials, in pharma industry.
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MA0060 Magnesium oxide, extra pure, Ph Eur, BP, USP

assay (complexometric, on ignited substance) 96 - 100,5 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00600250</td> <td>250 g</td> <td>Ⓓ</td> </tr> <tr> <td>MA00600500</td> <td>500 g</td> <td>Ⓓ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00600250	250 g	Ⓓ	MA00600500	500 g	Ⓓ	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00601000</td> <td>1 kg</td> <td>Ⓕ</td> </tr> <tr> <td>MA0060005P</td> <td>5 kg</td> <td>Ⓕ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00601000	1 kg	Ⓕ	MA0060005P	5 kg	Ⓕ
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MA0060005P	5 kg	Ⓕ																		

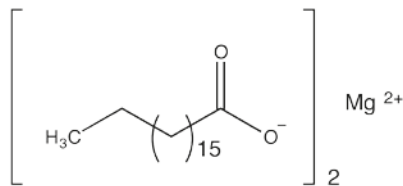
MA0061 Magnesium oxide, light, powder, Ph Eur, GMP, suitable for use as excipient

assay (on ignited sample) 98 - 100,5 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA00611000</td> <td>1 kg</td> <td>Ⓓ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA00611000	1 kg	Ⓓ	<table border="1"> <thead> <tr> <th>Art. No.</th> <th>Volume</th> <th>Container</th> </tr> </thead> <tbody> <tr> <td>MA0061025P</td> <td>25 kg</td> <td>Ⓕ</td> </tr> </tbody> </table>	Art. No.	Volume	Container	MA0061025P	25 kg	Ⓕ
Art. No.	Volume	Container												
MA00611000	1 kg	Ⓓ												
Art. No.	Volume	Container												
MA0061025P	25 kg	Ⓕ												



Magnesium stearate

MA0040 Magnesium stearate, extra pure, Pharmpur®, Ph Eur, BP, NF



- Synonyms: Stearic acid magnesium salt
- $C_{36}H_{70}MgO_4$
- $M = 591,27 \text{ g/mol}$
- CAS [557-04-0]
- EINECS-No.: 209-150-3
- Solub. in water: (20 °C): insoluble
- Tariff number: 2915 70 30 00
- Applications: in the pharmaceuticals industry, desiccant (painting), emulsifier, in pharma industry.

assay of Mg (referred to dried sample) 4,0 - 5,0 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
MA00401000	1 kg	⊖

Magnesium sulfate anhydrous

- $MgSO_4$
- $M = 120,37 \text{ g/mol}$
- CAS [7487-88-9]
- EINECS-No.: 231-298-2

- Solub. in water: (20 °C): 269 g/l
- Melting point: 1124 °C
- Tariff number: 2833 21 00 00

- Applications: analytical chemistry, manufacture of dyes, in fertilizer compositions, in explosive compositions, cosmetics, desiccant.

MA0080 Magnesium sulfate anhydrous, extra pure

assay (complexometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
MA00800500	500 g	⊖	MA0080005P	5 kg	⊖
MA00801000	1 kg	⊖	MA0080025P	25 kg	⊖

MA0081 Magnesium sulfate anhydrous, suitable for QuEChERS

assay (complexometric)min. 98 %

Art. No.	Volume	Container
MA0081025P	25 kg	⊖

Magnesium sulfate heptahydrate

- Synonyms: Bitter salt, Epsom salt, Sulfuric acid magnesium salt heptahydrate
- $MgSO_4 \cdot 7H_2O$
- $M = 246,48 \text{ g/mol}$

- CAS [10034-99-8]
- EINECS-No.: 231-298-2
- Solub. in water: (20 °C): 710 g/l
- Tariff number: 2833 21 00 00

- Applications: analytical chemistry, manufacture of dyes, in fertilizer compositions, in explosive compositions, cosmetics.

MA0084 Magnesium sulfate heptahydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (complexometric, on dried sample)99,0 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
MA00840500	500 g	⊖	MA0084005P	5 kg	⊖
MA00841000	1 kg	⊖	MA0084025P	25 kg	⊖

MA0085 Magnesium sulfate heptahydrate, reagent grade, ACS, Reag. Ph Eur

assay (complexometric, on dried sample)99 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
MA00850250	250 g	⊖	MA0085005P	5 kg	⊖
MA00850500	500 g	⊖	MA0085025P	25 kg	⊖
MA00851000	1 kg	⊖			

MA0086 Magnesium sulfate heptahydrate, molecular biology grade

assay (complexometric)min. 99,5 %
DNases, RNases, Proteasespasses test

Art. No.	Volume	Container	Art. No.	Volume	Container
MA00860100	100 g	⊖	MA00860500	500 g	⊖

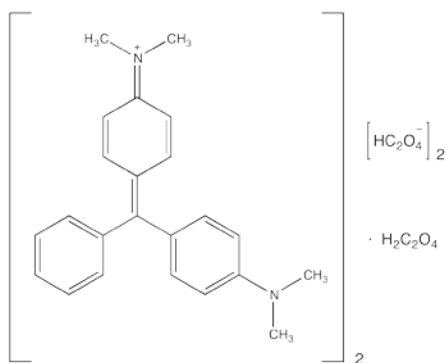
Magnesium sulfate, volumetric solutions

MA0087 Magnesium sulfate, solution 0,01 mol/l

- $MgSO_4$
- $M = 120,37 \text{ g/mol}$
- CAS [7487-88-9]
- EINECS-No.: 231-298-2

- Density: ~ 1 g/cm³
- Tariff number: 2833 21 00 00
- Applications: analytical chemistry.

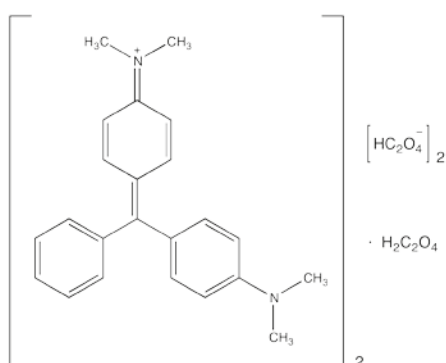
Art. No.	Volume	Container
MA00871000	1 l	⊖

Malachite green oxalate, C.I. 42000
VE0100 Malachite green oxalate, C.I. 42000, reagent and microscopy grade


- Synonyms: Diamond green B
- C₂₅H₂₀N₄·H₂C₂O₄
- M = 927,02 g/mol
- CAS [2437-29-8]
- EINECS-No.: 219-441-7
- Solub. in water: (24 °C): 110 g/l
- Melting point: ~ 159 °C
- EC-Index-No.: 607-007-00-3
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312
- GHS-P sentences: P280 - P322 - P301 + P312 - P312 - P363 - P501a
- Tariff number: 3204 13 00 90

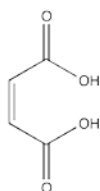
- Applications: analytical chemistry, for microbiology, microscopy.
- Appearance: Green powder

Art. No.	Volume	Container
VE01000025	25 g	0
VE01000100	100 g	0
VE01001000	1 kg	0

Malachite green oxalate, solution
VE0101 Malachite green oxalate, solution for microscopy


- C₂₅H₂₀N₄·H₂C₂O₄
- M = 927,02 g/mol
- CAS [2437-29-8]
- EINECS-No.: 219-441-7
- Density: 1,07 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 6.1 T1 III UN 2810
- IMDG: 6.1 III UN 2810
- IATA/ICAO: 6.1 III UN 2810
- GHS-signal word: Danger
- GHS-H sentences: H318 - H361 - H411
- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
VE0101G100	100 ml	0
VE01011000	1 l	0

Maleic acid
AC1410 Maleic acid, extra pure, Phampur®, Ph Eur, BP


Synonyms: cis-Butenedioic acid

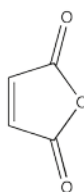
- C₄H₄O₄
- M = 116,07 g/mol
- CAS [110-16-7]
- EINECS-No.: 203-742-5

- Solub. in water: (25 °C): 788 g/l
- Melting point: 133 °C
- Boiling point: 135 °C (decomposes)
- Flash pt. 127 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 708 mg/kg
- EC-Index-No.: 607-095-00-3
- ADR: 8 C4 III UN 3261
- IMDG: 8 III UN 3261
- IATA/ICAO: 8 III UN 3261
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319 - H317 - H335 -
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a

- Tariff number: 2917 19 90 90
- Applications: synthesis of organic products, manufacturing of synthetic resins, for pharmaceuticals synthesizing, manufacture of dyes, in pharma industry.

assay (acidimetric, referred to dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC14100500	500 g	0
AC14101000	1 kg	0

Maleic anhydride
AN0250 Maleic anhydride, synthesis grade


Synonyms: 2,5-Furanedione

- C₄H₂O₃
- M = 98,06 g/mol

- CAS [108-31-6]
- EINECS-No.: 203-571-6
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: 51 - 53 °C
- Boiling point: 200 °C
- Flash pt. 103 °C
- Ignition temp.: 475 °C
- Vapour pressure: (40 °C) 1,3 hPa
- LD 50 (oral, rat): 481 mg/kg
- EC-Index-No.: 607-096-00-9
- ADR: 8 C4 III UN 2215
- IMDG: 8 III UN 2215
- IATA/ICAO: 8 III UN 2215
- GHS-signal word: Danger

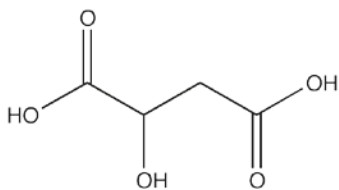
- GHS-H sentences: H334 - H314 - H302 - H317
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2917 14 00 00
- Applications: synthesis of organic products, manufacture of dyes, for pharmaceuticals synthesizing, in food industry, manufacturing of synthetic resins.

assay (morpholine method) min. 99 %

Art. No.	Volume	Container
AN02500500	500 g	0
AN02501000	1 kg	0

DL-Malic acid

AC1420 DL-Malic acid, extra pure, Pharmapur®, Ph Eur, BP, NF



- Synonyms: DL-Hydroxysuccinic acid, DL-Malate
- $C_4H_6O_5$
- M = 134.09 g/mol
- CAS [6915-15-7]
- EINECS-No.: 230-022-8
- Solub. in water: (20 °C): ~ 530 g/l
- Melting point: 127-130 °C
- Boiling point: 150 °C (decomposes)
- Flash pt. 203 °C
- Ignition temp.: 349 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313

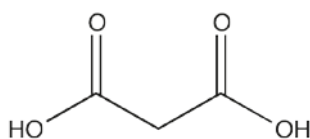
- Tariff number: 2918 19 80 20
- Applications: in biochemistry, for pharmaceuticals synthesizing, synthesis of organic products, in pharma industry.

assay (acidimetric, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC14200500	500 g	⊕
AC14201000	1 kg	⊕

Malonic acid

AC1430 Malonic acid, synthesis grade



- Synonyms: 1,3-Propanedioic acid
- $C_3H_4O_4$
- M = 104,06 g/mol
- CAS [141-82-2]
- EINECS-No.: 205-503-0
- Solub. in water: (20 °C): 735 g/l
- Melting point: 136 °C
- Flash pt. 157 °C
- LD 50 (oral, rat): 1310 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319

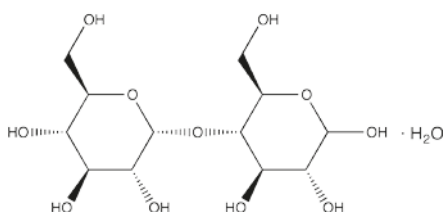
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 2917 19 10 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing.

assay (acidimetric) min. 99 %

Art. No.	Volume	Container
AC14300250	250 g	⊕

Maltose monohydrate

MA0100 Maltose monohydrate, for microbiology



- Synonyms: Maltobiose, 4-O- α -D-Glucopyranosyl-D-glucose
- $C_{12}H_{22}O_{11} \cdot H_2O$
- M = 360,32 g/mol
- CAS [6363-53-7]
- EINECS-No.: 200-716-5
- Solub. in water: (20 °C): 1080 g/l
- Melting point: 160 - 165 °C
- Tariff number: 1702 90 10 90

Art. No.	Volume	Container
MA01000500	500 g	⊕

Manganese

MA0120 Manganese, powder, synthesis grade

- Mn
- M = 54,94 g/mol
- CAS [7439-96-5]
- EINECS-No.: 231-105-1
- Solub. in water: (20 °C): insoluble
- Melting point: 1260 °C

- Boiling point: 1900 °C
- LD 50 (oral, rat): 9000 mg/kg
- Tariff number: 8111 00 11 00
- Applications: laboratory reagent, synthesis of organic products, inorganic salts, metal alloys, in building materials.

assay (complexometric) approx. 99 %

Art. No.	Volume	Container
MA01200250	250 g	⊕

Manganese(II) nitrate tetrahydrate

MA0123 Manganese(II) nitrate tetrahydrate, reagent grade



- $Mn(NO_3)_2 \cdot 4H_2O$
- M = 251,01 g/mol
- CAS [20694-39-7]
- EINECS-No.: 233-828-8
- Solub. in water: (20 °C): 3800 g/l
- Melting point: 37 °C
- ADR: 5.1 O2 III UN 2724
- IMDG: 5.1 III UN 2724

- IATA/ICAO: 5.1 III UN 2724
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, laboratory reagent, for the synthesis of: MnO_2 ; in porcelain industry.

assay (complexometric) min. 98,5 %

Art. No.	Volume	Container
MA01231000	1 kg	⊕
MA0123005P	5 kg	⊕
MA01230500	500 g	⊕

Manganese(II) chloride tetrahydrate

MA0122 Manganese(II) chloride tetrahydrate, extra pure



- $MnCl_2 \cdot 4H_2O$
- M = 197,91 g/mol
- CAS [13446-34-9]
- EINECS-No.: 231-869-6
- Solub. in water: (20 °C): soluble
- Melting point: 58 °C
- LD 50 (oral, rat): 1484 mg/kg
- GHS-signal word: Warning

- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2827 39 85 90
- Applications: analytical chemistry, for determination of: dissolved oxygen.

assay (complexometric) 98 - 102 %

Art. No.	Volume	Container
MA01220500	500 g	⊖
MA01221000	1 kg	⊖
MA0122005P	5 kg	⊖

Manganese(IV) oxide

- Synonyms: Manganese dioxide, Pyrolusite, Black manganese oxide, Manganese superoxide
- MnO_2
- M = 86,94 g/mol
- CAS [1313-13-9]
- EINECS-No.: 215-202-6
- Solub. in water: (20 °C): insoluble
- Melting point: 535 °C (decomposes)

- EC-Index-No.: 025-001-00-3
- ADR: 5.1 O2 II UN 1479
- IMDG: 5.1 II UN 1479
- IATA/ICAO: 5.1 II UN 1479
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332
- GHS-P sentences: P261 - P264 - P301 + P312 - P304 + P340 - P312 - P501a

- Tariff number: 2820 10 00 90
- Applications: laboratory reagent, in building materials, oxidizing agent, electrolyte for batteries, manufacture of glass, painting (in porcelain industry), manufacture of dyes (in the textile industry), pigment.
- Appearance: Dark grey to black powder

MA0126 Manganese(IV) oxide, synthesis grade



assay (permanganometric) approx. 90 %

Art. No.	Volume	Container	Art. No.	Volume	Container
MA01260500	500 g	⊖	MA0126005P	5 kg	⊖
MA01261000	1 kg	⊖			

MA0125 Manganese(IV) oxide, 90%, extra pure



assay (permanganometric) approx. 90 %
insoluble in HCl max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
MA01250100	100 g	⊖	MA01250500	500 g	⊖

Manganese(II) sulfate monohydrate

- $MnSO_4 \cdot H_2O$
- M = 169,02 g/mol
- CAS [10034-96-5]
- EINECS-No.: 232-089-9
- Solub. in water: (20 °C): 762 g/l
- Melting point: 117 °C (decomposes)

- EC-Index-No.: 025-003-00-4
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H373 - H411

- GHS-P sentences: P260 - P273 - P314 - P391 - P501a
- Tariff number: 2833 29 90 00
- Applications: analytical chemistry, in porcelain industry.

MA0130 Manganese(II) sulfate monohydrate, extra pure, Pharmapur®, Ph Eur, BP, USP



assay (complex, on ignited sample) 98 - 102 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
MA01300500	500 g	⊖	MA0130005P	5 kg	⊖
MA01301000	1 kg	⊖	MA0130025P	25 kg	⊖

MA0133 Manganese(II) sulfate monohydrate, powder, Pharmapur®, Ph Eur, USP, GMP, suitable for use as excipient



Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
MA01331000	1 kg	⊖	MA0133025P	25 kg	⊖

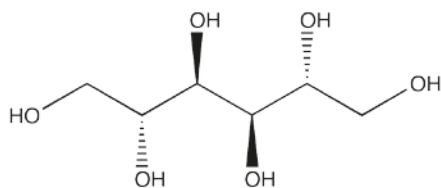
MA0131 Manganese(II) sulfate monohydrate, reagent grade, ACS, Reag. Ph Eur



assay (complexometric) 99 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
MA01310500	500 g	⊖	MA0131005P	5 kg	⊖
MA01311000	1 kg	⊖			

D(-)-Mannitol



- Synonyms: Manna sugar
- $C_6H_{14}O_6$
- M = 182,17 g/mol
- CAS [69-65-8]
- EINECS-No.: 200-711-8
- Solub. in water: (25 °C): 213 g/l
- Melting point: 165-169 °C
- Boiling point: (4 hPa) 290 - 295 °C

- LD 50 (oral, rat): 13500 mg/kg
- Tariff number: 2905 43 00 00
- Applications: analytical chemistry, manufacturing of synthetic resins, for pharmaceuticals synthesizing, in food industry, for determination of: boric acid.

MA0149 D(-)-Mannitol, extra pure, Pharmapur®, Ph Eur, BP, USP




assay (HPLC on dried sample) 97 - 101,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
MA01490500	500 g	⊖	MA0149005P	5 kg	⊖
MA01491000	1 kg	⊖			

MA0151 D(-)-Mannitol, powder, Pharmpur®, Ph Eur, USP, GMP, suitable for use as excipient




assay (referred to dried

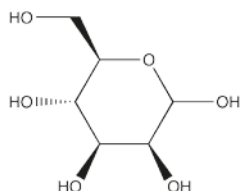
 sample)96 - 102 %
 Residual solvents are analysed according to guideline
 CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
MA01511000	1 kg		MA0151025P	25 kg	
MA0151005P	5 kg				

MA0150 D(-)-Mannitol, reagent grade, ACS, Reag. Ph Eur



assay (iodometric) min. 99,0 %

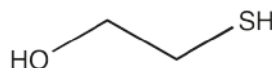
Art. No.	Volume	Container	Art. No.	Volume	Container
MA01500500	500 g		MA0150005P	5 kg	
MA01501000	1 kg				

D(+)-Mannose
MA0160 D(+)-Mannose, for biochemistry


- $C_6H_{12}O_6$
- $M = 180,16$ g/mol
- CAS [3458-28-4]
- EINECS-No.: 222-392-4
- Solub. in water: (20 °C): freely soluble
- Melting point: 133 °C
- Tariff number: 2940 00 00 10
- Applications: analytical chemistry, in biochemistry, in food industry, synthesis of organic products.

assay (HPLC)min. 98 %



Art. No.	Volume	Container
MA01600010	10 g	
MA01600100	100 g	

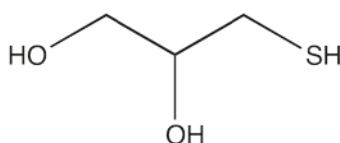
2-Mercaptoethanol
ME0095 2-Mercaptoethanol, molecular biology grade


- Synonyms: Hydroxyethyl mercaptan, Thioethylene glycol, Thioglycol
- C_2H_6OS
- $M = 78,13$ g/mol
- CAS [60-24-2]
- EINECS-No.: 200-464-6
- Density: 1,12 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -100 °C
- Boiling point: 157 °C
- Flash pt. 68 °C
- Ignition temp.: 295 °C
- Vapour pressure: (20 °C) 1 hPa
- LD 50 (oral, rat): 244 mg/kg
- ADR: 6.1 T1 II UN 2966
- IMDG: 6.1 II UN 2966
- IATA/ICAO: 6.1 II UN 2966

- GHS-signal word: Danger
- GHS-H sentences: H301 - H310 - H314 - H411
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2930 90 99 99
- Applications: for microbiology, protector for carbonyl groups, for the synthesis of: sulfides.
- Appearance: Colourless liquid

 assay (G.C.)min. 99 %
 DNases, RNases, Proteases non detected


Art. No.	Volume	Container
ME00950050	50 ml	
ME00950250	250 ml	

3-Mercapto-1,2-propanediol
TI0220 3-Mercapto-1,2-propanediol, min. 98%, reagent grade


- Synonyms: α -Thioglycerol
- $C_3H_8O_3S$
- $M = 108,16$ g/mol
- CAS [96-27-5]
- EINECS-No.: 202-495-0
- Density: 1,25 g/cm³
- Solub. in water: (20 °C): sparingly miscible
- Boiling point: 118 °C
- Flash pt. 110 °C
- ADR: Not regulated
- IMDG: Not regulated
- IATA/ICAO: 9
- GHS-signal word: Warning

- GHS-H sentences: H302 - H312 - H332 - H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2930 90 99 99
- Applications: for pharmaceuticals synthesizing.

assay (iodometric)min. 98 %




Art. No.	Volume	Container
TI02202500	2,5 l	

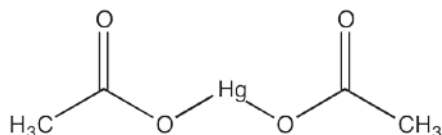
Mercury
ME0175 Mercury, metal, extra pure, washed, Reag. Ph Eur


- Hg
- $M = 200,59$ g/mol
- CAS [7439-97-6]
- EINECS-No.: 231-106-7
- Density: 13,55 g/cm³
- Solub. in water: (25 °C): 0,0036 mg/l
- Melting point: -39 °C
- Boiling point: 357 °C
- Vapour pressure: (20 °C) 0,0017 hPa
- EC-Index-No.: 080-001-00-0
- ADR: 8 CT1 III UN 2809

- IMDG: 8 III UN 2809
- IATA/ICAO: 8 III UN 2809
- GHS-signal word: Danger
- GHS-H sentences: H330 - H360D - H372 - H410
- GHS-P sentences: P260 - P284 - P310 - P320 - P405 - P501a
- Tariff number: 2805 40 90 00
- Applications: in thermometers, catalyst (synthesis of organic products), inorganic salts, amalgams, for pharmaceuticals synthesizing, for electroanalysis.

assay min. 99,6 %

Art. No.	Volume	Container
ME01750100	100 g	
ME01750250	250 g	
ME01751000	1 kg	

Mercury(II) acetate


- Synonyms: Acetic acid mercury(II) salt, Mercuric salts
- $\text{Hg}(\text{CH}_3\text{COO})_2$
- M = 318,68 g/mol
- CAS [1600-27-7]
- EINECS-No.: 216-491-1
- Solub. in water: (20 °C): 400 g/l
- Melting point: 178 - 180 °C
- LD 50 (oral, rat): 40,9 mg/kg
- EC-Index-No.: 080-002-00-6

- ADR: 6.1 T5 II UN 1629
- IMDG: 6.1 II UN 1629
- IATA/ICAO: 6.1 II UN 1629
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: for mercuration of organic compounds.

ME0120 Mercury(II) acetate, extra pure

assay (complexometric) min. 98,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME01200100	100 g	⊖	ME01201000	1 kg	⊖
ME01200250	250 g	⊖			

ME0121 Mercury(II) acetate, reagent grade, ACS, Reag. Ph Eur

assay (complexometric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME01210100	100 g	⊖	ME01211000	1 kg	⊖

Mercury(I) chloride
ME0160 Mercury(I) chloride, synthesis grade

- Synonyms: Calomel, Mercurous salts
- Hg_2Cl_2
- M = 472,09 g/mol
- CAS [10112-91-1]
- EINECS-No.: 233-307-5
- Solub. in water: (20 °C): 0,0023 g/l
- Vapour pressure: (120 °C) ~ 0,015 hPa
- LD 50 (oral, rat): 210 mg/kg
- EC-Index-No.: 080-003-00-1

- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2852 10 00 00

- Applications: laboratory reagent, in porcelain industry, electrolyte for batteries, fungicide, antiseptic.

assay (iodometric) min. 99 %

Art. No.	Volume	Container
ME01600100	100 g	⊖
ME01601000	1 kg	⊖

Mercury(II) chloride

- HgCl_2
- M = 271,50 g/mol
- CAS [7487-94-7]
- EINECS-No.: 231-299-8
- Solub. in water: (20 °C): 74 g/l
- Melting point: 280,7 °C
- Boiling point: 302 °C

- Vapour pressure: (20 °C) 0,0001 hPa
- LD 50 (oral, rat): 1 mg/kg
- EC-Index-No.: 080-010-00-X
- ADR: 6.1 T5 II UN 1624
- IMDG: 6.1 II UN 1624
- IATA/ICAO: 6.1 II UN 1624
- GHS-signal word: Danger

- GHS-H sentences: H300 - H372 - H341 - H361f - H314 - H410
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, catalyst, synthesis of organic products.

ME0169 Mercury(II) chloride, extra pure, Pharmpur®, Ph Eur, BP

 assay (complexometric, on dried sample) 99,5 - 100,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
ME01690100	100 g	⊖	ME01691000	1 kg	⊖
ME01690250	250 g	⊖			

ME0170 Mercury(II) chloride, reagent grade, ACS, ISO

assay (complexometric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME01700100	100 g	⊖	ME01701000	1 kg	⊖
ME01700250	250 g	⊖			

Mercury(II) iodide
ME0250 Mercury(II) iodide, red, reagent grade, ACS

- HgI_2
- M = 454,40 g/mol
- CAS [7774-29-0]
- EINECS-No.: 231-873-8
- Solub. in water: (25 °C): 0,06 g/l
- Melting point: 259 °C
- Boiling point: 354 °C
- Vapour pressure: (60 °C) ~ 0,001 hPa
- LD 50 (oral, rat): 18 mg/kg
- EC-Index-No.: 080-002-00-6

- ADR: 6.1 T5 II UN 1638
- IMDG: 6.1 II UN 1638
- IATA/ICAO: 6.1 II UN 1638
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent.

assay (iodometric, on dried sample) min. 99 %

Art. No.	Volume	Container
ME02500050	50 g	⊖
ME02500250	250 g	⊖
ME02501000	1 kg	⊖

Mercury(I) nitrate dihydrate

ME0193 Mercury(I) nitrate dihydrate, reagent grade



- $\text{Hg}_2(\text{NO}_3)_2 \cdot 2\text{H}_2\text{O}$
- M = 561,22 g/mol
- CAS [14836-60-3]
- EINECS-No.: 233-886-4
- Solub. in water: (20 °C): 20 g/l
- Melting point: 70 °C (decomposes)
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1627
- IMDG: 6.1 II UN 1627
- IATA/ICAO: 6.1 II UN 1627
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, inorganic salts.

assay (iodometric)min. 97 %

Art. No.	Volume	Container
ME01930100	100 g	⊘
ME01930250	250 g	⊘

Mercury(II) nitrate monohydrate

ME0195 Mercury(II) nitrate monohydrate, reagent grade, Reag. Ph Eur



- Synonyms: Mercuric nitrate, Mercury pernitrate
- $\text{Hg}(\text{NO}_3)_2 \cdot \text{H}_2\text{O}$
- M = 342,62 g/mol
- CAS [7783-34-8]
- EINECS-No.: 233-152-3
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: 79 °C (anhydrous substance)
- LD 50 (oral, rat): 26 mg/l (anhydrous substance)
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1625
- IMDG: 6.1 II UN 1625
- IATA/ICAO: 6.1 II UN 1625
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, in pesticide compositions.

assay (complexometric)min. 99 %

Art. No.	Volume	Container
ME01950100	100 g	⊘
ME01950250	250 g	⊘

Mercury(II) nitrate, volumetric solutions

ME0197 Mercury(II) nitrate, solution 0,01 mol/l (0,02 N)



- $\text{Hg}(\text{NO}_3)_2$
- M = 324,62 g/mol
- CAS [10045-94-0]
- EINECS-No.: 233-152-3
- Density: 1,007 g/cm³
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T4 III UN 2024
- IMDG: 6.1 III UN 2024
- IATA/ICAO: 6.1 III UN 2024
- GHS-signal word: Warning
- GHS-H sentences: H373 - H302 - H312 - H412
- GHS-P sentences: P260 - P280 - P322 - P301 + P312 - P312 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent.

assay (complexometric)min. 99 %

Art. No.	Volume	Container
ME01971000	1 l	⊘

Mercury(II) oxide

- HgO
- M = 216,59 g/mol
- CAS [21908-53-2]
- EINECS-No.: 244-654-7
- Solub. in water: (25 °C): 0,052 g/l
- Melting point: > 400 °C (decomposes)
- Vapour pressure: (20 °C) 0,0012 hPa
- LD 50 (oral, rat): 18 mg/kg
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1641
- IMDG: 6.1 II UN 1641
- IATA/ICAO: 6.1 II UN 1641
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, catalyst (synthesis of organic products), painting, pigment (in porcelain industry), for determination of: nitrogen (Kjeldahl).

assay (complexometric)min. 99 %

ME0214 Mercury(II) oxide, red, extra pure



assay (complexometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME02140100	100 g	⊘	ME02140250	250 g	⊘

ME0215 Mercury(II) oxide, red, reagent grade, ACS



assay (complexometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME02150050	50 g	⊘	ME02150250	250 g	⊘
ME02150100	100 g	⊘			

- HgO
- M = 216,59 g/mol
- CAS [21908-53-2]
- EINECS-No.: 244-654-7
- Solub. in water: (25 °C): 0,052 g/l
- Melting point: > 400 °C (decomposes)
- Vapour pressure: (20 °C) 0,0012 hPa
- LD 50 (oral, rat): 18 mg/kg
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1641
- IMDG: 6.1 II UN 1641
- IATA/ICAO: 6.1 II UN 1641
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, catalyst (synthesis of organic products), painting, pigment (in porcelain industry), for determination of: nitrogen (Kjeldahl).

assay (complexometric)min. 99 %

ME0210 Mercury(II) oxide, yellow, extra pure



assay (complexometric)min. 99 %

Art. No.	Volume	Container
ME02100100	100 g	⊘

ME0213 Mercury(II) oxide, yellow, reagent grade, ACS, Reag. Ph Eur



assay (complexometric)min. 99 %

Art. No.	Volume	Container
ME02130100	100 g	⊘

Mercury(II) sulfate

- Synonyms: Mercury bisulfate
- HgSO₄
- M = 296,65 g/mol
- CAS [7783-35-9]
- EINECS-No.: 231-992-5
- Solub. in water: (20 °C): hydrolysis reaction
- Ignition temp.: > 450 °C
- LD 50 (oral, rat): 57 mg/kg
- EC-Index-No.: 080-002-00-6
- ADR: 6.1 T5 II UN 1645
- IMDG: 6.1 II UN 1645
- IATA/ICAO: 6.1 II UN 1645
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H373 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2852 10 00 00
- Applications: analytical chemistry, laboratory reagent, electrolyte for batteries.

ME0226 Mercury(II) sulfate, extra pure

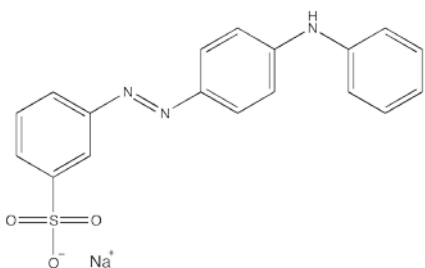
assay (complexometric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME02260100	100 g	⊘	ME02261000	1 kg	⊘
ME02260250	250 g	⊘	ME0226005P	5 kg	⊘

ME0227 Mercury(II) sulfate, reagent grade, ACS

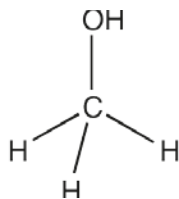
 assay (complexometric) min. 99 %
 suitability for COD. passes test

Art. No.	Volume	Container	Art. No.	Volume	Container
ME02270100	100 g	⊘	ME02271000	1 kg	⊘
ME02270250	250 g	⊘			

Metanil yellow, C.I. 13065
AM0055 Metanil yellow, C.I. 13065, indicator


- Synonyms: 3-(4-Anilinophenylazo)benzenesulfonic acid sodium salt, Acid yellow 36
- C₁₈H₁₄N₂NaO₃S
- M = 375,38 g/mol
- CAS [587-98-4]
- EINECS-No.: 209-608-2
- Solub. in water: (20 °C): soluble
- LD 50 (oral, rat): 5000 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H318 - H312 - H332
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P310 - P322 - P501a
- Tariff number: 2927 00 00 90
- Applications: analytical chemistry, indicator.
- pH range (red to yellow) 1,2 - 2,8

Art. No.	Volume	Container
AM00550025	25 g	⊘

Methanol


- Synonyms: Methyl alcohol, Carbinol, Methynol, Wood alcohol
- CH₃OH
- M = 32,04 g/mol
- CAS [67-56-1]
- EINECS-No.: 200-659-6
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -98 °C
- Boiling point: 64,5 °C
- Flash pt. 11 °C
- Ignition temp.: 455 °C
- Vapour pressure: (20 °C) 128 hPa
- Refraction index: (n 20 °C/D) 1,3288
- Dielectric const.: (25 °C) 32,6
- LD 50 (oral, rat): 5628 mg/kg
- EC-Index-No.: 603-001-00-X
- ADR: 3 FT1 II UN 1230
- IMDG: 3 II UN 1230
- IATA/ICAO: 3 II UN 1230
- GHS-signal word: Danger
- GHS-H sentences: H225 - H301 - H311 - H331 - H370
- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P361 - P405 - P501a
- Tariff number: 2905 11 00 00
- Applications: solvents, synthesis of organic products, in antifreeze compositions, solvent for animal and vegetable oils extractions.

ME0301 Methanol, extra pure, Pharmpur®, Ph Eur, BP, NF

 assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,1 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
ME03011000	1 l	⊘	ME0301005P	5 l	⊘
ME03012500	2,5 l	⊘	ME0301025P	25 l	⊘
ME0301005L	5 l	⊘	ME0301025S	25 l	⊘

ME0302 Methanol, reagent grade, ACS, ISO, Reag. Ph Eur

 assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,0005 %
 water (K.F.) max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME03021000	1 l	⊘	ME0302025P	25 l	⊘
ME03022500	2,5 l	⊘	ME0302025S	25 l	⊘
ME03024000	4 l	⊘	ME0302030S	30 l	⊘
ME0302005P	5 l	⊘	ME0302200E	200 l	⊘
ME0302007E	7 l	⊘	ME0302200L	200 l	⊘

ME0315 Methanol, Multisolvant® HPLC grade ACS ISO UV-VIS K.F.

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,0002 %
 water (K.F.) max. 0,03 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 T(%) A (AU)
 207 nm. 10 % 1,000 AU
 220 nm. 50 % 0,301 AU
 232 nm. 80 % 0,097 AU
 242 nm. 90 % 0,046 AU
 260 nm. 98 % 0,009 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
ME03151000	1 l	0
ME03152500	2,5 l	0
ME03154000	4 l	0
ME0315007E	7 l	0
ME0315025S	25 l	0
ME0315030S	30 l	0
ME0315100S	100 l	0

Art. No.	Volume	Container
ME0315185E	185 l	0

ME0306 Methanol, supragradient HPLC grade

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,02 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 T(%) A (AU)
 215 nm. 50 % 0,301 AU
 240 nm. 90 % 0,046 AU

gradient grade (235 nm) maximum background absorbance:0,015 AU maximum peak absorbance:0,0015 AU fluorescence analysis: maximum absorbance: 1 ppb as quinine (in 0,1 N sulfuric acid), for the spectra recorded at the following conditions: EX wavelength between 220 and 450 EM wavelength between 250 and 550 Microfiltered through membranes of pore diameter 0,22 µm

Art. No.	Volume	Container
ME03061000	1 l	0
ME03062500	2,5 l	0
ME03064000	4 l	0
ME0306007E	7 l	0
ME0306025S	25 l	0
ME0306030S	30 l	0
ME0306100S	100 l	0
ME0306185E	185 l	0

ME0334 Methanol, UHPLC-MS

assay (G.C.) min. 99,9 %
 potassium (K) max. 0,000005 %
 sodium (Na) max. 0,00001 %
 water (K.F.) max. 0,02 %

Microfiltered through membranes of pore diameter 0,1 µm

Art. No.	Volume	Container
ME03341000	1 l	0
ME03342500	2,5 l	0

ME0326 Methanol, LC-MS

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,00001 %
 sodium (Na) max. 0,00001 %
 residue on evaporation max. 0,0005 %

water (K.F.) max. 0,02 %
 suitability for use in LC-MS passes test
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
ME03261000	1 l	0
ME03262500	2,5 l	0

ME0318 Methanol, for GC residue analysis

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,03 %
 Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container
ME03181000	1 l	0
ME03182500	2,5 l	0

Art. No.	Volume	Container
ME03184000	4 l	0

ME0319 Methanol, GC ultra-trace analysis grade

assay (G.C.) min. 99,9 %
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,03 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
ME03191000	1 l	0
ME03192500	2,5 l	0

ME0314 Methanol, 99,9%, anhydrous (max. 0,003% H₂O)

water (K.F.) max. 0,003 %

Art. No.	Volume	Container
ME03140100	100 ml	0
ME03140500	500 ml	0

Art. No.	Volume	Container
ME03141000	1 l	0

ME0325 Methanol, 99,8%, anhydrous (max. 0,005% H₂O), with molecular sieves

assay (G.C.) min. 99,8 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
ME03251000	1 l	0

ME0304 Methanol, dried (max. 0,005% H₂O), reagent grade (Karl Fischer)

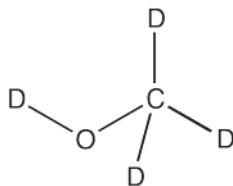
assay (G.C.) min. 99,8 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
ME03041000	1 l	0

Art. No.	Volume	Container
ME03042500	2,5 l	0

Methanol-d4

ME0312 Methanol-d4, deuteration degree min. 99,8%, NMR spectroscopy grade, Spectrosol®



Synonyms: Tetradeuteromethanol
• CD₃OD

- M = 36,07 g/mol
- CAS [811-98-3]
- EINECS-No.: 212-378-6
- Density: 0,89 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -99 °C
- Boiling point: 65 °C
- Flash pt. 11 °C
- Ignition temp.: 455 °C
- LD 50 (oral, rat): 5628 mg/kg
- ADR: 3 FT1 II UN 1230
- IMDG: 3 II UN 1230
- IATA/ICAO: 3 II UN 1230

- GHS-signal word: Danger
- GHS-H sentences: H225 - H301 - H311 - H331 - H370
- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P361 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
ME03120010	10 ml	♻️
ME0312.750	x10x0,75ml	♻️

Methanol with 0,1% acetic acid

ME0329 Methanol with 0,1% acetic acid, LC-MS



- Flash pt. 11 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370

- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, chromatography.

suitability for use in LC-MS passes test

Art. No.	Volume	Container
ME03291000	1 l	♻️

acetic acid content (v/v) 0,093 - 0,107 %

Methanol with 0,1% ammonium acetate

ME0330 Methanol with 0,1% ammonium acetate, LC-MS



- Flash pt. 11 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370

- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, chromatography.

suitability for use in LC-MS passes test

Art. No.	Volume	Container
ME03301000	1 l	♻️

ammonium acetate content (w/v) 0,093 - 0,107 %

Methanol with 0,1% trifluoroacetic acid

ME0327 Methanol with 0,1% trifluoroacetic acid, LC-MS



- Density:
- Flash pt. 11 °C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370

- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, chromatography.

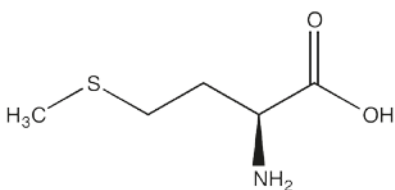
suitability for use in LC-MS passes test

Art. No.	Volume	Container
ME03271000	1 l	♻️

trifluoroacetic acid content (v/v) 0,093 - 0,107 %

L-Methionine

ME0635 L-Methionine, extra pure, Pharmpur®, Ph Eur, BP, USP



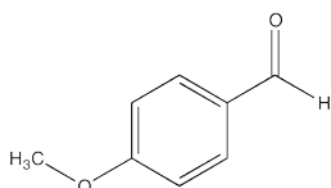
- Synonyms: 2-Amino-4-(methylthio)butyric acid, Acimethin
- C₅H₁₁NO₂S
- M = 149,21 g/mol
- CAS [63-68-3]
- EINECS-No.: 200-562-9
- Solub. in water: (20 °C): 48 g/l
- Melting point: 280 - 285 °C
- LD 50 (oral, rat): 10000 mg/kg
- Tariff number: 2930 40 10 00
- Applications: in biochemistry, for pharmaceuticals synthesizing, in food industry, synthesis of organic products, in pharma industry.

assay (titration with HClO₄, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
ME06350025	25 g	♻️
ME06350100	100 g	♻️
ME0635005P	5 kg	♻️

4-Methoxybenzaldehyde

AL0515 4-Methoxybenzaldehyde, extra pure



Synonyms: Anisaldehyde
• C₈H₈O₂

- M = 136,15 g/mol
- CAS [123-11-5]
- EINECS-No.: 204-602-6
- Density: (25 °C) 1,12 g/cm³
- Solub. in water: (20 °C): 2 g/l
- Melting point: 0 - 2 °C
- Boiling point: 247 - 249 °C
- Flash pt. 116 °C
- Ignition temp.: 220 °C
- Vapour pressure: (20 °C) < 1 hPa
- Refraction index: (n₂₀^D) 1,57
- LD 50 (oral, rat): 3200 mg/kg
- GHS-signal word: Warning

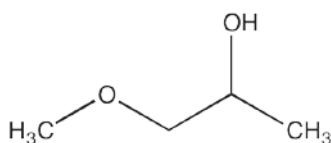
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2912 49 00 90
- Applications: perfumery, synthesis of organic products.

assay (G.C.) min. 98 %

Art. No.	Volume	Container
AL05150250	250 ml	♻️

1-Methoxy-2-propanol

ME0665 1-Methoxy-2-propanol, synthesis grade



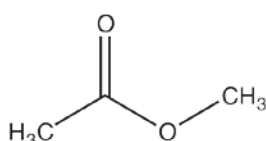
- Synonyms: 1,2-Propylene glycol 1-monomethyl ether
 - $C_4H_{10}O_2$
 - $M = 90,12 \text{ g/mol}$
 - CAS [107-98-2]
 - EINECS-No.: 203-539-1
 - Density: $0,92 \text{ g/cm}^3$
 - Solub. in water: (20 °C): miscible
 - Melting point: -97 °C
 - Boiling point: 120 °C
 - Flash pt. 31 °C
 - Ignition temp.: 287 °C
 - Vapour pressure: (20 °C) $11,5 \text{ hPa}$
 - Refraction index: (20 °C, 589 nm) $1,4034$
 - LD 50 (oral, rat): 6000 mg/kg
 - EC-Index-No.: 603-064-00-3
 - ADR: 3 F1 III UN 3092
- IMDG: 3 III UN 3092
 - IATA/ICAO: 3 III UN 3092
 - GHS-signal word: Warning
 - GHS-H sentences: H226 - H336
 - GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P405 - P501a
 - Tariff number: 2909 49 19 90
 - Applications: synthesis of organic products, laboratory reagent.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
ME06651000	1 l	0

Methyl acetate

AC0207 Methyl acetate, synthesis grade



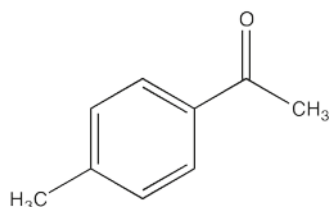
- Synonyms: Acetic acid methyl ester
 - CH_3COOCH_3
 - $M = 74,08 \text{ g/mol}$
 - CAS [79-20-9]
 - EINECS-No.: 201-185-2
 - Density: $0,93 \text{ g/cm}^3$
 - Solub. in water: (20 °C): 319 g/l
 - Melting point: -98 °C
 - Boiling point: $56 - 58 \text{ °C}$
 - Flash pt. -10 °C
 - Ignition temp.: 455 °C
 - Vapour pressure: (20 °C) 217 hPa
 - Refraction index: (n 20 °C/D) $1,3614$
 - Dielectric const.: (25 °C) $6,6$
 - LD 50 (oral, rat): 5000 mg/kg
 - EC-Index-No.: 607-021-00-X
 - ADR: 3 F1 II UN 1231
- IMDG: 3 II UN 1231
 - IATA/ICAO: 3 II UN 1231
 - GHS-signal word: Danger
 - GHS-H sentences: H225 - H319 - EUH066 - H336
 - GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
 - Tariff number: 2915 39 30 00
 - Applications: synthesis of organic products, solvents, in the textile industry.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
AC02071000	1 l	0
AC02072500	2,5 l	0

4-Methylacetophenone

ME0320 4-Methylacetophenone, synthesis grade



- Synonyms: Methyl-4-acetophenone, Methyl p-tolyl ketone
 - $C_9H_{10}O$
 - $M = 134,18 \text{ g/mol}$
 - CAS [122-00-9]
 - EINECS-No.: 204-514-8
 - Density: $1,00 \text{ g/cm}^3$
 - Solub. in water: (15 °C): $0,37 \text{ g/l}$
 - Melting point: 28 °C
 - Boiling point: 226 °C
 - Flash pt. 92 °C
 - Vapour pressure: (20 °C) $0,14 \text{ hPa}$
 - Refraction index: (n 25 °C/D) $1,5313$
- LD 50 (oral, rat): 1400 mg/kg
 - GHS-signal word: Warning
 - GHS-H sentences: H302
 - GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
 - Tariff number: 2914 39 00 90
 - Applications: synthesis of organic products.

assay (G.C.) min. 96 %

Art. No.	Volume	Container
ME03200250	250 ml	0

Methylamine, solution 40%

ME0350 Methylamine, solution 40% in water, synthesis grade



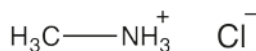
- Synonyms: Aminomethane
 - CH_3NH_2
 - $M = 31,06 \text{ g/mol}$
 - CAS [74-89-5]
 - EINECS-No.: 200-820-0
 - Density: $0,90 \text{ g/cm}^3$
 - Melting point: -38 °C
 - Boiling point: 48 °C
 - Flash pt. -15 °C
 - Ignition temp.: 425 °C
 - Vapour pressure: (25 °C) 370 hPa
 - LD 50 (oral, rat): 698 mg/kg
 - EC-Index-No.: 612-001-01-6
 - ADR: 3 FC II UN 1235
 - IMDG: 3 II UN 1235
- IATA/ICAO: 3 II UN 1235
 - GHS-signal word: Danger
 - GHS-H sentences: H224 - H318 - H335 - H315
 - GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
 - Tariff number: 2921 11 00 00
 - Applications: synthesis of organic products, cosmetics.

assay (acidimetric) approx. 40 %

Art. No.	Volume	Container
ME03501000	1 l	0
ME03502500	2,5 l	0

Methylammonium chloride

ME0355 Methylammonium chloride, synthesis grade



- Synonyms: Methylamine hydrochloride
- $\text{CH}_5\text{NH}_3\text{Cl}$
- M = 67,52 g/mol
- CAS [593-51-1]
- EINECS-No.: 209-795-0
- Solub. in water: (20 °C): soluble
- Melting point: 228 - 231 °C (sublimes)
- Boiling point: (20 hPa) 225 - 230 °C
- LD 50 (oral, rat): 1600 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302

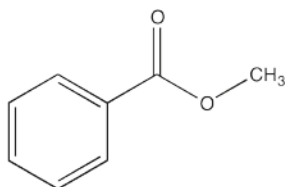
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2921 11 90 00
- Applications: laboratory reagent, synthesis of organic products.

assay (argentometric)min. 99 %

Art. No.	Volume	Container
ME03550250	250 g	⊖

Methyl benzoate

BE0210 Methyl benzoate, pure



- Synonyms: Benzoic acid methyl ester
- $\text{C}_8\text{H}_8\text{O}_2$
- M = 136,15 g/mol
- CAS [93-58-3]
- EINECS-No.: 202-259-7
- Density: 1,09 g/cm³
- Solub. in water: (30 °C): 0,157 g/l
- Melting point: -12 °C
- Boiling point: 198 - 200 °C
- Flash pt. 83 °C
- Ignition temp.: 510 °C
- Vapour pressure: (20 °C) 0,36 hPa
- Refraction index: (n 20 °C/D) 1,5168
- LD 50 (oral, rat): 1177 mg/kg

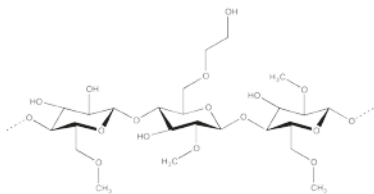
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2916 31 00 00
- Applications: microscopy, perfumery, manufacturing of synthetic resins, in the rubber industry, disinfectant, solvents.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
BE02101000	1 l	⊖

Methylcellulose

ME0390 Methylcellulose, synthesis grade

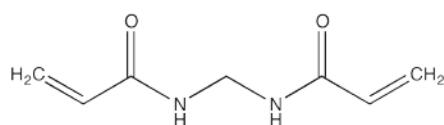


- Synonyms: Tylose
- CAS [9004-67-5]
- Solub. in water: (20 °C): soluble
- Ignition temp.: > 360 °C
- LD 50 (oral, rat): > 2000 mg/kg
- Tariff number: 3912 31 00 00
- Applications: in the paper industry, manufacture of adhesives, cosmetics, in food industry, in the pharmaceuticals industry.

assaymin. 93 %

Art. No.	Volume	Container
ME03900250	250 g	⊖
ME03901000	1 kg	⊖

N,N'-Methylene-bis-acrylamide



- Synonyms: BIS, Diacrylamidomethane, N,N'-Methylenebis(acrylamide), MBA
- $\text{C}_7\text{H}_{10}\text{N}_2\text{O}_2$
- M = 154,17 g/mol
- CAS [110-26-9]
- EINECS-No.: 203-750-9
- Solub. in water: (20 °C): slightly soluble
- Melting point: > 300 °C

- LD 50 (oral, rat): 390 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2924 19 00 20
- Applications: for electrophoresis, for biology.

BI0090 N,N'-Methylene-bis-acrylamide, molecular biology grade



assay (acidimetric, after saponification)min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
BI00900025	25 g	⊖

BI0091 N,N'-Methylene-bis-acrylamide, electrophoresis grade

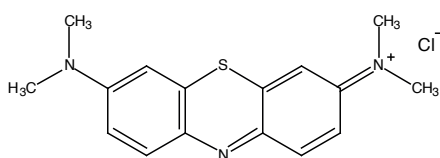


assay (acidimetric, after saponification)min. 99,5 %

Art. No.	Volume	Container
BI00910050	50 g	⊖

Methylene blue, carbol solution

AZ0206 Methylene blue, carbol solution, for microscopy

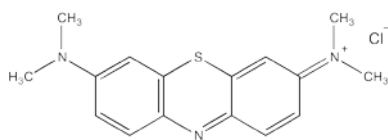


- $\text{C}_{16}\text{H}_{18}\text{ClN}_3\text{S}$
- M = 319,86 g/mol
- CAS [61-73-4]
- EINECS-No.: 200-515-2
- Density: 0,995 g/cm³
- GHS-signal word: Warning
- GHS-H sentences: H341 - H315 - H319

- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: microscopy.

Art. No.	Volume	Container
AZ02060500	500 ml	⊖
AZ02062500	2,5 l	⊖

Methylene blue, C.I. 52015

· xH₂O (x = 2 - 3)

- Synonyms: 3,7-Bis(dimethylamino)phenothiazinium chloride, Solvent blue 8, Methylthionium chloride, Tetramethylthionine chloride
- C₁₆H₁₈ClN₃S·xH₂O (x = 2 - 3)
- M = 319,86 g/mol
- CAS [7220-79-3]
- Solub. in water: (20 °C): ~ 50 g/l
- Melting point: ~ 180 °C (decomposes)

- LD 50 (oral, rat): 1180 mg/kg (anhydrous substance)
- GHS-signal word: Danger
- GHS-H sentences: H301
- GHS-P sentences: P264 - P270 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 3204 13 00 90
- Applications: analytical chemistry, indicator, for electrophoresis.

AZ0203 Methylene blue, C.I. 52015, extra pure

assay (on dried sample)min. 99 %

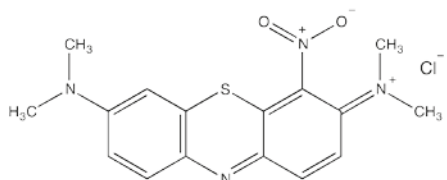
Art. No.	Volume	Container	Art. No.	Volume	Container
AZ02030025	25 g	0	AZ02030500	500 g	0
AZ02030100	100 g	0	AZ0203025P	25 kg	0
AZ02030250	250 g	0			

AZ0200 Methylene blue, C.I. 52015, for microscopy

Art. No.	Volume	Container	Art. No.	Volume	Container
AZ02000025	25 g	0	AZ02000100	100 g	0

Methylene green, C.I. 52020

VE0110 Methylene green, C.I. 52020, for microscopy



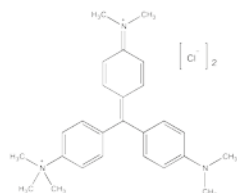
- Synonyms: Basic green 5
- C₁₆H₁₇ClN₄O₂S
- M = 364,85 g/mol
- CAS [2679-01-8]
- EINECS-No.: 220-231-2
- GHS-signal word: Warning
- GHS-H sentences: H373 - H312 - H332

- GHS-P sentences: P260 - P261 - P280 - P322 - P304 + P340 - P501a
- Tariff number: 3204 90 00 00
- Applications: microscopy

Art. No.	Volume	Container
VE01100005	5 g	0

Methyl green, C.I. 42585

VE0120 Methyl green, C.I. 42585, for microscopy

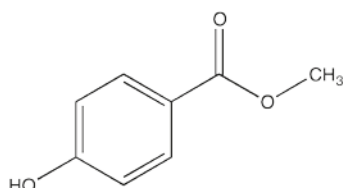


- C₂₆H₃₃Cl₂N₃
- M = 458,47 g/mol
- CAS [7114-03-6]
- EINECS-No.: 230-415-4
- Solub. in water: (20 °C): 60 g/l
- Tariff number: 3204 13 00 90
- Applications: indicator, microscopy.

Art. No.	Volume	Container
VE01200005	5 g	0
VE01200025	25 g	0

Methyl 4-hydroxybenzoate

ME0478 Methyl 4-hydroxybenzoate, extra pure, Pharmapur®, Ph Eur, BP, NF

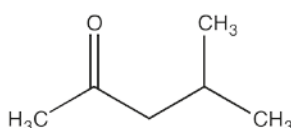


- Synonyms: Methylparaben, 4-Hydroxybenzoic acid methyl ester, PHB-Ester
- C₈H₈O₃
- M = 152,15 g/mol
- CAS [99-76-3]
- EINECS-No.: 202-785-7
- Solub. in water: (20 °C): 2,5 g/l
- Melting point: 125 - 128 °C
- Boiling point: 270 - 280 °C
- Tariff number: 2918 29 30 00
- Applications: preservative agent (in food industry), cosmetics, in pharma industry.

assay (HPLC)98 - 102 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
ME04780100	100 g	0
ME04780500	500 g	0

Methyl isobutyl ketone



- Synonyms: Isobutyl methyl ketone, 4-Methyl-2-pentanone, Isopropylacetone, Hexone, MIBK
- C₆H₁₂O
- M = 100,16 g/mol
- CAS [108-10-1]
- EINECS-No.: 203-550-1
- Density: 0,80 g/cm³
- Solub. in water: (20 °C): ~ 18 - 20 g/l
- Melting point: -84 °C
- Boiling point: 116 - 118 °C
- Flash pt. 14 °C
- Ignition temp.: 475 °C
- Vapour pressure: (20 °C) 20,2 hPa
- Dielectric const.: (20 °C) 13,1

- LD 50 (oral, rat): 2080 mg/kg
- EC-Index-No.: 606-004-00-4
- ADR: 3 F1 II UN 1245
- IMDG: 3 II UN 1245
- IATA/ICAO: 3 II UN 1245
- GHS-signal word: Danger
- GHS-H sentences: H225 - H332 - H319 - EUH066 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2914 13 00 00
- Applications: laboratory reagent, synthesis of organic products, solvents.

ME0490 Methyl isobutyl ketone, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME04901000	1 l	0	ME0490005L	5 l	0
ME04902500	2,5 l	0	ME0490025A	25 l	0

ME0493 Methyl isobutyl ketone, reagent grade, ACS

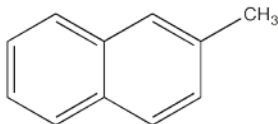


assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME04931000	1 l	0	ME04932500	2,5 l	0

2-Methylnaphthalene

ME0514 2-Methylnaphthalene, synthesis grade



- C₁₁H₁₀
- M = 142,20 g/mol
- CAS [91-57-6]
- EINECS-No.: 202-078-3
- Solub. in water: (20 °C): insoluble
- Melting point: 32 - 35 °C
- Boiling point: 242 °C
- Flash pt. 98 °C
- LD 50 (oral, rat): 1630 mg/kg
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning

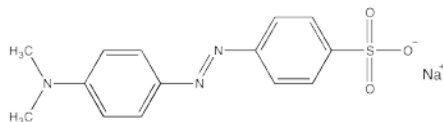
- GHS-H sentences: H302 - H411
- GHS-P sentences: P273 - P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2902 90 90 00
- Applications: synthesis of organic products, laboratory reagent.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
ME05140250	250 g	0

Methyl orange, C.I. 13025

AN0073 Methyl orange, C.I. 13025, indicator, reagent grade, ACS



- Synonyms: Helianthine, 4-Dimethylaminoazobenzene-4'-sulfonic acid sodium salt, Gold orange
- C₁₄H₁₄N₂NaO₃S
- M = 327,34 g/mol
- CAS [547-58-0]
- EINECS-No.: 208-925-3
- Solub. in water: (20 °C): ~ 5 g/l
- LD 50 (oral, rat): 60 mg/kg
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H301
- GHS-P sentences: P264 - P270 - P301 + P310 - P321 - P405 - P501a

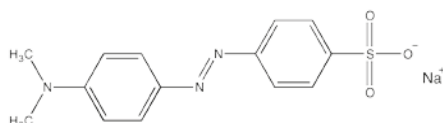
- Tariff number: 2927 00 00 90
- Applications: indicator, analytical chemistry, laboratory reagent (alkali salts), manufacture of dyes (in the textile industry).
- Appearance: Orange crystalline powder

pH range (pink to orange-yellow) 3,2 - 4,4

Art. No.	Volume	Container
AN00730050	50 g	0
AN00730100	100 g	0
AN00730500	500 g	0

Methyl orange, solution 0,04%

AN0075 Methyl orange, solution 0,04%, indicator

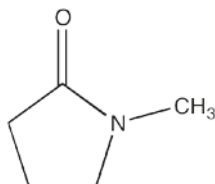


- Synonyms: Helianthine, 4-Dimethylaminoazobenzene-4'-sulfonic acid sodium salt, Gold orange
- C₁₄H₁₄N₂NaO₃S
- CAS [547-58-0]
- EINECS-No.: 208-925-3
- Density: ~ 1,0 g/cm³
- Tariff number: 2927 00 00 90
- Applications: analytical chemistry, laboratory reagent, indicator, for biology.

pH range (red-orange) 3,1 - 4,4

Art. No.	Volume	Container
AN00756100	100 ml	0
AN00750250	250 ml	0

1-Methyl-2-pyrrolidone



- Synonyms: N-Methylpyrrolidone, N-Methyl-2-pyrrolidinone, NMP
- C₅H₉NO
- M = 99,13 g/mol
- CAS [872-50-4]
- EINECS-No.: 212-828-1
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -24 °C
- Boiling point: 202 °C
- Flash pt. 91 °C
- Ignition temp.: 245 °C

- Vapour pressure: (20 °C) 0,32 hPa
- Refraction index: (n 20 °C/D) 1,4684
- Dielectric const.: (25 °C) 33
- LD 50 (oral, rat): 3598 mg/kg
- EC-Index-No.: 606-021-00-7
- GHS-signal word: Danger
- GHS-H sentences: H360D - H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2933 79 00 90
- Applications: analytical chemistry, chromatography, synthesis of organic products.

ME0494 1-Methyl-2-pyrrolidone, synthesis grade

assay (G.C.) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME04941000	1 l	0	ME0494025L	25 l	0
ME04942500	2,5 l	0	ME0494200L	200 l	0
ME0494005L	5 l	0			

ME0495 1-Methyl-2-pyrrolidone, extra pure, Phampur®, Ph Eur, BP

assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,1 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
ME04951000	1 l	0	ME04952500	2,5 l	0

ME0496 1-Methyl-2-pyrrolidone, reagent grade, ACS

assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME04961000	1 l	0	ME0496025A	25 l	0
ME04962500	2,5 l	0			

ME0503 1-Methyl-2-pyrrolidone, GC head space grade

assay (G.C.) min. 99,99 %
 water (K.F.) max. 0,03 %
 Packed under inert gas
 Suitable for residual solvents analysis

Art. No.	Volume	Container
ME05031000	1 l	0

ME0498 1-Methyl-2-pyrrolidone, 99,5%, anhydrous (max. 0,005% H₂O)

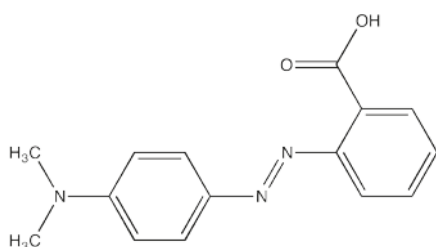
assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ME04980100	100 ml	0	ME04980500	500 ml	0

ME0590 1-Methyl-2-pyrrolidone, peptide synthesis grade

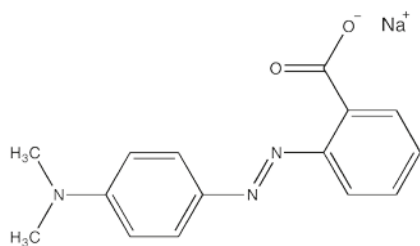
assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
ME05902500	2,5 l	0

Methyl red, C.I. 13020**RO0150 Methyl red, C.I. 13020, indicator**

- Synonyms: 2-[(4-Dimethylamino)phenylazo]benzoic acid
 - C₁₅H₁₅N₃O₂
 - M = 269,31 g/mol
 - CAS [493-52-7]
 - EINECS-No.: 207-776-1
 - Solub. in water: (20 °C): slightly soluble
 - Melting point: 178 - 182 °C
 - Tariff number: 2927 00 00 90
 - Applications: analytical chemistry, indicator.
- pH range (red-violet to brownish - yellow) . . . 4,5 - 6,2

Art. No.	Volume	Container
RO01500010	10 g	0
RO01500100	100 g	0

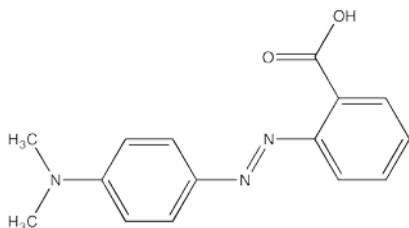
Methyl red, sodium salt, C.I. 13020**RO0155 Methyl red, sodium salt, C.I. 13020, indicator, soluble in water**

- Synonyms: 2-[(4-Dimethylamino)phenylazo]benzoic acid sodium salt
 - C₁₅H₁₄N₃NaO₂
 - M = 291,29 g/mol
 - CAS [845-10-3]
 - EINECS-No.: 212-682-9
 - Solub. in water: (20 °C): ~ 800 g/l
 - Tariff number: 2927 00 00 90
 - Applications: analytical chemistry, indicator.
- pH range (red-violet to brownish - yellow) . . . 4,5 - 6,2

Art. No.	Volume	Container
RO01550010	10 g	0
RO01550025	25 g	0
RO01550100	100 g	0
RO01551000	1 kg	0

Methyl red, solution 0,1%

RO0156 Methyl red, solution 0,1%, indicator



- Synonyms: 2-[(4-Dimethylamino)phenylazo]benzoic acid
- $C_{15}H_{15}N_3O_2$
- M = 269,31 g/mol
- CAS [493-52-7]
- EINECS-No.: 207-776-1
- Density: ---
- Flash pt. 27 °C
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993
- GHS-signal word: Warning

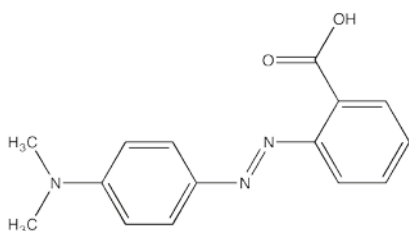
- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2927 00 00 90
- Applications: analytical chemistry, laboratory reagent, indicator, for microbiology.

pH range (red to yellow) 4,2 - 6,2

Art. No.	Volume	Container
RO01560100	100 ml	0

Methyl red, solution 2%

RE0057 Methyl red, solution 2%, for microscopy



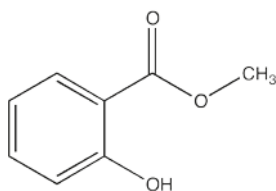
- Synonyms: 2-[(4-Dimethylamino)phenylazo]benzoic acid
- $C_{15}H_{15}N_3O_2$
- M = 269,31 g/mol
- CAS [493-52-7]
- EINECS-No.: 207-776-1
- Density: ---
- Solub. in water: (20 °C): miscible
- Flash pt. 22 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993

- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2927 00 00 90

Art. No.	Volume	Container
RE0057G100	100 ml	0
RE00571000	1 l	0

Methyl salicylate

SA0180 Methyl salicylate, extra pure, Pharmpur®, Ph Eur, NF



- Synonyms: Wintergreen oil synthetic
- $C_9H_8O_3$
- M = 152,15 g/mol
- CAS [119-36-8]
- EINECS-No.: 204-317-7
- Density: 1,18 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: -8 °C
- Boiling point: 224 °C
- Flash pt. 96 °C
- Ignition temp.: 450 °C
- Vapour pressure: (20 °C) ~ 0,13 hPa
- LD 50 (oral, rat): 887 mg/kg
- GHS-signal word: Warning

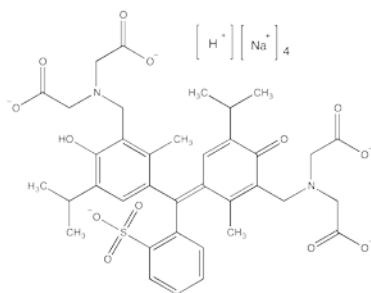
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 2918 23 10 00
- Applications: synthesis of organic products, perfumery, in food industry, in pharma industry.

assay (acidimetric) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
SA01801000	1 l	0

Methylthymol blue, tetrasodium salt

AZ0205 Methylthymol blue, tetrasodium salt, indicator

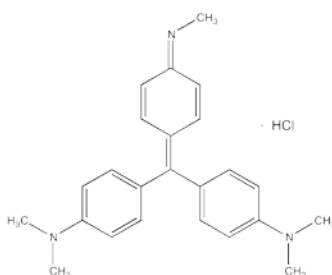


- Synonyms: MTB; 3,3'-Bis[N,N-di(carboxymethyl)aminomethyl]thymolsulfonephthalein, sodium salt
- $C_{37}H_{40}N_4O_{13}S$
- M = 844,76 g/mol
- CAS [1945-77-3]
- EINECS-No.: 217-743-3
- Solub. in water: (20 °C): ~ 460 g/l
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator, titrant in volumetric analysis (metals).

Art. No.	Volume	Container
AZ02050001	1 g	0
AZ02050005	5 g	0

Methyl violet, C.I. 42535

VI0070 Methyl violet, C.I. 42535, for microscopy



- Synonyms: Methylrosaniline
- $C_{20}H_{27}N_3 \cdot HCl$
- CAS [8004-87-3]
- EINECS-No.: 208-953-6
- Solub. in water: (25 °C): 30 g/l
- LD 50 (oral, rat): 460 - 680 mg/kg
- EC-Index-No.: 612-204-00-2
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H318 - H351 - H410 - H302

- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3204 13 00 90
- Applications: indicator, microscopy.

Art. No.	Volume	Container
VI00700025	25 g	0
VI00700100	100 g	0
VI00700250	250 g	0

Millon's reagent

RE0040 Millon's reagent



- Density: 1,358 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H300 - H310 - H330 - H314 - H373 - H410

- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a -
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry; for determination of: tyrosine, albumin, phenols.

suitability for determination of tyrosine, phenol and albuminoids passes test

Art. No.	Volume	Container
RE00400100	100 ml	0

Mixed indicator I

IN0040 Mixed indicator I, for determination of sulfurous gas (SO₂) according to Paul



- Density: ~ 0,93 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993

- GHS-signal word: Warning
- GHS-H sentences: H226
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
IN0040G100	100 ml	0

Mixture o-cresol/dichloromethane, 70:30

ME0512 Mixture o-cresol/dichloromethane, 70:30 v/v



- Density: 1,13 g/cm³
- Refraction index: (n 20 °C/D) 1,519
- LD 50 (oral, rat):
- 121 mg/kg (o-cresol)
- 1600 mg/kg (dichloromethane)
- ADR: 6.1 TC1 II UN 2927

- IMDG: 6.1 II UN 2927
- IATA/ICAO: 6.1 II UN 2927
- GHS-signal word: Danger
- GHS-H sentences: H301 - H314 - H351 - H312
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3814 00 90 90
- Applications: solvent for industrial uses.

Art. No.	Volume	Container
ME05122500	2,5 kg	0

Mixture n-hexane/tert-butyl methyl ether, 80:20

ME0605 Mixture n-hexane/tert-butyl methyl ether, 80:20 v/v, reagent grade



- Density: ~ 0,67 g/cm³
- Flash pt. -23 °C
- LD 50 (oral, rat): 28710 mg/kg
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993

- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H361f - H373 - H315 - H336 - H411
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3814 00 90 90
- Applications: solvent for industrial uses.

Art. No.	Volume	Container
ME06052500	2,5 l	0

Mixture phenol/1,2-dichlorobenzene

ME0710 Mixture phenol/1,2-dichlorobenzene, 1:1 w/w, extra pure



- Density: 1,17 g/cm³
- ADR: 6.1 TC1 II UN 2927
- IMDG: 6.1 II UN 2927
- IATA/ICAO: 6.1 II UN 2927
- GHS-signal word: Danger
- GHS-H sentences: H331 - H314 - H341 - H373 - H410 - H302 - H312 - H335

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3814 00 90 90
- Applications: in the textile industry (manufacturing of: synthetic fibers).

Art. No.	Volume	Container
ME07102500	2,5 kg	0
ME0710005P	5 kg	0

Mixture T.A.N.

ME0790 Mixture T.A.N. (toluene/isopropyl alcohol/water), according to ASTM D974



- Density: 0,81 g/cm³
- Flash pt. 9 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H361 - H373 - H315 - H319 - H336

- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3814 00 90 90
- Applications: solvent for industrial uses.

Art. No.	Volume	Container
ME07901000	1 l	0
ME07902500	2,5 l	0
ME0790025A	25 l	0
ME0790025P	25 l	0
ME0790025S	25 l	0

Molecular sieve

- Synonyms: Sodium aluminium silicate
- Solub. in water: (20 °C): insoluble

- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 3824 90 15 90

- Applications: analytical chemistry, stabilizer, complexant agent.

TA0140 Molecular sieve 3 Å, pearl-shaped, 2 - 3 mm

Art. No.	Volume	Container	Art. No.	Volume	Container
TA01400250	250 g	0	TA01401000	1 kg	0

TA0141 Molecular sieve 4 Å, pearl-shaped, 2 - 3 mm

Art. No.	Volume	Container	Art. No.	Volume	Container
TA01410250	250 g	0	TA01411000	1 kg	0

TA0142 Molecular sieve 5 Å, pearl-shaped, 2 - 3 mm

Art. No.	Volume	Container
TA01421000	1 kg	0

Molybdenum
MO0025 Molybdenum, powder, synthesis grade

- Mo
- M = 95,94 g/mol
- CAS [7439-98-7]
- EINECS-No.: 231-107-2
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 2620 °C

- Tariff number: 8102 10 00 00
- Applications: laboratory reagent, in building materials, in the electronic industry, in lubricant compositions, metal alloys, catalyst (in the petroleum industry).

assaymin. 99 %

Art. No.	Volume	Container
MO00250100	100 g	0

Molybdenum(VI) oxide
MO0050 Molybdenum(VI) oxide, extra pure

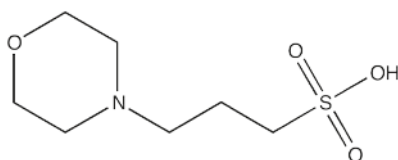

- Synonyms: Molybdic acid anhydride, Molybdenum trioxide
- MoO₃
- M = 143,94 g/mol
- CAS [1313-27-5]
- EINECS-No.: 215-204-7
- Solub. in water: (20 °C): ~ 0,5 g/l
- Melting point: 795 °C
- Boiling point: 1155 °C

- LD 50 (oral, rat): 2689 mg/kg
- EC-Index-No.: 042-001-00-9
- ADP: 6.1 T5 III UN 3288
- IMDG: 6.1 III UN 3288
- IATA/ICAO: 6.1 III UN 3288
- GHS-signal word: Warning
- GHS-H sentences: H351 - H319 - H335
- GHS-P sentences: P261 - P280 - P281 - P305 + P351 + P338 - P405 - P501a

- Tariff number: 2825 70 00 00
- Applications: analytical chemistry, laboratory reagent.
- Appearance: Yellow to green solid

assay (complexometric)min. 99 %

Art. No.	Volume	Container
MO00500250	250 g	0

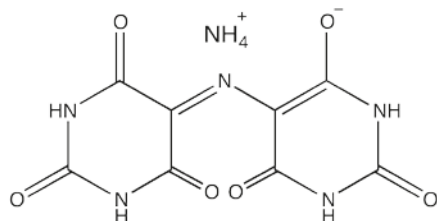
MOPS
MO0070 MOPS, molecular biology grade


- Synonyms: 3-(N-Morpholino)propanesulfonic acid
- C₇H₁₅NO₄S
- M = 209,26 g/mol
- CAS [1132-61-2]
- EINECS-No.: 214-478-5
- Solub. in water: (20 °C): 1000 g/l
- Melting point: 277 - 282 °C
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a

- Tariff number: 2934 99 90 90
- Applications: in buffer solutions (for biology), laboratory reagent.

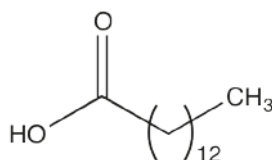
 assay (potentiometric)min. 99 %
 DNases, RNases, Proteases non detected

Art. No.	Volume	Container
MO00700100	100 g	0
MO00700500	500 g	0

Murexide
MU0020 Murexide, indicator for metal titration


- Synonyms: Ammonium purpurate, acid
- C₈H₈N₆O₆
- M = 284,19 g/mol
- CAS [3051-09-0]
- EINECS-No.: 221-266-6
- Solub. in water: (20 °C): ~ 1 g/l
- Tariff number: 2933 54 00 00
- Applications: analytical chemistry, indicator (for determination of: metals), complexant agent.

Art. No.	Volume	Container
MU00200005	5 g	0
MU00200025	25 g	0

Myristic acid


- Synonyms: Tetradecanoic acid
- C₁₄H₂₈O₂
- M = 228,38 g/mol
- CAS [544-63-8]
- EINECS-No.: 208-875-2
- Solub. in water: (20 °C): insoluble
- Melting point: 51 - 54 °C
- Boiling point: (133 hPa) 250 °C

- Vapour pressure: (20 °C) 10000 mg/kg
- Tariff number: 2915 90 80 90
- Applications: synthesis of organic products, in lubricant compositions, cosmetics, in the pharmaceuticals industry.

AC1477 Myristic acid, synthesis grade

assay (G.C.)min. 98 %

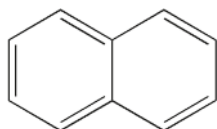
Art. No.	Volume	Container
AC14771000	1kg	0

AC1482 Myristic acid, extra pure, Reag. Ph Eur

 assay (G.C.)min. 98 %
 residue on ignitionmax. 0,05 %

Art. No.	Volume	Container
AC14820100	100 g	0

Naphthalene



- Synonyms: Naphthalin
- $C_{10}H_8$
- M = 128,16 g/mol
- CAS [91-20-3]
- EINECS-No.: 202-049-5
- Solub. in water: (20 °C): 0,3 g/l
- Melting point: 79 - 82 °C
- Boiling point: 218 °C
- Flash pt. 80 °C
- Ignition temp.: 540 °C
- Vapour pressure: (20 °C) 0,066 hPa
- LD 50 (oral, rat): > 2000 mg/kg
- EC-Index-No.: 601-052-00-2
- ADR: 4.1 F1 III UN 1334
- IMDG: 4.1 III UN 1334
- IATA/ICAO: 4.1 III UN 1334
- GHS-signal word: Warning
- GHS-H sentences: H351 - H410 - H302
- GHS-P sentences: P281 - P273 - P301 + P312 - P308 + P313 - P405 - P501a
- Tariff number: 2902 90 00 00
- Applications: synthesis of organic products, manufacture of dyes, manufacturing of synthetic resins, for pharmaceuticals synthesizing.

NA0024 Naphthalene, pellets approx. 3 - 4 mm, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
NA00240500	500 g	⊘	NA0024005P	5 kg	⊘
NA00241000	1 kg	⊘	NA0024025P	25 kg	⊘

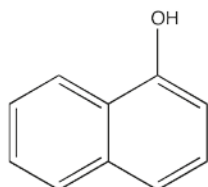
NA0026 Naphthalene, pellets approx. 3 - 4 mm, reagent grade



assay (G.C.)min. 99,5 %

Art. No.	Volume	Container
NA00261000	1 kg	⊘

1-Naphthol



- Synonyms: 1-Hydroxynaphthalene
- $C_{10}H_8O$
- M = 144,17 g/mol
- CAS [90-15-3]
- EINECS-No.: 201-969-4
- Solub. in water: (20 °C): ~ 0,1 g/l
- Melting point: 95 - 97 °C
- Boiling point: ~ 288 °C
- Flash pt. 125 °C
- Ignition temp.: 510 °C
- Vapour pressure: (94 °C) 1,3 hPa
- LD 50 (oral, rat): 275 mg/kg
- EC-Index-No.: 604-029-00-5
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H318 - H302 - H312 - H335 - H315
- GHS-P sentences: P261 - P305 + P351 + P338 - P310 - P321 - P405 - P501a
- Tariff number: 2907 15 10 00
- Applications: analytical chemistry, synthesis of organic products, manufacture of dyes and perfumery.

NA0110 1-Naphthol, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
NA01100250	250 g	⊘	NA01101000	1 kg	⊘

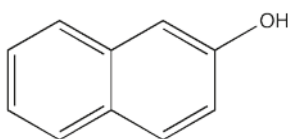
NA0112 1-Naphthol, reagent grade, Reag. Ph Eur



assay (G.C.)min. 99 %
water (K.F.)max. 0,2 %

Art. No.	Volume	Container
NA01120250	250 g	⊘

2-Naphthol



- Synonyms: 2-Hydroxynaphthalene
- $C_{10}H_8O$
- M = 144,17 g/mol
- CAS [135-19-3]
- EINECS-No.: 205-182-7
- Solub. in water: (20 °C): 1 g/l
- Melting point: 121,6 °C
- Boiling point: 285 °C
- Flash pt. 153 °C
- Vapour pressure: (30 °C) < 0,1 hPa
- LD 50 (oral, rat): 1960 mg/kg
- EC-Index-No.: 604-007-00-5
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H400 - H302 - H332
- GHS-P sentences: P261 - P273 - P301 + P312 - P304 + P340 - P312 - P501a
- Tariff number: 2907 15 90 00
- Applications: analytical chemistry, for pharmaceuticals synthesizing, manufacture of dyes, perfumery, in the rubber industry.

NA0116 2-Naphthol, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container
NA01160250	250 g	⊘

NA0117 2-Naphthol, reagent grade

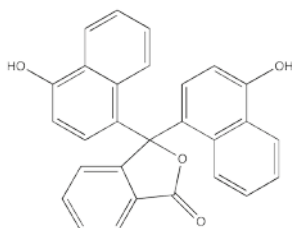


assay (G.C.)min. 99 %
water (K.F.)max. 0,2 %

Art. No.	Volume	Container
NA01170100	100 g	⊘

1-Naphtholphthalein

NA0135 1-Naphtholphthalein, indicator



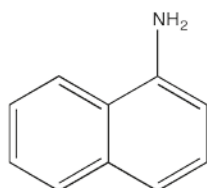
- Synonyms: 3,3-Bis(4-hydroxynaphthalenyl)-1(3H)-isobenzofuranone, p- α -Naphtholphthalein
- $C_{28}H_{18}O_4$
- M = 418,45 g/mol
- CAS [596-01-0]
- EINECS-No.: 209-875-5
- Solub. in water: (20 °C): almost insoluble
- Melting point: 253 - 255 °C
- Tariff number: 3204 19 00 90
- Applications: analytical chemistry, indicator.

pH range (colourless-reddish to blue green) 7,3 - 8,7

Art. No.	Volume	Container
NA01350001	1 g	0

1-Naphthylamine

NA0047 1-Naphthylamine, synthesis grade



- Synonyms: 1-Aminonaphthalene
- $C_{10}H_9N$
- M = 143,19 g/mol
- CAS [134-32-7]
- EINECS-No.: 205-138-7
- Solub. in water: (20 °C): 2 g/l
- Melting point: 48 - 50 °C
- Boiling point: (16 hPa) 160 °C
- Flash pt. 157 °C
- Ignition temp.: 460 °C
- Vapour pressure: (20 °C) 0,003 hPa
- LD 50 (oral, rat): 680 mg/kg
- EC-Index-No.: 612-020-00-2
- ADR: 6.1 T2 III UN 2077
- IMDG: 6.1 III UN 2077

- IATA/ICAO: 6.1 III UN 2077
- GHS-signal word: Warning
- GHS-H sentences: H302 - H411
- GHS-P sentences: P273 - P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2921 45 00 40
- Applications: synthesis of organic products, manufacture of dyes.
- Appearance: White to brown solid

assay (G.C.) min. 99 %

Art. No.	Volume	Container
NA00471000	1 kg	0

Nessler's reagent

RE0050 Nessler's reagent

- Density: 1,16 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H314 - H373 - H302 - H312 - H332 - H411

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, nitrogen determinations (ammonium).

suitability for determination of ammonia and ammonium salts passes test

Art. No.	Volume	Container
RE00500250	250 ml	0

Neutral detergent fibre reagent

RE0015 Neutral detergent fibre reagent, NDF according to Van Soest

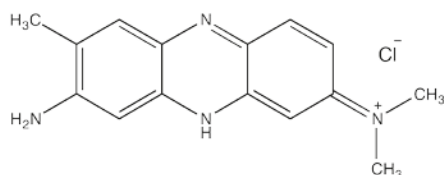
- Density: 1,016 g/cm³
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

- Applications: for neutral detergent fibre determination in animal feed.

Art. No.	Volume	Container
RE00151000	1 l	0
RE0015005P	5 l	0

Neutral red, C.I. 50040

RO0190 Neutral red, C.I. 50040, for microscopy and indicator



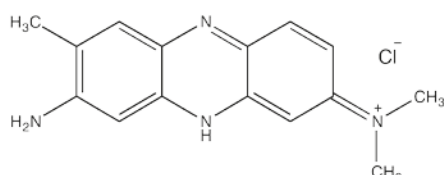
- Synonyms: Tolulene red, Basic Red 5
- $C_{15}H_{17}ClN_4$
- M = 288,78 g/mol
- CAS [553-24-2]
- EINECS-No.: 209-035-8
- Solub. in water: (25 °C): 50 g/l
- Flash pt. 44 °C
- GHS-signal word: Warning
- GHS-H sentences: H302

- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 3204 13 00 90
- Applications: indicator, microscopy.

Art. No.	Volume	Container
RO01900010	10 g	0
RO01900025	25 g	0

Neutral red, solution 0,1%, indicator

RO0191 Neutral red, solution 0,1%, indicator



- $C_{15}H_{17}ClN_4$
- M = 288,78 g/mol
- CAS [553-24-2]
- EINECS-No.: 209-035-8
- Flash pt. 44 °C
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993
- GHS-signal word: Warning
- GHS-H sentences: H226

- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 3204 13 00 90
- Applications: analytical chemistry, laboratory reagent, indicator.

pH range (red to yellow-orange) 6,8 - 8,0

Art. No.	Volume	Container
RO01910100	100 ml	0

Nickel

Nickel

NI0132 Nickel, powder, extra pure



- Ni
- M = 58,71 g/mol
- CAS [7440-02-0]
- EINECS-No.: 231-111-4
- Solub. in water: (20 °C): insoluble
- Melting point: 1453 °C
- Boiling point: 2832 °C
- LD 50 (oral, rat): > 9000 mg/kg
- EC-Index-No.: 028-002-00-7

- GHS-signal word: Danger
- GHS-H sentences: H372 - H351 - H317
- GHS-P sentences: P260 - P261 - P280 - P321 - P405 - P501a
- Tariff number: 7504 00 00 00
- Applications: metal alloys, electrolyte for batteries, in the electronic industry, catalyst (synthesis of organic products), manufacture of glass.

assay min. 99,8 %

Art. No.	Volume	Container
NI01320250	250 g	⊘
NI01321000	1 kg	⊘

Nickel(II) chloride hexahydrate

- Synonyms: Nickel dichloride hexahydrate
- NiCl₂·6H₂O
- M = 237,71 g/mol
- CAS [7791-20-0]
- EINECS-No.: 231-743-0
- Solub. in water: (20 °C): 553 g/l
- Melting point: 140 °C (release of crystalline water)

- Vapour pressure: (671 °C) 1,3 hPa (anhydrous substance)
- LD 50 (oral, rat): 105 mg/kg
- ADR: 6.1 T5 III UN 3288
- IMDG: 6.1 III UN 3288
- IATA/ICAO: 6.1 III UN 3288
- GHS-signal word: Danger

- GHS-H sentences: H301 - H410 - H317
- GHS-P sentences: P261 - P280 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2827 35 00 00
- Applications: analytical chemistry, laboratory reagent, manufacturing of inks.

NI0138 Nickel(II) chloride hexahydrate, extra pure



assay (complexometric) min. 98 %

Art. No.	Volume	Container
NI01380250	250 g	⊘
NI01381000	1 kg	⊘

Art. No.	Volume	Container
NI0138005P	5 kg	⊘

NI0139 Nickel(II) chloride hexahydrate, reagent grade



assay (complexometric) min. 98,5 %

Art. No.	Volume	Container
NI01390250	250 g	⊘
NI01391000	1 kg	⊘

Art. No.	Volume	Container
NI0139005P	5 kg	⊘

Nickel(II) nitrate hexahydrate

NI0150 Nickel(II) nitrate hexahydrate, extra pure



- Ni(NO₃)₂·6H₂O
- M = 290,81 g/mol
- CAS [13478-00-7]
- EINECS-No.: 236-068-5
- Solub. in water: (20 °C): soluble
- Melting point: 56,7 °C
- LD 50 (oral, rat): 1620 mg/kg
- ADR: 5.1 O2 III UN 2725
- IMDG: 5.1 III UN 2725

- IATA/ICAO: 5.1 III UN 2725
- GHS-signal word: Danger
- GHS-H sentences: H272 - H302 - H317
- GHS-P sentences: P221 - P210 - P220 - P261 - P321 - P501a
- Tariff number: 2834 29 20 00
- Applications: analytical chemistry, laboratory reagent, in the ceramics industry.
- Appearance: Blue-green-emerald crystals

assay (complexometric) min. 98 %

Art. No.	Volume	Container
NI01500250	250 g	⊘
NI01501000	1 kg	⊘
NI0150005P	5 kg	⊘
NI0150025P	25 kg	⊘

Nickel(II) oxide

NI0170 Nickel(II) oxide, extra pure



- NiO
- M = 74,71 g/mol
- CAS [1313-99-1]
- EINECS-No.: 215-215-7
- Solub. in water: (20 °C): 0,0011 g/l
- Melting point: 1990 °C
- LD 50 (oral, rat): 5000 mg/kg
- EC-Index-No.: 028-003-00-2

- GHS-signal word: Danger
- GHS-H sentences: H350i - H372 - H317 - H413
- GHS-P sentences: P260 - P261 - P280 - P321 - P405 - P501a
- Tariff number: 2825 40 00 00
- Applications: laboratory reagent, painting (in porcelain industry).

assay (complexometric, as Ni) min. 75 %

Art. No.	Volume	Container
NI01700250	250 g	⊘

Nickel(II) sulfate hexahydrate

- NiSO₄·6H₂O
- M = 262,86 g/mol
- CAS [10101-97-0]
- EINECS-No.: 232-104-9
- Solub. in water: (20 °C): 625 g/l
- Melting point: 53 °C
- LD 50 (oral, rat): 264 mg/kg

- EC-Index-No.: 028-009-00-5
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H334 - H351 - H410 - H302 - H317

- GHS-P sentences: P285 - P261 - P280 - P321 - P405 - P501a
- Tariff number: 2833 24 00 00
- Applications: laboratory reagent, for organometallic compounds synthesizing, manufacture of dyes and painting.

NI0179 Nickel(II) sulfate hexahydrate, extra pure



assay (complexometric) 98 - 102 %

Art. No.	Volume	Container
NI01790250	250 g	⊘

Art. No.	Volume	Container
NI01791000	1 kg	⊘

NI0180 Nickel(II) sulfate hexahydrate, reagent grade, ACS

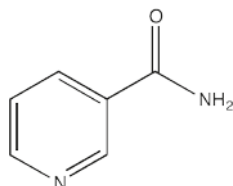


assay (complexometric) 99 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
NI01800250	250 g	Ⓟ	NI0180005P	5 kg	Ⓟ
NI01801000	1 kg	Ⓟ	NI0180025P	25 kg	Ⓟ

Nicotinamide

NI0035 Nicotinamide, extra pure



- Synonyms: Niacinamide, 3-Pyridinecarboxamide
- C₆H₆N₂O
- M = 122,13 g/mol
- CAS [98-92-0]
- EINECS-No.: 202-713-4
- Solub. in water: (20 °C): soluble
- Melting point: 128 - 131 °C (sublimes)
- Boiling point: (0,0007 hPa) 150 - 160 °C
- Flash pt. 182 °C
- Ignition temp.: 480 °C
- LD 50 (oral, rat): 3530 - 3540 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319

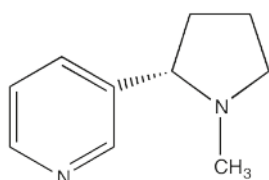
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2936 29 90 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing.

assay (titration with HClO₄, on dried sample) 99 - 101 %

Art. No.	Volume	Container
NI00350100	100 g	Ⓟ

Nicotine

NI0020 Nicotine, synthesis grade



- Synonyms: 3-(1-Methyl-2-pyrrolidinyl)pyridine
- C₁₀H₁₄N₂
- M = 162,24 g/mol
- CAS [54-11-5]
- EINECS-No.: 200-193-3
- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -79 °C
- Boiling point: 246 °C
- Flash pt. > 100 °C
- Ignition temp.: 240 °C
- Vapour pressure: (62 °C) 1,3 hPa
- LD 50 (oral, rat): 50 mg/kg
- EC-Index-No.: 614-001-00-4
- ADR: 6.1 T1 II UN 1654
- IMDG: 6.1 II UN 1654

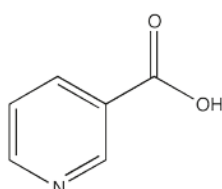
- IATA/ICAO: 6.1 II UN 1654
- GHS-signal word: Danger
- GHS-H sentences: H301 - H310 - H411
- GHS-P sentences: P301 + P310 - P310 - P361 - P321 - P405 - P501a
- Tariff number: 2939 99 00 00
- Applications: synthesis of organic products, insecticide, fumigant.
- Appearance: Colourless to yellowish liquid

assay (G.C.) min. 97 %

Art. No.	Volume	Container
NI00200100	100 ml	Ⓟ

Nicotinic acid

AC1590 Nicotinic acid, extra pure, Pharpur®, Ph Eur, BP, USP



- Synonyms: Niacin, 3-Pyridinecarboxylic acid
- C₆H₅NO₂
- M = 123,12 g/mol
- CAS [59-67-6]
- EINECS-No.: 200-441-0
- Solub. in water: (20 °C): 18 g/l
- Melting point: 236,6 °C
- Flash pt. 193 °C
- Ignition temp.: > 365 °C (dust)
- LD 50 (oral, rat): 7000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319

- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2936 29 90 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, in pharma industry.

assay (acidimetric, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC15901000	1 kg	Ⓟ

Nigrosine, water soluble, C.I. 50420

NI0062 Nigrosine, water soluble, C.I. 50420, for microscopy

- CAS [101357-32-8]
- EINECS-No.: 309-930-4
- Solub. in water: (20 °C): 10 g/l

- Tariff number: 3204 12 00 00
- Applications: indicator, microscopy.

Art. No.	Volume	Container
NI00620050	50 g	Ⓟ

Nitric acid, 69,5%

- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: 1,41 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -41 °C

- Boiling point: 122 °C
- Vapour pressure: (20 °C) 9,4 hPa
- EC-Index-No.: 007-004-00-1
- ADR: 8 CO1 II UN 2031
- IMDG: 8 II UN 2031
- IATA/ICAO: 8 II UN 2031
- GHS-signal word: Danger

- GHS-H sentences: H314 - H272
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2808 00 00 00
- Applications: oxidizing agent, synthesis of nitrates and organic nitro compounds.

AC1600 Nitric acid, min. 69,5%, reagent grade, ACS, ISO

assay (acidimetric) min. 69,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC16001000	1 l	Ø	AC16002500	2,5 l	Ø
	AC16001001	1 l	Ø	AC16002501	2,5 l	Ø

AC1607 Nitric Acid, min. 69,5%, reagent grade, ACS, ISO, max. 0,0000005% Hg

assay (acidimetric) min. 69,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC16071000	1 l	Ø	AC16072500	2,5 l	Ø

Nitric acid, 69%

- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: 1,41 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -41 °C
- Boiling point: 122 °C
- Vapour pressure: (20 °C) 9,4 hPa
- EC-Index-No.: 007-004-00-1
- ADR: 8 CO II UN 2031
- IMDG: 8 II UN 2031
- IATA/ICAO: 8 II UN 2031
- GHS-signal word: Danger
- GHS-H sentences: H314 - H272
- GHS-P sentences: P221 - P303+P361+P353 - P305+P351+P338 - P310 - P405 - P501a
- Tariff number: 2808 00 00
- Applications: oxidizing agent, synthesis of nitrates and organic nitro compounds.

AC1617 Nitric acid, 69%, Ultratrace®, ppb-trace analysis grade

assay (acidimetric) 67 - 70 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC16170500	500 ml	Ø	AC16172500	2,5 l	Ø
	AC16171000	1 l	Ø			

AC1618 Nitric acid, 69%, Ultratrace®, ppt-trace analysis grade

assay (acidimetric) 67 - 70 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC16180250	250 ml	Ø	AC16180500	500 ml	Ø

Nitric acid, 65%

- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: 1,41 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -32 °C
- Boiling point: 122 °C
- Vapour pressure: (20 °C) 9,4 hPa
- EC-Index-No.: 007-004-00-1
- ADR: 8 CO II UN 2031
- IMDG: 8 II UN 2031
- IATA/ICAO: 8 II UN 2031
- GHS-signal word: Danger
- GHS-H sentences: H314 - H272
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2808 00 00 00
- Applications: oxidizing agent, synthesis of nitrates and organic nitro compounds, in pharma industry.

AC1599 Nitric acid, solution 65% w/w, extra pure

assay (acidimetric) 64 - 66 % residue on ignition (as SO ₄) max. 0,0005 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC15991000	1 l	Ø	AC1599005P	5 l	Ø
	AC15992500	2,5 l	Ø	AC1599025P	25 l	Ø

AC1605 Nitric Acid, solution min. 65% w/w, reagent grade, ISO, max. 0,0000005% Hg

assay (acidimetric) min. 65 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC16051000	1 l	Ø	AC16052500	2,5 l	Ø

AC1601 Nitric acid, solution min. 65% w/w, Pharmpur®, ISO, Reag. Ph Eur, for determinations with dithizone

assay (acidimetric) min. 65 % suitability for det. with dithizone. passes test Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC16011000	1 l	Ø	AC16012501	2,5 l	Ø
	AC16011001	1 l	Ø	AC1601005P	5 l	Ø
	AC16012500	2,5 l	Ø	AC1601025P	25 l	Ø

Nitric acid, 60%

- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: 1,37 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -22 °C
- Boiling point: ~ 120 °C
- EC-Index-No.: 007-004-00-1
- ADR: 8 C1 II UN 2031
- IMDG: 8 II UN 2031
- IATA/ICAO: 8 II UN 2031
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2808 00 00 00
- Applications: oxidizing agent, synthesis of nitrates and organic nitro compounds.

AC1598 Nitric acid, solution 60% w/w, extra pure

assay (acidimetric) approx. 60 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC15981000	1 l	Ø	AC1598005P	5 l	Ø
	AC15982500	2,5 l	Ø	AC1598025P	25 l	Ø

AC1602 Nitric acid, solution min. 60% w/w, reagent grade, ISO



assay (acidimetric)min. 60 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC16021000	1 l	0	AC1602005P	5 l	0
AC16022500	2,5 l	0	AC1602025P	25 l	0

AC1604 Nitric acid, solution min. 60% w/w, reagent grade, ISO, max. 0,0000005% Hg



assay (acidimetric)min. 60 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC16041000	1 l	0	AC16042500	2,5 l	0

Nitric acid, volumetric solutions

AC1612 Nitric acid, solution 2 mol/l (2 N)



- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: ~ 1,07 g/cm³
- EC-Index-No.: 007-004-00-1
- ADR: 8 C1 II UN 2031

- IMDG: 8 II UN 2031
- IATA/ICAO: 8 II UN 2031
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2808 00 00 00

- Applications: analytical chemistry, titrant in volumetric analysis, oxidizing agent.

Art. No.	Volume	Container
AC16121000	1 l	0

AC1610 Nitric acid, solution 1 mol/l (1 N)



- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: 1,036 g/cm³
- Melting point: ~ -4 °C
- Boiling point: ~ 101 °C
- EC-Index-No.: 007-004-00-1

- ADR: 8 C1 II UN 2031
- IMDG: 8 II UN 2031
- IATA/ICAO: 8 II UN 2031
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2808 00 00 00

- Applications: analytical chemistry, titrant in volumetric analysis, oxidizing agent.

Art. No.	Volume	Container
AC16101000	1 l	0

AC1615 Nitric acid, solution 0,5 mol/l (0,5 N)



- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: 1,02 g/cm³
- EC-Index-No.: 007-004-00-1
- ADR: 8 C1 II UN 2031

- IMDG: 8 II UN 2031
- IATA/ICAO: 8 II UN 2031
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2808 00 00 00

- Applications: analytical chemistry, atomic absorption analysis, titrant in volumetric analysis, oxidizing agent.

Art. No.	Volume	Container
AC16151000	1 l	0

AC1611 Nitric acid, solution 0,1 mol/l (0,1 N)

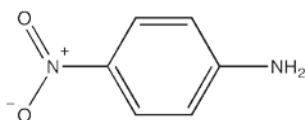
- HNO₃
- M = 63,01 g/mol
- CAS [7697-37-2]
- EINECS-No.: 231-714-2
- Density: ~ 1,002 g/cm³

- EC-Index-No.: 007-004-00-1
- Tariff number: 2808 00 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, oxidizing agent.

Art. No.	Volume	Container
AC16111000	1 l	0

4-Nitroaniline

NI0230 4-Nitroaniline, synthesis grade



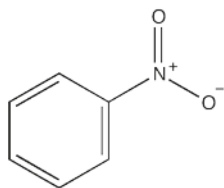
- Synonyms: p-Nitroaniline
- C₆H₆N₂O₂
- M = 138,12 g/mol
- CAS [100-01-6]
- EINECS-No.: 202-810-1
- Solub. in water: (20 °C): 0,5 g/l
- Melting point: 148 °C
- Boiling point: (133 hPa) 142 °C
- Flash pt. 199 °C
- Ignition temp.: 500 °C
- Vapour pressure: (142 °C) 1,33 hPa
- LD 50 (oral, rat): 750 mg/kg
- EC-Index-No.: 612-012-00-9 [3]
- ADR: 6.1 T2 II UN 1661
- IMDG: 6.1 II UN 1661
- IATA/ICAO: 6.1 II UN 1661

- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H373 - H412
- GHS-P sentences: P260 - P301 + P310 - P361 - P321 - P405 - P501a
- Tariff number: 2921 42 00 30
- Applications: synthesis of organic products, manufacture of dyes.
- Appearance: Yellow to ochre powder

assay (G.C.)min. 99 %

Art. No.	Volume	Container
NI02300500	500 g	0

Nitrobenzene



- Synonyms: Nitrobenzol, Essence of mirbane
- $C_6H_5NO_2$
- $M = 123,11 \text{ g/mol}$
- CAS [98-95-3]
- EINECS-No.: 202-716-0
- Density: $1,20 \text{ g/cm}^3$
- Solub. in water: (20 °C): $1,90 \text{ g/l}$
- Melting point: $6,0 \text{ °C}$
- Boiling point: 211 °C
- Flash pt. 88 °C
- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) $0,3 \text{ hPa}$
- Refraction index: (n 20 °C/D) $1,55296$
- Dielectric const.: (20 °C) $34,8$

- LD 50 (oral, rat): 640 mg/kg
- EC-Index-No.: 609-003-00-7
- ADR: 6.1 T1 II UN 1662
- IMDG: 6.1 II UN 1662
- IATA/ICAO: 6.1 II UN 1662
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H372 - H351 - H361f - H411
- GHS-P sentences: P260 - P301 + P310 - P361 - P321 - P405 - P501a
- Tariff number: 2904 20 00 90
- Applications: synthesis of organic products, cosmetics, in lubricant compositions.

NI0270 Nitrobenzene, extra pure

assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
NI02701000	1 l	0	NI02702500	2,5 l	0

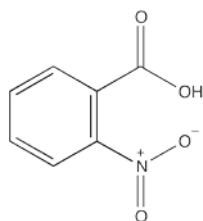
NI0273 Nitrobenzene, reagent grade, ACS, Reag. Ph Eur

assay (G.C.)min. 99,5 %

Art. No.	Volume	Container
NI02731000	1 l	0

2-Nitrobenzoic acid

AC1630 2-Nitrobenzoic acid, synthesis grade



- Synonyms: o-Nitrobenzoic acid
- $C_7H_5NO_4$
- $M = 167,12 \text{ g/mol}$
- CAS [552-16-9]
- EINECS-No.: 209-004-9
- Solub. in water: (25 °C): $3,6 \text{ g/l}$
- Melting point: $146 - 148 \text{ °C}$
- GHS-signal word: Warning
- GHS-H sentences: H373
- GHS-P sentences: P260 - P314 - P501a

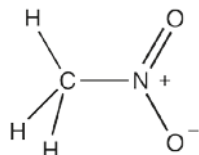
- Tariff number: 2916 39 00 90
- Applications: laboratory reagent, synthesis of organic products.
- Appearance: Off-white powder

assay (G.C.)min. 85 %

Art. No.	Volume	Container
AC16300250	250 g	0

Nitromethane

NI0370 Nitromethane, extra pure, Reag. Ph Eur



- Synonyms: Mononitromethane, Nitrocarbol
- CH_3NO_2
- $M = 61,04 \text{ g/mol}$
- CAS [75-52-5]
- EINECS-No.: 200-876-6
- Density: (25 °C) $1,14 \text{ g/cm}^3$
- Solub. in water: (20 °C): 105 g/l
- Melting point: $-28,5 \text{ °C}$
- Boiling point: $101,2 \text{ °C}$
- Flash pt. $35,6 \text{ °C}$
- Ignition temp.: 418 °C
- Vapour pressure: (20 °C) 36 hPa
- Refraction index: (n 20 °C/D) $1,3818$
- Dielectric const.: (30 °C) $3,59$
- LD 50 (oral, rat): 940 mg/kg
- EC-Index-No.: 609-036-00-7
- ADR: 3 F1 II UN 1261
- IMDG: 3 II UN 1261

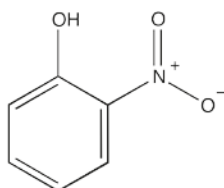
- IATA/ICAO: 3 II UN 1261
- GHS-signal word: Warning
- GHS-H sentences: H226 - H302
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2904 20 00 10
- Applications: laboratory reagent, synthesis of organic products, as fuel, solvent for active principles from plant and animal tissues extractions, in the coating industry.
- Appearance: Clear liquid

assay (G.C.)min. 98,5 %

Art. No.	Volume	Container
NI03700250	250 ml	0
NI03701000	1 l	0

o-Nitrophenol

NI0335 o-Nitrophenol, synthesis grade



- Synonyms: 2-Nitrophenol
- $C_6H_5NO_3$
- $M = 139,11 \text{ g/mol}$
- CAS [88-75-5]
- EINECS-No.: 201-857-5
- Solub. in water: (20 °C): insoluble
- Melting point: $43 - 45 \text{ °C}$
- Boiling point: $215 - 216 \text{ °C}$
- Flash pt. 102 °C
- Vapour pressure: (49 °C) 1 hPa
- LD 50 (oral, rat): 334 mg/kg
- ADR: 6.1 T2 III UN 1663
- IMDG: 6.1 III UN 1663
- IATA/ICAO: 6.1 III UN 1663

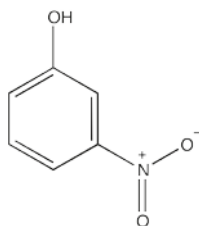
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2908 90 00 90
- Applications: laboratory reagent (glucose), synthesis of organic products, indicator.
- Appearance: Yellow solid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
NI03350250	250 g	0

m-Nitrophenol

NI0343 m-Nitrophenol, indicator 

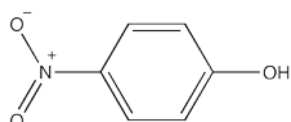


- Synonyms: 3-Nitrophenol
- $C_6H_5NO_3$
- M = 139,11 g/mol
- CAS [554-84-7]
- EINECS-No.: 209-073-5
- Solub. in water: (20 °C): insoluble
- Melting point: 94 - 95 °C
- LD 50 (oral, rat): 328 mg/kg
- ADR: 6.1 T2 III UN 1663
- IMDG: 6.1 III UN 1663
- IATA/ICAO: 6.1 III UN 1663

- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2908 90 00 90
- Applications: synthesis of organic products, indicator.



Art. No.	Volume	Container
NI03430005	5 g	0

p-Nitrophenol



- Synonyms: 4-Nitrophenol
- $C_6H_5NO_3$
- M = 139,11 g/mol
- CAS [100-02-7]
- EINECS-No.: 202-811-7
- Solub. in water: (20 °C): 11,8 g/l
- Melting point: 110 - 114 °C
- Boiling point: ~ 280 °C (decomposes)
- Flash pt. 169 °C
- Ignition temp.: ~ 495 °C
- LD 50 (oral, rat): 202 mg/kg
- EC-Index-No.: 609-015-00-2

- ADR: 6.1 T2 III UN 1663
- IMDG: 6.1 III UN 1663
- IATA/ICAO: 6.1 III UN 1663
- GHS-signal word: Warning
- GHS-H sentences: H373 - H302 - H312 - H332
- GHS-P sentences: P260 - P261 - P280 - P322 - P301 + P312 - P501a
- Tariff number: 2908 99 00 30
- Applications: analytical chemistry, laboratory reagent, indicator, synthesis of organic products.
- Appearance: Brown-yellow crystals

NI0345 p-Nitrophenol, moistened, synthesis grade  

assay (G.C.)min. 99 %

Art. No.	Volume	Container
NI03451000	1 kg	0

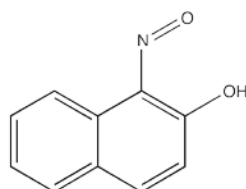
NI0348 p-Nitrophenol, indicator  

pH range (colourless to yellow)5,0 - 7,6

Art. No.	Volume	Container
NI03480100	100 g	0

1-Nitroso-2-naphthol

NI0390 1-Nitroso-2-naphthol, reagent grade



- Synonyms: Nitroso-β-naphthol
- $C_{10}H_7NO_2$
- M = 173,17 g/mol
- CAS [131-91-9]
- EINECS-No.: 205-043-0
- Solub. in water: (20 °C): 0,2 g/l
- Melting point: 107 - 109 °C
- LD 50 (oral, rat): 500 mg/kg
- Tariff number: 2908 90 00 90

- Applications: analytical chemistry and as gasoline additive.
- assay (referred to dried sample)min. 98 %

Art. No.	Volume	Container
NI03900025	25 g	0

ICP Standards

Pure confidence



- All directly traceable to the NIST
- Produced in an accredited ISO 17025 and ISO Guide 34 laboratory
- Wide range of single element standards and also multielement mixtures on demand
- The Certificate of Analysis always supplied with the product
- Tested by gravimetric, volumetric or ICP methods

A
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O'Meara's reagent

RE0060 O'Meara's reagent, for microbiology

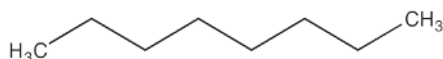


- Density:
- Solub. in water: (20 °C): miscible
- ADR: 8 C5 II UN 1814
- IMDG: 8 II UN 1814
- IATA/ICAO: 8 II UN 1814
- GHS-signal word: Danger
- GHS-H sentences: H314 - H302
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
RE0060G100	100 ml	⊘

n-Octane

OC0010 Octane, min. 80%, ASTM



- C_8H_{18}
- M = 114,23 g/mol
- CAS [111-65-9]
- EINECS-No.: 203-892-1
- Density: 0,70 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: -57 °C
- Boiling point: 125 - 126 °C
- Flash pt. 13 °C
- Ignition temp.: 210 °C
- Vapour pressure: (20 °C) 14 hPa
- Dielectric const.: (20 °C) 1,9
- EC-Index-No.: 601-009-00-8
- ADR: 3 F1 II UN 1262
- IMDG: 3 II UN 1262
- IATA/ICAO: 3 II UN 1262

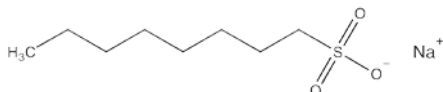
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - - H410 - H315 - H336
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: analytical chemistry, reference material, chromatography.

isooctane (G.C.)min. 80 %
n-heptane (G.C.)max. 20 %

Art. No.	Volume	Container
OC0010200L	200 l	⊞

1-Octane sulfonic acid, sodium salt, HPLC solutions

AC1700 1-Octane sulfonic acid, sodium salt, solution 0,1 mol/l, HPLC grade



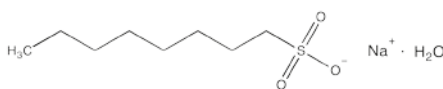
- $C_8H_{17}NaO_3S$
- M = 216,28 g/mol
- CAS [5324-84-5]
- EINECS-No.: 226-195-4
- GHS-H sentences: EUH210
- Tariff number: 2904 10 00 90
- Applications: laboratory reagent, analytical chemistry, chromatography.

factor limits.0,995 - 1,005
pH (20 °C)3,4 - 3,6
Contains acetic acid as preservative

Art. No.	Volume	Container
AC17000250	250 ml	⊘
AC17001000	1 l	⊘

1-Octane sulfonic acid, sodium salt monohydrate

AC1702 1-Octane sulfonic acid, sodium salt monohydrate, HPLC grade



- Synonyms: Sodium 1-octylsulfonate monohydrate
- $C_8H_{17}NaO_3S \cdot H_2O$
- M = 234,29 g/mol
- CAS [207596-29-0]
- Solub. in water: (20 °C): soluble
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, chromatography.

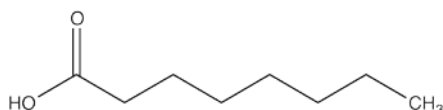
wavelength: absorbance:
210 nm:0,1 AU
220 nm:0,06 AU
230 nm:0,04 AU
260 nm:0,02 AU

assay (acidimetric)min. 99 %
max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at

Art. No.	Volume	Container
AC17020025	25 g	⊘
AC17020100	100 g	⊘

Octanoic acid

AC0670 Octanoic acid, synthesis grade



- Synonyms: Caprylic acid
- $C_8H_{16}O_2$
- M = 144,22 g/mol
- CAS [124-07-2]
- EINECS-No.: 204-677-5
- Density: 0,91 g/cm³
- Solub. in water: (20 °C): 0,68 g/l
- Melting point: 16,5 °C
- Boiling point: 237 °C
- Flash pt. 130 °C
- Ignition temp.: 440 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 10080 mg/kg
- ADR: 8 C3 III UN 3265
- IMDG: 8 III UN 3265

- IATA/ICAO: 8 III UN 3265
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 90 80 90
- Applications: synthesis of organic products, manufacture of dyes, perfumery.

assay (G.C.)min. 99 %
residue on ignitionmax. 0,1 %

Art. No.	Volume	Container
AC06701000	1 l	⊘

n-Octyl alcohol



- Synonyms: 1-Octanol
- $C_8H_{18}O$
- M = 130,23 g/mol
- CAS [111-87-5]
- EINECS-No.: 203-917-6
- Density: 0,83 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: -16 °C
- Boiling point: 188 - 198 °C
- Flash pt. ~ 82 °C
- Ignition temp.: 270 °C

- Vapour pressure: (20 °C) 0,3 hPa
- Refraction index: (n 20 °C/D) 1,4291
- LD 50 (oral, rat): > 5000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2905 16 80 00
- Applications: laboratory reagent, synthesis of organic products, perfumery.

AL0393 n-Octyl alcohol, extra pure

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AL03931000	1 l	0

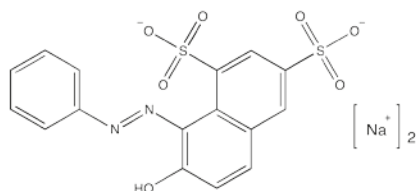
AL0395 n-Octyl alcohol, reagent grade

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
AL03951000	1 l	0

Orange G, C.I. 16230

AN0030 Orange G, C.I. 16230, for microscopy



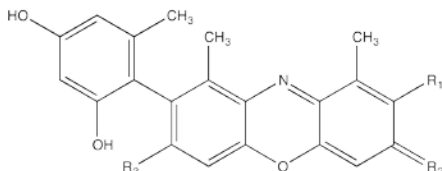
- $C_{16}H_{10}N_2Na_2O_5S_2$
- M = 452,36 g/mol
- CAS [1936-15-8]
- EINECS-No.: 217-705-6
- Solub. in water: (20 °C): ~ 70 g/l
- LD 50 (oral, rat): > 3000 mg/kg
- Tariff number: 3204 12 00 00

- Applications: analytical chemistry, indicator, microscopy.

Art. No.	Volume	Container
AN00300025	25 g	0
AN00300100	100 g	0

Orcein

OR0020 Orcein, for microscopy

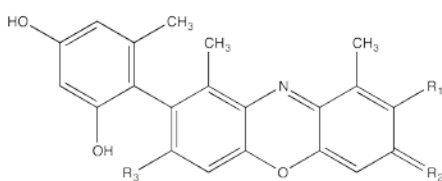


- Synonyms: Natural Red 28
- CAS [1400-62-0]
- EINECS-No.: 215-750-6
- Solub. in water: (25 °C): almost insoluble
- Tariff number: 3203 00 19 00
- Applications: microscopy, dye (for biology).

Art. No.	Volume	Container
OR00200005	5 g	0
OR00200025	25 g	0

Orcein, solution A

OR0021 Orcein, solution A, for microscopy



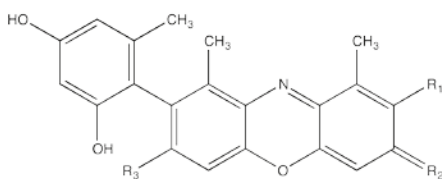
- Synonyms: Natural red 28
- CAS [1400-62-0]
- EINECS-No.: 215-750-6
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C9 II UN 1760
- IMDG: 8 II UN 1760
- IATA/ICAO: 8 II UN 1760
- GHS-signal word: Danger

- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3203 00 19 00
- Applications: microscopy (dye).

Art. No.	Volume	Container
OR00210100	100 ml	0

Orcein, solution B

OR0022 Orcein, solution B, for microscopy



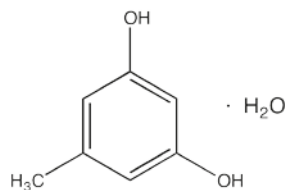
- Synonyms: Natural red 28
- CAS [1400-62-0]
- EINECS-No.: 215-750-6
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C9 II UN 1760
- IMDG: 8 II UN 1760
- IATA/ICAO: 8 II UN 1760
- GHS-signal word: Danger

- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3203 00 19 00
- Applications: microscopy (dye).

Art. No.	Volume	Container
OR00220100	100 ml	0

Orcinol monohydrate

OR0035 Orcinol monohydrate, extra pure, Reag. Ph Eur



- Synonyms: 5-Methylresorcinol, 3,5-Dihydroxytoluene monohydrate
- $C_7H_8O_2 \cdot H_2O$
- $M = 124,14$ g/mol
- CAS [6153-39-5]
- EINECS-No.: 207-984-2
- Melting point: 108-110 °C
- Boiling point: (7 hPa) 147 °C
- Flash pt. >140 °C
- LD 50 (oral, rat): 844 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302

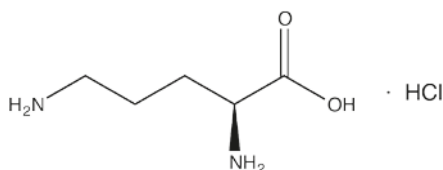
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2907 29 00 90
- Applications: laboratory reagent, analytical chemistry, for the detection of: sugars, aromatic aldehydes.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
OR00350005	5 g	0
OR00350025	25 g	0

L-Ornithine hydrochloride

OR0055 L-Ornithine hydrochloride, extra pure



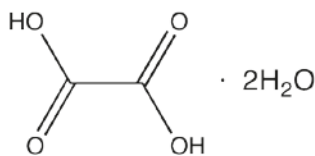
- Synonyms: L(+)-2,5-Diaminopentanoic acid hydrochloride
- $C_5H_{12}N_2O_2 \cdot HCl$
- $M = 168,62$ g/mol
- CAS [3184-13-2]
- EINECS-No.: 221-678-6
- Solub. in water: (20 °C): 100 g/l
- Melting point: 245 °C
- LD 50 (oral, rat): 10000 mg/kg

- Tariff number: 2922 49 95 90
- Applications: analytical chemistry, for pharmaceuticals synthesizing, in biochemistry.

assay (titration with $HClO_4$)min. 99 %

Art. No.	Volume	Container
OR00550025	25 g	0

Oxalic acid dihydrate



- Synonyms: Ethanedioic acid
- $H_2C_2O_4 \cdot 2H_2O$
- $M = 126,07$ g/mol
- CAS [6153-56-6]
- EINECS-No.: 205-634-3
- Solub. in water: (20 °C): 102 g/l
- Melting point: 101 °C
- LD 50 (oral, rat): 7500 mg/kg (anhydrous substance)

- EC-Index-No.: 607-006-00-8
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312
- GHS-P sentences: P280 - P322 - P301 + P312 - P312 - P363 - P501a
- Tariff number: 2917 11 00 99
- Applications: analytical chemistry, laboratory reagent, solvents, catalyst.

AC1721 Oxalic acid dihydrate, extra pure



assay (permanganometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC17210500	500 g	0	AC1721005P	5 kg	0
AC17211000	1 kg	0			

AC1720 Oxalic acid dihydrate, reagent grade, ACS, ISO, Reag. Ph Eur

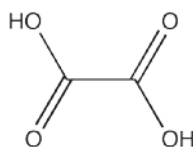


assay (permanganometric)99,5 - 102,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC17200250	250 g	0	AC17201000	1 kg	0
AC17200500	500 g	0			

Oxalic acid, volumetric solutions

AC1723 Oxalic acid, solution 0,05 mol/l (0,1 N)

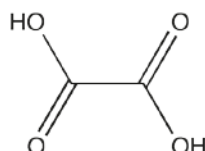


- $H_2C_2O_4$
- $M = 90,04$ g/mol
- CAS [144-62-7]
- EINECS-No.: 205-634-3
- Density: 0,99 g/cm³
- LD 50 (oral, rat): 7500 mg/kg (pure substance)
- EC-Index-No.: 607-006-00-8
- Tariff number: 2917 11 00 99

- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
AC17231000	1 l	0

AC1725 Oxalic acid, solution 0,005 mol/l (0,01 N)



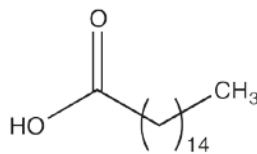
- $H_2C_2O_4$
- $M = 90,04$ g/mol
- CAS [144-62-7]
- EINECS-No.: 205-634-3
- Density: 0,99 g/cm³
- LD 50 (oral, rat): 7500 mg/kg (pure substance)
- EC-Index-No.: 607-006-00-8
- Tariff number: 2917 11 00 99

- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
AC17251000	1 l	0

Palmitic acid

AC1730 Palmitic acid, synthesis grade



- Synonyms: Hexadecanoic acid
- $C_{16}H_{32}O_2$
- M = 256,43 g/mol
- CAS [57-10-3]
- EINECS-No.: 200-312-9
- Solub. in water: (20 °C): insoluble
- Melting point: 61 - 63 °C
- Boiling point: (133 hPa) 271,5 °C
- LD 50 (oral, rat): > 10000 mg/kg
- Tariff number: 2915 70 40 00

- Applications: synthesis of organic products, in food industry, perfumery, cosmetics, emulsifier.

assay (G.C.) min. 98 %

Art. No.	Volume	Container
AC17301000	1 kg	⊘
AC1730005P	5 kg	⊞

Palladium(II) chloride

PA0025 Palladium(II) chloride, approx. 59% Pd



- Synonyms: Palladium dichloride
- PdCl₂
- M = 177,31 g/mol
- CAS [7647-10-1]
- EINECS-No.: 231-596-2
- Density: 4,0 g/cm³
- Melting point: 678 °C
- ADR: 8 C2 III UN 3260
- IMDG: 8 III UN 3260

- IATA/ICAO: 8 III UN 3260
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2843 90 90 00
- Applications: catalyst, synthesis of organic products, photography, painting.

palladium (Pd) min. 59,85 %

Art. No.	Volume	Container
PA00250001	1 g	⊘
PA00250005	5 g	⊘

Papanicolaou's solution, EA-50

SO1050 Papanicolaou's solution, EA-50



- Density: 0,83 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 17 °C
- LD 50 (oral, rat): 5628 mg/kg (methanol)
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992

- GHS-signal word: Danger
- GHS-H sentences: H225 - H331 - H370
- GHS-P sentences: P210 - P241 - P260 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 3204 19 00 90
- Applications: for cytology, vaginal smears staining for detection of vaginal, uterine or cervical cancer.

- Appearance: Clear, green with red shades liquid

Art. No.	Volume	Container
SO10500500	500 ml	⊘
SO10501000	1 l	⊘
SO10502500	2,5 l	⊘

Papanicolaou's solution, OG-6

SO1051 Papanicolaou's solution, OG-6



- Density: 0,83 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 14 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger

- GHS-H sentences: H225
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 3204 12 00 00
- Applications: for cytology, vaginal smears staining for detection of vaginal, uterine or cervical cancer.
- Appearance: Clear, orange liquid

Art. No.	Volume	Container
SO10510500	500 ml	⊘
SO10511000	1 l	⊘
SO10512500	2,5 l	⊘

Paraffin

PA0112 Paraffin, pellets, melting point 56 - 58 °C

- CAS [8002-74-2]
- EINECS-No.: 232-315-6
- Solub. in water: (20 °C): insoluble
- Melting point: 56 - 58 °C
- Boiling point: > 350 °C
- Flash pt. ~ 240 °C

- Ignition temp.: > 300 °C
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2712 20 90 00
- Applications: plasticizer, in the textile industry, in food industry, in explosive compositions, in the pharmaceuticals industry.

Art. No.	Volume	Container
PA01121000	1 kg	⊘
PA01122500	2,5 kg	⊘
PA0112005P	5 kg	⊞

Paraffin plasticized, m.p. 52 - 54 °C

PA0114 Paraffin plasticized, pellets, melting point 52 - 54 °C

- CAS [8002-74-2]
- EINECS-No.: 232-315-6
- Solub. in water: (20 °C): insoluble
- Melting point: 52 - 54 °C
- Boiling point: > 350 °C
- Flash pt. ~ 240 °C

- Ignition temp.: > 300 °C
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2712 20 90 00
- Applications: analytical chemistry, laboratory reagent, for histology, in food industry, in the pharmaceuticals industry.

Art. No.	Volume	Container
PA01141000	1 kg	⊘
PA0114005P	5 kg	⊞

Paraffin plasticized, m.p. 56 - 58 °C

PA0113 Paraffin plasticized, pellets, melting point 56 - 58 °C

- CAS [8002-74-2]
- EINECS-No.: 232-315-6
- Solub. in water: (20 °C): insoluble
- Melting point: 56 - 58 °C
- Boiling point: > 350 °C
- Flash pt. ~ 240 °C

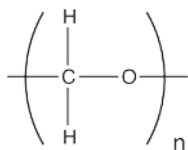
- Ignition temp.: > 300 °C
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2712 20 90 00
- Applications: analytical chemistry, laboratory reagent, for histology.

Art. No.	Volume	Container
PA01131000	1 kg	⊘
PA0113005P	5 kg	⊞



Paraformaldehyde

PA0095 Paraformaldehyde, extra pure



- Synonyms: Polyoxymethylene, Paraform
- $(\text{CH}_2\text{O})_n$
- CAS [30525-89-4]
- EINECS-No.: 200-001-8
- Solub. in water: (20 °C): slightly soluble
- Melting point: 120 - 170 °C
- Flash pt. ~ 70 °C
- Ignition temp.: 370 °C
- Vapour pressure: (20 °C) 1,5 - 2 hPa
- LD 50 (oral, rat): 592 mg/kg
- ADR: 4.1 F1 III UN 2213
- IMDG: 4.1 III UN 2213
- IATA/ICAO: 4.1 III UN 2213
- GHS-signal word: Warning
- GHS-H sentences: H228 - H351 - H302 - H332 - H315 - H319 - H317 - H335

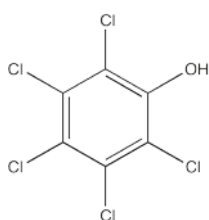
- GHS-P sentences: P210 - P241 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2912 60 00 00
- Applications: synthesis of organic products, disinfectant, cosmetics, fumigant, manufacturing of synthetic resins.
- Appearance: White powder

assay (acidimetric, after oxidation) 95 - 100,5 %

Art. No.	Volume	Container
PA00950500	500 g	⊘
PA00951000	1 kg	⊘
PA0095025P	25 kg	⊞

Pentachlorophenol

PE0050 Pentachlorophenol, synthesis grade



- Synonyms: PCP
- $\text{C}_6\text{Cl}_5\text{OH}$
- M = 266,34 g/mol
- CAS [87-86-5]
- EINECS-No.: 201-778-6
- Solub. in water: (20 °C): slightly soluble
- Melting point: 165 - 180 °C
- Boiling point: 310 °C
- LD 50 (oral, rat): 27 mg/kg
- EC-Index-No.: 604-002-00-8
- ADR: 6.1 T2 II UN 3155
- IMDG: 6.1 II UN 3155
- IATA/ICAO: 6.1 II UN 3155
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H330 - H351 - H410 - H315 - H319 - H335

- GHS-P sentences: P301 + P310 - P305 + P351 + P338 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2908 11 00 00
- Applications: insecticide, herbicide, disinfectant, antibiotic, fungicide, manufacture of adhesives, painting, in the textile industry, in building materials.
- Appearance: Brown flakes

assay (argentometric)min. 97 %

Art. No.	Volume	Container
PE00500250	250 g	⊘
PE00501000	1 kg	⊘

Pentaerythritol

PE0070 Pentaerythritol, extra pure



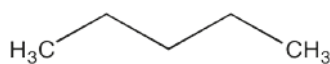
- Synonyms: 2,2-Bis(hydroxymethyl)-1,3-propanediol
- $\text{C}_5\text{H}_{12}\text{O}_4$
- M = 136,15 g/mol
- CAS [115-77-5]
- EINECS-No.: 204-104-9
- Solub. in water: (20 °C): 70 g/l
- Melting point: 256 - 258 °C
- Boiling point: (40 hPa) 276 °C
- Ignition temp.: 490 °C
- LD 50 (oral, rat): 19500 mg/kg

- Tariff number: 2905 42 00 00
- Applications: synthesis of organic products, manufacturing of synthetic resins, painting.

assay (DSC)min. 98 %

Art. No.	Volume	Container
PE00701000	1 kg	⊘

n-Pentane



- Synonyms: 1,3-Dimethylpropane, Diethyl methane
- C_5H_{12}
- M = 72,15 g/mol
- CAS [109-66-0]
- EINECS-No.: 203-692-4
- Density: 0,63 g/cm³
- Solub. in water: (25 °C): 0,04 g/l
- Melting point: -129,7 °C
- Boiling point: 36,1 °C
- Flash pt. -48 °C
- Ignition temp.: 285 °C
- Vapour pressure: (20 °C) 573 hPa
- Dielectric const.: (20 °C) 1,8

- EC-Index-No.: 601-006-00-1 [1]
- ADR: 3 F1 II UN 1265
- IMDG: 3 II UN 1265
- IATA/ICAO: 3 II UN 1265
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H336 - H411 - EUH066
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: synthesis of organic products, analytical chemistry, reference material, chromatography.

PE0092 n-Pentane, 95%, synthesis grade



assay (G.C.)min. 95 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PE00921000	1 l	⊘	PE0092005L	5 l	⊞
PE00922500	2,5 l	⊘	PE0092025L	25 l	⊞

PE0095 n-Pentane, 99%, extra pure



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PE00951000	1 l	⊘	PE0095005L	5 l	⊞
PE00952500	2,5 l	⊘	PE0095025A	25 l	⊞

PE0096 n-Pentane, 99%, reagent grade



assay (G.C.)min. 99 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PE00961000	1 l	0	PE00962500	2,5 l	0

PE0097 n-Pentane, 99%, HPLC grade



assay (G.C.)min. 99 %
residue on evaporationmax. 0,0002 %
water (K.F.)max. 0,01 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
210 nm. T(%) A (AU)
230 nm. 50 % 0,301 AU
230 nm. 90 % 0,046 AU
Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
PE00971000	1 l	0
PE00972500	2,5 l	0

PE0099 n-Pentane, 99%, for GC residue analysis



assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis

Art. No.	Volume	Container
PE00991000	1 l	0
PE00992500	2,5 l	0

PE0100 n-Pentane, 99%, GC ultra-trace analysis grade



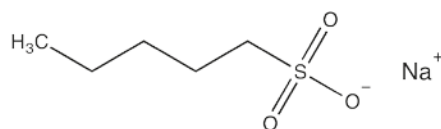
assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
PE01001000	1 l	0
PE01002500	2,5 l	0

1-Pentane sulfonic acid, sodium salt, HPLC solutions

AC1740 1-Pentane sulfonic acid, sodium salt, solution 0,1 mol/l, HPLC grade



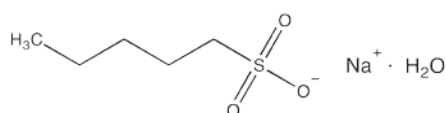
- C₅H₁₁NaO₃S
- M = 174,20 g/mol
- CAS [22767-49-3]
- EINECS-No.: 245-208-4
- Tariff number: 2904 10 00 90
- Applications: laboratory reagent, analytical chemistry, chromatography.

factor limits. 0,995 - 1,005
pH (20 °C) 3,4 - 3,6
Contains acetic acid as preservative

Art. No.	Volume	Container
AC17400250	250 ml	0

1-Pentane sulfonic acid, sodium salt monohydrate

AC1745 1-Pentane sulfonic acid, sodium salt monohydrate, HPLC grade



- Synonyms: Sodium 1-pentylsulfonate monohydrate
- C₅H₁₁NaO₃S·H₂O
- M = 192,21 g/mol
- CAS [207605-40-1]
- EINECS-No.: 245-208-4
- Solub. in water: (20 °C): freely soluble
- Applications: analytical chemistry, chromatography.
- Tariff number: 2904 10 00 90

max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:
210 nm. 0,1 AU
220 nm. 0,06 AU
230 nm. 0,04 AU
260 nm. 0,02 AU

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
AC17450025	25 g	0
AC17450100	100 g	0

Pepsin 1:3000

PE0120 Pepsin 1:3000, Pharpur®, NF



- Synonyms: Puerzym
- CAS [9001-75-6]
- EINECS-No.: 232-629-3
- Solub. in water: (20 °C): soluble
- EC-Index-No.: 647-008-00-6
- GHS-signal word: Danger
- GHS-H sentences: H334 - H335 - H315 - H319

- GHS-P sentences: P285 - P261 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3507 90 90 90
- Applications: analytical chemistry, laboratory reagent, in the pharmaceuticals industry, in food industry, in biochemistry (enzyme).

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PE01200100	100 g	0

Pepsin 1:10000

PE0125 Pepsin 1:10000, Pharpur®, NF



- Synonyms: Puerzym
- CAS [9001-75-6]
- EINECS-No.: 232-629-3
- Solub. in water: (20 °C): soluble
- EC-Index-No.: 647-008-00-6
- GHS-signal word: Danger
- GHS-H sentences: H334 - H335 - H315 - H319

- GHS-P sentences: P285 - P261 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3507 90 90 90
- Applications: analytical chemistry, laboratory reagent, in the pharmaceuticals industry, in food industry, in biochemistry (enzyme).

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PE01250100	100 g	0
PE01251000	1 kg	0

Perchloric acid, 70%

- HClO₄
- M = 100,46 g/mol
- CAS [7601-90-3]
- EINECS-No.: 231-512-4
- Density: 1,68 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -18 °C
- Boiling point: 198,7 °C
- LD 50 (oral, rat): 1100 mg/kg (anhydrous substance)
- EC-Index-No.: 017-006-00-4
- ADR: 5.1 OC1 I UN 1873
- IMDG: 5.1 I UN 1873
- IATA/ICAO: 5.1 I UN 1873
- GHS-signal word: Danger
- GHS-H sentences: H271 - H314
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2811 19 80 90
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, in explosive compositions.

AC1760 Perchloric acid, 70%, reagent grade, ACS, ISO

assay (acidimetric) 69 - 72 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	AC17601000	1 l	0	AC17602500	2,5 l	0
	AC17601001	1 l	0			

AC1761 Perchloric acid, 70%, Ultratrace®, ppb-trace analysis grade

assay (acidimetric) 65 - 71 %	Art. No.	Volume	Container
	AC17610500	500 ml	0

Perchloric acid, 60%

AC1755 Perchloric acid, solution 60% w/w, reagent grade, ACS, ISO

assay (acidimetric) 60 - 62 %	Art. No.	Volume	Container
	AC17551000	1 l	0
	AC17551001	1 l	0
	AC17552500	2,5 l	0
	AC17552501	2,5 l	0

- HClO₄
- M = 100,46 g/mol
- CAS [7601-90-3]
- EINECS-No.: 231-512-4
- Density: 1,53 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 160 °C
- LD 50 (oral, rat): 1100 mg/kg (anhydrous substance)
- EC-Index-No.: 017-006-00-4
- ADR: 5.1 OC1 I UN 1873
- IMDG: 5.1 I UN 1873
- IATA/ICAO: 5.1 I UN 1873
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2811 19 80 90
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, in explosive compositions.

Perchloric acid, 20%

AC1752 Perchloric acid, solution 20% w/w, extra pure

assay (acidimetric) approx. 20 %	Art. No.	Volume	Container
	AC17521000	1 l	0

- HClO₄
- M = 100,46 g/mol
- CAS [7601-90-3]
- EINECS-No.: 231-512-4
- Density: 1,12 g/cm³
- Solub. in water: (20 °C): miscible
- Refraction index: (n 20 °C/D) 1,347
- LD 50 (oral, rat): 1100 mg/kg (anhydrous substance)
- EC-Index-No.: 017-006-00-4
- ADR: 8 CO1 II UN 1802
- IMDG: 8 II UN 1802
- IATA/ICAO: 8 II UN 1802
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2811 19 80 90
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, in explosive compositions.

AC1753 Perchloric acid, solution 20% w/w, reagent grade

assay (acidimetric) approx. 20 %	Art. No.	Volume	Container	Art. No.	Volume	Container
residue on ignition (as SO ₄) max. 0,003 %	AC17531000	1 l	0	AC17532500	2,5 l	0

Perchloric acid, volumetric solutions

AC1765 Perchloric acid, solution in acetic acid 0,1 mol/l (0,1 N)

assay (acidimetric) approx. 20 %	Art. No.	Volume	Container
	AC17651000	1 l	0

- HClO₄
- M = 100,46 g/mol
- CAS [7601-90-3]
- EINECS-No.: 231-512-4
- Density: 1,06 g/cm³
- Flash pt. 40 °C
- Ignition temp.: ~ 485 °C
- LD 50 (oral, rat): 3310 mg/kg (solvent)
- ADR: 8 CF1 II UN 2789
- IMDG: 8 II UN 2789
- IATA/ICAO: 8 II UN 2789
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2811 19 80 90
- Applications: laboratory reagent, analytical chemistry, titrant in volumetric analysis.

Petroleum ether, boiling range 30 - 40 °C

ET0088 Petroleum ether, boiling range 30 - 40 °C, extra pure, Reag. Ph Eur



- Synonyms: Petroleum benzine, Petroleum spirit
- CAS [64742-49-0]
- EINECS-No.: 265-151-9
- Density: 0,65 g/cm³
- Solub. in water: (20 °C): non-miscible
- Boiling point: 30 - 40 °C
- Flash pt. ~ -30 °C
- Ignition temp.: ~ 250 °C
- Vapour pressure: (20 °C) ~ 350 hPa
- EC-Index-No.: 649-328-00-1

- ADR: 3 F1 I UN 1268
- IMDG: 3 I UN 1268
- IATA/ICAO: 3 I UN 1268
- GHS-signal word: Danger
- GHS-H sentences: H224 - H304 - H336 - H411 - EUH066
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2710 12 25 99
- Applications: solvents, analytical chemistry.

residue on evaporationmax. 0,001 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container
ET00881000	1 l	0
ET0088005M	5 l	0

Petroleum ether, boiling range 40 - 60 °C

- Synonyms: Petroleum benzine, Petroleum spirit
- CAS [64742-49-0]
- EINECS-No.: 265-151-9
- Density: (15 °C) 0,65 g/cm³
- Solub. in water: (20 °C): almost non-miscible
- Melting point: 5000 mg/kg

- EC-Index-No.: 649-328-00-1
- ADR: 3 F1 II UN 1268
- IMDG: 3 II UN 1268
- IATA/ICAO: 3 II UN 1268
- GHS-signal word: Danger
- GHS-H sentences: H224 - H304 - H412

- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2710 12 25 99
- Applications: solvents, analytical chemistry.
- Appearance: Clear liquid

ET0090 Petroleum ether, boiling range 40 - 60 °C, synthesis grade



boiling range. 40 - 60 °C

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00901000	1 l	0	ET0090007E	7 l	0
ET00902500	2,5 l	0	ET0090025L	25 l	0
ET0090005M	5 l	0			

ET0091 Petroleum ether, boiling range 40 - 60 °C, extra pure



residue on evaporationmax. 0,001 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00911000	1 l	0	ET0091007E	7 l	0
ET00912500	2,5 l	0	ET0091025A	25 l	0
ET0091005M	5 l	0	ET0091025S	25 l	0

ET0092 Petroleum ether, boiling range 40 - 60 °C, reagent grade, ACS, ISO



boiling range (40 - 60 °C)min. 90 % vol.
residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00921000	1 l	0	ET0092007E	7 l	0
ET00922500	2,5 l	0	ET0092025A	25 l	0
ET00924000	4 l	0	ET0092025S	25 l	0
ET0092005M	5 l	0			

ET0095 Petroleum ether, boiling range 40 - 60 °C, Multisolvant® HPLC grade ACS ISO UV-VIS



boiling range (40 - 60 °C)min. 90 % vol.
residue on evaporationmax. 0,0002 %
water (K.F.)max. 0,01 %

min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
210 nm. 10 % 1,000 AU
230 nm. 90 % 0,046 AU
250 nm. 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
ET00951000	1 l	0
ET00952500	2,5 l	0
ET00954000	4 l	0
ET0095007E	7 l	0

ET0098 Petroleum ether, boiling range 40 - 60 °C, for GC residue analysis



residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %
Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container	Art. No.	Volume	Container
ET00981000	1 l	0	ET00982500	2,5 l	0

ET0099 Petroleum ether, boiling range 40 - 60 °C, GC ultra-trace analysis grade



residue on evaporationmax. 0,0001 %
water (K.F.)max. 0,01 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
ET00991000	1 l	0
ET00992500	2,5 l	0



Petroleum ether, boiling range 50 - 70 °C

ET0096 Petroleum ether, boiling range 50 - 70 °C, extra pure, Reag. Ph Eur



- Synonyms: Petroleum benzine, Petroleum spirit
- CAS [64742-49-0]
- EINECS-No.: 265-151-9
- Density: (15 °C) 0,655 - 0,67 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 5000 mg/kg
- EC-Index-No.: 649-328-00-1
- ADR: 3 F1 II UN 1268
- IMDG: 3 II UN 1268

- IATA/ICAO: 3 II UN 1268
- GHS-signal word: Danger
- GHS-H sentences: H224 - H304 - H361 - H373 - H315 - H336 - H411
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2710 12 25 99
- Applications: solvents, analytical chemistry.

residue on evaporationmax. 0,001 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container
ET00961000	1 l	0

Petroleum ether, boiling range 60 - 80 °C

- Synonyms: Petroleum benzine, Petroleum spirit
- CAS [64742-49-0]
- EINECS-No.: 265-151-9
- Density: 0,68 g/cm³
- Solub. in water: (20 °C): non-miscible
- Boiling point: 60 - 80 °C
- Flash pt. < -20 °C

- Ignition temp.: 260 °C
- Vapour pressure: (20 °C) ~ 200 hPa
- EC-Index-No.: 649-328-00-1
- ADR: 3 F1 II UN 1268
- IMDG: 3 II UN 1268
- IATA/ICAO: 3 II UN 1268
- GHS-signal word: Danger

- GHS-H sentences: H224 - H304 - H361 - H373 - H315 - H336 - H411
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2710 12 25 99
- Applications: analytical chemistry, solvents, chromatography.

ET0100 Petroleum ether, boiling range 60 - 80 °C, extra pure



residue on evaporationmax. 0,001 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container
ET01001000	1 l	0
ET01002500	2,5 l	0

Art. No.	Volume	Container
ET0100005L	5 l	0

ET0101 Petroleum ether, boiling range 60 - 80 °C, reagent grade



residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container
ET01011000	1 l	0

Art. No.	Volume	Container
ET01012500	2,5 l	0

Petroleum ether, boiling range 65 - 95 °C

ET0105 Petroleum ether, boiling range 65 - 95 °C, extra pure



- Synonyms: Petroleum benzine, Petroleum spirit
- CAS [64742-49-0]
- EINECS-No.: 265-151-9
- Density: ~ 0,67 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 200 °C
- Vapour pressure: (38 °C) ~ 270 hPa
- EC-Index-No.: 649-328-00-1
- ADR: 3 F1 II UN 1268

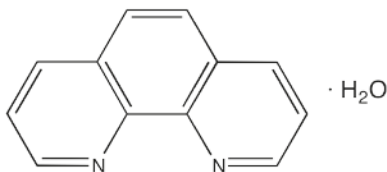
- IMDG: 3 II UN 1268
- IATA/ICAO: 3 II UN 1268
- GHS-signal word: Danger
- GHS-H sentences: H224 - H304 - H361 - H373 - H315 - H336 - H411
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2710 12 25 99
- Applications: solvents, analytical chemistry.

residue on evaporationmax. 0,001 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container
ET01051000	1 l	0
ET0105005M	5 l	0

o-Phenanthroline monohydrate

FE0100 o-Phenanthroline monohydrate, redox indicator, reagent grade, ACS



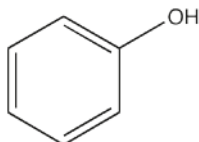
- Synonyms: 1,10-Phenanthroline monohydrate
- C₁₂H₈N₂·H₂O
- M = 198,24 g/mol
- CAS [5144-89-8]
- EINECS-No.: 200-629-2
- Solub. in water: (20 °C): ~ 3,3 g/l
- Melting point: 93 - 94 °C
- LD 50 (oral, rat): 132 mg/kg
- EC-Index-No.: 613-092-00-8
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H301 - H410

- GHS-P sentences: P273 - P264 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2933 99 90 90
- Applications: analytical chemistry, indicator, for determination of: iron.
- Appearance: Off-white crystals

assay (titration with HClO₄, on dried sample)min. 99,5 %

Art. No.	Volume	Container
FE01000005	5 g	0
FE01000025	25 g	0

Phenol



- Synonyms: Phenic acid, Hydroxybenzene, Carboic acid
- C_6H_5O
- $M = 94,11 \text{ g/mol}$
- CAS [108-95-2]
- EINECS-No.: 203-632-7
- Solub. in water: (20 °C): 84 g/l
- Melting point: 40,8 °C
- Boiling point: 181,8 °C
- Flash pt. 81 °C
- Ignition temp.: 595 °C
- Vapour pressure: (20 °C) 0,2 hPa
- LD 50 (oral, rat): 317 mg/kg
- EC-Index-No.: 604-001-00-2

- ADR: 6.1 T2 II UN 1671
- IMDG: 6.1 II UN 1671
- IATA/ICAO: 6.1 II UN 1671
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H314 - H341 - H373
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2907 11 00 00
- Applications: synthesis of organic products, disinfectant, for pharmaceuticals synthesizing, manufacture of dyes, preservative agent, analytical chemistry, laboratory reagent.

FE0480 Phenol, crystallized, extra pure, Pharmpur®, Ph Eur, BP, USP



assay (bromometric, referred to dried sample) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
FE04800500	500 g	⊘	FE0480005P	5 kg	⊞
FE04801000	1 kg	⊘	FE0480025P	25 kg	⊞

FE0482 Phenol, crystallized, reagent grade, ACS, Reag. Ph Eur



assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
FE04820250	250 g	⊘	FE04821000	1 kg	⊘
FE04820500	500 g	⊘	FE0482005P	5 kg	⊞

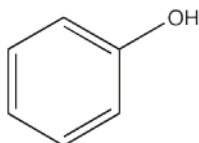
FE0484 Phenol, molecular biology grade



assay (G.C., referred to dried sample) min. 99,5 %
DNases, RNases, Proteases passes test

Art. No.	Volume	Container	Art. No.	Volume	Container
FE04840100	100 g	⊘	FE04840500	500 g	⊘

Phenol, approx. 90%



- Synonyms: Phenic acid, Hydroxybenzene, Carboic acid
- C_6H_5OH
- $M = 94,11 \text{ g/mol}$
- CAS [108-95-2]
- EINECS-No.: 203-632-7
- Density: 1,06 g/cm³
- Boiling point: 180-182 °C
- Flash pt. 79 °C
- Ignition temp.: 605 °C
- Vapour pressure: (20 °C) 0,2 hPa
- LD 50 (oral, rat): 317 mg/kg (pure substance)
- EC-Index-No.: 604-001-00-2

- ADR: 6.1 T1 II UN 2821
- IMDG: 6.1 II UN 2821
- IATA/ICAO: 6.1 II UN 2821
- GHS-signal word: Danger
- GHS-H sentences: H311 - H331 - H314 - H341 - H373 - H302
- GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2907 11 00 00
- Applications: synthesis of organic products, disinfectant, for pharmaceuticals synthesizing, manufacture of dyes, preservative agent, analytical chemistry, laboratory reagent.

FE0478 Phenol, approx. 90%, aqueous solution, extra pure, Pharmpur®, USP



assay (G.C.) min. 89 %

Art. No.	Volume	Container	Art. No.	Volume	Container
FE04781000	1 l	⊘	FE0478005P	5 l	⊞

FE0479 Phenol, approx. 90%, aqueous solution

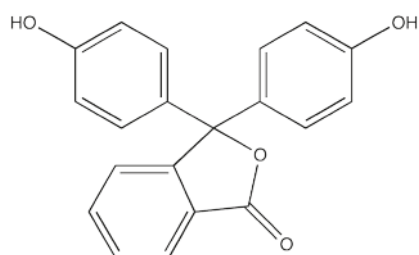


assay (G.C.) 89 - 92 %

Art. No.	Volume	Container	Art. No.	Volume	Container
FE04791000	1 l	⊘	FE0479005P	5 l	⊞

Phenolphthalein

FE0495 Phenolphthalein, indicator, ACS



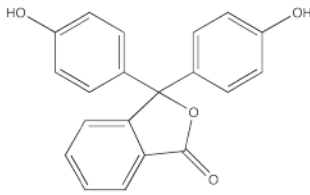
- Synonyms: 3,3-Bis(p-hydroxyphenyl)phthalide
- $C_{20}H_{14}O_4$
 - $M = 318,33 \text{ g/mol}$
 - CAS [77-09-8]
 - EINECS-No.: 201-004-7
 - Solub. in water: (20 °C): insoluble
 - Melting point: 261 - 263 °C
 - GHS-signal word: Danger
 - GHS-H sentences: H350 - H341 - H361f
 - GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
 - Tariff number: 2932 20 10 00
 - Applications: analytical chemistry, laboratory reagent, indicator, in the pharmaceuticals industry (laxative).

pH range (colourless to violet-red) 8 - 10

Art. No.	Volume	Container
FE04950025	25 g	⊘
FE04950100	100 g	⊘
FE04950250	250 g	⊘
FE04950500	500 g	⊘
FE0495005P	5 kg	⊞
FE0495025P	25 kg	⊞

Phenolphthalein, ethanolic solutions

FE0496 Phenolphthalein, solution 1% in ethanol, indicator



$C_{20}H_{14}O_4$
 • M = 318,33 g/mol
 • CAS [77-09-8]

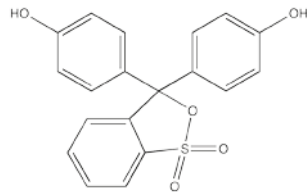
- EINECS-No.: 201-004-7
- Density: 0,81 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 23 °C
- Ignition temp.: ~ 425 °C
- LD 50 (oral, rat): 6200 mg/kg (ethanol)
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H350 - H341 - H226
- GHS-P sentences: P210 - P241 - P280 - P303 + P361 + P353 - P405 - P501a

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, laboratory reagent, indicator.
- pH range (colourless to violet-red) 8,2 - 9,8

Art. No.	Volume	Container
FE0496G100	100 ml	♻️
FE0496O250	250 ml	♻️
FE0496I000	1 l	♻️

Phenol red

R00130 Phenol red, indicator, ACS



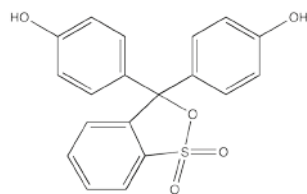
- Synonyms: Phenolsulfonphthalein, PR
- $C_{19}H_{14}O_5S$
- M = 354,38 g/mol
- CAS [143-74-8]
- EINECS-No.: 205-609-7
- Solub. in water: (20 °C): almost insoluble
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator.

pH range (yellow-red) 6,8 - 8,2

Art. No.	Volume	Container
R001300005	5 g	♻️
R001300010	10 g	♻️
R001300025	25 g	♻️
R001301000	1 kg	♻️

Phenol red, solution 0,02%

R00131 Phenol red, solution 0,02%, indicator



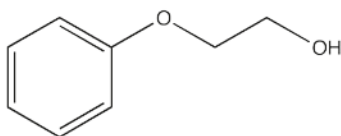
- Synonyms: Phenolsulfonphthalein, PR
- $C_{19}H_{14}O_5S$
- M = 354,38 g/mol
- CAS [143-74-8]
- EINECS-No.: 205-609-7
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, laboratory reagent, indicator.

pH range (brown-orange to yellow) 1,2 - 3,0
 pH range (brown-yellow to red-violet) 6,5 - 8,0

Art. No.	Volume	Container
R001310100	100 ml	♻️

2-Phenoxyethanol

FE0525 2-Phenoxyethanol, synthesis grade



- Synonyms: Ethylene glycol monophenyl ether, Phenylcellosolve, Monophenyl glycol, Phenyl glycol
- $C_8H_{10}O_2$
- M = 138,17 g/mol
- CAS [122-99-6]
- EINECS-No.: 204-589-7
- Density: 1,11 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 11 - 13 °C
- Boiling point: 244 - 246 °C
- Flash pt. 121 °C
- Ignition temp.: 535 °C
- Vapour pressure: (20 °C) 0,04 hPa
- Refraction index: (n 20 °C) 1,537
- LD 50 (oral, rat): > 2000 mg/kg
- EC-Index-No.: 603-098-00-9

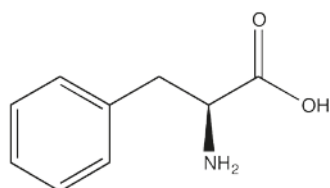
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 2909 49 90 90
- Applications: synthesis of organic products, perfumery.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
FE0525I000	1 l	♻️
FE0525Z500	2,5 l	♻️
FE0525O25P	25 l	♻️

L-Phenylalanine

FE0180 L-Phenylalanine, extra pure, Pharmapur®, Ph Eur, BP, USP



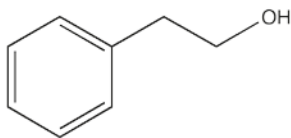
- Synonyms: α -Amino- β -phenyl propionic acid
- $C_9H_{11}NO_2$
- M = 165,19 g/mol
- CAS [63-91-2]
- EINECS-No.: 200-568-1
- Solub. in water: (20 °C): 27 g/l
- Melting point: 275 - 283 °C (decomposes)
- Tariff number: 2922 49 95 90
- Applications: in biochemistry, cosmetics, for pharmaceuticals synthesizing, for pharmaceuticals synthesizing, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 98,5 - 101 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
FE0180O025	25 g	♻️
FE0180I100	100 g	♻️

2-Phenylethanol

AL0245 2-Phenylethanol, synthesis grade



- Synonyms: Phenethyl alcohol, Benzylcarbinol
- C₈H₁₀O
- M = 122,17 g/mol
- CAS [60-12-8]
- EINECS-No.: 200-456-2
- Density: 1,02 g/cm³
- Solub. in water: (20 °C): slightly miscible
- Melting point: -27 °C
- Boiling point: 218 - 220 °C
- Flash pt. > 100 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20 °C) 0,08 hPa
- Refraction index: (n 20°C/D) 1,531
- LD 50 (oral, rat): 2230 mg/kg
- ADR: 6.1 T1 III UN 2810
- IMDG: 6.1 III UN 2810

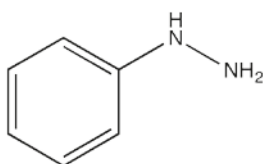
- IATA/ICAO: 6.1 III UN 2810
- GHS-signal word: Danger
- GHS-H sentences: H311 - H302 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P361 - P322 - P405 - P501a
- Tariff number: 2906 29 00 90
- Applications: for pharmaceuticals synthesizing and perfumery.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AL02450250	250 ml	0
AL02451000	1 l	0
AL0245005P	5 l	0

Phenylhydrazine

FE0315 Phenylhydrazine, extra pure



- Synonyms: Hydrazinobenzene
- C₆H₇N₂
- M = 108,14 g/mol
- CAS [100-63-0]
- EINECS-No.: 202-873-5
- Solub. in water: (25 °C): 145 g/l
- Melting point: 19,6 °C
- Boiling point: 244 °C
- Flash pt. 86 °C
- Ignition temp.: 195 °C
- Vapour pressure: (20 °C) 0,1 hPa
- LD 50 (oral, rat): 188 mg/kg
- EC-Index-No.: 612-023-00-9
- ADR: 6.1 T1 II UN 2572
- IMDG: 6.1 II UN 2572
- IATA/ICAO: 6.1 II UN 2572

- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H350 - H372 - H341 - H400 - H315 - H319 - H317
- GHS-P sentences: P260 - P301 + P310 - P305 + P351 + P338 - P361 - P405 - P501a
- Tariff number: 2928 00 90 90
- Applications: analytical chemistry, laboratory reagent (sugars, aldehydes, ketones), manufacture of dyes, stabilizer (Explosive).
- Appearance: Reddish-brown liquid

assay (titration with HClO₄)min. 95 %

Art. No.	Volume	Container
FE03150100	100 ml	0

ortho-Phosphoric acid, 85%

- Synonyms: Orthophosphoric acid
- H₃PO₄
- M = 98,00 g/mol
- CAS [7664-38-2]
- EINECS-No.: 231-633-2
- Density: 1,71 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ 21 °C

- Boiling point: ~ 158 °C
- Vapour pressure: (25 °C) 2,2 hPa
- LD 50 (oral, rat): 1530 mg/kg (anhydrous substance)
- EC-Index-No.: 015-011-00-6
- ADR: 8 C1 III UN 1805
- IMDG: 8 III UN 1805
- IATA/ICAO: 8 III UN 1805
- GHS-signal word: Danger

- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2809 20 00 00
- Applications: analytical chemistry, laboratory reagent, in fertilizer compositions, solvents (for pharmaceuticals synthesizing), antioxidant (in food industry).

AC1098 ortho-Phosphoric acid, 85%, extra pure, Phampur®, Ph Eur, BP, NF

assay (acidimetric)85 - 88 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC10981000	1 l	0	AC1098005P	5 l	0
AC10982500	2,5 l	0	AC1098025P	25 l	0

AC1100 ortho-Phosphoric acid, 85%, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric)min. 85 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC11001000	1 l	0	AC1100005P	5 l	0
AC11002500	2,5 l	0	AC1100025P	25 l	0

ortho-Phosphoric acid, solution 50%

AC1096 ortho-Phosphoric acid, solution 50%, reagent grade

- Synonyms: Orthophosphoric acid
- H₃PO₄
- M = 98,00 g/mol
- CAS [7664-38-2]
- EINECS-No.: 231-633-2
- Density: 1,33 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 1530 mg/kg (anhydrous substance)
- EC-Index-No.: 015-011-00-6
- ADR: 8 C1 III UN 1805

- IMDG: 8 III UN 1805
- IATA/ICAO: 8 III UN 1805
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2809 20 00 00
- Applications: analytical chemistry, laboratory reagent, in fertilizer compositions, solvents (for pharmaceuticals synthesizing), antioxidant (in food industry).

assay (acidimetric)approx. 50 %

Art. No.	Volume	Container
AC10961000	1 l	0
AC1096005P	5 l	0

Phosph

ortho-Phosphoric acid, volumetric solutions

AC1106 ortho-Phosphoric acid, solution 1 mol/l

- H_3PO_4
- M = 98,00 g/mol
- CAS [7664-38-2]
- EINECS-No.: 231-633-2
- Density: 1,04 g/cm³
- LD 50 (oral, rat): 1530 mg/kg (anhydrous substance)
- EC-Index-No.: 015-011-00-6
- GHS-H sentences: EUH210
- Tariff number: 2809 20 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC11061000	1 l	⊘

AC1105 ortho-Phosphoric acid, solution 0,1 mol/l

- H_3PO_4
- M = 98,00 g/mol
- CAS [7664-38-2]
- EINECS-No.: 231-633-2
- Density: 1,00 g/cm³
- LD 50 (oral, rat): 1530 mg/kg (anhydrous substance)
- EC-Index-No.: 015-011-00-6
- Tariff number: 2809 20 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC11051000	1 l	⊘

di-Phosphorus pentoxide

- Synonyms: Phosphoric anhydride
- P_2O_5
- M = 141,96 g/mol
- CAS [1314-56-3]
- EINECS-No.: 215-236-1
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: ~ 580 - 585 °C
- Boiling point: 591 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- EC-Index-No.: 015-010-00-0
- ADR: 8 C2 II UN 1807
- IMDG: 8 II UN 1807
- IATA/ICAO: 8 II UN 1807
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2809 10 00 00
- Applications: analytical chemistry, synthesis of organic products, manufacture of dyes, desiccant.

AN0215 di-Phosphorus pentoxide, synthesis grade

assay (acidimetric)min. 97 %

Art. No.	Volume	Container
AN02151000	1 kg	⊘

AN0217 di-Phosphorus pentoxide, reagent grade, ACS, ISO

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AN02170500	500 g	⊘
AN02171000	1 kg	⊘

Art. No.	Volume	Container
AN0217025P	25 kg	⊘

Phosphorus red

F00030 Phosphorus red, extra pure

- P
- M = 30,97 g/mol
- CAS [7723-14-0]
- EINECS-No.: 231-768-7
- Solub. in water: (20 °C): insoluble
- Ignition temp.: 300 °C
- EC-Index-No.: 015-002-00-7
- ADR: 4.1 F3 III UN 1338
- IMDG: 4.1 III UN 1338
- IATA/ICAO: 4.1 III UN 1338
- GHS-signal word: Danger
- GHS-H sentences: H228 - H412
- GHS-P sentences: P210 - P241 - P280 - P240 - P273 - P501a
- Tariff number: 2804 70 00 00
- Applications: synthesis of organic products, inorganic salts, in pyrotechnics, in fertilizer compositions.

assaymin. 97 %

Art. No.	Volume	Container
F000300250	250 g	⊘
F000301000	1 kg	⊘

Phosphotungstic acid hydrate

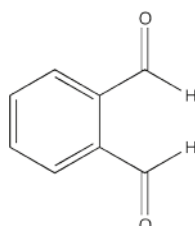
AC1130 Phosphotungstic acid hydrate, reagent grade

- Synonyms: Tungstophosphoric acid hydrate
- $H_3[P(W_3O_{10})_4] \cdot xH_2O$
- M = 2880,17 g/mol
- CAS [12501-23-4]
- EINECS-No.: 215-682-7
- Solub. in water: (20 °C): soluble
- Melting point: 107 °C
- ADR: 8 C2 III UN 3260
- IMDG: 8 III UN 3260
- IATA/ICAO: 8 III UN 3260
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2811 19 80 90
- Applications: analytical chemistry, reagent for organic compounds detection.

Art. No.	Volume	Container
AC11300025	25 g	⊘
AC11300100	100 g	⊘

Phthaldialdehyde

AL0580 Phthaldialdehyde, for aminoacid analysis

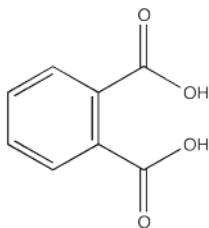


- Synonyms: OPA
- $C_8H_6O_2$
- M = 134,14 g/mol
- CAS [643-79-8]
- EINECS-No.: 211-402-2
- Solub. in water: (25 °C): soluble
- Melting point: 53 - 55 °C
- Flash pt. > 110 °C
- ADR: 6.1 TC2 II UN 2928
- IMDG: 6.1 II UN 2928
- IATA/ICAO: 6.1 II UN 2928
- GHS-signal word: Danger
- GHS-H sentences: H301 - H314 - H400 - H317
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2912 29 00 90
- Applications: analytical chemistry, fluorescent indicator.

Art. No.	Volume	Container
AL05800005	5 g	⊘

ortho-Phthalic acid

AC1140 ortho-Phthalic acid, reagent grade



- Synonyms: Phthalic acid, Orthophthalic acid, 1,2-Benzenedicarboxylic acid
- $C_8H_6O_4$
- M = 166,13 g/mol
- CAS [88-99-3]
- EINECS-No.: 201-873-2
- Solub. in water: (20 °C): 5,74 g/l
- Melting point: 206 - 208 °C
- LD 50 (oral, rat): 7900 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

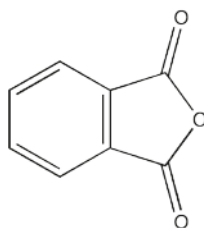
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2917 39 80 80
- Applications: analytical chemistry, laboratory reagent, solvents, perfumery.

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AC11400250	250 g	⊘

Phthalic anhydride

AN0230 Phthalic anhydride, synthesis grade



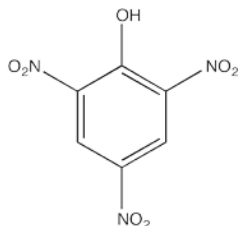
- Synonyms: 1,2-Benzenedicarboxylic acid anhydride
- $C_8H_4O_3$
- M = 148,12 g/mol
- CAS [85-44-9]
- EINECS-No.: 201-607-5
- Solub. in water: (20 °C): 6 g/l
- Melting point: 129-132 °C
- Boiling point: 285 °C
- Flash pt. 151 °C
- Ignition temp.: 580 °C
- Vapour pressure: (20 °C) < 0,01 hPa
- LD 50 (oral, rat): 1530 mg/kg
- EC-Index-No.: 607-009-00-4
- ADR: 8 C4 III UN 2214
- IMDG: 8 III UN 2214
- IATA/ICAO: 8 III UN 2214

- GHS-signal word: Danger
- GHS-H sentences: H334 - H318 - H302 - H335 - H315 - H317
- GHS-P sentences: P285 - P305 + P351 + P338 - P310 - P321 - P405 - P501a
- Tariff number: 2917 35 00 00
- Applications: synthesis of organic products, manufacturing of synthetic resins.

assay (acidimetric) min. 99 %

Art. No.	Volume	Container
AN02300500	500 g	⊘
AN02301000	1 kg	⊘

Picric acid



- Synonyms: 2,4,6-Trinitrophenol
- $C_6H_3N_3O_7$
- M = 229,11 g/mol
- CAS [88-89-1]
- EINECS-No.: 201-865-9
- Solub. in water: (20 °C): slightly soluble
- Melting point: 121,4 °C
- Flash pt. 150 °C
- Ignition temp.: 300 °C
- LD 50 (oral, rat): 200 mg/kg
- EC-Index-No.: 609-009-00-X

- ADR: 4.1 D I UN 1344
- IMDG: 4.1 I UN 1344
- IATA/ICAO: 4.1 I UN 1344
- GHS-signal word: Danger
- GHS-H sentences: H201 - H301 - H311 - H331
- GHS-P sentences: P301 + P310 - P361 - P373 - P401a - P405 - P501a
- Tariff number: 2908 99 00 90
- Applications: analytical chemistry, laboratory reagent, chromatography.

AC1769 Picric acid, extra pure (with approx. 30% H₂O)



assay (acidimetric, on dried sample) min. 98 %

Art. No.	Volume	Container
AC17690250	250 g	⊘

Art. No.	Volume	Container
AC17690500	500 g	⊘

AC1770 Picric acid, reagent grade (with approx. 30% H₂O), ACS, Reag. Ph Eur



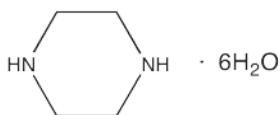
assay (acidimetric, on dried sample) min. 99 %

Art. No.	Volume	Container
AC17700250	250 g	⊘

Art. No.	Volume	Container
AC17700500	500 g	⊘

Piperazine hexahydrate

PI0050 Piperazine hexahydrate, extra pure, Pharmpur®, Ph Eur, BP



- Synonyms: Diethylenediamine
- $C_4H_{10}N_2 \cdot 6H_2O$
- M = 194,23 g/mol
- CAS [142-63-2]
- EINECS-No.: 203-808-3
- Solub. in water: (20 °C): > 500 g/l
- Melting point: 43 - 45 °C
- Boiling point: ~ 105 °C
- Flash pt. > 80 °C
- Ignition temp.: > 150 °C
- Vapour pressure: (20 °C) 2,6 hPa
- EC-Index-No.: 612-057-00-4
- ADR: 8 C8 III UN 2579
- IMDG: 8 III UN 2579
- IATA/ICAO: 8 III UN 2579
- GHS-signal word: Danger

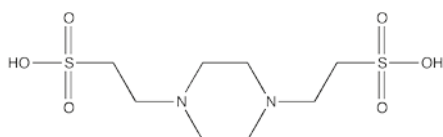
- GHS-H sentences: H334 - H314 - H317 - H412
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2933 59 95 90
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, in the pharmaceuticals industry, in pharma industry.

assay (titration with HClO₄) 98 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PI00500500	500 g	⊘

PIPES free acid

PI0061 PIPES free acid, molecular biology grade



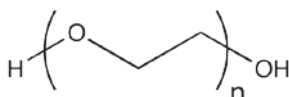
- Synonyms: Piperazine-N,N'-bis(2-ethanesulfonic acid)
- $C_8H_{18}N_2O_6S_2$
- $M = 302,36$ g/mol
- CAS [5625-37-6]
- EINECS-No.: 227-057-6
- Solub. in water: (20 °C): slightly soluble
- Tariff number: 2933 59 95 90
- Applications: laboratory reagent, in buffer solutions, in biochemistry.

assay (acidimetric) min. 99 %
 DNases, RNases, Proteases non detected

Art. No.	Volume	Container
PI00610025	25 g	⊘

Polyethylene glycol 200

P00025 Polyethylene glycol 200, synthesis grade



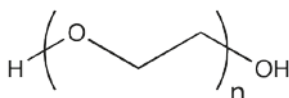
- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $HO(C_2H_4O)_nH$
- $M = 190 - 210$ g/mol
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Density: 1,124 g/cm³
- Solub. in water: (20 °C): freely miscible
- Melting point: -55 - -40 °C
- Boiling point: > 250 °C
- Flash pt. 180 °C

- Ignition temp.: 350 °C
- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 28000 mg/kg
- Tariff number: 3404 20 00 00
- Applications: synthesis of organic products, in food industry, cosmetics.

Art. No.	Volume	Container
P000251000	1 l	⊘

Polyethylene glycol 300

P00030 Polyethylene glycol 300, synthesis grade



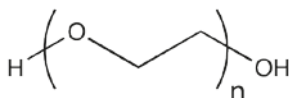
- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $HO(C_2H_4O)_nH$
- $M = 300$ g/mol
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): freely miscible
- Melting point: -15 - -10 °C
- Flash pt. 220 °C
- Ignition temp.: 370 °C

- Vapour pressure: (20 °C) 15000 mg/kg
- Tariff number: 3404 20 00 00
- Applications: synthesis of organic products, in food industry, cosmetics.

Art. No.	Volume	Container
P000301000	1 l	⊘
P00030005P	5 l	⊘
P00030025P	25 l	⊘

Polyethylene glycol 400

P00035 Polyethylene glycol 400, synthesis grade



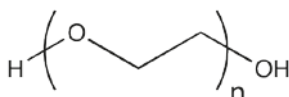
- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $HO(C_2H_4O)_nH$
- $M = 380 - 420$ g/mol
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 4 - 8 °C
- Boiling point: > 250 °C
- Flash pt. 240 °C
- Ignition temp.: ~ 370 °C

- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 30200 mg/kg
- Tariff number: 3404 20 00 00
- Applications: analytical chemistry, chromatography, synthesis of organic products, in food industry, cosmetics.

Art. No.	Volume	Container
P000351000	1 l	⊘
P00035005P	5 l	⊘
P00035025P	25 l	⊘

Polyethylene glycol 600

P00045 Polyethylene glycol 600, synthesis grade



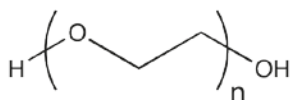
- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $HO(C_2H_4O)_nH$
- $M = 600$ g/mol
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 17 - 22 °C
- Flash pt. 270 °C

- Ignition temp.: 380 °C
- Vapour pressure: (20 °C) 15000 mg/kg
- Tariff number: 3404 20 00 00
- Applications: synthesis of organic products, in food industry, cosmetics.

Art. No.	Volume	Container
P000451000	1 l	⊘
P00045005P	5 l	⊘

Polyethylene glycol 1500

PO0050 Polyethylene glycol 1500, synthesis grade



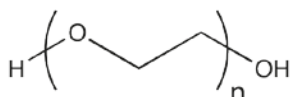
- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $\text{HO}(\text{C}_2\text{H}_4\text{O})_n\text{H}$
- $M = 1400 - 1600 \text{ g/mol}$
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Solub. in water: (20 °C): ~ 700 g/l
- Melting point: 42 - 48 °C
- Flash pt. 260 °C
- Ignition temp.: 420 °C

- Vapour pressure: (20 °C) < 0,01 hPa
- LD 50 (oral, rat): 44200 mg/kg
- Tariff number: 3404 20 00 00
- Applications: synthesis of organic products, in food industry, cosmetics.

Art. No.	Volume	Container
P000501000	1 kg	⊖
P00050025P	25 kg	⊖

Polyethylene glycol 4000

PO0060 Polyethylene glycol 4000, synthesis grade



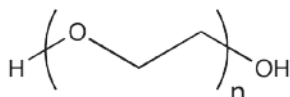
- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $\text{HO}(\text{C}_2\text{H}_4\text{O})_n\text{H}$
- $M = 3500 - 4500 \text{ g/mol}$
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Solub. in water: (20 °C): ~ 550 g/l
- Melting point: 54 - 58 °C
- Flash pt. 250 °C
- Ignition temp.: 420 °C
- Vapour pressure: (20 °C) < 0,1 hPa

- LD 50 (oral, rat): 50000 mg/kg
- Tariff number: 3404 20 00 00
- Applications: analytical chemistry, chromatography, synthesis of organic products, in food industry, cosmetics.

Art. No.	Volume	Container
P000601000	1 kg	⊖
P00060025P	25 kg	⊖

Polyethylene glycol 6000

PO0065 Polyethylene glycol 6000, synthesis grade



- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $\text{HO}(\text{C}_2\text{H}_4\text{O})_n\text{H}$
- $M = 6000 \text{ g/mol}$
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Solub. in water: (20 °C): ~ 500 g/l
- Melting point: 55 - 62 °C

- Flash pt. ~ 250 °C
- Ignition temp.: 420 °C
- Vapour pressure: (20 °C) 50000 mg/kg
- Tariff number: 3404 20 00 00
- Applications: synthesis of organic products, in food industry, cosmetics.

Art. No.	Volume	Container
P000651000	1 kg	⊖

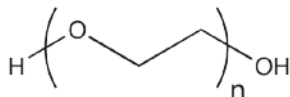
PO0066 Polyethylene glycol 6000, molecular biology grade

DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
P000660100	100 g	⊖	P000661000	1 kg	⊖

Polyethylene glycol 8000

PO0069 Polyethylene glycol 8000, synthesis grade



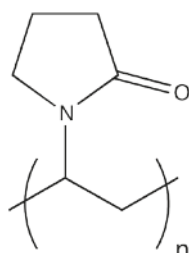
- Synonyms: Carbowax, PEG, Polyoxyethylene glycol, Polyglycol, Polyethylene oxide
- $\text{HO}(\text{C}_2\text{H}_4\text{O})_n\text{H}$
- $M = 8000 \text{ g/mol}$
- CAS [25322-68-3]
- EINECS-No.: 203-473-3
- Solub. in water: (20 °C): ~ 500 g/l
- Melting point: 56 - 63 °C
- Flash pt. > 270 °C
- Tariff number: 3404 20 00 00

- Applications: synthesis of organic products, in food industry, cosmetics, in the pharmaceuticals industry, in biochemistry.

Art. No.	Volume	Container
P000691000	1 kg	⊖
P00069005P	5 kg	⊖
P00069025P	25 kg	⊖

Polyvinylpyrrolidone

PO0080 Polyvinylpyrrolidone, molecular biology grade



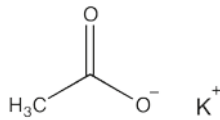
- Synonyms: PVP
- $(\text{C}_5\text{H}_7\text{NO})_n$
- CAS [9003-39-8]
- EINECS-No.: 201-800-4
- Solub. in water: (23 °C): > 270 g/l
- Melting point: > 130 °C (decomposes)
- Flash pt. > 215 °C
- Ignition temp.: 425 °C
- LD 50 (oral, rat): > 2000 mg/kg
- Tariff number: 3905 99 90 99
- Applications: in biochemistry, cosmetics, in the pharmaceuticals industry, photography.

DNases, RNases, Proteases non detected

Art. No.	Volume	Container
P000800100	100 g	⊖
P000801000	1 kg	⊖

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Potassium acetate



- Synonyms: Acetic acid potassium salt
- CH₃COOK
- M = 98,15 g/mol
- CAS [127-08-2]
- EINECS-No.: 204-822-2
- Solub. in water: (20 °C): soluble
- Melting point: 292 °C
- Flash pt. > 250 °C

- LD 50 (oral, rat): 3250 mg/kg
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, laboratory reagent, in food industry.

PO0109 Potassium acetate, extra pure, Pharmpur®, Ph Eur, BP

assay (titr. with HClO₄, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
PO01091000	1 kg	⊘	PO0109025P	25 kg	⊘

PO0110 Potassium acetate, reagent grade, ACS

assay (titration with HClO₄) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PO01100500	500 g	⊘	PO0110005P	5 kg	⊘
PO01101000	1 kg	⊘	PO0110025P	25 kg	⊘

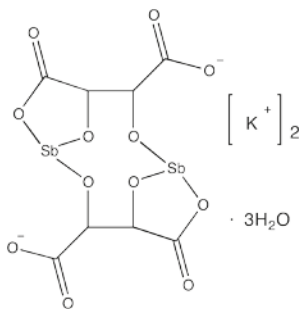
PO0112 Potassium acetate, molecular biology grade

assay (titration with HClO₄, on dried sample) min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
PO01120250	250 g	⊘	PO01121000	1 kg	⊘

Potassium antimony(III) tartrate trihydrate

PO0125 Potassium antimony(III) tartrate trihydrate, extra pure



- Synonyms: Potassium antimony(III) oxide tartrate trihydrate, Potassium antimonyl tartrate, Tartar emetic, Antimony potassium tartrate
- C₈H₄K₂O₁₂Sb₂ · 3H₂O
- M = 667,87 g/mol
- CAS [28300-74-5]
- EINECS-No.: 234-293-3
- Solub. in water: (20 °C): 83 g/l
- LD 50 (oral, rat): 115 mg/kg
- EC-Index-No.: 051-003-00-9
- ADR: 6.1 T5 III UN 1551
- IMDG: 6.1 III UN 1551
- IATA/ICAO: 6.1 III UN 1551
- GHS-signal word: Warning
- GHS-H sentences: H302 - H332 - H411

- GHS-P sentences: P261 - P273 - P301 + P312 - P304 + P340 - P312 - P501a
- Tariff number: 2918 13 00 90
- Applications: mordant/corrosive (in the textile industry), in pesticide compositions, analytical chemistry, for determination of: lead, sodium, germanium (i.a.).
- Appearance: Colourless solid

assay (iodometric) min. 98 %

Art. No.	Volume	Container
PO01250500	500 g	⊘
PO01251000	1 kg	⊘

Potassium bromate

- Synonyms: Bromic acid potassium salt
- KBrO₃
- M = 167,01 g/mol
- CAS [7758-01-2]
- EINECS-No.: 231-829-8
- Solub. in water: (20 °C): ~ 70 g/l
- Melting point: 434 °C

- LD 50 (oral, rat): 157 mg/kg
- EC-Index-No.: 035-003-00-6
- ADR: 5.1 O2 II UN 1484
- IMDG: 5.1 II UN 1484
- IATA/ICAO: 5.1 II UN 1484
- GHS-signal word: Danger
- GHS-H sentences: H271 - H301 - H350

- GHS-P sentences: P221 - P283 - P210 - P301 + P310 - P405 - P501a
- Tariff number: 2829 90 40 00
- Applications: analytical chemistry, laboratory reagent, in food industry.
- Appearance: White crystalline powder

PO0160 Potassium bromate, extra pure



assay (iodometric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PO01600500	500 g	⊘	PO01601000	1 kg	⊘

PO0163 Potassium bromate, reagent grade, ACS, ISO, Reag. Ph Eur



assay (iodometric, on dried sample) min. 99,8 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PO01630500	500 g	⊘	PO01631000	1 kg	⊘

Potassium bromate, volumetric solutions

PO0165 Potassium bromate, solution 1/60 mol/l (0,1 N)



- KBrO₃
- M = 167,01 g/mol
- CAS [7758-01-2]
- EINECS-No.: 231-829-8
- Density: ~ 1,002 g/cm³
- LD 50 (oral, rat): 157 mg/kg (pure substance)

- EC-Index-No.: 035-003-00-6
- GHS-signal word: Danger
- GHS-H sentences: H350
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2829 90 40 00

- Applications: analytical chemistry.

Art. No.	Volume	Container
PO01651000	1 l	⊘

Potassium bromide

- KBr
- M = 119,01 g/mol
- CAS [7758-02-3]
- EINECS-No.: 231-830-3
- Solub. in water: (20 °C): 540 g/l
- Melting point: 730 °C
- Boiling point: 1380 °C
- Vapour pressure: (795 °C) 1,3 hPa
- LD 50 (oral, rat): 3070 mg/kg
- Tariff number: 2827 51 00 00
- Applications: analytical chemistry, laboratory reagent, photography.

PO0166 Potassium bromide, synthesis grade

assay (argentometric) min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	PO01660500	500 g	Ⓟ	PO0166005P	5 kg	Ⓟ
	PO01661000	1 kg	Ⓟ			

PO0167 Potassium bromide, reagent grade, ACS

assay (argentometric) min. 99,5 % loss on drying (105 °C) max. 0,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	PO01670500	500 g	Ⓟ	PO01671000	1 kg	Ⓟ

PO0168 Potassium bromide, IR spectroscopy grade

suitability for IR spectroscopy passes test	Art. No.	Volume	Container	Art. No.	Volume	Container
	PO01680100	100 g	Ⓟ	PO01680250	250 g	Ⓟ

Potassium carbonate

- Synonyms: Potash
- K₂CO₃
- M = 138,21 g/mol
- CAS [584-08-7]
- EINECS-No.: 209-529-3
- Solub. in water: (20 °C): soluble
- Melting point: 891 °C
- LD 50 (oral, rat): > 2000 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2836 40 00 00
- Applications: analytical chemistry, laboratory reagent, manufacture of glass, in the ceramics industry, inorganic salts, cosmetics.

PO0170 Potassium carbonate, extra pure, Pharpur®, Ph Eur, BP, USP

assay (acidimetric, on dried sample) 99,0 - 101,0 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	PO01700500	500 g	Ⓟ	PO0170005P	5 kg	Ⓟ
	PO01701000	1 kg	Ⓟ	PO0170025P	25 kg	Ⓟ

PO0171 Potassium carbonate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric, on dried sample) min. 99 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	PO01710500	500 g	Ⓟ	PO0171005P	5 kg	Ⓟ
	PO01711000	1 kg	Ⓟ	PO0171025P	25 kg	Ⓟ

Potassium carbonate/sodium carbonate anhydrous, mixture 50%

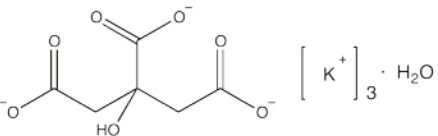
PO0175 Potassium carbonate/sodium carbonate anhydrous, mixture 50%, reagent grade

GHS-signal word: Warning GHS-H sentences: H315 - H319 - H335 GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a	Tariff number: 3822 00 00 00 Applications: analytical chemistry, laboratory reagent.	Art. No.	Volume	Container
		PO01751000	1 kg	Ⓟ

assay (acidimetric) min. 99,0 %

tri-Potassium citrate monohydrate

PO0186 tri-Potassium citrate monohydrate, extra pure, Pharpur®, Ph Eur, BP, USP



- Synonyms: Citric acid potassium salt, Tripotassium citrate
- C₆H₅K₃O₇·H₂O
- M = 324,42 g/mol
- CAS [6100-05-6]
- EINECS-No.: 212-755-5
- Solub. in water: (20 °C): soluble
- Melting point: 230 °C (decomposes)
- Tariff number: 2918 15 00 90
- Applications: in food industry (E-332), antioxidant, preservative agent, laboratory reagent, in pharma industry.

assay (titration with HClO₄, on dried sample) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PO01860500	500 g	Ⓟ
PO01861000	1 kg	Ⓟ
PO0186005P	5 kg	Ⓟ

Potassium cyanide

PO0180 Potassium cyanide, extra pure, Reag. Ph Eur



- Synonyms: Cyanogen potassium
- KCN
- M = 65,12 g/mol
- CAS [151-50-8]
- EINECS-No.: 205-792-3
- Solub. in water: (25 °C): 716 g/l
- Melting point: 634 °C
- Boiling point: 1625 °C
- Vapour pressure: (634,5 °C) 1,8 hPa
- LD 50 (oral, rat): 5 mg/kg
- EC-Index-No.: 006-007-00-5
- ADR: 6.1 T5 I UN 1680

- IMDG: 6.1 I UN 1680
- IATA/ICAO: 6.1 I UN 1680
- GHS-signal word: Danger
- GHS-H sentences: H300 - EUH032 - H310 - H330 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2837 19 00 90
- Applications: for the extraction of gold and silver from minerals, laboratory reagent, fumigant, in galvanotechnia.

assay (argentometric)min. 96 %

Art. No.	Volume	Container
P001800100	100 g	⊕
P001800250	250 g	⊕
P001801000	1 kg	⊕
P00180005P	5 kg	⊖

Potassium chlorate

- Synonyms: Chloric acid potassium salt
- KClO₃
- M = 122,55 g/mol
- CAS [3811-04-9]
- EINECS-No.: 223-289-7
- Solub. in water: (20 °C): 73 g/l
- Melting point: 356 °C

- Boiling point: 400 °C (decomposes)
- LD 50 (oral, rat): 1870 mg/kg
- EC-Index-No.: 017-004-00-3
- ADR: 5.1 O2 II UN 1485
- IMDG: 5.1 II UN 1485
- IATA/ICAO: 5.1 II UN 1485
- GHS-signal word: Danger

- GHS-H sentences: H271 - H302 - H332 - H411
- GHS-P sentences: P221 - P283 - P210 - P306 + P360 - P371 + P380 + P375 - P501a
- Tariff number: 2829 19 00 00
- Applications: analytical chemistry, laboratory reagent, in explosive compositions, manufacture of dyes and painting (in the textile industry), antiseptic.

PO0190 Potassium chlorate, extra pure



assay (oxidimetric)99 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P001900500	500 g	⊕	P00190005P	5 kg	⊖
P001901000	1 kg	⊕	P00190025P	25 kg	⊖

PO0193 Potassium chlorate, reagent grade, ACS, Reag. Ph Eur



assay (argentometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P001930500	500 g	⊕	P00193005P	5 kg	⊖
P001931000	1 kg	⊕			

Potassium chloride

- Synonyms: Chloro potassium
- KCl
- M = 74,56 g/mol
- CAS [7447-40-7]
- EINECS-No.: 231-211-8

- Solub. in water: (20 °C): 330 g/l
- Melting point: 773 °C
- Boiling point: 1413 °C
- LD 50 (oral, rat): 2600 mg/kg
- Tariff number: 3104 20 10 00

- Applications: analytical chemistry, laboratory reagent, photography, in buffer solutions, electrolyte for batteries.

PO0199 Potassium chloride, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (argentometric, on dried sample)99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
P001990500	500 g	⊕	P00199005P	5 kg	⊖
P001991000	1 kg	⊕	P00199025P	25 kg	⊖

PO0202 Potassium chloride, crystallized, Pharmpur®, Eur, USP, GMP, suitable for use as excipient

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
P002021000	1 kg	⊕	P00202025P	25 kg	⊖

PO0200 Potassium chloride, reagent grade, Reag. Ph Eur

assay (argentometric)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P002000250	250 g	⊕	P00200005P	5 kg	⊖
P002000500	500 g	⊕	P00200025P	25 kg	⊖
P002001000	1 kg	⊕			

PO0207 Potassium chloride, secondary standard for volumetric titrations, Titrasure®

assay (on dried sample)99,0 - 100,5 %

Art. No.	Volume	Container
P002070100	100 g	⊕

PO0201 Potassium chloride, molecular biology grade

assay (argentometric)min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
P002010250	250 g	⊕	P002011000	1 kg	⊕

Potassium chloride, solutions

PO0205 Potassium chloride, solution 3 mol/l, for filling electrodes

- KCl
- M = 74,56 g/mol
- CAS [7447-40-7]
- EINECS-No.: 231-211-8
- Density: 1,13 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 2600 mg/kg (pure substance)
- Tariff number: 3104 20 90 00
- Applications: analytical chemistry, laboratory reagent, for electroanalysis.

Art. No.	Volume	Container
P002050250	250 ml	Ø
P002051000	1 l	Ø

PO0206 Potassium chloride, solution 3,5 mol/l with silver chloride, for filling electrodes

- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 2600 mg/kg (pure substance)
- Tariff number: 3822 00 00 00
- Applications: for reference electrodes.

Art. No.	Volume	Container
P002060250	250 ml	Ø

Potassium chromate

PO0214 Potassium chromate, reagent grade, ACS



- Synonyms: Chromic acid potassium salt
- K₂CrO₄
- M = 194,21 g/mol
- CAS [7789-00-6]
- EINECS-No.: 232-140-5
- Solub. in water: (20 °C): 637 g/l
- Melting point: 985 °C
- Boiling point: 1000 °C
- LD 50 (oral, rat): 180 mg/kg
- EC-Index-No.: 024-006-00-8
- ADR: 6.1 T5 II UN 3288
- IMDG: 6.1 II UN 3288
- IATA/ICAO: 6.1 II UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H340 - H350i - H410 - H315 - H319 - H317 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: analytical chemistry, laboratory reagent, in the production of enamels, inorganic salts.
- Appearance: Yellow solid

assay (iodometric) min. 99,5 %

Art. No.	Volume	Container
P002140500	500 g	Ø
P002141000	1 kg	Ø
P00214005P	5 kg	Ø

Potassium chromate, solution 10%

PO0216 Potassium chromate, solution 10% w/v, extra pure



- Synonyms: Chromic acid potassium salt
- K₂CrO₄
- M = 194,21 g/mol
- CAS [7789-00-6]
- EINECS-No.: 232-140-5
- Density: ~ 1,08 g/cm³
- EC-Index-No.: 024-006-00-8
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H340 - H350i - H317 - H411
- GHS-P sentences: P261 - P280 - P281 - P321 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: analytical chemistry, indicator.

assay (iodometric) approx. 10 %

Art. No.	Volume	Container
P002160250	250 ml	Ø

Potassium chromate, solution 5%

PO0215 Potassium chromate, solution 5% w/v, extra pure



- Synonyms: Chromic acid potassium salt
- K₂CrO₄
- M = 194,21 g/mol
- CAS [7789-00-6]
- EINECS-No.: 232-140-5
- Density: ~ 1,04 g/cm³
- EC-Index-No.: 024-006-00-8
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H340 - H350i - H317 - H411
- GHS-P sentences: P261 - P280 - P281 - P321 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: analytical chemistry, indicator.

assay (iodometric) approx. 5 %

Art. No.	Volume	Container
P002150250	250 ml	Ø

Potassium dichromate

- Synonyms: Potassium bichromate, Potassium pyrochromate
- K₂Cr₂O₇
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Solub. in water: (20 °C): 130 g/l
- Melting point: 398 °C
- Boiling point: > 500 °C
- LD 50 (oral, rat): 25 mg/kg
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T5 II UN 3288
- IMDG: 6.1 II UN 3288
- IATA/ICAO: 6.1 II UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H330 - H334 - H340 - H350 - H360FD - H372 - H314 - H410 - H312 - H317

- GHS-P sentences: P221 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: oxidizing agent, synthesis of organic products, manufacture of dyes, painting.
- Appearance: Orange solid

PO0219 Potassium dichromate, extra pure



assay (iodometric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P002190500	500 g	Ø	P00219005P	5 kg	Ø
P002191000	1 kg	Ø	P00219025P	25 kg	Ø

PO0220 Potassium dichromate, reagent grade, ACS, ISO, Reag. Ph Eur



assay (iodometric) min. 99,9 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P002200500	500 g	Ø	P00220005P	5 kg	Ø
P002201000	1 kg	Ø	P00220025P	25 kg	Ø

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

PO0235 Potassium dichromate, secondary standard for volumetric titrations, Titrasure®



assay (on dried sample)min. 99 %

Art. No.	Volume	Container
P002350100	100 g	⊞

Potassium dichromate, volumetric solutions

PO0231 Potassium dichromate, solution 1/6 mol/l (1 N)



- $K_2Cr_2O_7$
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Density: ---
- LD 50 (oral, rat): 25 mg/kg (toxic component)
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H334 - H340 - H350 - H360FD - H373 - H318 - H332 - H315 - H317 - H411
- GHS-P sentences: P260 - P285 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2841 50 00 00

- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
P002311000	1 l	⊞

PO0232 Potassium dichromate, solution 1/24 mol/l (0,25 N)



- $K_2Cr_2O_7$
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Density: 1,01 g/cm³
- LD 50 (oral, rat): 25 mg/kg (toxic component)
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H334 - H340 - H350 - H360FD - H373 - H315 - H319 - H317 - H412
- GHS-P sentences: P260 - P285 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2841 50 00 00

- Applications: analytical chemistry, titrant in volumetric analysis, oxidizing agent, synthesis of organic products.

Art. No.	Volume	Container
P002321000	1 l	⊞

PO0233 Potassium dichromate, solution 0,04 mol/l, for COD determination



- $K_2Cr_2O_7$
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Density: 1,004 g/cm³
- LD 50 (oral, rat): 25 mg/kg (toxic component)
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H334 - H340 - H350 - H360FD - H373 - H315 - H319 - H317 - H412
- GHS-P sentences: P260 - P285 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2841 50 00 00

- Applications: analytical chemistry (determining COD), oxidizing agent.

Art. No.	Volume	Container
P002331000	1 l	⊞

PO0234 Potassium dichromate 0,04 mol/l / mercury(II) sulfate 80 g/l, solution in sulfuric acid, for COD determination, according to ISO 6060



- Density: ~ 1,19 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H331 - H334 - H340 - H350 - H360FD - H373 - H314 - H302 - H317 - H411
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, determining COD.

- Appearance: Orange liquid

Art. No.	Volume	Container
P002341000	1 l	⊞

PO0230 Potassium dichromate, solution 1/60 mol/l (0,1N)



- $K_2Cr_2O_7$
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Density: 1,002 g/cm³
- LD 50 (oral, rat): 25 mg/kg (toxic component)
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H340 - H350 - H360FD - H412
- GHS-P sentences: P281 - P273 - P201 - P308 + P313 - P405 - P501a
- Tariff number: 2841 50 00 00

- Tariff number: 2841 50 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, oxidizing agent.

Art. No.	Volume	Container
P002301000	1 l	⊞

PO0218 Potassium dichromate, solution 1/120 mol/l (0,05 N)



- $K_2Cr_2O_7$
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- LD 50 (oral, rat): 25 mg/kg (toxic component)
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H340 - H350 - H412
- GHS-P sentences: P281 - P273 - P201 - P308 + P313 - P405 - P501a
- Tariff number: 2841 50 00 00

- Applications: analytical chemistry, titrant in volumetric analysis, oxidizing agent.

Art. No.	Volume	Container
P002181000	1 l	⊞

PO0221 Potassium dichromate, concentrated solution to prepare 1 l of solution 1/60 mol/l (0,1N)



- $K_2Cr_2O_7$
- M = 294,19 g/mol
- CAS [7778-50-9]
- EINECS-No.: 231-906-6
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 25 mg/kg (toxic component)
- EC-Index-No.: 024-002-00-6
- ADR: 6.1 T4 III UN 3287
- IMDG: 6.1 III UN 3287
- IATA/ICAO: 6.1 III UN 3287
- GHS-signal word: Danger
- GHS-H sentences: H334 - H340 - H350 - H360FD - H373 - H318 - H332 - H315 - H317 - H411
- GHS-P sentences: P260 - P285 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2841 50 00 00

- Tariff number: 2841 50 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
P0022100PA	u.	⊞

Potassium dihydrogen phosphate

- Synonyms: Potassium biphosphate, Potassium phosphate monobasic, Primary potassium phosphate, Mono-potassium phosphate
- KH_2PO_4
- M = 136,09 g/mol
- CAS [7778-77-0]
- EINECS-No.: 231-913-4
- Solub. in water: (20 °C): 222 g/l
- Melting point: ~ 253 °C (decomposes)
- Tariff number: 2835 24 00 00
- Applications: analytical chemistry; in buffer solutions.

PO0259 Potassium dihydrogen phosphate, extra pure, Ph Eur, BP, NF

assay (acidimetric, on dried sample) 98 - 100,5 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002590500	500 g	⊖	P00259005P	5 kg	⊖
	P002591000	1 kg	⊖	P00259025P	25 kg	⊖

PO0260 Potassium dihydrogen phosphate, reagent grade, ACS, ISO, Reag. Ph Eur,

assay (acidimetric) min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002600250	250 g	⊖	P00260005P	5 kg	⊖
	P002600500	500 g	⊖	P00260025P	25 kg	⊖
	P002601000	1 kg	⊖			

PO0261 Potassium dihydrogen phosphate, HPLC grade

assay (acidimetric) min. 99,5 %	max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength:	absorbance:	Art. No.	Volume	Container
	210 nm.	0,1 AU	P002610250	250 g	⊖
	220 nm.	0,06 AU			
	230 nm.	0,04 AU			
	300 nm.	0,02 AU			

PO0262 Potassium dihydrogen phosphate, molecular biology grade

assay (acidimetric) min. 99,5 % DNases, RNases, Proteases non detected	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002620100	100 g	⊖	P002621000	1 kg	⊖

Potassium disulfite

- Synonyms: Potassium metabisulfite, Potassium pyrosulfite
- $\text{K}_2\text{S}_2\text{O}_5$
- M = 222,33 g/mol
- CAS [16731-55-8]
- EINECS-No.: 240-795-3
- Solub. in water: (20 °C): 450 g/l
- Melting point: 190 °C
- LD 50 (oral, rat): 2300 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H318 - H335 - EUH031
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2832 20 00 00
- Applications: analytical chemistry, laboratory reagent, inorganic salts, preservative agent (in food industry).

PO0242 Potassium disulfite, extra pure, Ph Eur, NF

assay (iodometric) 95 - 101 % assay (iodometric, as SO_2) 51,8 - 57,6 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002421000	1 kg	⊖	P00242025P	25 kg	⊖
	P00242005P	5 kg	⊖			

PO0241 Potassium disulfite, reagent grade

assay (iodometric) min. 96 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002410500	500 g	⊖	P00241005P	5 kg	⊖
	P002411000	1 kg	⊖	P00241025P	25 kg	⊖

Potassium fluoride

PO0256 Potassium fluoride, extra pure, Reag. Ph Eur

• Synonyms: Fluorine potassium • KF • M = 58,10 g/mol • CAS [7789-23-3] • EINECS-No.: 232-151-5 • Solub. in water: (20 °C): soluble • Melting point: ~ 855 °C • Boiling point: 1500 °C • Vapour pressure: (885 °C) 1,3 hPa • LD 50 (oral, rat): 245 mg/kg • EC-Index-No.: 009-005-00-2	• ADR: 6.1 T5 III UN 1812 • IMDG: 6.1 III UN 1812 • IATA/ICAO: 6.1 III UN 1812 • GHS-signal word: Danger • GHS-H sentences: H301 - H311 - H331 • GHS-P sentences: P261 - P301 + P310 - P361 - P321 - P405 - P501a • Tariff number: 2826 19 90 90 • Applications: synthesis of organic products (fluorides), insecticide. • Appearance: White solid	assay min. 99 %	Art. No.	Volume	Container
			P002560500	500 g	⊖
			P002561000	1 kg	⊖
			P00256005P	5 kg	⊖
			P00256025P	25 kg	⊖

Potassium hexacyanoferrate(II) trihydrate

- Synonyms: Potassium ferrocyanide, Yellow prussiate of potash, Ferrocyanpotassium
- $\text{K}_4[\text{Fe}(\text{CN})_6] \cdot 3\text{H}_2\text{O}$
- M = 422,39 g/mol
- CAS [14459-95-1]
- EINECS-No.: 237-722-2
- Solub. in water: (20 °C): 289 g/l
- Melting point: ~ 70 °C (release of crystalline water)
- LD 50 (oral, rat): 3613 mg/kg (anhydrous substance)
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 2837 20 00 90
- Applications: analytical chemistry, laboratory reagent, in food industry.

Potass

PO0247 Potassium hexacyanoferrate(II) trihydrate, extra pure

assay (permanganometric)min. 99 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002471000	1 kg	Ⓢ	P00247005P	5 kg	Ⓢ

PO0248 Potassium hexacyanoferrate(II) trihydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (permanganometric)99 - 102 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002480500	500 g	Ⓢ	P00248005P	5 kg	Ⓢ
	P002481000	1 kg	Ⓢ	P00248025P	25 kg	Ⓢ

Potassium hexacyanoferrate(II), solution 10%

PO0249 Potassium hexacyanoferrate(II), solution 10% w/v

<ul style="list-style-type: none"> • Synonyms: Potassium ferrocyanide solution • $K_4[Fe(CN)_6] \cdot 3H_2O$ • M = 422,39 g/mol • CAS [14459-95-1] • Density: 1,060 g/cm³ 	<ul style="list-style-type: none"> • LD 50 (oral, rat): 3613 mg/kg (anhydrous substance) • GHS-H sentences: EUH210 • Tariff number: 2837 20 00 00 • Applications: analytical chemistry, for determination of: iron. 	Art. No.	Volume	Container
		P002490250	250 ml	Ⓢ

Potassium hexacyanoferrate(III)

<ul style="list-style-type: none"> • Synonyms: Potassium ferricyanide, Ferricyanpotassium, Potassium cyanoferrate(III) • $K_3[Fe(CN)_6]$ • M = 329,26 g/mol 	<ul style="list-style-type: none"> • CAS [13746-66-2] • EINECS-No.: 237-323-3 • Solub. in water: (20 °C): 464 g/l • Tariff number: 2837 20 00 00 	<ul style="list-style-type: none"> • Applications: analytical chemistry, laboratory reagent, painting, photography, manufacture of dyes, oxidizing agent (synthesis of organic products).
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PO0240 Potassium hexacyanoferrate(III), extra pure

assay (iodometric)min. 99 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002400500	500 g	Ⓢ	P00240005P	5 kg	Ⓢ
	P002401000	1 kg	Ⓢ	P00240025P	25 kg	Ⓢ

PO0243 Potassium hexacyanoferrate(III), reagent grade, ACS, ISO

assay (iodometric)min. 99 % insoluble in watermax. 0,005 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002430500	500 g	Ⓢ	P00243005P	5 kg	Ⓢ
	P002431000	1 kg	Ⓢ	P00243025P	25 kg	Ⓢ

Potassium hexahydroxoantimonate(V)

PO0120 Potassium hexahydroxoantimonate(V), extra pure

<ul style="list-style-type: none"> • Synonyms: Potassium antimonate • $K[Sb(OH)_6]$ • M = 262,90 g/mol • CAS [12208-13-8] • EINECS-No.: 235-387-7 • Solub. in water: (20 °C): 20 g/l • EC-Index-No.: 051-003-00-9 • ADR: 6.1 T5 III UN 1549 	<ul style="list-style-type: none"> • IMDG: 6.1 III UN 1549 • IATA/ICAO: 6.1 III UN 1549 • GHS-signal word: Warning • GHS-H sentences: H302 - H332 - H411 • GHS-P sentences: P261 - P273 - P301 + P312 - P304 + P340 - P312 - P501a • Tariff number: 2841 90 80 00 • Applications: analytical chemistry, laboratory reagent. 	<ul style="list-style-type: none"> • Appearance: White solid 		
		assay (iodometric, as Sb)44,4 - 49,7 %		
		Art. No.	Volume	Container
		P001200100	100 g	Ⓢ

Potassium hydrogen carbonate

PO0173 Potassium hydrogen carbonate, reagent grade, Reag. Ph Eur

<ul style="list-style-type: none"> • Synonyms: Potassium bicarbonate • $KHCO_3$ • M = 100,12 g/mol • CAS [298-14-6] • EINECS-No.: 206-059-0 • Solub. in water: (20 °C): 224 g/l • Melting point: 292 °C 	<ul style="list-style-type: none"> • LD 50 (oral, rat): > 2000 mg/kg • Tariff number: 2836 40 00 00 • Applications: in food industry, effervescent salt. 	Art. No.	Volume	Container
		P001730500	500 g	Ⓢ
		P001731000	1 kg	Ⓢ
		P00173005P	5 kg	Ⓢ
		P00173025P	25 kg	Ⓢ

di-Potassium hydrogen phosphate anhydrous

<ul style="list-style-type: none"> • Synonyms: Dipotassium hydrogen phosphate, Potassium phosphate dibasic • K_2HPO_4 • M = 174,18 g/mol 	<ul style="list-style-type: none"> • CAS [7758-11-4] • EINECS-No.: 231-834-5 • Solub. in water: (20 °C): soluble • Tariff number: 2835 24 00 00 	<ul style="list-style-type: none"> • Applications: analytical chemistry, in buffer solutions (phosphates), nutrient media for bacterial culture.
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PO0257 di-Potassium hydrogen phosphate anhydrous, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (acidimetric, on dried sample)98 - 101 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	P002570500	500 g	Ⓢ	P00257005P	5 kg	Ⓢ
	P002571000	1 kg	Ⓢ	P00257025P	25 kg	Ⓢ

PO0258 di-Potassium hydrogen phosphate anhydrous, reagent grade, ACS, Reag. Ph Eur

assay (acidimetric, on dried sample)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P002580500	500 g	Ⓟ	P00258005P	5 kg	Ⓟ
P002581000	1 kg	Ⓟ	P00258025P	25 kg	Ⓟ

di-Potassium hydrogen phosphate trihydrate

- Synonyms: Secondary potassium phosphate, Potassium phosphate dibasic
- $K_2HPO_4 \cdot 3H_2O$
- M = 228,23 g/mol
- CAS [16788-57-1]
- EINECS-No.: 231-834-5
- Solub. in water: (20 °C): freely soluble
- Tariff number: 2835 24 00 00
- Applications: in buffer solutions (chromatography).

PO0269 di-Potassium hydrogen phosphate trihydrate, extra pure

assay (acidimetric)98 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P002690500	500 g	Ⓟ	P00269005P	5 kg	Ⓟ
P002691000	1 kg	Ⓟ			

PO0271 di-Potassium hydrogen phosphate trihydrate, reagent grade, Reag. Ph Eur

assay (acidimetric)min. 98 %

Art. No.	Volume	Container
P002710500	500 g	Ⓟ
P002711000	1 kg	Ⓟ
P00271005P	5 kg	Ⓟ

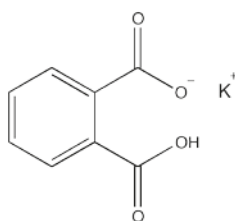
PO0270 di-Potassium hydrogen phosphate trihydrate, HPLC grade

assay (acidimetric)min. 99 %

max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:
 230 nm. 0,1 AU
 240 nm. 0,06 AU
 250 nm. 0,04 AU
 310 nm. 0,02 AU

Art. No.	Volume	Container
P002700250	250 g	Ⓟ
P002701000	1 kg	Ⓟ

Potassium hydrogen phthalate



- Synonyms: Potassium biphthalate, Phthalic acid monopotassium salt, KHP
- $C_8H_5KO_4$
- M = 204,22 g/mol
- CAS [877-24-7]
- EINECS-No.: 212-889-4
- Solub. in water: (20 °C): 80 g/l
- Melting point: 295 - 300 °C
- LD 50 (oral, rat): > 3200 mg/kg
- Tariff number: 2917 39 80 80
- Applications: analytical chemistry, titrant in volumetric analysis (bases), in buffer solutions.

PO0130 Potassium hydrogen phthalate, reagent grade, Reag. Ph Eur

assay (acidimetric, on dried sample) min. 99,9 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P001300500	500 g	Ⓟ	P00130005P	5 kg	Ⓟ
P001301000	1 kg	Ⓟ			

PO0131 Potassium hydrogen phthalate, secondary standard for volumetric titrations, Titrasure®

assay (acidimetric, on dried sample)99,95 - 100,05 %

Art. No.	Volume	Container
P001310100	100 g	Ⓟ

Potassium hydrogen sulfate

PO0272 Potassium hydrogen sulfate, extra pure, Reag. Ph Eur



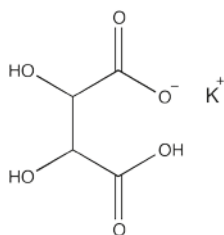
- Synonyms: Potassium bisulfate
- $KHSO_4$
- M = 136,17 g/mol
- CAS [7646-93-7]
- EINECS-No.: 231-594-1
- Solub. in water: (20 °C): 490 g/l (exothermic process)
- Melting point: 210 °C (decomposes)
- LD 50 (oral, rat): 2340 mg/kg
- EC-Index-No.: 016-056-00-4
- ADR: 8 C2 II UN 2509
- IMDG: 8 II UN 2509
- IATA/ICAO: 8 II UN 2509
- GHS-signal word: Danger
- GHS-H sentences: H314 - H335
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2833 29 90 00
- Applications: analytical chemistry, laboratory reagent, for determination of: silicon compounds and ores.

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
P002720500	500 g	Ⓟ
P002721000	1 kg	Ⓟ
P00272005P	5 kg	Ⓟ

Potassium hydrogen tartrate

PO0150 Potassium hydrogen tartrate, extra pure, Pharmpur®, Ph Eur, BP



- Synonyms: Potassium bitartrate, Tartaric acid mono-potassium salt
- $C_4H_5KO_6$
- M = 188,14 g/mol
- CAS [868-14-4]
- EINECS-No.: 212-769-1
- Solub. in water: (20 °C): 5,7 g/l
- Melting point: ~ 250 °C (decomposes)
- Tariff number: 2918 13 00 90
- Applications: in food industry, in galvanotechnia, colouring agent (metals), in pharma industry.

assay (acidimetric, on dried sample) 99,5 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
P001500500	500 g	⊘
P001501000	1 kg	⊘

Potassium hydroxide

- Synonyms: Potash caustic, Potassium hydrate, Potassium oxide hydrate
- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Solub. in water: (20 °C): soluble
- Melting point: 360 °C

- Boiling point: 1320 °C
- LD 50 (oral, rat): 273 mg/kg
- EC-Index-No.: 019-002-00-8
- ADR: 8 C6 II UN 1813
- IMDG: 8 II UN 1813
- IATA/ICAO: 8 II UN 1813
- GHS-signal word: Danger
- GHS-H sentences: H314 - H302

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 20 10 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, synthesis of organic products, in the pharmaceuticals industry.

PO0263 Potassium hydroxide, 90%, flakes, pure

Art. No.	Volume	Container
P002631000	1 kg	⊘

Art. No.	Volume	Container
P00263005P	5 kg	⊘

PO0266 Potassium hydroxide, pellets, extra pure, Pharmpur®, Ph Eur, BP, NF

assay (acidimetric) 85 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
P002660500	500 g	⊘
P002661000	1 kg	⊘

Art. No.	Volume	Container
P00266005P	5 kg	⊘
P00266025P	25 kg	⊘

PO0275 Potassium hydroxide, pellets, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric) min. 85 %

Art. No.	Volume	Container
P002750500	500 g	⊘
P002751000	1 kg	⊘

Art. No.	Volume	Container
P00275005P	5 kg	⊘
P00275025P	25 kg	⊘

Potassium hydroxide, solution 40% w/v

PO0273 Potassium hydroxide, solution 40% w/v, extra pure

- Synonyms: Caustic potash, Potassium hydrate, Potassium oxide hydrate
- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 1,29 g/cm³
- Solub. in water: (20 °C): miscible

- LD 50 (oral, rat): 273 mg/kg (pure substance)
- EC-Index-No.: 019-002-00-8
- ADR: 8 C5 II UN 1814
- IMDG: 8 II UN 1814
- IATA/ICAO: 8 II UN 1814
- GHS-signal word: Danger
- GHS-H sentences: H314 - H302

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 20 90 00
- Applications: laboratory reagent, synthesis of organic products, perfumery.

Art. No.	Volume	Container
P002731000	1 l	⊘

Potassium hydroxide, volumetric solutions

PO0288 Potassium hydroxide, solution 2 mol/l (2 N)

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: ~ 1,09 g/cm³
- EC-Index-No.: 019-002-00-8
- ADR: 8 C5 II UN 1814

- IMDG: 8 II UN 1814
- IATA/ICAO: 8 II UN 1814
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 20 90 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
P002881000	1 l	⊘

PO0280 Potassium hydroxide, solution 1 mol/l (1 N)

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 1,05 g/cm³
- LD 50 (oral, rat): 273 mg/kg (pure substance)
- EC-Index-No.: 019-002-00-8
- ADR: 8 C5 II UN 1814
- IMDG: 8 II UN 1814

- IATA/ICAO: 8 II UN 1814
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 20 90 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
P002800500	500 ml	⊘
P002801000	1 l	⊘
P00280005P	5 l	⊘
P00280010C	10 l	⊘

PO0281 Potassium hydroxide, solution 0,5 mol/l (0,5 N)

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 1,02 g/cm³
- LD 50 (oral, rat): 273 mg/kg (pure substance)
- EC-Index-No.: 019-002-00-8
- ADR: 8 C5 II UN 1814

- IMDG: 8 II UN 1814
- IATA/ICAO: 8 II UN 1814
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 20 90 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
PO02811000	1 l	Ø
PO0281005P	5 l	⊞
PO0281010C	10 l	⊞

PO0283 Potassium hydroxide, solution 0,23 mol/l (0,23 N), for determination of crude fibre, according to Weende

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 1 g/cm³
- LD 50 (oral, rat): 273 mg/kg (pure substance)
- EC-Index-No.: 019-002-00-8
- ADR: 8 C5 III UN 1814

- IMDG: 8 III UN 1814
- IATA/ICAO: 8 III UN 1814
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2815 20 90 00

- Applications: analytical chemistry (for determination of raw fibre, according to Weende).

Art. No.	Volume	Container
PO02831000	1 l	Ø
PO0283005P	5 l	⊞
PO0283010C	10 l	⊞

PO0282 Potassium hydroxide, solution 0,1 mol/l (0,1 N)

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 1,01 g/cm³
- Boiling point: ~ 100 °C
- LD 50 (oral, rat): 273 mg/kg (pure substance)
- EC-Index-No.: 019-002-00-8

- ADR: 8 C5 III UN 1814
- IMDG: 8 III UN 1814
- IATA/ICAO: 8 III UN 1814
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2815 20 90 00

- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
PO02821000	1 l	Ø
PO0282005P	5 l	⊞
PO0282010C	10 l	⊞

PO0277 Potassium hydroxide, concentrated solution to prepare 1 l of solution 1 mol/l (1 N)

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 1,58 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 273 mg/kg (pure substance)
- EC-Index-No.: 019-002-00-8

- ADR: 8 C5 II UN 1814
- IMDG: 8 II UN 1814
- IATA/ICAO: 8 II UN 1814
- GHS-signal word: Danger
- GHS-H sentences: H314 - H302
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 20 90 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
PO027700PA	u.	Ø

PO0276 Potassium hydroxide, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,1 N)

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 1,09 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 273 mg/kg (pure substance)
- EC-Index-No.: 019-002-00-8

- ADR: 8 C5 II UN 1814
- IMDG: 8 II UN 1814
- IATA/ICAO: 8 II UN 1814
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 20 90 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
PO027600PA	u.	Ø

Potassium hydroxide, volumetric solutions in alcoholic medium

PO0278 Potassium hydroxide, ethanolic solution 0,5 mol/l

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 0,82 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 12 °C
- Ignition temp.: 425 °C

- Vapour pressure: (20 °C) 59 hPa (ethanol)
- LD 50 (oral, rat): 273 mg/kg (KOH)
- EC-Index-No.: 019-002-00-8
- ADR: 3 FC II UN 2924
- IMDG: 3 II UN 2924
- IATA/ICAO: 3 II UN 2924
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314

- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
PO02781000	1 l	Ø

PO0284 Potassium hydroxide, ethanolic solution 0,1 mol/l

- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 0,80 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 11 °C
- Ignition temp.: 425 °C
- LD 50 (oral, rat): 273 mg/kg (KOH)

- EC-Index-No.: 019-002-00-8
- ADR: 3 FC II UN 2924
- IMDG: 3 II UN 2924
- IATA/ICAO: 3 II UN 2924
- GHS-signal word: Danger
- GHS-H sentences: H225 - H315 - H319
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
PO02841000	1 l	Ø
PO0284005P	5 l	⊞

PO0286 Potassium hydroxide, solution 0,5 mol/l (0,5 N) in methanol



- Density: 0,83 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 7 °C
- Ignition temp.: 455 °C (methanol)
- ADR: 3 FTC II UN 3286
- IMDG: 3 II UN 3286
- IATA/ICAO: 3 II UN 3286
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - H314 - H370
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
P002861000	1 l	0

PO0292 Potassium hydroxide, solution 0,1 mol/l (0,1 N) in methanol



- Density:
- Solub. in water: (20 °C): miscible
- Flash pt. 7 °C
- Ignition temp.: 455 °C (methanol)
- LD 50 (oral, rat): 5628 mg/kg (methanol)
- ADR: 3 FTC II UN 3286
- IMDG: 3 II UN 3286
- IATA/ICAO: 3 II UN 3286
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - H370 - H315 - H319
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
P002921000	1 l	0
P00292010C	10 l	0

PO0289 Potassium hydroxide, solution 0,1 mol/l (0,1 N) in 2-propanol



- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 12 °C
- Ignition temp.: ~ 425 °C
- LD 50 (oral, rat): 5045 mg/kg (2-propanol)
- ADR: 3 FC II UN 2924
- IMDG: 3 II UN 2924
- IATA/ICAO: 3 II UN 2924
- GHS-signal word: Danger
- GHS-H sentences: H225 - H315 - H319 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3814 00 90 99
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
P002891000	1 l	0

PO0293 Potassium hydroxide, solution 0,05 mol/l (0,05 N) in 2-propanol



- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 12 °C
- Ignition temp.: ~ 425 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3814 00 90 99

Art. No.	Volume	Container
P002931000	1 l	0

PO0294 Potassium hydroxide, solution 0,01 mol/l (0,01 N) in 2-propanol



- KOH
- M = 56,11 g/mol
- CAS [1310-58-3]
- EINECS-No.: 215-181-3
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 12 °C
- Ignition temp.: ~ 425 °C
- ADR: 3 F1 II UN 1993
- IMDG: 3 II UN 1993
- IATA/ICAO: 3 II UN 1993
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3814 00 90 99

Art. No.	Volume	Container
P002941000	1 l	0

Potassium iodate

- KIO₃
- M = 214,00 g/mol
- CAS [7758-05-6]
- EINECS-No.: 231-831-9
- Solub. in water: (20 °C): soluble
- Melting point: 560 °C
- ADR: 5.1 O2 II UN 1479
- IMDG: 5.1 II UN 1479
- IATA/ICAO: 5.1 II UN 1479
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2829 90 80 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis (oxidizing agent), in food industry.
- Appearance: Off-white crystalline powder

PO0401 Potassium iodate, extra pure



assay (iodometric, on dried sample)99 - 101 %

Art. No.	Volume	Container
P004010100	100 g	0
P004010250	250 g	0
P004011000	1 kg	0

Art. No.	Volume	Container
P00401005P	5 kg	0
P00401025P	25 kg	0

PO0400 Potassium iodate, reagent grade, ACS, ISO, Reag. Ph Eur



assay (iodometric)99,7 - 100,4 %

Art. No.	Volume	Container
P004000100	100 g	0
P004000250	250 g	0

Art. No.	Volume	Container
P004001000	1 kg	0

PO0404 Potassium iodate, secondary standard for volumetric titrations, Titasure®



assay (on dried sample)99,4 - 100,4 %

Art. No.	Volume	Container
P004040100	100 g	0

Potassium iodide

- Synonyms: Knollide
- KI
- M = 166,01 g/mol
- CAS [7681-11-0]
- EINECS-No.: 231-659-4
- Solub. in water: (20 °C): soluble
- Melting point: 686 °C
- Boiling point: 1330 °C
- Vapour pressure: (745 °C) 1,3 hPa
- LD 50 (oral, rat): 2779 mg/kg
- Tariff number: 2827 60 00 90
- Applications: analytical chemistry, laboratory reagent, emulsifier (photography).

PO0411 Potassium iodide, extra pure, Pharpur®, Ph Eur, BP, USP

assay (argentometric, on dried sample)99,0 - 101,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
PO04110100	100 g	Ⓟ	PO04111000	1 kg	Ⓟ
PO04110250	250 g	Ⓟ	PO0411005P	5 kg	Ⓟ
PO04110500	500 g	Ⓟ			

PO0410 Potassium iodide, reagent grade, ACS, ISO, Reag. Ph Eur

assay (argentometric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PO04100250	250 g	Ⓟ	PO04101000	1 kg	Ⓟ
PO04100500	500 g	Ⓟ	PO0410005P	5 kg	Ⓟ

Potassium iodide, solution 15%

PO0415 Potassium iodide, solution 15% w/v, extra pure

- Synonyms: Knollide
- KI
- M = 166,01 g/mol
- CAS [7681-11-0]
- EINECS-No.: 231-659-4
- Tariff number: 2827 60 00 90
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
PO0415G100	100 ml	Ⓟ
PO04151000	1 l	Ⓟ

Potassium nitrate

- Synonyms: Nitric acid potassium salt, Saltpeter
- KNO₃
- M = 101,11 g/mol
- CAS [7757-79-1]
- EINECS-No.: 231-818-8
- Solub. in water: (20 °C): 320 g/l
- Melting point: 334 °C
- LD 50 (oral, rat): 3750 mg/kg
- ADR: 5.1 O2 III UN 1486
- IMDG: 5.1 III UN 1486
- IATA/ICAO: 5.1 III UN 1486
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2834 21 00 00
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, in pyrotechnics, manufacture of glass, in food industry.

PO0279 Potassium nitrate, technical grade

Art. No.	Volume	Container	Art. No.	Volume	Container
PO02790500	500 g	Ⓟ	PO0279005P	5 kg	Ⓟ
PO02791000	1 kg	Ⓟ	PO0279025P	25 kg	Ⓟ

PO0285 Potassium nitrate, extra pure, Pharpur®, Ph Eur, BP, USP

assay (acidimetric, on dried sample)99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
PO02850500	500 g	Ⓟ	PO0285005P	5 kg	Ⓟ
PO02851000	1 kg	Ⓟ	PO0285025P	25 kg	Ⓟ

PO0287 Potassium nitrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PO02870500	500 g	Ⓟ	PO0287005P	5 kg	Ⓟ
PO02871000	1 kg	Ⓟ			

Potassium nitrite

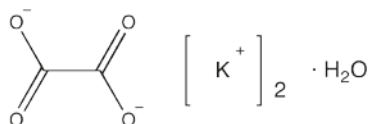
PO0290 Potassium nitrite, crystallized, reagent grade, ACS

- Synonyms: Nitrous acid potassium salt
- KNO₂
- M = 85,11 g/mol
- CAS [7758-09-0]
- EINECS-No.: 231-832-4
- Solub. in water: (20 °C): soluble
- Melting point: 440 °C
- EC-Index-No.: 007-011-00-X
- ADR: 5.1 O2 II UN 1488
- IMDG: 5.1 II UN 1488
- IATA/ICAO: 5.1 II UN 1488
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H400
- GHS-P sentences: P221 - P210 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2834 10 00 00
- Applications: analytical chemistry, laboratory reagent, in food industry, preservative agent (E-249), for determination of: aminoacids, cobalt, iodine, urea.

assay (permanganometric)min. 97 %

Art. No.	Volume	Container
PO02900250	250 g	Ⓟ
PO02900500	500 g	Ⓟ

di-Potassium oxalate monohydrate



- Synonyms: Oxalic acid dipotassium salt monohydrate
- $K_2C_2O_4 \cdot H_2O$
- $M = 184,24 \text{ g/mol}$
- CAS [6487-48-5]
- EINECS-No.: 209-506-8
- Solub. in water: (20 °C): 360 g/l
- EC-Index-No.: 607-007-00-3
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312
- GHS-P sentences: P280 - P322 - P301 + P312 - P312 - P363 - P501a
- Tariff number: 2917 11 00 99
- Applications: analytical chemistry, for determination of: manganese.
- Appearance: Colourless solid

PO0309 di-Potassium oxalate monohydrate, extra pure

assay (permanganometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003090500	500 g	⊘	P00309005P	5 kg	⊘
P003091000	1 kg	⊘			

PO0310 di-Potassium oxalate monohydrate, reagent grade, ACS

assay (permanganometric) 99,5 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003100500	500 g	⊘	P00310005P	5 kg	⊘
P003101000	1 kg	⊘	P00310025P	25 kg	⊘

Potassium perchlorate

- Synonyms: Peroidin, Perchloracap
- $KClO_4$
- $M = 138,55 \text{ g/mol}$
- CAS [7778-74-7]
- EINECS-No.: 231-912-9
- Solub. in water: (20 °C): 17 g/l
- Melting point: 610 °C
- EC-Index-No.: 017-008-00-5
- ADR: 5.1 O2 II UN 1489
- IMDG: 5.1 II UN 1489
- IATA/ICAO: 5.1 II UN 1489
- GHS-signal word: Danger
- GHS-H sentences: H271 - H302
- GHS-P sentences: P221 - P283 - P210 - P306 + P360 - P371 + P380 + P375 - P501a
- Tariff number: 2829 90 10 00
- Applications: analytical chemistry, laboratory reagent, in explosive compositions, in pyrotechnics, photography.

PO0319 Potassium perchlorate, extra pure, Pharmpur®, Ph Eur

assay (argentometric, on dried sample)99 - 102 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
P003190500	500 g	⊘	P00319005P	5 kg	⊘
P003191000	1 kg	⊘			

PO0320 Potassium perchlorate, reagent grade, ACS

assay (argentometric)99,5 - 100,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003200500	500 g	⊘	P003201000	1 kg	⊘

Potassium metaperiodate

PO0340 Potassium metaperiodate, reagent grade, ACS

- Synonyms: Potassium tetroxiodate
- KIO_4
- $M = 230,00 \text{ g/mol}$
- CAS [7790-21-8]
- EINECS-No.: 232-196-0
- Solub. in water: (20 °C): 7 g/l
- Melting point: 581 °C
- ADR: 5.1 O2 II UN 1479
- IMDG: 5.1 II UN 1479
- IATA/ICAO: 5.1 II UN 1479
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2829 90 80 00
- Applications: synthesis of organic products, oxidizing agent, for colourimetric determinations (manganese).
- Appearance: White-fine crystalline powder

assay (iodometric, on dried sample)99,8 - 100,3 %

Art. No.	Volume	Container
P003400100	100 g	⊘
P003400250	250 g	⊘

Potassium permanganate

- Synonyms: Permanganic acid potassium salt
- $KMnO_4$
- $M = 158,04 \text{ g/mol}$
- CAS [7722-64-7]
- EINECS-No.: 231-760-3
- Solub. in water: (20 °C): 64 g/l
- Melting point: > 240 °C (decomposes)
- Vapour pressure: (20 °C) < 0,01 hPa
- LD 50 (oral, rat): 1090 mg/kg
- EC-Index-No.: 025-002-00-9
- ADR: 5.1 O2 II UN 1490
- IMDG: 5.1 II UN 1490
- IATA/ICAO: 5.1 II UN 1490
- GHS-signal word: Danger
- GHS-H sentences: H272 - H410 - H302
- GHS-P sentences: P221 - P210 - P220 - P280 - P301 + P312 - P501a
- Tariff number: 2841 61 00 00
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, bleaching agent, photography, antiseptic.
- Appearance: Dark-brown black crystalline powder

PO0330 Potassium permanganate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (iodometric) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
P003300500	500 g	⊘	P00330005P	5 kg	⊘
P003301000	1 kg	⊘	P00330025P	25 kg	⊘

P00331 Potassium permanganate, reagent grade, ACS, ISO, Reag. Ph Eur



assay (permanganometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003310500	500 g	Ⓟ	P00331005P	5 kg	Ⓟ
P003311000	1 kg	Ⓟ	P00331025P	25 kg	Ⓟ

Potassium permanganate, volumetric solutions

P00335 Potassium permanganate, solution 0,2 mol/l (1 N)



- KMnO_4
- M = 158,04 g/mol
- CAS [7722-64-7]
- EINECS-No.: 231-760-3
- Density: 1,02 g/cm³
- EC-Index-No.: 025-002-00-9
- ADR: 9 M6 III UN 3082
- IMDG: 9 III UN 3082
- IATA/ICAO: 9 III UN 3082
- GHS-H sentences: H411
- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 2841 61 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
P003351000	1 l	Ⓟ

P00336 Potassium permanganate, solution 0,02 mol/l (0,1 N)

- KMnO_4
- M = 158,04 g/mol
- CAS [7722-64-7]
- EINECS-No.: 231-760-3
- Density: 1,01 g/cm³
- EC-Index-No.: 025-002-00-9
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 2841 61 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
P003360100	100 ml	Ⓟ
P003361000	1 l	Ⓟ
P003362500	2,5 l	Ⓟ

P00333 Potassium permanganate, concentrated solution to prepare 1 l of solution 0,02 mol/l (0,1 N)



- KMnO_4
- M = 158,04 g/mol
- CAS [7722-64-7]
- EINECS-No.: 231-760-3
- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 9 M6 III UN 3082
- IMDG: 9 III UN 3082
- IATA/ICAO: 9 III UN 3082
- GHS-H sentences: H411
- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 2841 61 00 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
P0033300GA	u.	Ⓟ

Potassium peroxodisulfate

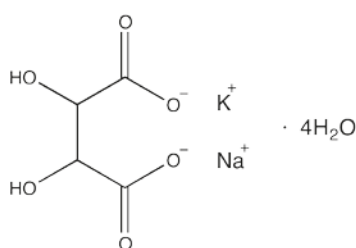
P00350 Potassium peroxodisulfate, extra pure, Reag. Ph Eur



- Synonyms: Potassium persulfate, Peroxydisulfuric acid dipotassium salt
- $\text{K}_2\text{S}_2\text{O}_8$
- M = 270,33 g/mol
- CAS [7727-21-1]
- EINECS-No.: 231-781-8
- Solub. in water: (20 °C): 47 g/l
- Melting point: 100 °C (decomposes)
- LD 50 (oral, rat): 802 mg/kg
- ADR: 5.1 O2 III UN 1492
- IMDG: 5.1 III UN 1492
- IATA/ICAO: 5.1 III UN 1492
- GHS-signal word: Danger
- GHS-H sentences: H334 - H272 - H302 - H335 - H315 - H319 - H317
- GHS-P sentences: P221 - P210 - P285 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2833 40 00 10
- Applications: analytical chemistry, laboratory reagent, cosmetics, photography
- Appearance: White crystalline powder
- assay (iodometric)min. 98 %

Art. No.	Volume	Container
P003500500	500 g	Ⓟ
P003501000	1 kg	Ⓟ
P00350005P	5 kg	Ⓟ

Potassium sodium tartrate tetrahydrate



- Synonyms: Sodium potassium tartrate, Tartaric acid potassium sodium salt
- $\text{C}_4\text{H}_4\text{KNaO}_6 \cdot 4\text{H}_2\text{O}$
- M = 282,23 g/mol
- CAS [6381-59-5]
- EINECS-No.: 205-698-2
- Solub. in water: (20 °C): 630 g/l
- Melting point: 70 - 80 °C
- Tariff number: 2918 13 00 00
- Applications: analytical chemistry, laboratory reagent, in food industry, in fertilizer compositions, in the electronic industry.

P00353 Potassium sodium tartrate tetrahydrate, extra pure, Ph Eur, BP, USP

assay (titration with HClO_4 , on dried sample)99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

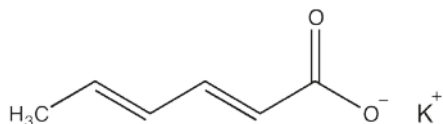
Art. No.	Volume	Container	Art. No.	Volume	Container
P003530500	500 g	Ⓟ	P00353005P	5 kg	Ⓟ
P003531000	1 kg	Ⓟ	P00353025P	25 kg	Ⓟ

P00355 Potassium sodium tartrate tetrahydrate, reagent grade, ACS, ISO

assay (titration with HClO_4) 99 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003550250	250 g	Ⓟ	P003551000	1 kg	Ⓟ
P003550500	500 g	Ⓟ	P00355005P	5 kg	Ⓟ

Potassium sorbate



- Synonyms: Sorbic acid potassium salt
- $C_6H_7KO_2$
- $M = 150,22 \text{ g/mol}$
- CAS [24634-61-5]
- EINECS-No.: 246-376-1
- Solub. in water: (20 °C): soluble
- Melting point: ~ 270 °C (decomposes)
- LD 50 (oral, rat): 3800 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2916 19 95 90
- Applications: in food industry (E202), mold and yeast inhibitor, in pharma industry.

PO0360 Potassium sorbate, extra pure, Pharmpur®, Ph Eur, BP, NF

assay (acidimetric, on dried sample) 98 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003600500	500 g	⊖	P00360005P	5 kg	⊖
P003601000	1 kg	⊖	P00360025P	25 kg	⊖

PO0361 Potassium sorbate, powder, Pharmpur®, Ph Eur, NF, GMP, suitable for use as excipient

assay (acidimetric, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
P003611000	1 kg	⊖
P00361025P	25 kg	⊖

Potassium sulfate

- Synonyms: Sulfuric acid potassium salt
- K_2SO_4
- $M = 174,27 \text{ g/mol}$
- CAS [7778-80-5]
- EINECS-No.: 231-915-5

- Solub. in water: (20 °C): 110 g/l
- Melting point: 1069 °C
- Boiling point: 1689 °C
- LD 50 (oral, rat): 6600 mg/kg
- Tariff number: 3104 30 00 00

- Applications: analytical chemistry, laboratory reagent, for determination of: nitrogen (Kjeldahl), in fertilizer compositions, manufacture of glass.

PO0363 Potassium sulfate, extra pure, Pharmpur®, Ph Eur, BP

assay (acidimetric, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
P003630500	500 g	⊖	P00363005P	5 kg	⊖
P003631000	1 kg	⊖	P00363025P	25 kg	⊖

PO0366 Potassium sulfate, crystallized, Pharmpur®, Ph Eur, GMP, suitable for use as excipient

assay (acidimetric, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
P003661000	1 kg	⊖	P00366025P	25 kg	⊖

PO0365 Potassium sulfate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003650250	250 g	⊖	P003651000	1 kg	⊖
P003650500	500 g	⊖	P00365005P	5 kg	⊖

Potassium tellurite hydrate

PO0380 Potassium tellurite hydrate, for bacteriology

- $K_2TeO_3 \cdot xH_2O$
- $M = 253,79 \text{ g/mol}$
- CAS [123333-66-4]
- EINECS-No.: 232-213-1
- Solub. in water: (20 °C): soluble
- Melting point: 460 - 470 °C (decomposes)
- ADR: 6.1 T5 II UN 3284
- IMDG: 6.1 II UN 3284

- IATA/ICAO: 6.1 II UN 3284
- GHS-signal word: Danger
- GHS-H sentences: H301 - H315 - H319
- GHS-P sentences: P280 - P301 + P310 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2842 90 10 00
- Applications: for microbiology, for the detection of bacteria.

- Appearance: Off-white powder

Art. No.	Volume	Container
P003800025	25 g	⊖
P003800250	250 g	⊖
P003801000	1 kg	⊖

Potassium thiocyanate

- Synonyms: Potassium sulfocyanate, Potassium rhodanide, Potassium sulfocyanide
- KSCN
- $M = 97,18 \text{ g/mol}$
- CAS [333-20-0]
- EINECS-No.: 206-370-1
- Solub. in water: (20 °C): soluble

- Melting point: 175 °C
- Boiling point: 500 °C (decomposes)
- LD 50 (oral, rat): 854 mg/kg
- EC-Index-No.: 615-004-00-3
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332 - H412 - EUH032

- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2842 90 80 80
- Applications: in the textile industry, photography, analytical chemistry.

PO0369 Potassium thiocyanate, extra pure

assay (argentometric) min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
P003690500	500 g	⊖	P00369005P	5 kg	⊖
P003691000	1 kg	⊖	P00369025P	25 kg	⊖

PO0370 Potassium thiocyanate, reagent grade, ACS, ISO, Reag. Ph Eur



assay (argentometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PO03700500	500 g	Ⓟ	PO0370005P	5 kg	Ⓟ
PO03701000	1 kg	Ⓟ	PO0370025P	25 kg	Ⓟ

Potassium thiocyanate, solution 5%

PO0372 Potassium thiocyanate, solution 5% w/v

- Synonyms: Potassium sulfocyanate, Potassium rhodanide
- KSCN
- M = 97,18 g/mol
- CAS [333-20-0]
- EINECS-No.: 206-370-1
- Density: 1,022 g/cm³

- LD 50 (oral, rat): 854 mg/kg (pure substance)
- EC-Index-No.: 615-004-00-3
- GHS-H sentences: EUH210
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, for determination of: iron.

Art. No.	Volume	Container
PO03720250	250 ml	Ⓟ
PO03720500	500 ml	Ⓟ
PO03721000	1 l	Ⓟ

Potassium thiocyanate, volumetric solutions

PO0375 Potassium thiocyanate, solution 0,1 mol/l (0,1 N)

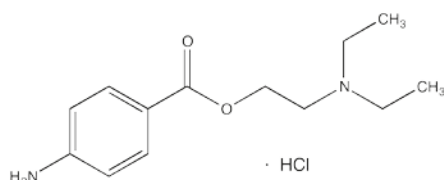
- KSCN
- M = 97,18 g/mol
- CAS [333-20-0]
- EINECS-No.: 206-370-1
- Density: 1,00 g/cm³

- LD 50 (oral, rat): 854 mg/kg (pure substance)
- EC-Index-No.: 615-004-00-3
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, for determination of: iron.

Art. No.	Volume	Container
PO03751000	1 l	Ⓟ

Procaine hydrochloride

PR0025 Procaine hydrochloride, extra pure, Pharmapur®, Ph Eur, BP, USP



- Synonyms: 2-Diethylamino-4-amino-benzoate hydrochloride
- C₁₃H₂₀N₂O₂·HCl
- M = 272,78 g/mol
- CAS [51-05-8]
- EINECS-No.: 200-077-2
- Solub. in water: (20 °C): soluble
- Melting point: 155 - 157 °C
- LD 50 (oral, rat): 200 mg/kg
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H301

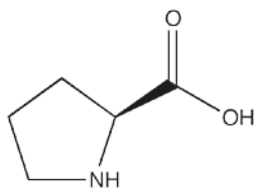
- GHS-P sentences: P264 - P270 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2922 49 95 90
- Applications: in the pharmaceuticals industry, in pharma industry.
- Appearance: Colourless to white crystals

assay (acidimetric, on dried sample)99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PR00250100	100 g	Ⓟ

L-Proline

PR0055 L-Proline, extra pure, Pharmapur®, Ph Eur, BP, USP

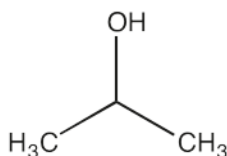


- Synonyms: 2-Pyrrolidine carboxylic acid
- C₅H₉NO₂
- M = 115,13 g/mol
- CAS [147-85-3]
- EINECS-No.: 205-702-2
- Solub. in water: (20 °C): 1500 g/l
- Melting point: 220 - 222 °C
- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 2933 99 90 90
- Applications: in biochemistry, chromatography, synthesis of organic products, in pharma industry.

assay (titration with HClO₄, on dried sample)98,5 - 101,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PR00550010	10 g	Ⓟ
PR00550100	100 g	Ⓟ

2-Propanol



- Synonyms: Isopropyl alcohol, Isopropanol, iso-Propanol, Dimethylcarbinol, 2-Hydroxypropane
- C₃H₈O
- M = 60,10 g/mol
- CAS [67-63-0]
- EINECS-No.: 200-661-7
- Density: 0,78 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -89,5 °C
- Boiling point: 82,4 °C
- Flash pt. 12 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) 43 hPa

- Dielectric const.: (25 °C) 18,3
- LD 50 (oral, rat): 5045 mg/kg
- EC-Index-No.: 603-117-00-0
- ADR: 3 F1 II UN 1219
- IMDG: 3 II UN 1219
- IATA/ICAO: 3 II UN 1219
- GHS-signal word: Danger
- GHS-H sentences: H225 - H319 - H336
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2905 12 00 00
- Applications: solvents, in antifreeze compositions, cosmetics.

Propan

AL0310 2-Propanol, synthesis grade

assay (G.C.)	min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		AL03101000	1 l	Ø	AL0310025P	25 l	Ø
		AL03102500	2,5 l	Ø	AL0310025S	25 l	Ø
		AL0310005P	5 l	Ø	AL0310200L	200 l	Ø

AL0311 2-Propanol, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (G.C.)	min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
residue on evaporation	max. 0,001 %	AL03111000	1 l	Ø	AL0311025P	25 l	Ø
water (K.F.)	max. 0,2 %	AL03112500	2,5 l	Ø	AL0311025S	25 l	Ø
		AL0311005P	5 l	Ø	AL0311200L	200 l	Ø
		AL0311025A	25 l	Ø			

AL0312 2-Propanol, reagent grade, ACS, ISO, Reag. Ph Eur

assay (G.C.)	min. 99,8 %	Art. No.	Volume	Container	Art. No.	Volume	Container
residue on evaporation	max. 0,001 %	AL03121000	1 l	Ø	AL0312025P	25 l	Ø
water (K.F.)	max. 0,05 %	AL03122500	2,5 l	Ø	AL0312025S	25 l	Ø
		AL0312005P	5 l	Ø	AL0312030S	30 l	Ø
		AL0312007E	7 l	Ø	AL0312200L	200 l	Ø
		AL0312010C	10 l	Ø			

AL0316 2-Propanol, dried (max. 0,01% H₂O), reagent grade, ACS, ISO

assay (G.C.)	min. 99,8 %	Art. No.	Volume	Container	Art. No.	Volume	Container
		AL03161000	1 l	Ø	AL03162500	2,5 l	Ø

AL0321 2-Propanol, Multisolvant® HPLC grade ACS ISO UV -VIS

assay (G.C.)	min. 99,8 %	Microfiltered through membranes of pore diameter 0,22µm	Art. No.	Volume	Container
residue on evaporation	max. 0,0002 %		AL03211000	1 l	Ø
water (K.F.)	max. 0,05 %		AL03212500	2,5 l	Ø
min. transmission/max. absorbance in a 1,0 cm cell at wavelength:			AL03214000	4 l	Ø
207 nm.	10 %	1,000 AU	AL0321007E	7 l	Ø
217 nm.	50 %	0,301 AU	AL0321025S	25 l	Ø
232 nm.	80 %	0,097 AU	AL0321030S	30 l	Ø
242 nm.	90 %	0,046 AU	AL0321185E	185 l	Ø
260 nm.	98 %	0,009 AU			

AL0315 2-Propanol, gradient HPLC grade

assay (G.C.)	min. 99,9 %	min. transmission/max. absorbance in a 1,0 cm cell at wavelength:	T(%)	A (AU)	Art. No.	Volume	Container
residue on evaporation	max. 0,0001 %	210 nm.	20 %	0,699 AU	AL03151000	1 l	Ø
water (K.F.)	max. 0,05 %	215 nm.	50 %	0,301 AU	AL03152500	2,5 l	Ø
gradient grade (240 nm)		240 nm.	90 %	0,046 AU	AL03154000	4 l	Ø
maximum background absorbance:0,025 AU					AL0315007E	7 l	Ø
maximum peak absorbance:0,002 AU		Microfiltered through membranes of pore diameter 0,22µm suitable for UPLC					

AL0326 2-Propanol, LC-MS

assay (G.C.)	min. 99,9 %	water (K.F.)	max. 0,05 %	Art. No.	Volume	Container
potassium (K)	max. 0,00001 %	suitability for use in LC-MS.	passes test	AL03261000	1 l	Ø
sodium (Na)	max. 0,00001 %	Microfiltered through membranes of pore diameter 0,22µm		AL03262500	2,5 l	Ø
residue on evaporation	max. 0,0005 %					

AL0319 2-Propanol, for GC residue analysis

assay (G.C.)	min. 99,8 %	Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.	Art. No.	Volume	Container
residue on evaporation	max. 0,0001 %		AL03191000	1 l	Ø
water (K.F.)	max. 0,05 %		AL03192500	2,5 l	Ø

AL0317 2-Propanol, 99,8%, anhydrous (max. 0,005% H₂O)

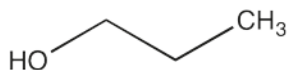
assay (G.C.)	min. 99,8 %	Art. No.	Volume	Container	Art. No.	Volume	Container
water (K.F.)	max. 0,005 %	AL03170500	500 ml	Ø	AL03171000	1 l	Ø

AL0324 2-Propanol, 99,5%, anhydrous (max. 0,005% H₂O), with molecular sieves

assay (G.C.)	min. 99,5 %	Art. No.	Volume	Container
water (K.F.)	max. 0,005 %	AL03241000	1 l	Ø

AL0322 2-Propanol, VLSI grade


Art. No.	Volume	Container	Art. No.	Volume	Container
AL03221000	1 l	Ø	AL03222500	2,5 l	Ø

1-Propanol


- Synonyms: n-Propyl alcohol, Ethylcarbinol, 1-Hydroxypropane, n-Propanol
- C₃H₈O
- M = 60,10 g/mol
- CAS [71-23-8]
- EINECS-No.: 200-746-9
- Density: 0,80 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -127 °C
- Boiling point: 96,5 - 98 °C
- Flash pt. 15 °C
- Ignition temp.: 405 °C
- Vapour pressure: (20 °C) 19 hPa
- Dielectric const.: (25 °C) 20,1
- LD 50 (oral, rat): 1870 mg/kg
- EC-Index-No.: 603-003-00-0
- ADR: 3 F1 II UN 1274
- IMDG: 3 II UN 1274
- IATA/ICAO: 3 II UN 1274
- GHS-signal word: Danger
- GHS-H sentences: H225 - H318 - H336
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2905 12 00 00
- Applications: analytical chemistry, solvents.

AL0436 1-Propanol, extra pure, Pharpur®, Ph Eur


assay (G.C.)min. 99 %
 residue on evaporationmax. 0,001 %
 water (K.F.)max. 0,2 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AL04361000	1 l	Ø	AL0436025A	25 l	Ø
AL04362500	2,5 l	Ø	AL0436200L	200 l	Ø
AL0436005P	5 l	Ø			

AL0437 1-Propanol, reagent grade


assay (G.C.)min. 99,5 %
 residue on evaporationmax. 0,0005 %
 water (K.F.)max. 0,05 %

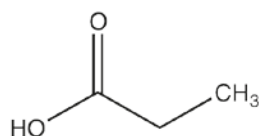
Art. No.	Volume	Container	Art. No.	Volume	Container
AL04371000	1 l	Ø	AL0437005P	5 l	Ø
AL04372500	2,5 l	Ø			

AL0438 1-Propanol, HPLC grade


assay (G.C.)min. 99,9 %
 residue on evaporationmax. 0,0002 %
 water (K.F.)max. 0,05 %

min. transmission/max. absorbance
 wavelength: T(%) A (AU)
 210 nm. 20 % 0,699 AU
 220 nm. 50 % 0,301 AU
 250 nm. 90 % 0,046 AU
 Microfiltered through membranes of pore diameter
 0,22µm

Art. No.	Volume	Container
AL04381000	1 l	Ø
AL04382500	2,5 l	Ø

Propionic acid


- Synonyms: Methyl acetic acid
- C₃H₆O₂
- M = 74,08 g/mol
- CAS [79-09-4]
- EINECS-No.: 201-176-3
- Density: 0,99 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -22 °C
- Boiling point: 140 - 142 °C
- Flash pt. 49 °C
- Ignition temp.: 485 °C
- Vapour pressure: (20 °C) 2,9 hPa
- Refraction index: (n 20 °C/D) 1,386
- LD 50 (oral, rat): 2600 mg/kg
- EC-Index-No.: 607-089-00-0
- ADR: 8 CF1 II UN 3463
- IMDG: 8 II UN 3463
- IATA/ICAO: 8 II UN 3463
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 50 00 00
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, for the synthesis of: esters, solvents, perfumery.

AC1891 Propionic acid, extra pure


assay (acidimetric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC18911000	1 l	Ø	AC1891005P	5 l	Ø
AC18912500	2,5 l	Ø	AC1891025P	25 l	Ø

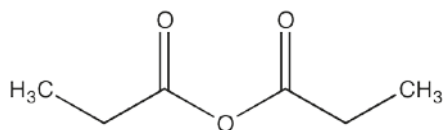
AC1894 Propionic acid, reagent grade, ACS, Reag. Ph Eur


assay (acidimetric)min. 99,7 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC18941000	1 l	Ø	AC18942500	2,5 l	Ø

Propionic anhydride

AN0300 Propionic anhydride, synthesis grade



- $C_6H_{10}O_3$
- $M = 130,14$ g/mol
- CAS [123-62-6]
- EINECS-No.: 204-638-2
- Density: 1,01 g/cm³
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: -45 °C
- Boiling point: 167 °C
- Flash pt. 64 °C
- Ignition temp.: 285 °C
- Vapour pressure: (21 °C) 1,3 hPa
- Refraction index: (n 20 °C/D) 1,404
- LD 50 (oral, rat): 2360 mg/kg
- EC-Index-No.: 607-010-00-X
- ADR: 8 C3 III UN 2496
- IMDG: 8 III UN 2496

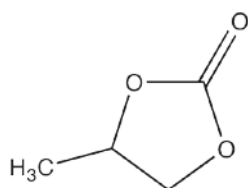
- IATA/ICAO: 8 III UN 2496
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2917 19 90 90
- Applications: synthesis of organic products, perfumery, manufacture of dyes, in the production of alkyd resins.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
AN03000500	500 ml	Ø
AN03001000	1 l	Ø

Propylene carbonate

CA0370 Propylene carbonate, extra pure



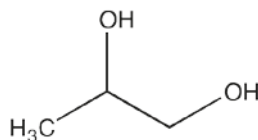
- Synonyms: 4-Methyl-1,3-dioxolan-2-one
- $C_5H_6O_3$
- $M = 102,09$ g/mol
- CAS [108-32-7]
- EINECS-No.: 203-572-1
- Density: ---
- Solub. in water: (20 °C): 240 g/l
- Melting point: -49 °C
- Boiling point: 242 °C
- Flash pt. 123 °C
- Ignition temp.: 510 °C
- Vapour pressure: (20 °C) 0,03 hPa
- Dielectric const.: (25 °C) 6,51
- LD 50 (oral, rat): 34920 mg/kg

- EC-Index-No.: 607-194-00-1
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2920 90 10 90
- Applications: analytical chemistry, solvents, chromatography, for organic trace analysis.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
CA03701000	1 l	Ø

1,2-Propylene glycol



- Synonyms: 1,2-Propanediol, 1,2-Dihydroxypropane
- $C_3H_8O_2$
- $M = 76,10$ g/mol
- CAS [57-55-6]
- EINECS-No.: 200-338-0
- Density: 1,04 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -59 °C
- Boiling point: 188 °C

- Ignition temp.: 371 °C
- Vapour pressure: (20 °C) 0,11 hPa
- Refraction index: (n 20 °C/D) 1,43
- LD 50 (oral, rat): 19400 - 36000 mg/kg
- Tariff number: 2905 32 00 00
- Applications: in antifreeze compositions, for pharmaceuticals synthesizing, emulsifier, manufacturing of synthetic resins.

PR0085 1,2-Propylene glycol, extra pure, Pharpur®, Ph Eur, BP, USP

assay (G.C.) min. 99,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
PR00851000	1 l	Ø	PR0085005P	5 l	Ø
PR00852500	2,5 l	Ø	PR0085025P	25 l	Ø

PR0088 1,2-Propylene glycol, reagent grade, Reag. Ph Eur

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PR00881000	1 l	Ø	PR0088025P	25 l	Ø
PR00882500	2,5 l	Ø			

Pumice stone

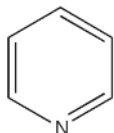
PI0010 Pumice stone, granulated

- CAS [1332-09-8]
- Solub. in water: (20 °C): insoluble
- Tariff number: 2513 19 00 00
- Applications: abrasive, in the pharmaceuticals industry (Filter), cosmetics.

additive regulator of boiling

Art. No.	Volume	Container
PI00100500	500 g	Ø
PI0010005P	5 kg	Ø

Pyridine



- C₅H₅N
- M = 79,10 g/mol
- CAS [110-86-1]
- EINECS-No.: 203-809-9
- Density: 0,98 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -42 °C
- Boiling point: 115 °C
- Flash pt. 17 °C
- Ignition temp.: 550 °C
- Vapour pressure: (20 °C) 20 hPa
- Refraction index: (n 20 °C/D) 1,5092
- Dielectric const.: (25 °C) 12,3

- LD 50 (oral, rat): 891 mg/kg
- EC-Index-No.: 613-002-00-7
- ADR: 3 F1 II UN 1282
- IMDG: 3 II UN 1282
- IATA/ICAO: 3 II UN 1282
- GHS-signal word: Danger
- GHS-H sentences: H225 - H302 - H312 - H332
- GHS-P sentences: P210 - P241 - P261 - P280 - P303 + P361 + P353 - P501a
- Tariff number: 2933 31 00 00
- Applications: solvents, synthesis of organic products, analytical chemistry.

PI0120 Pyridine, synthesis grade



assay (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PI01201000	1 l	0	PI0120005L	5 l	5
PI01202500	2,5 l	0	PI0120025L	25 l	1

PI0121 Pyridine, extra pure



assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PI01211000	1 l	0	PI0121005L	5 l	5
PI01212500	2,5 l	0			

PI0123 Pyridine, reagent grade, ACS, Reag. Ph Eur



assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PI01231000	1 l	0	PI01232500	2,5 l	0

PI0124 Pyridine, dried (max. 0,01% H₂O), reagent grade



assay (G.C.)min. 99,5 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container
PI01241000	1 l	0

PI0125 Pyridine, 99,5%, anhydrous (max. 0,005% H₂O)



assay (G.C.)min. 99,5 %
water (K.F.)max. 0,005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
PI01250100	100 ml	0	PI01251000	1 l	0
PI01250500	500 ml	0			

PI0126 Pyridine, 99,5%, anhydrous (max. 0,005% H₂O), with molecular sieves

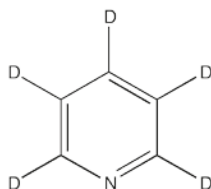


assay (G.C.)min. 99,5 %
water (K.F.)max. 0,005 %

Art. No.	Volume	Container
PI01261000	1 l	0

Pyridine-d₅

PI0132 Pyridine-d₅, deuteration degree min. 99,95%, NMR spectroscopy grade, Spectrosol®



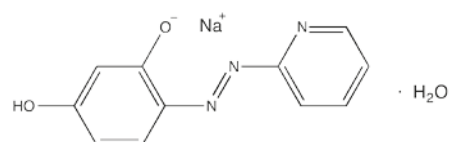
- C₅D₅N
- M = 84,13 g/mol
- CAS [7291-22-7]
- EINECS-No.: 230-720-2
- Density: 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -41 °C
- Boiling point: 114 °C
- Flash pt. 17 °C
- Ignition temp.: ~ 480 °C
- Vapour pressure: (20 °C) 20 hPa
- LD 50 (oral, rat): 891 mg/kg (pyridine)
- ADR: 3 F1 II UN 1282

- IMDG: 3 II UN 1282
- IATA/ICAO: 3 II UN 1282
- GHS-signal word: Danger
- GHS-H sentences: H225 - H302 - H312 - H332
- GHS-P sentences: P210 - P241 - P261 - P280 - P303 + P361 + P353 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
PI01320010	10 ml	0

4-(2-Pyridylazo)-resorcinol, monosodium salt monohydrate

PI0100 4-(2-Pyridylazo)-resorcinol, monosodium salt monohydrate, reagent grade, Reag. Ph Eur



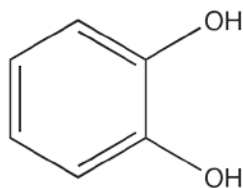
- Synonyms: PAR
- C₁₁H₈N₃NaO₂·H₂O
- M = 255,21 g/mol
- CAS [16593-81-0]
- EINECS-No.: 236-339-8
- Solub. in water: (20 °C): 38 g/l
- Tariff number: 2933 39 99 90
- Applications: analytical chemistry, indicator.

assay (titr. with HClO₄, referred on dried sample).min. 99 %

Art. No.	Volume	Container
PI01000001	1 g	0
PI01000005	5 g	0

Pyrocatechol

PI0150 Pyrocatechol, synthesis grade



- Synonyms: 1,2-Dihydroxybenzene, Catechol
- $C_6H_6O_2$
- $M = 110,11$ g/mol
- CAS [120-80-9]
- EINECS-No.: 204-427-5
- Solub. in water: (20 °C): 450 g/l
- Melting point: 103 - 105 °C
- Boiling point: 245 °C (decomposes)
- Flash pt. 127 °C
- Vapour pressure: (118 °C) 13 hPa
- LD 50 (oral, rat): 358 mg/kg
- EC-Index-No.: 604-016-00-4
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811

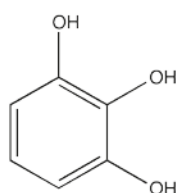
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P322 - P362 - P501a
- Tariff number: 2907 29 00 90
- Applications: synthesis of organic products, laboratory reagent, photography, manufacture of dyes, antiseptic.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
PI01500250	250 g	⊘
PI01501000	1 kg	⊘

Pyrogallol

AC1850 Pyrogallol, synthesis grade



- Synonyms: 1,2,3-Trihydroxybenzene, Pyrogallic acid
- $C_6H_6O_3$
- $M = 126,11$ g/mol
- CAS [87-66-1]
- EINECS-No.: 201-762-9
- Solub. in water: (20 °C): 400 g/l
- Melting point: 131 - 134 °C
- Boiling point: 309 °C
- Vapour pressure: (140 °C) 2 - 4 hPa
- LD 50 (oral, rat): 789 mg/kg
- EC-Index-No.: 604-009-00-6
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Warning

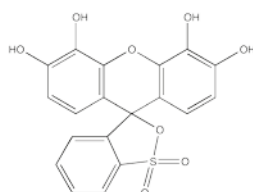
- GHS-H sentences: H341 - H302 - H312 - H332 - H412
- GHS-P sentences: P261 - P280 - P281 - P322 - P405 - P501a
- Tariff number: 2907 29 00 80
- Applications: synthesis of organic products, analytical chemistry, laboratory reagent (antimony and bismuth), photography, solvents (metals), manufacture of dyes.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
AC18500100	100 g	⊘
AC18500250	250 g	⊘

Pyrogallol red

RO0165 Pyrogallol red, indicator for metal titration



- Synonyms: Pyrogallolsulfonphthalein, Pyrogallic acid
- $C_{19}H_{12}O_8S$
- $M = 400,36$ g/mol
- CAS [32638-88-3]
- EINECS-No.: 251-134-3
- Solub. in water: (20 °C): soluble
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator (metals).

Art. No.	Volume	Container
RO01650001	1 g	⊘
RO01650100	100 g	⊘



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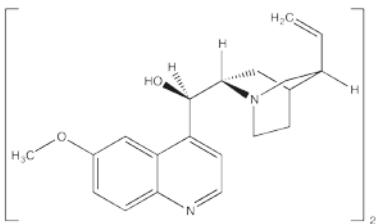
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Quinine sulfate dihydrate

QU0095 Quinine sulfate dihydrate, extra pure, Pharmapur®, Ph Eur, BP, USP



- Synonyms: Quinamm, Quine, Quinate, Quinsam
- $(C_{20}H_{24}N_2O_2)_2 \cdot H_2SO_4 \cdot 2H_2O$
- M = 782,94 g/mol
- CAS [6119-70-6]
- EINECS-No.: 212-359-2
- Solub. in water: (20 °C): ~ 1,2 g/l
- Melting point: 233 - 235 °C
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2939 21 00 00

- Applications: in the pharmaceuticals industry, bactericide, antiseptic, in food industry, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
QU00950025	25 g	0



The wise choice

Laboratory Glassware Scharlau

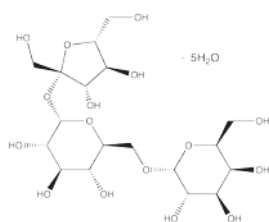


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D(+)-Raffinose pentahydrate

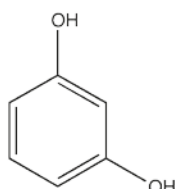
RA0025 D(+)-Raffinose pentahydrate, for bacteriology



- Synonyms: Melitose
- $C_{18}H_{32}O_{16} \cdot 5H_2O$
- M = 594,52 g/mol
- CAS [17629-30-0]
- EINECS-No.: 208-146-9
- Solub. in water: (20 °C): freely soluble
- Melting point: 80 °C
- Tariff number: 2940 00 00 10
- Applications: in biochemistry.

Art. No.	Volume	Container
RA00250025	25 g	0

Resorcinol



Synonyms: 1,3-Dihydroxybenzene
• $C_6H_6O_2$

- M = 110,11 g/mol
- CAS [108-46-3]
- EINECS-No.: 203-585-2
- Solub. in water: (20 °C): soluble
- Melting point: 109 - 111 °C
- Boiling point: (20 hPa) 177 °C
- Flash pt. 127 °C
- Ignition temp.: 605 °C
- Vapour pressure: (20 °C) 0,1 hPa
- LD 50 (oral, rat): 301 mg/kg
- EC-Index-No.: 604-010-00-1
- ADR: 6.1 T2 III UN 2876

- IMDG: 6.1 III UN 2876
- IATA/ICAO: 6.1 III UN 2876
- GHS-signal word: Warning
- GHS-H sentences: H400 - H302 - H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2907 21 00 10
- Applications: analytical chemistry, laboratory reagent (zinc), synthesis of organic products, cosmetics, manufacture of adhesives, manufacture of dyes, in the textile industry.
- Appearance: White-light beige flakes

RE0080 Resorcinol, extra pure, Pharpur®, Ph Eur, BP

assay (G.C., on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
RE00800250	250 g	0

RE0083 Resorcinol, reagent grade, Reag. Ph Eur

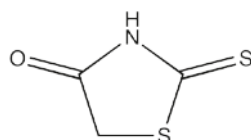
assay (G.C.) min. 99 %

Art. No.	Volume	Container
RE00830100	100 g	0

Art. No.	Volume	Container
RE00830250	250 g	0

Rhodanine

RO0030 Rhodanine, synthesis grade



- Synonyms: 2-Thioxo-4-thiazolidinone, Rhodanic acid
- $C_5H_5NOS_2$
- M = 133,19 g/mol
- CAS [141-84-4]
- EINECS-No.: 205-505-1
- Solub. in water: (20 °C): soluble
- Melting point: 166 - 168 °C
- LD 50 (oral, rat): 326 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302

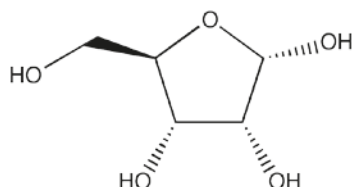
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2934 10 00 90
- Applications: synthesis of organic products, laboratory reagent.

assay min. 98 %

Art. No.	Volume	Container
RO00300025	25 g	0

D(-)-Ribose

RI0025 D(-)-Ribose, extra pure



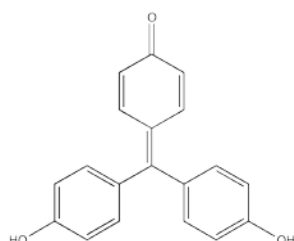
- Synonyms: α -D-Ribofuranose
- $C_5H_{10}O_5$
- M = 150,13 g/mol
- CAS [50-69-1]
- EINECS-No.: 200-059-4
- Solub. in water: (20 °C): soluble
- Melting point: ~ 90 - 95 °C
- Tariff number: 2940 00 00 80

- Applications: analytical chemistry, in biochemistry, in food industry, synthesis of organic products, nutrient media for bacterial culture.

Art. No.	Volume	Container
RI00250005	5 g	0
RI00250025	25 g	0
RI00250100	100 g	0

Rosolic acid, C.I. 43800

AC1990 Rosolic acid, C.I. 43800, indicator, for microscopy



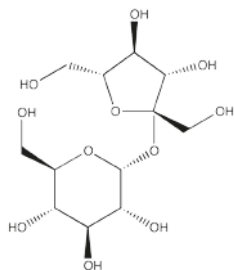
- Synonyms: Aurin, 4-[Bis(4-hydroxyphenyl)methylene]2,5-cyclohexadien-1-one
- $C_{19}H_{14}O_3$
- M = 290,32 g/mol
- CAS [603-45-2]
- EINECS-No.: 210-041-8
- Solub. in water: (20 °C): 1,2 g/l
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a

- Tariff number: 3212 90 90 00
- Applications: microscopy, manufacture of dyes.

pH range (yellow-red) 6,8 - 8,0

Art. No.	Volume	Container
AC19900010	10 g	0
AC19900025	25 g	0

D(+)-Saccharose



- Synonyms: Cane sugar, Sucrose
- $C_{12}H_{22}O_{11}$
- $M = 342,30 \text{ g/mol}$
- CAS [57-50-1]
- EINECS-No.: 200-334-9
- Solub. in water: (20 °C): freely soluble
- Melting point: 169 - 170 °C
- LD 50 (oral, rat): 29700 mg/kg
- Tariff number: 1701 99 10 80
- Applications: analytical chemistry, for determination of proteins, in food industry, for pharmaceuticals

synthesizing, synthesis of organic products, in biochemistry, nutrient media for bacterial culture.

SA0020 D(+)-Saccharose, extra pure, Pharpur®, Ph Eur, BP, NF

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
SA00200500	500 g	⊘	SA0020005P	5 kg	⊘
SA00201000	1 kg	⊘	SA0020025P	25 kg	⊘

SA0022 D(+)-Saccharose, crystallized, Pharpur®, Ph Eur, NF, GMP, suitable for use as excipient

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
SA00221000	1 kg	⊘	SA0022025P	25 kg	⊘

SA0021 D(+)-Saccharose, reagent grade, Reag. Ph Eur

Art. No.	Volume	Container	Art. No.	Volume	Container
SA00210500	500 g	⊘	SA0021005P	5 kg	⊘
SA00211000	1 kg	⊘	SA0021025P	25 kg	⊘

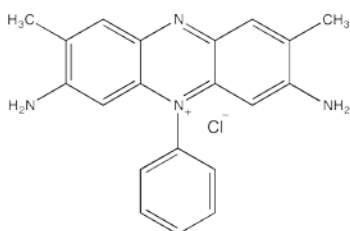
SU0030 D(+)-Saccharose (sucrose), molecular biology grade

DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
SU00301000	1 kg	⊘	SU0030005P	5 kg	⊘

Safranin O, C.I. 50240

SA0040 Safranin O, C.I. 50240, for microscopy



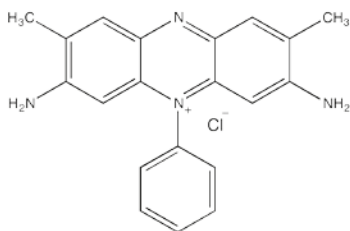
- $C_{20}H_{19}ClN_4$
- $M = 350,88 \text{ g/mol}$
- CAS [477-73-6]
- EINECS-No.: 207-518-8
- Solub. in water: (20 °C): 50 g/l
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 3204 13 00 90

• Applications: microscopy, manufacture of dyes.

Art. No.	Volume	Container
SA00400010	10 g	⊘
SA00400050	50 g	⊘

Safranin O, solution according to Gram

SA0042 Safranin O, solution according to Gram

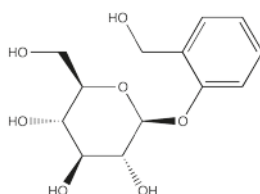


- $C_{20}H_{19}ClN_4$
- $M = 350,88 \text{ g/mol}$
- CAS [477-73-6]
- EINECS-No.: 207-518-8
- Density: 0,99 g/cm³
- Solub. in water: (20 °C): soluble
- Flash pt. 49 °C
- GHS-H sentences: EUH210
- Tariff number: 3204 13 00 90
- Applications: microscopy, bacterium staining.

Art. No.	Volume	Container
SA0042G100	100 ml	⊘
SA00420500	500 ml	⊘
SA00421000	1 l	⊘
SA00422500	2,5 l	⊘

D-Salicin

SA0200 D-Salicin, for biochemistry



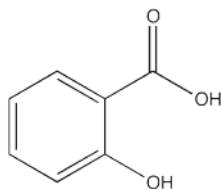
- Synonyms: 2-(Hydroxymethyl)phenyl-β-D-glucopyranoside
- $C_{13}H_{18}O_7$
- $M = 286,28 \text{ g/mol}$
- CAS [138-52-3]
- EINECS-No.: 205-331-6
- Solub. in water: (15 °C): 36 g/l
- Melting point: 199 - 201 °C

• Tariff number: 2938 90 90 90
• Applications: in biochemistry, for microbiology, for pharmaceuticals synthesizing.

Art. No.	Volume	Container
SA02000025	25 g	⊘

Salicylic acid

AC2002 Salicylic acid, extra pure, Pharmapur®, Ph Eur, BP, USP



Synonyms: 2-Hydroxybenzoic acid
 • C₇H₆O₃
 • M = 138,12 g/mol

- CAS [69-72-7]
- EINECS-No.: 200-712-3
- Solub. in water: (20 °C): 2 g/l
- Melting point: 158-161 °C
- Boiling point: 211 °C
- Flash pt. 157 °C
- Ignition temp.: 500 °C
- Vapour pressure: (100 °C) < 1hPa
- LD 50 (oral, rat): 891 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H318 - H302 - H335 - H315
- GHS-P sentences: P261 - P305 + P351 + P338 - P310 - P321 - P405 - P501a

- Tariff number: 2918 21 00 00
- Applications: synthesis of organic products, manufacture of dyes, analytical chemistry, in pharma industry.

assay (acidimetric, on dried sample) 99,5 - 100,5 %

Art. No.	Volume	Container
AC20020500	500 g	⊖
AC20021000	1 kg	⊖

Sea sand

- CAS [14808-60-7]
- EINECS-No.: 238-878-4
- Solub. in water: (20 °C): insoluble

• Tariff number: 2505 10 00 00

- Applications: . manufacture of glass, in the ceramics industry, in the production of enamels, antifoaming agent

AR0100 Sea sand, washed, thin

Art. No.	Volume	Container	Art. No.	Volume	Container
AR01000500	500 g	⊖	AR0100005P	5 kg	⊖
AR01001000	1 kg	⊖	AR0100025P	25 kg	⊖

AR0101 Sea sand, washed, thick

Art. No.	Volume	Container	Art. No.	Volume	Container
AR01010500	500 g	⊖	AR0101005P	5 kg	⊖
AR01011000	1 kg	⊖	AR0101025P	25 kg	⊖

Selenium

SE0025 Selenium, black, powder



- Se
- M = 78,96 g/mol
- CAS [7782-49-2]
- EINECS-No.: 231-957-4
- Solub. in water: (20 °C): slightly soluble
- Melting point: 217 °C
- Boiling point: 685 °C
- Vapour pressure: (20 °C) 0,001 hPa
- LD 50 (oral, rat): 360 mg/kg
- EC-Index-No.: 034-001-00-2

- ADR: 6.1 T5 III UN 3283
- IMDG: 6.1 III UN 3283
- IATA/ICAO: 6.1 III UN 3283
- GHS-signal word: Danger
- GHS-H sentences: H301 - H331 - H373 - H413
- GHS-P sentences: P260 - P261 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2804 90 00 00
- Applications: analytical chemistry, laboratory reagent, catalyst (for determination of: nitrogen), synthesis

of organic products, photography, pigment, in the electronic industry, manufacturing of photoelectric cells, in the rubber industry.

Art. No.	Volume	Container
SE00250050	50 g	⊖
SE00250100	100 g	⊖
SE00250250	250 g	⊖

Selenium dioxide

SE0039 Selenium dioxide, synthesis grade



- Synonyms: Selenium(IV) oxide, Selenious anhydride
- SeO₂
- M = 110,96 g/mol
- CAS [7446-08-4]
- EINECS-No.: 231-194-7
- Solub. in water: (14 °C): 384 g/l
- Vapour pressure: (70 °C) 16 hPa
- LD 50 (oral, rat): 68,1 mg/kg
- EC-Index-No.: 034-002-00-8
- ADR: 6.1 T5 II UN 3283

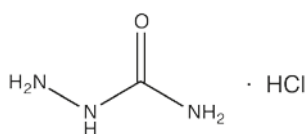
- IMDG: 6.1 II UN 3283
- IATA/ICAO: 6.1 II UN 3283
- GHS-signal word: Danger
- GHS-H sentences: H301 - H331 - H373 - H410
- GHS-P sentences: P260 - P261 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2811 29 90 90
- Applications: laboratory reagent, synthesis of organic products, oxidizing agent.

assay (iodometric)min. 98 %

Art. No.	Volume	Container
SE00390250	250 g	⊖
SE00391000	1 kg	⊖

Semicarbazide hydrochloride

SE0070 Semicarbazide hydrochloride, synthesis grade



Synonyms: Hydrazinecarboxamide monohydrochloride, N-Aminourea hydrochloride, Carbamylhydrazine hydrochloride

- CH₅N₃O·HCl
- M = 111,53 g/mol
- CAS [563-41-7]
- EINECS-No.: 209-247-0
- Solub. in water: (20 °C): freely soluble
- Melting point: 174 - 178 °C (decomposes)
- LD 50 (oral, rat): 123 mg/kg
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H301 - H330 - H373 - H315 - H319

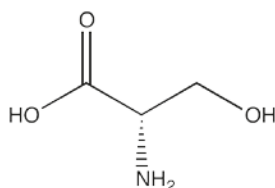
- GHS-P sentences: P301 + P310 - P305 + P351 + P338 - P310 - P320 - P405 - P501a
- Tariff number: 2928 00 90 90
- Applications: analytical chemistry, laboratory reagent (for the analysis of: aldehydes and ketones), synthesis of organic products.
- Appearance: White crystalline powder

assay (argentometric)min. 98 %

Art. No.	Volume	Container
SE00700100	100 g	⊖

L-Serine

SE0105 L-Serine, extra pure, Pharmapur®, Ph Eur, BP, USP



- Synonyms: 3-Hydroxy-L-alanine
- C₃H₇NO₃
- M = 105,09 g/mol
- CAS [56-45-1]
- EINECS-No.: 200-274-3
- Solub. in water: (20 °C): 364 g/l
- Melting point: 215 - 225 °C
- Tariff number: 2922 50 00 90
- Applications: in biochemistry, synthesis of organic products, in pharma industry.

assay (titration with HClO₄, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
SE01050100	100 g	Ø

Silica gel (orange)

GE0042 Silica gel with humidity indicator (orange), 1 - 3 mm

- Solub. in water: (20 °C): 1 g/l
- Melting point: > 1000 °C
- Tariff number: 2811 22 00 90
- Applications: desiccant.

Art. No.	Volume	Container
GE00420500	500 g	Ø
GE00421000	1 kg	Ø

Art. No.	Volume	Container
GE0042005P	5 kg	⊞
GE0042025P	25 kg	⊞

GE0043 Silica gel with humidity indicator (orange), 2,5 - 6 mm

- Solub. in water: (20 °C): insoluble
- Melting point: > 1000 °C
- Tariff number: 2811 22 00 90
- Applications: analytical chemistry, chromatography.

Art. No.	Volume	Container
GE00430500	500 g	Ø
GE00431000	1 kg	Ø

Art. No.	Volume	Container
GE0043005P	5 kg	⊞

Silica gel 60, for flash chromatography

GE0048 Silica gel 60, 0,04 - 0,06 mm, for flash chromatography (230 - 400 mesh ASTM)

- SiO₂
- M = 60,09 g/mol
- CAS [7631-86-9]
- EINECS-No.: 231-545-4
- Solub. in water: (20 °C): insoluble
- Tariff number: 2811 22 00 10
- Applications: analytical chemistry, chromatography.

Art. No.	Volume	Container
GE00481000	1 kg	Ø
GE00482500	2,5 kg	⊞
GE0048005P	5 kg	⊞
GE0048025P	25 kg	⊞

Silica gel 60, for column chromatography

GE0049 Silica gel 60, 0,06 - 0,2 mm, for column chromatography (70 - 230 mesh ASTM)

- SiO₂
- M = 60,09 g/mol
- CAS [7631-86-9]
- EINECS-No.: 231-545-4
- Solub. in water: (20 °C): insoluble
- Tariff number: 2811 22 00 10
- Applications: analytical chemistry, chromatography.

Art. No.	Volume	Container
GE00491000	1 kg	Ø
GE0049005P	5 kg	⊞
GE0049025P	25 kg	⊞

GE0050 Silica gel 60, 0,2 - 0,5 mm, for column chromatography (35 - 70 mesh ASTM)

- SiO₂
- M = 60,09 g/mol
- CAS [7631-86-9]
- EINECS-No.: 231-545-4
- Tariff number: 2811 22 00 10
- Applications: analytical chemistry, chromatography.

Art. No.	Volume	Container
GE00501000	1 kg	Ø
GE0050005P	5 kg	⊞

Silica gel 60 for thin layer chromatography

- Synonyms: Preparative layer chromatography, PLC/
PCC
- SiO₂
- M = 60,09 g/mol
- CAS [7631-86-9]
- EINECS-No.: 231-545-4
- Solub. in water: (20 °C): insoluble
- Tariff number: 2811 22 00 10
- Applications: analytical chemistry, chromatography.

GE0030 Silica gel 60, for thin layer chromatography

Art. No.	Volume	Container
GE00301000	1 kg	Ø

GE0033 Silica gel 60, for thin layer chromatography, with gypsum and pigment addition for UV

Art. No.	Volume	Container	Art. No.	Volume	Container
GE00331000	1 kg	Ø	GE0033005P	5 kg	⊞

Siliceous earth

TI0010 Siliceous earth, purified and calcined, extra pure, Pharpur®, NF



- Synonyms: Infusorial earth, Diatomaceous earth, Diatomite
- SiO₂
- M = 60,08 g/mol
- CAS [68855-54-9]
- EINECS-No.: 272-489-0
- Solub. in water: (20 °C): almost insoluble
- Melting point: 1713 °C

- Boiling point: 2230 °C
- GHS-signal word: Warning
- GHS-H sentences: H371
- GHS-P sentences: P260 - P264 - P270 - P309 + P311 - P405 - P501a
- Tariff number: 2512 00 00 00
- Applications: for laboratory uses, in pharma industry.

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
TI00101000	1 kg	Ⓜ
TI0010005P	5 kg	Ⓜ

Silicon dioxide

SI0040 Silicon dioxide, highly dispersed

- SiO₂
- M = 60,08 g/mol
- CAS [7631-86-9]
- EINECS-No.: 231-545-4
- Solub. in water: (20 °C): insoluble
- Melting point: 1726 °C

- LD 50 (oral, rat): > 10000 mg/kg
- Tariff number: 2811 22 00 90
- Applications: painting, in the coating industry, in the rubber industry, manufacture of adhesives, manufacturing of inks, cosmetics, in food industry.

assay (on dried sample) min. 99,8 %

Art. No.	Volume	Container
SI00400250	250 g	Ⓜ

Silicone liquid

SI0025 Silicone liquid, for heating baths, pure

- CAS [63148-62-9]
- Density: 0,96 g/cm³
- Melting point: ~ -54 °C
- Flash pt. 299 °C
- Vapour pressure: (200 °C) ~ 1,47 hPa
- Refraction index: (n 25 °C/D) 1,402
- Tariff number: 3910 00 00 90

- Applications: for heating baths.
- temperature range -50 to 190 °C

Art. No.	Volume	Container
SI00250500	500 ml	Ⓜ
SI00251000	1 l	Ⓜ
SI0025005P	5 l	Ⓜ
SI0025025P	25 l	Ⓜ

SI0020 Silicone liquid, antifoaming

- CAS [63148-62-9]
- Density: 1,01 g/cm³
- Tariff number: 3910 00 00 90

- Applications: in the pharmaceuticals industry, cosmetics.

Art. No.	Volume	Container
SI00200100	100 ml	Ⓜ
SI00200500	500 ml	Ⓜ

SI0030 Silicone liquid, low viscosity

- CAS [63148-62-9]
- Density: (25 °C) ~ 0,950 g/cm³
- Solub. in water: (20 °C): almost non-miscible
- Melting point: ~ -60 °C
- Flash pt. 230 °C
- Ignition temp.: > 400 °C
- Vapour pressure: (200 °C) 0,0133 hPa

- Refraction index: (n 25 °C/D) 1,4
- LD 50 (oral, rat): > 2000 mg/kg
- Tariff number: 3910 00 00 90
- Applications: in lubricant compositions, in the rubber industry, in the coating industry.

viscosity 18 - 22 mm²/s

Art. No.	Volume	Container
SI00301000	1 l	Ⓜ
SI0030025P	25 l	Ⓜ

Silicone paste A

SI0033 Silicone paste A, extra pure, for lubrication at high temperature

- Solub. in water: (20 °C): insoluble
- Flash pt. > 400 °C
- GHS-H sentences: EUH210
- Tariff number: 3910 00 00 90

- Applications: in lubricant compositions, protective agent (in the electronic industry, moisture), corrosion inhibitor. for greasing at high temperatures.

Art. No.	Volume	Container
SI00330100	100 g	Ⓜ

Silicone paste B

SI0034 Silicone paste B, extra pure, for lubrication at pressure and vacuum

- Solub. in water: (20 °C): insoluble
- Flash pt. > 400 °C
- LD 50 (oral, rat): > 5000 mg/kg
- GHS-H sentences: EUH210

- Tariff number: 3910 00 00 90
- Applications: in lubricant compositions, for greasing at pressure or vacuum.

Art. No.	Volume	Container
SI00340100	100 g	Ⓜ

Silver carbonate

PL0010 Silver carbonate, extra pure



- Ag₂CO₃
- M = 275,75 g/mol
- CAS [534-16-7]
- EINECS-No.: 208-590-3
- Solub. in water: (20 °C): 0,032 g/l
- LD 50 (oral, rat): 3731 mg/kg
- GHS-signal word: Danger

- GHS-H sentences: H318
- GHS-P sentences: P280 - P305 + P351 + P338 - P310
- Tariff number: 2843 29 00 00
- Applications: analytical chemistry, laboratory reagent, microscopy, dye.

assay (argentometric) min. 99 %

Art. No.	Volume	Container
PL00100025	25 g	Ⓜ



Silver chloride

PL0030 Silver chloride, extra pure

- AgCl
- M = 143,34 g/mol
- CAS [7783-90-6]
- EINECS-No.: 232-033-3
- Solub. in water: (25 °C): 0,00188 g/l
- Melting point: 455 °C
- Boiling point: 1554 °C
- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 2843 29 00 000
- Applications: analytical chemistry, laboratory reagent, for reference electrodes.

Art. No.	Volume	Container
PL00300025	25 g	0
PL00300100	100 g	0

assay min. 99,5 %

Silver nitrate

- AgNO₃
- M = 169,87 g/mol
- CAS [7761-88-8]
- EINECS-No.: 231-853-9
- Solub. in water: (20 °C): soluble
- Melting point: 212 °C
- Boiling point: 444 °C (decomposes)
- LD 50 (oral, rat): 1173 mg/kg
- EC-Index-No.: 047-001-00-2
- ADR: 5.1 O2 II UN 1493
- IMDG: 5.1 II UN 1493
- IATA/ICAO: 5.1 II UN 1493
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314 - H410
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2843 21 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, photography, manufacture of dyes, antiseptic, manufacture of mirrors.
- Appearance: White crystals

PL0049 Silver nitrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (argentometric) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
PL00490025	25 g	0
PL00490050	50 g	0
PL00490100	100 g	0

Art. No.	Volume	Container
PL00490250	250 g	0
PL00491000	1 kg	0

PL0050 Silver nitrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (argentometric) min. 99,8 %

Art. No.	Volume	Container
PL00500025	25 g	0
PL00500050	50 g	0
PL00500100	100 g	0

Art. No.	Volume	Container
PL00500250	250 g	0
PL00501000	1 kg	0

Silver nitrate, volumetric solutions

PL0057 Silver nitrate, solution 1 mol/l (1 N)

- AgNO₃
- M = 169,87 g/mol
- CAS [7761-88-8]
- EINECS-No.: 231-853-9
- Density: 1,14 g/cm³
- LD 50 (oral, rat): 1173 mg/kg (pure substance)
- EC-Index-No.: 047-001-00-2
- ADR: 8 C9 II UN 1760
- IMDG: 8 II UN 1760
- IATA/ICAO: 8 II UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H314 - H411
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2843 21 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, precipitant for: Cl⁻, I⁻, CN⁻, SCN⁻ . . .

Art. No.	Volume	Container
PL00570500	500 ml	0
PL00571000	1 l	0

PL0055 Silver nitrate, solution 0,1 mol/l (0,1 N)

- AgNO₃
- M = 169,87 g/mol
- CAS [7761-88-8]
- EINECS-No.: 231-853-9
- Density: 1,01 g/cm³
- LD 50 (oral, rat): 1173 mg/kg (pure substance)
- EC-Index-No.: 047-001-00-2
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H412
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P501a
- Tariff number: 2843 21 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
PL00550500	500 ml	0
PL00551000	1 l	0
PL00552500	2,5 l	0
PL0055005P	5 l	0
PL0055010C	10 l	0

PL0059 Silver nitrate, solution 0,05 mol/l (0,05 N)

- AgNO₃
- M = 169,87 g/mol
- CAS [7761-88-8]
- EINECS-No.: 231-853-9
- Density: ~ 1,00 g/cm³
- LD 50 (oral, rat): 1173 mg/kg (pure substance)
- EC-Index-No.: 047-001-00-2
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 2843 21 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
PL00591000	1 l	0

PL0056 Silver nitrate, solution 0,02 mol/l (0,02 N)

- AgNO₃
- M = 169,87 g/mol
- CAS [7761-88-8]
- EINECS-No.: 231-853-9
- Density: 1,00 g/cm³
- LD 50 (oral, rat): 1173 mg/kg (pure substance)
- EC-Index-No.: 047-001-00-2
- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 2843 21 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
PL00561000	1 l	0

PL0058 Silver nitrate, solution 0,01 mol/l (0,01 N)

- AgNO₃
- M = 169,87 g/mol
- CAS [7761-88-8]
- EINECS-No.: 231-853-9
- Density: 1,00 g/cm³
- EC-Index-No.: 047-001-00-2
- Tariff number: 2843 21 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
PL00581000	1 l	0

PL0051 Silver nitrate, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,1 N)

- AgNO₃
- M = 169,87 g/mol
- CAS [7761-88-8]
- EINECS-No.: 231-853-9
- Density: 1,27 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 1173 mg/kg (pure substance)
- EC-Index-No.: 047-001-00-2
- ADR: 8 C9 II UN 1760
- IMDG: 8 II UN 1760
- IATA/ICAO: 8 II UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H314 - H411
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2843 21 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, photography, manufacture of dyes.

Art. No.	Volume	Container
PL005100PA	u.	0

Silver oxide

PL0060 Silver oxide, extra pure, Reag. Ph Eur

- Ag₂O
- M = 231,74 g/mol
- CAS [20667-12-3]
- EINECS-No.: 243-957-1
- Solub. in water: (20 °C): 0,0016 g/l
- Melting point: > 200 °C (decomposes)
- LD 50 (oral, rat): 2820 mg/kg
- ADR: 5.1 OC2 II UN 3085
- IMDG: 5.1 II UN 3085
- IATA/ICAO: 5.1 II UN 3085
- GHS-signal word: Danger
- GHS-H sentences: H272 - H314 - EUH044
- GHS-P sentences: P221 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2843 29 00 00
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, synthesis of organic products, catalyst, manufacture of glass.

- Appearance: Black powder
- assay (argentometric) 99 - 101 %
- silver (Ag) 92,2 - 94,0 %

Art. No.	Volume	Container
PL00600010	10 g	0
PL00600025	25 g	0

Silver sulfate

- Synonyms: Sulfuric acid silver salt
- Ag₂SO₄
- M = 311,79 g/mol
- CAS [10294-26-5]
- EINECS-No.: 233-653-7
- Solub. in water: (25 °C): 8 g/l
- Melting point: 655 °C
- LD 50 (oral, rat): ~ 5000 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H318

- GHS-P sentences: P280 - P305 + P351 + P338 - P310
- Tariff number: 2843 29 00 90
- Applications: analytical chemistry, laboratory reagent, catalyst (determining COD).

PL0070 Silver sulfate, extra pure

assay (argentometric) min. 99 %

Art. No.	Volume	Container
PL00700025	25 g	0
PL00700100	100 g	0

Art. No.	Volume	Container
PL00700250	250 g	0

PL0071 Silver sulfate, reagent grade, ACS

assay (argentometric) min. 99,5 %

Art. No.	Volume	Container
PL00710025	25 g	0
PL00710100	100 g	0

Art. No.	Volume	Container
PL00710250	250 g	0

Silver sulfate, sulfuric solutions

PL0072 Silver sulfate, solution 1% in sulfuric acid, for COD determination, according to ISO 6060

- AgSO₄
- M = 311,79 g/mol
- CAS [10294-26-5]
- EINECS-No.: 233-653-7
- Density: 1,84 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: > 340 °C
- LD 50 (oral, rat): 2140 mg/kg (sulfuric acid)
- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

- Applications: determining COD (catalyst).

Art. No.	Volume	Container
PL00721000	1 l	0
PL00722500	2,5 l	0


PL0073 Silver sulfate, solution 0,66% in sulfuric acid

- AgSO₄
- M = 311,79 g/mol
- CAS [10294-26-5]
- EINECS-No.: 233-653-7
- Density: 1,84 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

- Applications: determining COD (catalyst).

Art. No.	Volume	Container
PL00731000	1 l	0

Soda lime

CA0170 Soda lime, with indicator 

- Synonyms: Mixture of calcium hydroxide and sodium hydroxide
- CAS [8006-28-8]
- Solub. in water: (20 °C): insoluble
- ADR: 8 C6 III UN 1907
- IMDG: 8 III UN 1907
- IATA/ICAO: 8 III UN 1907
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry; for the absorption of: carbon dioxide.

Art. No.	Volume	Container
CA01701000	1 kg	⊘

Sodium

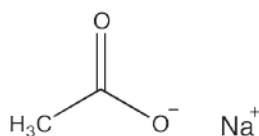
SO0010 Sodium, metal, extra pure, in vaseline oil, Reag. Ph Eur 

- Na
- M = 22,99 g/mol
- CAS [7440-23-5]
- EINECS-No.: 231-132-9
- Solub. in water: (20 °C): explosion reaction
- Melting point: 98 °C
- Boiling point: 889 °C
- Ignition temp.: > 115 °C
- Vapour pressure: (400 °C) 1,6 hPa
- EC-Index-No.: 011-001-00-0
- ADR: 4.3 W2 I UN 1428
- IMDG: 4.3 I UN 1428
- IATA/ICAO: 4.3 I UN 1428
- GHS-signal word: Danger
- GHS-H sentences: H260 - EUH014 - H314
- GHS-P sentences: P231 + P232 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2805 11 00 00

- Applications: analytical chemistry, laboratory reagent, to make sodium salts, reducing agent (ketones), for the synthesis of: lead tetraethyl, manufacturing of photoelectric cells, manufacturing of sodium lamps.

Art. No.	Volume	Container
SO00100100	100 g	⊘
SO00100500	500 g	⊘

Sodium acetate anhydrous



- Synonyms: Acetic acid sodium salt anhydrous
- CH₃COONa
- M = 82,03 g/mol
- CAS [127-09-3]
- EINECS-No.: 204-823-8
- Solub. in water: (20 °C): 365 g/l
- Melting point: 324 °C (decomposes)
- Boiling point: > 400 °C (decomposes)

- Flash pt. > 250 °C
- Ignition temp.: 607 °C
- LD 50 (oral, rat): 3530 mg/kg
- Tariff number: 2915 29 00 90
- Applications: in food industry, analytical chemistry, synthesis of organic products, photography.

SO0032 Sodium acetate anhydrous, extra pure

assay (titration with HClO₄, on dried sample) 99 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
SO00320500	500 g	⊘	SO0032005P	5 kg	⊘
SO00321000	1 kg	⊘	SO0032025P	25 kg	⊘

SO0035 Sodium acetate anhydrous, reagent grade, ACS, Reag. Ph Eur

assay (titration with HClO₄) min. 99,0 %

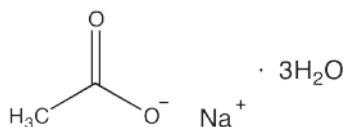
Art. No.	Volume	Container	Art. No.	Volume	Container
SO00350250	250 g	⊘	SO00351000	1 kg	⊘
SO00350500	500 g	⊘	SO0035005P	5 kg	⊘

SO0036 Sodium acetate anhydrous, molecular biology grade

assay (titration with HClO₄) min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
SO00360500	500 g	⊘	SO0036005P	5 kg	⊘
SO00361000	1 kg	⊘			

Sodium acetate trihydrate



- Synonyms: Acetic acid sodium salt trihydrate
- CH₃COONa·3H₂O
- M = 136,08 g/mol
- CAS [6131-90-4]
- EINECS-No.: 204-823-8
- Solub. in water: (20 °C): 613 g/l
- Melting point: 58 °C
- Boiling point: > 400 °C (anhydrous substance) (decomposes)

- Flash pt. > 250 °C (anhydrous substance)
- Ignition temp.: 607 °C
- LD 50 (oral, rat): 3530 mg/kg (anhydrous substance)
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, laboratory reagent, in the pharmaceuticals industry, in food industry (E 262), in buffer solutions (for biology).

SO0024 Sodium acetate trihydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (titration with HClO₄, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
SO00240500	500 g	⊘	SO0024005P	5 kg	⊘
SO00241000	1 kg	⊘	SO0024025P	25 kg	⊘

SO0026 Sodium acetate trihydrate, crystallized, Pharmapur®, Ph Eur, USP, GMP, suitable for use as excipient

assay (titration with HClO₄, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
SO00261000	1 kg	⊘	SO0026025P	25 kg	⊘

SO0025 Sodium acetate trihydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (titration with HClO₄) 99,5 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S000250500	500 g	⊘	S00025005P	5 kg	⊞
S000251000	1 kg	⊘			

SO0030 Sodium acetate trihydrate, HPLC grade

assay (titration with HClO₄) min. 99,5 %

max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:
 250 nm. 0,05 AU
 260 nm. 0,01 AU

Art. No.	Volume	Container
S000300250	250 g	⊘
S000301000	1 kg	⊘

Sodium azide

SO0091 Sodium azide, extra pure, Reag. Ph Eur



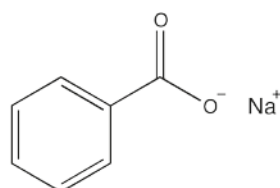
- Synonyms: Hydrazoic acid sodium salt
- NaN₃
- M = 65,01 g/mol
- CAS [26628-22-8]
- EINECS-No.: 247-852-1
- Solub. in water: (17 °C): 420 g/l
- Melting point: 275 °C (decomposes)
- LD 50 (oral, rat): 45 mg/kg
- EC-Index-No.: 011-004-00-7
- ADR: 6.1 T5 II UN 1687
- IMDG: 6.1 II UN 1687
- IATA/ICAO: 6.1 II UN 1687
- GHS-signal word: Danger
- GHS-H sentences: H300 - EUH032 - H410

- GHS-P sentences: P273 - P264 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2850 00 50 00
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, preservative agent, salt for azidations, herbicide.

assay (titration with HClO₄) min. 99 %

Art. No.	Volume	Container
S000910100	100 g	⊘
S000910250	250 g	⊘
S00091005P	5 kg	⊞

Sodium benzoate



- C₇H₅NaO₂
- M = 144,11 g/mol
- CAS [532-32-1]
- EINECS-No.: 208-534-8
- Solub. in water: (20 °C): ~ 660 g/l
- Melting point: 410 - 430 °C
- Flash pt. > 100 °C
- Ignition temp.: > 500 °C

- LD 50 (oral, rat): 3140 mg/kg
- Tariff number: 2916 31 00 90
- Applications: antibiotic, perfumery, in food industry, in the pharmaceuticals industry.

SO0125 Sodium benzoate, synthesis grade

assay (titration with HClO₄) min. 99 %

Art. No.	Volume	Container
S001251000	1 kg	⊘

SO0126 Sodium benzoate, extra pure, Pharmed®, Ph Eur, BP, NF

assay (titration with HClO₄, on dried sample) 99 - 100,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S001261000	1 kg	⊘	S00126025P	25 kg	⊞
S00126005P	5 kg	⊞			

Sodium borohydride

SO0105 Sodium borohydride, powder, synthesis grade



- Synonyms: Sodium tetrahydroborate
- NaBH₄
- M = 37,83 g/mol
- CAS [16940-66-2]
- EINECS-No.: 241-004-4
- Solub. in water: (25 °C): 550 g/l (decomposes slowly)
- Melting point: ~ 400 °C (decomposes slowly)
- Flash pt. 69 °C
- Ignition temp.: ~ 220 °C
- LD 50 (oral, rat): 69 mg/kg

- ADR: 4.3 W2 I UN 1426
- IMDG: 4.3 I UN 1426
- IATA/ICAO: 4.3 I UN 1426
- GHS-signal word: Danger
- GHS-H sentences: H260 - H301 - H314
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2850 00 20 90
- Applications: reducing agent, synthesis of organic products.

assay (iodometric) min. 98 %

Art. No.	Volume	Container
S001050100	100 g	⊘
S001050500	500 g	⊘
S001051000	1 kg	⊘

Sodium bromide

- Synonyms: Bromo sodium
- NaBr
- M = 102,90 g/mol
- CAS [7647-15-6]

- EINECS-No.: 231-599-9
- Solub. in water: (20 °C): soluble
- Melting point: 755 °C
- Boiling point: 1393 °C

- Vapour pressure: (806 °C) 1,3 hPa
- LD 50 (oral, rat): 3500 mg/kg
- Tariff number: 2827 51 00 00
- Applications: laboratory reagent, photography.

SO0170 Sodium bromide, extra pure, Pharpur®, Ph Eur, BP, USP

assay (argentometric, on dried sample)98,5 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S001700500	500 g	⊖	S001701000	1 kg	⊖

SO0171 Sodium bromide, reagent grade, ACS, Reag. Ph Eur

assay (argentometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S001710250	250 g	⊖	S001711000	1 kg	⊖
S001710500	500 g	⊖			

Sodium carbonate anhydrous

- Synonyms: Anhydrous soda
- Na₂CO₃
- M = 105,99 g/mol
- CAS [497-19-8]
- EINECS-No.: 207-838-8
- Solub. in water: (20 °C): 220 g/l
- Melting point: 854 °C

- Boiling point: 1600 °C (decomposes)
- LD 50 (oral, rat): 4090 mg/kg
- EC-Index-No.: 011-005-00-2
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313

- Tariff number: 2836 20 00 00
- Applications: analytical chemistry, laboratory reagent, to make sodium salts, manufacture of glass, detergent, in the textile industry, photography, in the pharmaceuticals industry, in food industry (E 500).

SO0115 Sodium carbonate anhydrous, extra pure, Pharpur®, Ph Eur, BP, NF

assay (acidimetric, on dried sample)99,5 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S001150500	500 g	⊖	S00115005P	5 kg	⊖
S001151000	1 kg	⊖	S00115025P	25 kg	⊖

SO0116 Sodium carbonate anhydrous, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric, on dried sample) min. 99,8 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S001160500	500 g	⊖	S00116005P	5 kg	⊖
S001161000	1 kg	⊖	S00116025P	25 kg	⊖

Sodium carbonate decahydrate

- Synonyms: Soda decahydrate
- Na₂CO₃·10H₂O
- M = 286,14 g/mol
- CAS [6132-02-1]
- EINECS-No.: 207-838-8
- Solub. in water: (20 °C): ~ 210 g/l

- Melting point: 33 °C
- LD 50 (oral, rat): 4090 mg/kg (anhydrous substance)
- EC-Index-No.: 011-005-00-2
- GHS-signal word: Warning
- GHS-H sentences: H319

- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2836 20 00 00
- Applications: analytical chemistry, laboratory reagent, for pharmaceuticals synthesizing, in food industry (E 500), in the textile industry, whitener agent.

SO0117 Sodium carbonate decahydrate, extra pure, Pharpur®, Ph Eur, BP

assay (acidimetric, as Na₂CO₃)36,7 - 40,0 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S001170500	500 g	⊖	S00117005P	5 kg	⊖
S001171000	1 kg	⊖	S00117025P	25 kg	⊖

SO0118 Sodium carbonate decahydrate, reagent grade, ISO, Reag. Ph Eur

assay (acidimetric)99 - 102 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S001180500	500 g	⊖	S00118005P	5 kg	⊖
S001181000	1 kg	⊖			

Sodium carbonate, saturated solution**SO0123 Sodium carbonate, saturated solution**

- Na₂CO₃
- M = 105,99 g/mol
- CAS [497-19-8]
- EINECS-No.: 207-838-8
- EC-Index-No.: 011-005-00-2
- GHS-signal word: Warning

- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2836 20 00 00
- Applications: laboratory reagent, analytical chemistry, photography.

Art. No.	Volume	Container
S001231000	1 l	⊖

Sodium carbonate, volumetric solutions**SO0050 Sodium carbonate, solution 0,5 mol/l (1 N)**

- Na₂CO₃
- M = 105,99 g/mol
- CAS [497-19-8]
- EINECS-No.: 207-838-8
- Density: 1,05 g/cm³

- EC-Index-No.: 011-005-00-2
- GHS-H sentences: EUH210
- Tariff number: 2836 20 00 00
- Applications: analytical chemistry, laboratory reagent.

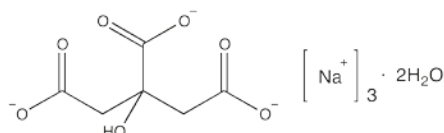
Art. No.	Volume	Container
S000501000	1 l	⊖
S00050005P	5 l	⊖
S00050010C	10 l	⊖

SO0051 Sodium carbonate, solution 0,05 mol/l (0,1 N)

- Na₂CO₃
- M = 105,99 g/mol
- CAS [497-19-8]
- EINECS-No.: 207-838-8
- Density: ~ 1,1 g/cm³
- EC-Index-No.: 011-005-00-2
- Tariff number: 2836 20 00 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
S000511000	1 l	⊖

tri-Sodium citrate dihydrate



- C₆H₅Na₃O₇·2H₂O
- M = 294,10 g/mol
- CAS [6132-04-3]
- EINECS-No.: 200-675-3
- Solub. in water: (25 °C): 425 g/l
- Melting point: 150 °C (anhydrous substance)
- Tariff number: 2918 15 00 10

- Applications: analytical chemistry, in buffer solutions, for the analysis of: aminoacids, in food industry (E-331), emulsifier, antioxidant, preservative agent.

SO0199 tri-Sodium citrate dihydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (titration with HClO₄, on dried sample) 99,0 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S001990500	500 g	⊖	S00199005P	5 kg	⊖
S001991000	1 kg	⊖	S00199025P	25 kg	⊖

SO0201 tri-Sodium citrate dihydrate, granular, Pharmpur®, Ph Eur, USP, GMP, suitable for use as excipient

assay (titration with HClO₄, on dried sample) 99,5 - 101,0 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S002011000	1 kg	⊖	S00201025P	25 kg	⊖

SO0200 tri-Sodium citrate dihydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (titration with HClO₄) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S002000250	250 g	⊖	S00200005P	5 kg	⊖
S002000500	500 g	⊖	S00200025P	25 kg	⊖
S002001000	1 kg	⊖			

SO0205 tri-Sodium citrate dihydrate, molecular biology grade

assay (titration with HClO₄) min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
S002051000	1 kg	⊖

Sodium cyanide

SO0190 Sodium cyanide, extra pure

- NaCN
- M = 49,01 g/mol
- CAS [143-33-9]
- EINECS-No.: 205-599-4
- Solub. in water: (20 °C): 370 g/l
- Melting point: 563 °C
- Boiling point: 1496 °C
- Vapour pressure: (50 °C) 0,1 hPa
- LD 50 (oral, rat): 6,4 mg/kg
- EC-Index-No.: 006-007-00-5
- ADR: 6.1 T5 | UN 1689
- IMDG: 6.1 | UN 1689
- IATA/ICAO: 6.1 | UN 1689
- GHS-signal word: Danger
- GHS-H sentences: H300 - EUH032 - H310 - H330 - H410
- GHS-P sentences: P301 + P310 - P310 - P320 - P361 - P405 - P501a
- Tariff number: 2837 11 00 00
- Applications: for the extraction of gold and silver from minerals, laboratory reagent, fumigant, in galvanotechnology.

assay (argentometric) min. 98 %

Art. No.	Volume	Container
S001900250	250 g	⊖
S001901000	1 kg	⊖
S00190005P	5 kg	⊖
S00190025P	25 kg	⊖

Sodium chlorate

- NaClO₃
- M = 106,44 g/mol
- CAS [7775-09-9]
- EINECS-No.: 231-887-4
- Solub. in water: (20 °C): soluble
- Melting point: 255 °C (decomposes)
- LD 50 (oral, rat): 1200 mg/kg
- EC-Index-No.: 017-005-00-9
- ADR: 5.1 O2 | UN 1495
- IMDG: 5.1 | UN 1495
- IATA/ICAO: 5.1 | UN 1495
- GHS-signal word: Danger
- GHS-H sentences: H271 - H302 - H411

- GHS-P sentences: P221 - P283 - P210 - P306 + P360 - P371 + P380 + P375 - P501a
- Tariff number: 2829 11 00 00
- Applications: laboratory reagent, oxidizing, manufacture of dyes, in explosive compositions, cosmetics, herbicide, in the pharmaceuticals industry (oxidizing agent).

SO0210 Sodium chlorate, pure

assay (argentometric) min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S002100500	500 g	⊖	S00210005P	5 kg	⊖
S002101000	1 kg	⊖	S00210025P	25 kg	⊖

SO0213 Sodium chlorate, reagent grade, ACS

assay (argentometric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S002130500	500 g	⊖	S002131000	1 kg	⊖

Sodium chloride

- Synonyms: Salt, Common salt, Rock salt, Sea salt
- NaCl
- M = 58,44 g/mol
- CAS [7647-14-5]
- EINECS-No.: 231-598-3
- Solub. in water: (20 °C): 358 g/l
- Melting point: 801 °C
- Boiling point: 1461 °C
- Vapour pressure: (865 °C) 1,3 hPa
- LD 50 (oral, rat): 3000 mg/kg
- Tariff number: 2501 00 31 00
- Applications: analytical chemistry, laboratory reagent, to make sodium salts, in food industry, for decreasing the melting point of water.

SO0224 Sodium chloride, synthesis grade

assay (argentometric)min. 99 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	S002241000	1 kg	⊖	S00224025P	25 kg	⊖
	S00224005P	5 kg	⊖			

SO0225 Sodium chloride, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (argentometric, on dried sample)99,0 - 100,5 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	S002250500	500 g	⊖	S00225005P	5 kg	⊖
	S002251000	1 kg	⊖	S00225025P	25 kg	⊖

SO0236 Sodium chloride, crystallized, Pharmapur®, Ph Eur, USP, GMP, suitable for use as excipient

assay (argentometric, on dried sample)99,0 - 100,5 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	S002361000	1 kg	⊖	S00236025P	25 kg	⊖

SO0227 Sodium chloride, reagent grade, ACS, ISO, Reag. Ph Eur

assay (argentometric)min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	S002270500	500 g	⊖	S00227005P	5 kg	⊖
	S002271000	1 kg	⊖	S00227025P	25 kg	⊖

SO0234 Sodium chloride, secondary standard for volumetric titrations, Titrasure®

assay (on dried sample)min. 99,0 %	Art. No.	Volume	Container
	S002340100	100 g	⊖

SO0230 Sodium chloride, molecular biology grade

assay (argentometric)min. 99,5 % DNases, RNases, Proteasesnon detected	Art. No.	Volume	Container	Art. No.	Volume	Container
	S002300500	500 g	⊖	S00230005P	5 kg	⊖
	S002301000	1 kg	⊖			

SO0226 Sodium chloride, for climatic chambers

Art. No.	Volume	Container	Art. No.	Volume	Container
S002261000	1 kg	⊖	S00226005P	5 kg	⊖

Sodium chloride, thick salt

SO0228 Sodium chloride, thick salt, synthesis grade

• Synonyms: Salt, Common salt, Rock salt, Sea salt	• NaCl	• M = 58,44 g/mol	• CAS [7647-14-5]	• EINECS-No.: 231-598-3	• Solub. in water: (20 °C): 358 g/l	• Melting point: 801 °C	• Boiling point: 1461 °C	• Tariff number: 2501 00 31 00	• Applications: analytical chemistry, laboratory reagent, to make sodium salts, in food industry, for decreasing the melting point of water.	assay (argentometric)min. 98 %	Art. No.	Volume	Container
											S002280500	500 g	⊖
											S002281000	1 kg	⊖
											S00228005P	5 kg	⊖
											S00228025P	25 kg	⊖

Sodium chloride, saturated solution

SO0233 Sodium chloride, saturated solution

• Synonyms: Salt, Common salt, Rock salt, Sea salt; saturated solution	• NaCl	• M = 58,44 g/mol	• CAS [7647-14-5]	• EINECS-No.: 231-598-3	• Tariff number: 3822 00 00 00	• Applications: laboratory reagent.	Art. No.	Volume	Container
							S002331000	1 l	⊖

Sodium chloride, volumetric solutions

SO0229 Sodium chloride, solution 0,1 mol/l (0,1 N)

• NaCl	• M = 58,44 g/mol	• CAS [7647-14-5]	• EINECS-No.: 231-598-3	• Density: 1,004 g/cm³	• Tariff number: 3822 00 00 00	• Applications: laboratory reagent.	Art. No.	Volume	Container
							S002291000	1 l	⊖

S00231 Sodium chloride, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,1N)

- NaCl
- M = 58,44 g/mol
- CAS [7647-14-5]
- EINECS-No.: 231-598-3

- Density: 1,08 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: laboratory reagent.

Art. No.	Volume	Container
S0023100PA	u.	Ø

Sodium chromate

S00250 Sodium chromate, reagent grade



- Na₂CrO₄
- M = 161,97 g/mol
- CAS [7775-11-3]
- EINECS-No.: 231-889-5
- Solub. in water: (30 °C): 873 g/l
- Melting point: ~ 792 °C
- LD 50 (oral, rat): 136 mg/kg
- EC-Index-No.: 024-018-00-3
- ADR: 6.1 T5 II UN 3288
- IMDG: 6.1 II UN 3288
- IATA/ICAO: 6.1 II UN 3288

- GHS-signal word: Danger
- GHS-H sentences: H301 - H330 - H334 - H340 - H350 - H360FD - H372 - H314 - H410 - H312 - H317
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: analytical chemistry, laboratory reagent, in the textile industry, protection of iron against corrosion and rusting.

assay (iodometric) min. 99,5 %

Art. No.	Volume	Container
S002500500	500 g	Ø
S002501000	1 kg	Ø

Sodium chromate tetrahydrate

S00255 Sodium chromate tetrahydrate, extra pure



- Na₂CrO₄·4H₂O
- M = 234,03 g/mol
- CAS [10034-82-9]
- EINECS-No.: 231-889-5
- Solub. in water: (20 °C): 443 g/l
- Melting point: ~ 792 °C
- EC-Index-No.: 024-018-00-3
- ADR: 6.1 TC4 I UN 3290
- IMDG: 6.1 I UN 3290

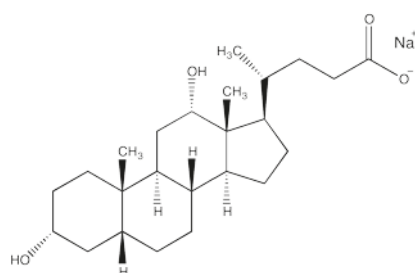
- IATA/ICAO: 6.1 I UN 3290
- GHS-signal word: Danger
- GHS-H sentences: H301 - H330 - H334 - H340 - H350 - H360 - H372 - H314 - H410 - H317
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P405 - P501a
- Tariff number: 2841 50 00 00
- Applications: laboratory reagent, analytical chemistry.

assay (iodometric) min. 99 %

Art. No.	Volume	Container
S002550500	500 g	Ø
S002551000	1 kg	Ø

Sodium deoxycholate

S00257 Sodium deoxycholate, for microbiology



- Synonyms: Desoxycholic acid, sodium salt, 3α,12α-Dihydroxy-5β-cholanic acid, sodium salt
- C₂₄H₃₉NaO₄
- M = 414,55 g/mol
- CAS [302-95-4]
- EINECS-No.: 206-132-7
- Melting point: 357 - 365 °C
- LD 50 (oral, rat): 1370 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a

• Tariff number: 2918 19 30 00

Art. No.	Volume	Container
S002570100	100 g	Ø
S002570500	500 g	Ø

Sodium dichromate dihydrate

S00260 Sodium dichromate dihydrate, reagent grade, ACS



- Synonyms: Sodium bichromate, Sodium pyrochromate
- Na₂Cr₂O₇·2H₂O
- M = 298,00 g/mol
- CAS [7789-12-0]
- EINECS-No.: 234-190-3
- Solub. in water: (20 °C): 731,8 g/l
- Melting point: 356,7 °C (anhydrous substance)
- Boiling point: 400 °C (decomposes)
- LD 50 (oral, rat): 50 mg/kg
- EC-Index-No.: 024-004-01-4
- ADR: 6.1 T5 III UN 3288

- IMDG: 6.1 III UN 3288
- IATA/ICAO: 6.1 III UN 3288
- GHS-signal word: Danger
- GHS-H sentences: H272 - H301 - H330 - H334 - H340 - H350 - H360FD - H372 - H314 - H410 - H312 - H317
- GHS-P sentences: P221 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P320 - P405 - P501a
- Tariff number: 2841 30 00 00
- Applications: analytical chemistry, laboratory reagent, oxidizing agent (manufacture of dyes), starting

material for synthesis of chromic acid and other chromates.

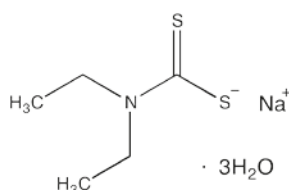
• Appearance: Orange solid

assay (iodometric) 99,5 - 100,5 %

Art. No.	Volume	Container
S002600500	500 g	Ø
S002601000	1 kg	Ø
S00260005P	5 kg	Ⓜ

Sodium diethyldithiocarbamate trihydrate

S00270 Sodium diethyldithiocarbamate trihydrate, reagent grade, ACS



- Synonyms: Diethyldithiocarbamic acid sodium salt trihydrate
- C₆H₁₀NNaS₂·3H₂O
- M = 225,31 g/mol
- CAS [20624-25-3]
- EINECS-No.: 205-710-6
- Solub. in water: (20 °C): 600 g/l
- Melting point: ~ 93 °C
- LD 50 (oral, rat): 1500 mg/kg (anhydrous substance)
- GHS-signal word: Warning
- GHS-H sentences: H302

• GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a

• Tariff number: 2930 20 00 00

• Applications: analytical chemistry, laboratory reagent (noble metals), precipitant for: metal ions traces.

assay (titration with HClO₄) min. 99 %

Art. No.	Volume	Container
S002700100	100 g	Ø
S002700250	250 g	Ø

Sodium dihydrogen phosphate anhydrous

SO0330 Sodium dihydrogen phosphate anhydrous, extra pure, Pharmapur®, BP, USP

- Synonyms: Sodium biphosphate, Sodium phosphate monobasic
- NaH_2PO_4
- M = 120,0 g/mol
- CAS [7558-80-7]
- EINECS-No.: 231-449-2
- Solub. in water: (20 °C): 850 g/l
- Melting point: 200 °C
- LD 50 (oral, rat): 8290 mg/kg
- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, laboratory reagent, in food industry (E 339), in pharma industry.

Art. No.	Volume	Container
S003300500	500 g	⊘
S003301000	1 kg	⊘
S00330025P	25 kg	⊘

assay (acidimetric, on dried sample) 98 - 103 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Sodium dihydrogen phosphate dihydrate

- Synonyms: Sodium biphosphate, Monosodium orthophosphate, Primary sodium phosphate, Sodium phosphate monobasic
- $\text{NaH}_2\text{PO}_4 \cdot 2\text{H}_2\text{O}$
- M = 156,01 g/mol
- CAS [13472-35-0]
- EINECS-No.: 231-449-2
- Solub. in water: (20 °C): 850 g/l
- Melting point: 60 °C
- LD 50 (oral, rat): 8290 mg/kg (anhydrous substance)

- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, laboratory reagent, for pharmaceuticals synthesizing, in food industry (E 339).

SO0334 Sodium dihydrogen phosphate dihydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (acidimetric, on dried sample) 98 - 103 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S003340500	500 g	⊘
S003341000	1 kg	⊘

Art. No.	Volume	Container
S00334005P	5 kg	⊘
S00334025P	25 kg	⊘

SO0332 Sodium dihydrogen phosphate dihydrate, reagent grade, Reag. Ph Eur

assay (acidimetric) min. 99 %

Art. No.	Volume	Container
S003320500	500 g	⊘
S003321000	1 kg	⊘

Art. No.	Volume	Container
S00332005P	5 kg	⊘
S00332025P	25 kg	⊘

Sodium dihydrogen phosphate monohydrate

- Synonyms: Sodium biphosphate, Monosodium orthophosphate, Primary sodium phosphate, Sodium phosphate monobasic
- $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$
- M = 137,99 g/mol
- CAS [10049-21-5]
- EINECS-No.: 231-449-2
- Solub. in water: (20 °C): 850 g/l
- Melting point: ~ 100 °C (decomposes)
- LD 50 (oral, rat): 8290 mg/kg (anhydrous substance)

- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, for pharmaceuticals synthesizing, for softening water, in food industry (E 339).

SO0333 Sodium dihydrogen phosphate monohydrate, extra pure, Pharmapur®, BP, USP

assay (acidimetric, on dried sample) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S003330500	500 g	⊘
S003331000	1 kg	⊘

Art. No.	Volume	Container
S00333005P	5 kg	⊘

SO0331 Sodium dihydrogen phosphate monohydrate, reagent grade, ACS

assay (acidimetric) 99,0 - 102,0 %

Art. No.	Volume	Container
S003310250	250 g	⊘
S003310500	500 g	⊘

Art. No.	Volume	Container
S003311000	1 kg	⊘
S00331005P	5 kg	⊘

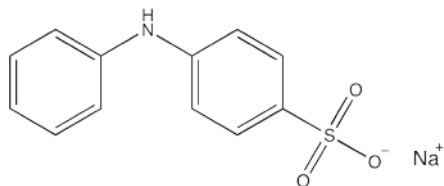
SO0328 Sodium dihydrogen phosphate monohydrate, molecular biology grade

assay (acidimetric) min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
S003280250	250 g	⊘

Sodium 4-diphenylaminosulfonic acid

SO0285 Sodium 4-diphenylaminosulfonic acid, redox indicator



- Synonyms: Diphenylamine-4-sulfonic acid sodium salt
- $\text{C}_{12}\text{H}_{10}\text{NNaO}_3\text{S}$
- M = 271,27 g/mol
- CAS [6152-67-6]
- EINECS-No.: 228-165-6
- Solub. in water: (20 °C): ~ 820 g/l
- Tariff number: 2921 44 00 90

- Applications: analytical chemistry, indicator.

Art. No.	Volume	Container
S002850025	25 g	⊘

Sodium disulfite

- Synonyms: Sodium metabisulfite, Sodium pyrosulfite
- $\text{Na}_2\text{S}_2\text{O}_5$
- M = 190,10 g/mol
- CAS [7681-57-4]
- EINECS-No.: 231-673-0
- Solub. in water: (20 °C): ~ 650 g/l
- Melting point: ~ 150 °C (decomposes)
- LD 50 (oral, rat): 1540 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H318 - H302 - EUH031
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P310 - P301 + P312 - P501a

- Tariff number: 2832 10 00 00
- Applications: analytical chemistry, laboratory reagent, bleaching agent, reducing agent (manufacture of dyes), antioxidant (in the pharmaceuticals industry), in food industry (E 223), preservative agent.

SO0289 Sodium disulfite, extra pure, Pharmapur®, Ph Eur, BP, NF

assay (iodometric) 95 - 100,5 %
 assay (iodometric, as SO₂) 65 - 67,4 %
 Residual solvents are analysed according to guideline
 CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S002890500	500 g	Ⓟ	S00289005P	5 kg	Ⓟ
S002891000	1 kg	Ⓟ	S00289025P	25 kg	Ⓟ

SO0290 Sodium disulfite, reagent grade, ACS, Reag. Ph Eur

assay (iodometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S002900500	500 g	Ⓟ	S002901000	1 kg	Ⓟ

Sodium fluoride

- Synonyms: Chemifluor, Ossalin, Ossin, Zymafluor
- NaF
- M = 41,99 g/mol
- CAS [7681-49-4]
- EINECS-No.: 231-667-8
- Solub. in water: (20 °C): 42 g/l
- Melting point: 993 °C
- Boiling point: 1704 °C

- Vapour pressure: (1077 °C) 1 hPa
- LD 50 (oral, rat): 52 mg/kg
- EC-Index-No.: 009-004-00-7
- ADR: 6.1 T5 III UN 1690
- IMDG: 6.1 III UN 1690
- IATA/ICAO: 6.1 III UN 1690
- GHS-signal word: Danger
- GHS-H sentences: H301 - EUH032 - H315 - H319

- GHS-P sentences: P280 - P301 + P310 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2826 19 10 00
- Applications: analytical chemistry, laboratory reagent, in the production of enamels, insecticide, in fluoridation of drinking water.

SO0355 Sodium fluoride, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (complexometric, on dried sample)98 - 102 %
 Residual solvents are analysed according to guideline
 CPMP/ICH/283/95.

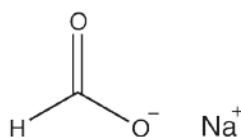
Art. No.	Volume	Container	Art. No.	Volume	Container
S003551000	1 kg	Ⓟ	S00355005P	5 kg	Ⓟ

SO0323 Sodium fluoride, reagent grade, ACS, ISO

assay (complexometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S003230500	500 g	Ⓟ	S00323005P	5 kg	Ⓟ
S003231000	1 kg	Ⓟ	S00323025P	25 kg	Ⓟ

Sodium formate



- Synonyms: Formic acid sodium salt
- NaOOCH
- M = 68,01 g/mol
- CAS [141-53-7]
- EINECS-No.: 205-488-0
- Solub. in water: (20 °C): 820 g/l
- Melting point: 255 °C
- LD 50 (oral, rat): 11200 mg/kg
- GHS-signal word: Warning

- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2915 12 00 00
- Applications: analytical chemistry, laboratory reagent, solvents, chromatography, precipitant for: noble metals, for extraction of phosphates in soil samples, synthesis of organic products.

SO0324 Sodium formate, extra pure

assay (iodometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S003240500	500 g	Ⓟ	S00324005P	5 kg	Ⓟ

SO0326 Sodium formate, reagent grade, ACS, Reag. Ph Eur

assay (iodometric)min. 99 %

Art. No.	Volume	Container
S00326005P	5 kg	Ⓟ

SO0325 Sodium formate, HPLC grade

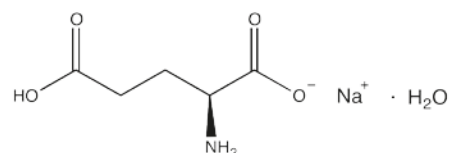
assay (iodometric)min. 99,5 %

max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:
 260 nm. 0,05 AU
 270 nm. 0,04 AU
 300 nm. 0,03 AU
 330 nm. 0,02 AU

Art. No.	Volume	Container
S003250250	250 g	Ⓟ

Sodium L-glutamate monohydrate

SO0400 Sodium L-glutamate monohydrate, extra pure, Pharmapur®, NF



- C₅H₈NNaO₄·H₂O
- M = 187,13 g/mol
- CAS [6106-04-3]
- EINECS-No.: 205-538-1
- Solub. in water: (20 °C): ~ 600 g/l
- Melting point: 225 - 240 °C
- Flash pt. > 900 °C
- LD 50 (oral, rat): 15800 mg/kg
- Tariff number: 2922 42 00 10
- Applications: in food industry (E 621).

assay (titration with HClO₄) 99 - 100,5 %

Art. No.	Volume	Container
S004000500	500 g	Ⓟ
S004001000	1 kg	Ⓟ
S00400025P	25 kg	Ⓟ

Sodium hexametaphosphate

SO0415 Sodium hexametaphosphate, extra pure

- Synonyms: Sodium polyphosphate, Graham's salt
- Na-(NaPO₃)_n-ONa
- CAS [68915-31-1]
- EINECS-No.: 272-808-3
- Solub. in water: (20 °C): soluble
- Melting point: 628 °C
- LD 50 (oral, rat): 5000 mg/kg
- Tariff number: 2835 39 00 00
- Applications: dentifrices, polishing agent, detergent (abrasive).
- assay (acidimetric, as P2O5) 65 - 70 %

Art. No.	Volume	Container
S004150500	500 g	⊘
S004151000	1 kg	⊘

Sodium hexanitrocobaltate(III)

SO0240 Sodium hexanitrocobaltate(III), reagent grade, ACS



- Synonyms: Sodium cobaltinitrite, Cobalt(III) sodium nitrite
- Na₃[Co(NO₂)₆]
- M = 403,94 g/mol
- CAS [13600-98-1]
- EINECS-No.: 237-077-7
- Solub. in water: (20 °C): 720 g/l
- ADR: 5.1 O2 III UN 1479
- IMDG: 5.1 III UN 1479
- IATA/ICAO: 5.1 III UN 1479
- GHS-signal word: Danger
- GHS-H sentences: H272 - H350
- GHS-P sentences: P221 - P210 - P220 - P280 - P405 - P501a
- Tariff number: 2842 90 90 00
- Applications: analytical chemistry, laboratory reagent, for the detection of: potassium.
- Appearance: Yellowish to brown powder

Art. No.	Volume	Container
S002400025	25 g	⊘
S002400100	100 g	⊘

Sodium hydrogen carbonate

- Synonyms: Sodium bicarbonate
- NaHCO₃
- M = 84,01 g/mol
- CAS [144-55-8]
- EINECS-No.: 205-633-8
- Solub. in water: (20 °C): 95,5 g/l
- Melting point: 270 °C (decomposes)
- Vapour pressure: (30 °C) 8,3 hPa
- LD 50 (oral, rat): 4220 mg/kg
- Tariff number: 2836 30 00 00
- Applications: analytical chemistry, laboratory reagent, to make sodium salts, for laboratory glassware cleaning, source of CO₂, in fire extinguishers, in food industry (E-500).

SO0128 Sodium hydrogen carbonate, pure

assay (acidimetric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S00128005P	5 kg	⊘	S00128025P	25 kg	⊘

SO0129 Sodium hydrogen carbonate, extra pure, Ph Eur, BP, USP

assay (acidimetric, on dried sample) 99,0 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S001290500	500 g	⊘	S00129005P	5 kg	⊘
S001291000	1 kg	⊘	S00129025P	25 kg	⊘

SO0132 Sodium hydrogen carbonate, powder, Ph Eur, USP, GMP, suitable for use as excipient

assay (acidimetric, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S001321000	1 kg	⊘	S00132025P	25 kg	⊘

SO0131 Sodium hydrogen carbonate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric, on dried sample) 99,7 - 100,3 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S001310500	500 g	⊘	S00131005P	5 kg	⊘
S001311000	1 kg	⊘	S00131025P	25 kg	⊘

SO0130 Sodium hydrogen carbonate, HPLC grade

assay (acidimetric) min. 99,5 %
max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength: absorbance:
240 nm. 0,1 AU
250 nm. 0,04 AU
260 nm. 0,02 AU
280 nm. 0,01 AU

Art. No.	Volume	Container
S001300250	250 g	⊘

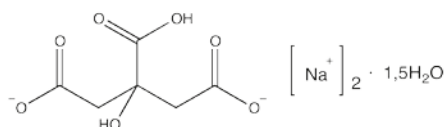
Sodium hydrogen carbonate, saturated solution

SO0133 Sodium hydrogen carbonate, saturated solution

- NaHCO₃
- M = 84,01 g/mol
- CAS [144-55-8]
- EINECS-No.: 205-633-8
- Density: 1,05 g/cm³
- LD 50 (oral, rat): 4220 mg/kg (anhydrous substance)
- Tariff number: 2836 30 00 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
S001331000	1 l	⊘

di-Sodium hydrogen citrate 1,5-hydrate



- $C_6H_7Na_2O_7 \cdot 1,5H_2O$
- $M = 283,11 \text{ g/mol}$
- CAS [6132-05-4]
- EINECS-No.: 205-623-3
- Melting point: 149 °C
- Tariff number: 2918 15 00 90
- Applications: for pharmaceuticals synthesizing (anticoagulant).

S00350 di-Sodium hydrogen citrate 1,5-hydrate, extra pure, Pharmapur®, BP

assay (titration with $HClO_4$) min. 99 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S003501000	1 kg	Ⓟ

S00349 di-Sodium hydrogen citrate 1,5-hydrate, reagent grade, Reag. Ph Eur

assay (titration with $HClO_4$) 98 - 104 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S003490500	500 g	Ⓟ	S00349005P	5 kg	Ⓟ
S003491000	1 kg	Ⓟ			

di-Sodium hydrogen phosphate anhydrous

- Synonyms: Disodium hydrogen phosphate, Sodium phosphate dibasic
- Na_2HPO_4
- $M = 141,96 \text{ g/mol}$
- CAS [7558-79-4]
- EINECS-No.: 231-448-7
- Solub. in water: (20 °C): 77 g/l
- Melting point: ~ 250 °C (decomposes)
- LD 50 (oral, rat): 17000 mg/kg
- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, in buffer solutions.

S00335 di-Sodium hydrogen phosphate anhydrous, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (acidimetric, on dried sample) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S003350500	500 g	Ⓟ	S00335005P	5 kg	Ⓟ
S003351000	1 kg	Ⓟ	S00335025P	25 kg	Ⓟ

S00352 di-Sodium hydrogen phosphate anhydrous, powder, Pharmapur®, USP, GMP, suitable for use as excipient

assay (acidimetric, on dried sample) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S003521000	1 kg	Ⓟ	S00352025P	25 kg	Ⓟ

S00337 di-Sodium hydrogen phosphate anhydrous, reagent grade, ACS, Reag. Ph Eur

assay (acidimetric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S003370500	500 g	Ⓟ	S00337005P	5 kg	Ⓟ
S003371000	1 kg	Ⓟ	S00337025P	25 kg	Ⓟ

S00329 di-Sodium hydrogen phosphate anhydrous, molecular biology grade

assay (acidimetric) min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
S003290250	250 g	Ⓟ	S003291000	1 kg	Ⓟ

di-Sodium hydrogen phosphate dihydrate

- Synonyms: Sodium monohydrogen phosphate, Sodium phosphate dibasic
- $Na_2HPO_4 \cdot 2H_2O$
- $M = 177,99 \text{ g/mol}$
- CAS [10028-24-7]
- EINECS-No.: 231-448-7
- Solub. in water: (20 °C): 93 g/l
- Melting point: 92,5 °C (release of crystalline water)
- LD 50 (oral, rat): 17000 mg/kg (anhydrous substance)
- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, in buffer solutions (phosphates).

S00338 di-Sodium hydrogen phosphate dihydrate, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (acidimetric, on dried sample) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S003380500	500 g	Ⓟ	S00338005P	5 kg	Ⓟ
S003381000	1 kg	Ⓟ	S00338025P	25 kg	Ⓟ

S00351 di-Sodium hydrogen phosphate dihydrate, crystallized, Pharmapur®, Ph Eur, USP, GMP, suitable for use as excipient

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S003511000	1 kg	Ⓟ	S00351025P	25 kg	Ⓟ



S00339 di-Sodium hydrogen phosphate dihydrate, reagent grade, Reag. Ph Eur

assay (acidimetric) min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	S003390500	500 g	⊘	S00339005P	5 kg	⊘
	S003391000	1 kg	⊘			

S00345 di-Sodium hydrogen phosphate dihydrate, HPLC grade

assay (acidimetric) min. 99,5 %	max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at wavelength:	absorbance:	Art. No.	Volume	Container
	230 nm.	0,1 AU	S003450250	250 g	⊘
	260 nm.	0,06 AU			
	280 nm.	0,04 AU			
	320 nm.	0,02 AU			

di-Sodium hydrogen phosphate dodecahydrate

- Synonyms: Sodium monohydrogen phosphate, Sodium phosphate dibasic
- $\text{Na}_2\text{HPO}_4 \cdot 12\text{H}_2\text{O}$
- $M = 358,14 \text{ g/mol}$
- CAS [10039-32-4]
- EINECS-No.: 231-448-7
- Solub. in water: (20 °C): ~ 218 g/l
- Melting point: 35 °C
- LD 50 (oral, rat): 17000 mg/kg (anhydrous substance)
- Tariff number: 2835 22 00 00
- Applications: analytical chemistry, in buffer solutions (phosphates), in porcelain industry, cosmetics, pharmaceutical and food industries, in pharma industry.

S00336 di-Sodium hydrogen phosphate dodecahydrate, extra pure, Pharmpur®, Ph Eur, BP

assay (acidimetric) 98,5 - 102,5 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	S003360500	500 g	⊘	S00336005P	5 kg	⊘
	S003361000	1 kg	⊘	S00336025P	25 kg	⊘

S00343 di-Sodium hydrogen phosphate dodecahydrate, reagent grade, ISO

assay (acidimetric) 99 - 102 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	S003430500	500 g	⊘	S00343005P	5 kg	⊘
	S003431000	1 kg	⊘			

di-Sodium hydrogen phosphate heptahydrate**S00346 di-Sodium hydrogen phosphate heptahydrate, crystallized, Pharmpur®, USP, GMP, suitable for use as excipient**

- Synonyms: Sodium monohydrogen phosphate, Sodium phosphate dibasic
- $\text{Na}_2\text{HPO}_4 \cdot 7\text{H}_2\text{O}$
- $M = 268,03 \text{ g/mol}$
- CAS [7782-85-6]
- EINECS-No.: 231-448-7
- Solub. in water: (20 °C): 154 g/l
- Melting point: 48 °C (release of crystalline water)
- LD 50 (oral, rat): 12930 mg/kg
- Applications: pharmaceutical industry
- Tariff number: 2835 22 00 00
- Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S003461000	1 kg	⊘
S00346025P	25 kg	⊘

Sodium hydrogen selenite**S00160 Sodium hydrogen selenite, for microbiology**

- Synonyms: Sodium biselenite
- NaHSe_3
- $M = 150,95 \text{ g/mol}$
- CAS [7782-82-3]
- EINECS-No.: 231-966-3
- Solub. in water: (20 °C): 580 g/l
- LD 50 (oral, rat): 2,5 mg/kg
- EC-Index-No.: 034-002-00-8
- ADR: 6.1 T5 | UN 2630
- IMDG: 6.1 | UN 2630
- IATA/ICAO: 6.1 | UN 2630
- GHS-signal word: Danger
- GHS-H sentences: H301 - H331 - H373 - H410
- GHS-P sentences: P260 - P261 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2842 90 10

Art. No.	Volume	Container
S001600100	100 g	⊘

Sodium hydrogen sulfate anhydrous**S00150 Sodium hydrogen sulfate anhydrous, extra pure**

- Synonyms: Sodium bisulfate
- NaHSO_4
- $M = 120,06 \text{ g/mol}$
- CAS [7681-38-1]
- EINECS-No.: 231-665-7
- Solub. in water: (25 °C): 286 g/l
- Melting point: 315 °C
- EC-Index-No.: 016-046-00-X
- ADR: 8 C2 III UN 3260
- IMDG: 8 III UN 3260
- IATA/ICAO: 8 III UN 3260
- GHS-signal word: Danger
- GHS-H sentences: H318
- GHS-P sentences: P280 - P305 + P351 + P338 - P310
- Tariff number: 2833 19 00 00
- Applications: analytical chemistry, in the textile industry, in building materials.
- assay (acidimetric) min. 97 %

Art. No.	Volume	Container
S001500500	500 g	⊘
S001501000	1 kg	⊘
S00150005P	5 kg	⊘

Sodium hydrogen sulfite, solution 40%

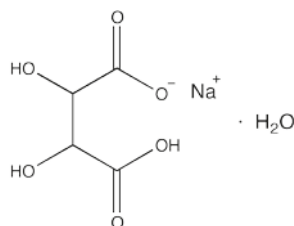
SO0417 Sodium hydrogen sulfite, solution 40%, extra pure

- Synonyms: Sodium bisulfite, Bisulfite, Sodium bisulfite solution
- NaHSO₃
- M = 104,06 g/mol
- CAS [7631-90-5]
- EINECS-No.: 231-548-0
- Density: 1,25 g/cm³
- Solub. in water: (20 °C): 540 g/l
- Melting point: -44 °C
- Boiling point: 146 °C
- Vapour pressure: (20 °C) 40 hPa
- LD 50 (oral, rat): 1540 mg/kg (pure substance)
- EC-Index-No.: 016-064-00-8
- ADR: 8 C1 III UN 2693
- IMDG: 8 III UN 2693
- IATA/ICAO: 8 III UN 2693
- GHS-H sentences: EUH031 - EUH210
- Tariff number: 2832 10 00 00
- Applications: laboratory reagent, synthesis of organic products, in food industry (E 222), preservative agent, bleaching agent.

Art. No.	Volume	Container
S004171000	1 l	Ø
S00417025P	25 l	Ø

Sodium hydrogen tartrate monohydrate

SO0419 Sodium hydrogen tartrate monohydrate, reagent grade



- Synonyms: Sodium bitartrate monohydrate
- C₄H₅NaO₆·H₂O
- M = 190,09 g/mol
- CAS [526-94-3]
- EINECS-No.: 208-400-9
- Solub. in water: (20 °C): 89 g/l
- Melting point: 253 °C
- Tariff number: 2918 13 00 90
- Applications: analytical chemistry, for the detection of: potassium; nutrient media for bacterial culture
- assay (acidimetric) 99,5 - 100,5 %

Art. No.	Volume	Container
S004190500	500 g	Ø
S004191000	1 kg	Ø

Sodium hydroxide

- Synonyms: Caustic soda
- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Solub. in water: (20 °C): soluble
- Melting point: 323 °C
- Boiling point: 1390 °C
- EC-Index-No.: 011-002-00-6
- ADR: 8 C6 II UN 1823
- IMDG: 8 II UN 1823
- IATA/ICAO: 8 II UN 1823
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 11 00 00
- Applications: solutions: to neutralize acids, to make sodium salts, to precipitate metals (as hydroxides) from water solutions of their salts.

SO0418 Sodium hydroxide, granulated, synthesis grade

assay (acidimetric) min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S004181000	1 kg	Ø	S00418025P	25 kg	Ø
S00418005P	5 kg	Ø			

SO0420 Sodium hydroxide, pellets, extra pure, Ph Eur, BP, NF

assay (acidimetric) 95 - 100,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S004200500	500 g	Ø	S00420005P	5 kg	Ø
S004201000	1 kg	Ø	S00420025P	25 kg	Ø

SO0475 Sodium hydroxide, pellets, Ph Eur, GMP, suitable for use as excipient

assay (acidimetric) 97 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S004751000	1 kg	Ø	S00475025P	25 kg	Ø
S00475005P	5 kg	Ø			

SO0425 Sodium hydroxide, pellets, reagent grade, ACS, ISO, Reag. Ph Eur

assay (acidimetric) min. 98,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S004250500	500 g	Ø	S00425005P	5 kg	Ø
S004251000	1 kg	Ø	S00425025P	25 kg	Ø

Sodium hydroxide, solution 50%

SO0424 Sodium hydroxide, solution 50% w/v, extra pure

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: ~ 1,4 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 12 °C
- Boiling point: 143 °C
- Vapour pressure: (20 °C) 2 hPa
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent, solvents, for pharmaceuticals synthesizing, for the synthesis of: inorganic salts.

Art. No.	Volume	Container
S004241000	1 l	Ø
S00424005P	5 l	Ø
S00424025P	25 l	Ø

Sodium hydroxide, solution 40%

SO0422 Sodium hydroxide, solution 40% w/v, extra pure

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,3293 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent, solvents, for pharmaceuticals synthesizing, for the synthesis of: inorganic salts.

Art. No.	Volume	Container
S004221000	1 l	Ø
S00422005P	5 l	Ø
S00422010C	10 l	Ø
S00422025P	25 l	Ø

Sodium hydroxide, solution 35%

SO0423 Sodium hydroxide, solution 35% w/v, extra pure

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: ~ 1,3 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 9 °C
- Boiling point: 119 °C
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent, solvents, for pharmaceuticals synthesizing, for the synthesis of: inorganic salts.

Art. No.	Volume	Container
S00423005P	5 l	Ø
S00423025P	25 l	Ø

Sodium hydroxide, solution 32%

SO0426 Sodium hydroxide, solution 32% w/v, for the determination of nitrogen

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,26 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 9 °C
- Boiling point: 119 °C
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent, for determination of: nitrogen.

Art. No.	Volume	Container
S004261000	1 l	Ø
S00426005P	5 l	Ø
S00426025P	25 l	Ø

Sodium hydroxide, solution 30%

SO0421 Sodium hydroxide, solution 30% w/v, extra pure

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,27 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
S004211000	1 l	Ø
S00421005P	5 l	Ø
S00421025P	25 l	Ø

Sodium hydroxide, solution 25%

SO0433 Sodium hydroxide, solution 25% w/v, extra pure

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: ~ 1,23 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
S004331000	1 l	Ø
S00433005P	5 l	Ø
S00433025P	25 l	Ø

Sodium hydroxide, solution 20%

SO0412 Sodium hydroxide, solution 20% w/v, extra pure

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: ~ 1,21 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -26 °C
- Boiling point: 100 °C
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
S004120500	500 ml	Ø


Sodium hydroxide, volumetric solutions

SO0451 Sodium hydroxide, solution 6 mol/l (6 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: ~ 1,23 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824

- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.



Art. No.	Volume	Container
SO04511000	1 l	

SO0455 Sodium hydroxide, solution 5 mol/l (5 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: ~ 1,18 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824

- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.



Art. No.	Volume	Container
SO04551000	1 l	
SO0455005P	5 l	

SO0440 Sodium hydroxide, solution 2 mol/l (2 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,09 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824

- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.



Art. No.	Volume	Container
SO04401000	1 l	
SO0440005P	5 l	

SO0430 Sodium hydroxide, solution 1,66 mol/l (1,66 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: ~ 1,07 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824

- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00




- Applications: for the determination of total acidity in vinegar.

Art. No.	Volume	Container
SO04301000	1 l	
SO0430005P	5 l	

SO0441 Sodium hydroxide, solution 1 mol/l (1 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,05 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824




- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
SO04411000	1 l	
SO0441005P	5 l	
SO0441010C	10 l	

SO0442 Sodium hydroxide, solution 0,5 mol/l (0,5 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,02 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824
- IMDG: 8 II UN 1824

- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.


Art. No.	Volume	Container
SO04421000	1 l	
SO0442005P	5 l	
SO0442010C	10 l	

SO0452 Sodium hydroxide, solution 0,4 mol/l (0,4 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,02 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 III UN 1824

- IMDG: 8 III UN 1824
- IATA/ICAO: 8 III UN 1824
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, titrant in volumetric analysis.


Art. No.	Volume	Container
SO04521000	1 l	

SO0449 Sodium hydroxide, solution 0,3546 mol/l (0,3546 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,01 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 III UN 1824

- IMDG: 8 III UN 1824
- IATA/ICAO: 8 III UN 1824
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for acid solutions standardization, for the analysis of: oils.


Art. No.	Volume	Container
SO04491000	1 l	

SO0474 Sodium hydroxide, solution 0,313 mol/l (0,313 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,02 g/cm³
- Solub. in water: (20 °C): miscible

- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 III UN 1824
- IMDG: 8 III UN 1824
- IATA/ICAO: 8 III UN 1824
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2815 12 00 00



Art. No.	Volume	Container
S00474005P	5 l	

SO0444 Sodium hydroxide, solution 0,25 mol/l (0,25 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,01 g/cm³
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 III UN 1824

- IMDG: 8 III UN 1824
- IATA/ICAO: 8 III UN 1824
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, titrant in volumetric analysis.



Art. No.	Volume	Container
S004441000	1 l	
S00444010C	10 l	

SO0464 Sodium hydroxide, solution 1/4,9 mol/l (1/4,9 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6

- ADR: 8 C5 III UN 1824
- IMDG: 8 III UN 1824
- IATA/ICAO: 8 III UN 1824
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313

- Tariff number: 2815 12 00 00


Art. No.	Volume	Container
S004640500	500 ml	
S004641000	1 l	

SO0445 Sodium hydroxide, solution 0,2 mol/l (0,2 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 III UN 1824

- IMDG: 8 III UN 1824
- IATA/ICAO: 8 III UN 1824
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2815 12 00 00




- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for acid solutions standardization.

Art. No.	Volume	Container
S004451000	1 l	

SO0429 Sodium hydroxide, solution 1/9 mol/l (1/9 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,004 g/cm³




- EC-Index-No.: 011-002-00-6
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
S004291000	1 l	
S00429005P	5 l	
S00429010C	10 l	

SO0443 Sodium hydroxide, solution 0,1 mol/l (0,1 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,00 g/cm³



- EC-Index-No.: 011-002-00-6
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
S004431000	1 l	
S00443005P	5 l	
S00443010C	10 l	

SO0453 Sodium hydroxide, solution 0,05 mol/l (0,05 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,003 g/cm³



- EC-Index-No.: 011-002-00-6
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
S004531000	1 l	
S00453010C	10 l	

SO0447 Sodium hydroxide, solution 0,025 mol/l (0,025 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,00 g/cm³



- EC-Index-No.: 011-002-00-6
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for acid solutions standardization.

Art. No.	Volume	Container
S004471000	1 l	
S00447010C	10 l	

SO0465 Sodium hydroxide, solution 1/49 mol/l (1/49 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,00 g/cm³

- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent.

Art. No.	Volume	Container
S004650500	500 ml	
S004651000	1 l	

SO0448 Sodium hydroxide, solution 0,02 mol/l (0,02 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,00 g/cm³
- EC-Index-No.: 011-002-00-6

- Tariff number: 2815 12 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for acid solutions standardization, for the determination of total acidity in vinegar.

Art. No.	Volume	Container
SO04480500	500 ml	Ⓟ
SO04481000	1 l	Ⓟ

SO0439 Sodium hydroxide, solution 0,01 mol/l (0,01 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,00 g/cm³
- EC-Index-No.: 011-002-00-6
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis, for acid solutions standardization.

Art. No.	Volume	Container
SO04390500	500 ml	Ⓟ
SO04391000	1 l	Ⓟ
SO0439005P	5 l	Ⓟ
SO0439010C	10 l	Ⓟ

SO0428 Sodium hydroxide, concentrated solution to prepare 1 l of solution 1 mol/l (1 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,38 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824

- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00

- Applications: solutions: to neutralize acids, to make sodium salts, to precipitate metals (as hydroxides) from water solutions of their salts.

Art. No.	Volume	Container
SO042800PA	u.	Ⓟ

SO0434 Sodium hydroxide, concentrated solution to prepare 1 l of solution 0,5 mol/l (0,5 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,185 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824

- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00

- Applications: solutions: to neutralize acids, to make sodium salts, to precipitate metals (as hydroxides) from water solutions of their salts.

Art. No.	Volume	Container
SO043400PA	u.	Ⓟ

SO0427 Sodium hydroxide, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,1 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,09 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 II UN 1824

- IMDG: 8 II UN 1824
- IATA/ICAO: 8 II UN 1824
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 12 00 00

- Applications: solutions: to neutralize acids, to make sodium salts, to precipitate metals (as hydroxides) from water solutions of their salts.

Art. No.	Volume	Container
SO042700PA	u.	Ⓟ

SO0438 Sodium hydroxide, concentrated solution to prepare 1 l of solution 0,01 mol/l (0,01 N)

- NaOH
- M = 40,00 g/mol
- CAS [1310-73-2]
- EINECS-No.: 215-185-5
- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible

- EC-Index-No.: 011-002-00-6
- ADR: 8 C5 III UN 1824
- IMDG: 8 III UN 1824
- IATA/ICAO: 8 III UN 1824
- Tariff number: 2815 12 00 00

- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
SO043800PA	u.	Ⓟ

Sodium hypochlorite, solution 15%

SO0436 Sodium hypochlorite, solution 15% w/v, extra pure

- Synonyms: Clorox
- NaClO
- M = 74,44 g/mol
- CAS [7681-52-9]
- EINECS-No.: 231-668-3
- Density: (20 °C) ~ 1,22 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -16 °C
- Boiling point: ~ 97 °C
- Vapour pressure: (20 °C) ~ 25 hPa

- LD 50 (oral, rat): 8200 mg/kg (pure substance)
- EC-Index-No.: 017-011-00-1
- ADR: 8 C9 III UN 1791
- IMDG: 8 III UN 1791
- IATA/ICAO: 8 III UN 1791
- GHS-signal word: Danger
- GHS-H sentences: H314 - EUH031
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2828 90 00 00

- Applications: bleaching agent, disinfectant.

Art. No.	Volume	Container
SO04361000	1 l	Ⓟ
SO0436005P	5 l	Ⓟ
SO0436025P	25 l	Ⓟ

Sodium

Sodium hypochlorite, solution 10%

SO0432 Sodium hypochlorite, solution 10% w/v, extra pure

- Synonyms: Clorox
- NaClO
- M = 74,44 g/mol
- CAS [7681-52-9]
- EINECS-No.: 231-668-3
- Density: 1,12 - 1,18 g/cm³
- EC-Index-No.: 017-011-00-1
- ADR: 8 C9 III UN 1791

- IMDG: 8 III UN 1791
- IATA/ICAO: 8 III UN 1791
- GHS-signal word: Danger
- GHS-H sentences: H314 - EUH031
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2828 90 00 00
- Applications: bleaching agent, disinfectant.

Art. No.	Volume	Container
S004321000	1 l	⊘
S00432005P	5 l	⊘
S00432025P	25 l	⊘

Sodium hypochlorite, solution 5%

SO0431 Sodium hypochlorite, solution 5% w/v, extra pure

- Synonyms: Clorox
- NaClO
- M = 74,44 g/mol
- CAS [7681-52-9]
- EINECS-No.: 231-668-3
- Density: 1,10 g/cm³
- EC-Index-No.: 017-011-00-1

- GHS-signal word: Danger
- GHS-H sentences: H318 - H315
- GHS-P sentences: P280 - P305 + P351 + P338 - P310 - P321 - P362 - P332 + P313
- Tariff number: 2828 90 00 00
- Applications: bleaching agent, disinfectant, in the production of chlorides.

Art. No.	Volume	Container
S004311000	1 l	⊘
S00431005P	5 l	⊘
S00431025P	25 l	⊘

Sodium iodate

SO0825 Sodium iodate, reagent grade

- NaIO₃
- M = 197,89 g/mol
- CAS [7681-55-2]
- EINECS-No.: 231-672-5
- Solub. in water: (20 °C): 81 g/l
- ADR: 5.1 O2 II UN 1479
- IMDG: 5.1 II UN 1479
- IATA/ICAO: 5.1 II UN 1479

- GHS-signal word: Danger
- GHS-H sentences: H271
- GHS-P sentences: P221 - P283 - P210 - P306 + P360 - P371 + P380 + P375 - P501a
- Tariff number: 2829 90 80 00
- Applications: analytical chemistry, laboratory reagent, antiseptic.
- Appearance: White-fine crystalline powder

assay (iodometric) min. 99,5 %

Art. No.	Volume	Container
S008250100	100 g	⊘

Sodium iodide

- NaI
- M = 149,89 g/mol
- CAS [7681-82-5]
- EINECS-No.: 231-679-3
- Solub. in water: (20 °C): soluble

- Melting point: 662 °C
- Boiling point: 1304 °C
- Vapour pressure: (767 °C) 1,3 hPa
- LD 50 (oral, rat): 4340 mg/kg
- Tariff number: 2827 60 00 00

- Applications: analytical chemistry, laboratory reagent, photography, synthesis of organic products, in optics, in the pharmaceuticals industry.

SO0835 Sodium iodide, extra pure, Pharmapur®, Ph Eur, BP, USP

assay (argentometric, on dried sample) 99,0 - 101,5 %

Art. No.	Volume	Container
S008350250	250 g	⊘

Art. No.	Volume	Container
S008351000	1 kg	⊘

SO0837 Sodium iodide, reagent grade, ACS, Reag. Ph Eur

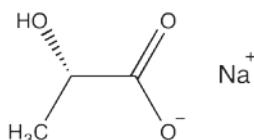
assay (argentometric) min. 99,5 %

Art. No.	Volume	Container
S008370100	100 g	⊘
S008370250	250 g	⊘

Art. No.	Volume	Container
S008370500	500 g	⊘
S008371000	1 kg	⊘

Sodium lactate, solution 50%

SO0460 Sodium lactate, solution 50% w/w, extra pure, Pharmapur®, Ph Eur, BP, USP

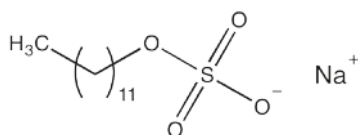


- Synonyms: L-2-Hydroxypropanoic acid sodium salt, Lactic acid sodium salt
- C₃H₅NaO₃
- M = 112,06 g/mol
- CAS [867-56-1]
- EINECS-No.: 200-772-0
- Density: 1,263 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: 109 °C
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2918 11 00 00
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, in food industry (E 325), humectant, in pharma industry.

assay (titration with HClO₄) min. 50 %
 methanol (G.C.) max. 0,005%
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S004601000	1 l	⊘
S00460005P	5 l	⊘
S00460025P	25 l	⊘

Sodium lauryl sulfate



- Synonyms: Dodecyl sulfate sodium salt, SDS
- $C_{12}H_{25}NaO_4S$
- M = 288,38 g/mol
- CAS [151-21-3]
- EINECS-No.: 205-788-1
- Solub. in water: (20 °C): > 130 g/l
- Melting point: 205 °C
- Boiling point: 216 °C
- Flash pt. 170 - 180 °C
- Ignition temp.: 310,5 °C
- Vapour pressure: 0,18 Pa (20 °C)
- LD 50 (oral, rat): 1288 mg/kg
- ADR: 4.1 F1 III UN 1325
- IMDG: 4.1 III UN 1325
- IATA/ICAO: 4.1 III UN 1325
- GHS-signal word: Danger
- GHS-H sentences: H228 - H302 - H315 - H318 - H332 - H335 - H412 -
- GHS-P sentences: P210 - P261 - P280 - P302 + P352 - P304 + P340 - P305 + P351 + P338 - P312 - P405 - P501a
- Tariff number: 2920 90 10 90
- Applications: in biochemistry, for determination of: tensioactive substances.
- Appearance: White

SO0450 Sodium lauryl sulfate, 95%, extra pure



Art. No.	Volume	Container	Art. No.	Volume	Container
SO04500500	500 g	Ⓟ	SO0450005P	5 kg	Ⓟ
SO04501000	1 kg	Ⓟ			

SD0010 Sodium lauryl sulfate, molecular biology grade



assay (complexometric)min. 99 %
DNases, RNases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
SD00100050	50 g	Ⓟ	SD00101000	1 kg	Ⓟ
SD00100500	500 g	Ⓟ			

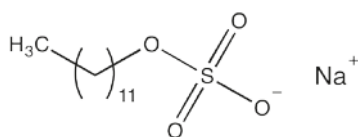
SO0456 Sodium lauryl sulfate, for ion-pair chromatography



Art. No.	Volume	Container	Art. No.	Volume	Container
SO04560025	25 g	Ⓟ	SO04560100	100 g	Ⓟ

Sodium lauryl sulfate, volumetric solutions

SO0458 Sodium lauryl sulfate, solution 0,004 mol/l



- $C_{12}H_{25}NaO_4S$
- M = 288,38 g/mol
- CAS [151-21-3]
- EINECS-No.: 205-788-1
- Density: 1,00 g/cm³
- LD 50 (oral, rat): 1288 mg/kg (pure substance)
- Tariff number: 2920 90 10 90
- Applications: analytical chemistry, for determination of: tensioactive substances.

Art. No.	Volume	Container
SO04581000	1 l	Ⓟ

Sodium metaarsenite, volumetric solutions

SO0100 Sodium metaarsenite, solution 0,05 mol/l (0,1 N)



- NaAsO₂
- M = 129,91 g/mol
- CAS [7784-46-5]
- EINECS-No.: 232-070-5
- Density: 1,01 g/cm³
- LD 50 (oral, rat): 41 mg/kg (pure substance)
- EC-Index-No.: 033-002-00-5
- ADR: 6.1 T4 III UN 1686
- IMDG: 6.1 III UN 1686
- IATA/ICAO: 6.1 III UN 1686
- GHS-signal word: Danger
- GHS-H sentences: H350 - H412
- GHS-P sentences: P281 - P273 - P201 - P308 + P313 - P405 - P501a
- Tariff number: 2842 90 90 00
- Applications: analytical chemistry, titrant in volumetric analysis.

Art. No.	Volume	Container
SO01001000	1 l	Ⓟ

Sodium metaperiodate

- Synonyms: Sodium periodate
- NaIO₄
- M = 213,89 g/mol
- CAS [7790-28-5]
- EINECS-No.: 232-197-6
- Solub. in water: (20 °C): 91 g/l
- Melting point: 300 °C (decomposes)
- ADR: 5.1 O2 I UN 1479
- IMDG: 5.1 I UN 1479
- IATA/ICAO: 5.1 I UN 1479
- GHS-signal word: Danger
- GHS-H sentences: H271
- GHS-P sentences: P221 - P283 - P210 - P306 + P360 - P371 + P380 + P375 - P501a

- Tariff number: 2829 90 80 00
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, for laboratory glass-ware cleaning.
- Appearance: White to almost white crystals

SO0564 Sodium metaperiodate, extra pure



assay (iodometric)min. 99 %

Art. No.	Volume	Container
SO05641000	1 kg	Ⓟ

SO0565 Sodium metaperiodate, reagent grade, ACS, Reag. Ph Eur



assay (iodometric, on dried sample)99,8 - 100,3 %

Art. No.	Volume	Container	Art. No.	Volume	Container
SO05650100	100 g	Ⓟ	SO05650250	250 g	Ⓟ

Sodium metavanadate

SO0820 Sodium metavanadate, synthesis grade 

- Synonyms: Sodium monovanadate, Sodium vanadate(V)
- NaVO_3
- $M = 121,93 \text{ g/mol}$
- CAS [13718-26-8]
- EINECS-No.: 237-272-7
- Solub. in water: (25 °C): ~ 210 g/l
- Melting point: 630 °C
- LD 50 (oral, rat): 98 mg/kg
- ADR: 6.1 T5 III UN 3285
- IMDG: 6.1 III UN 3285
- IATA/ICAO: 6.1 III UN 3285
- GHS-signal word: Danger
- GHS-H sentences: H301 - H315 - H319 - H335
- GHS-P sentences: P261 - P301 + P310 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2841 90 30 00
- Applications: analytical chemistry, laboratory reagent, for the detection of: perborates, synthesis of organic products, photography, manufacturing of inks.

- Appearance: Light yellow solid

assay min. 96 %

Art. No.	Volume	Container
S008200100	100 g	⊘
S008200250	250 g	⊘

Sodium molybdate dihydrate

- $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$
- $M = 241,95 \text{ g/mol}$
- CAS [10102-40-6]
- EINECS-No.: 231-551-7
- Solub. in water: (20 °C): 840 g/l
- LD 50 (oral, rat): 4233 mg/kg
- Tariff number: 2841 70 00 90
- Applications: analytical chemistry, laboratory reagent, for determination of: phosphates; reagent for the following substances detection: alkaloids; for the

synthesis of: pigment; corrosion inhibitor, nutrient media for bacterial culture.

SO0489 Sodium molybdate dihydrate, extra pure, Pharpur®, Ph Eur, BP

assay (on dried sample) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
S004890100	100 g	⊘	S004891000	1 kg	⊘
S004890250	250 g	⊘			

SO0490 Sodium molybdate dihydrate, reagent grade, ACS, Reag. Ph Eur

assay (complexometric) 99,5 - 103,0 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S004900100	100 g	⊘	S004901000	1 kg	⊘
S004900250	250 g	⊘			

Sodium nitrate

- Synonyms: Nitric acid sodium salt
- NaNO_3
- $M = 84,99 \text{ g/mol}$
- CAS [7631-99-4]
- EINECS-No.: 231-554-3
- Solub. in water: (20 °C): soluble
- Melting point: 308 °C
- LD 50 (oral, rat): 1267 mg/kg
- ADR: 5.1 O2 III UN 1498
- IMDG: 5.1 III UN 1498
- IATA/ICAO: 5.1 III UN 1498
- GHS-signal word: Danger
- GHS-H sentences: H272 - H319
- GHS-P sentences: P221 - P210 - P220 - P280 - P305 + P351 + P338 - P501a
- Tariff number: 3102 50 00 90
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, in food industry (E 251), preservative agent.

SO0500 Sodium nitrate, extra pure  

assay (acidimetric) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S005000500	500 g	⊘	S00500005P	5 kg	⊘
S005001000	1 kg	⊘	S00500025P	25 kg	⊘

SO0501 Sodium nitrate, reagent grade, ACS, ISO  

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S005010500	500 g	⊘	S00501005P	5 kg	⊘
S005011000	1 kg	⊘			

Sodium nitrate, volumetric solutions

SO0505 Sodium nitrate, solution 1 mol/l 

- NaNO_3
- $M = 84,99 \text{ g/mol}$
- CAS [7631-99-4]
- EINECS-No.: 231-554-3
- Density: 1,0 g/cm³
- LD 50 (oral, rat): 1267 mg/kg (pure substance)
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 3102 50 90 00
- Applications: analytical chemistry, laboratory reagent, oxidizing agent.

Art. No.	Volume	Container
S005051000	1 l	⊘

Sodium nitrite

- NaNO_2
- $M = 69,00 \text{ g/mol}$
- CAS [7632-00-0]
- EINECS-No.: 231-555-9
- Solub. in water: (20 °C): soluble
- Melting point: 280 °C (decomposes)
- Ignition temp.: 489 °C
- LD 50 (oral, rat): 85 mg/kg
- EC-Index-No.: 007-010-00-4
- ADR: 5.1 OT2 III UN 1500
- IMDG: 5.1 III UN 1500
- IATA/ICAO: 5.1 III UN 1500
- GHS-signal word: Danger
- GHS-H sentences: H301 - H272 - H400
- GHS-P sentences: P221 - P210 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2834 10 00 00
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, synthesis of organic products, manufacture of dyes (in the textile industry), photography, in food industry.

SO0510 Sodium nitrite, synthesis grade



assay (iodometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S005100500	500 g	Ⓟ	S00510005P	5 kg	Ⓟ
S005101000	1 kg	Ⓟ			

SO0512 Sodium nitrite, reagent grade, ACS

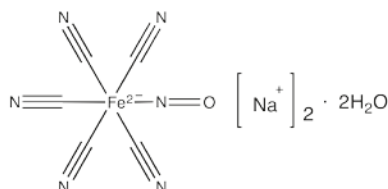


assay (permanganometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S005120500	500 g	Ⓟ	S00512005P	5 kg	Ⓟ
S005121000	1 kg	Ⓟ			

Sodium nitroprusside dihydrate

SO0520 Sodium nitroprusside dihydrate, reagent grade, ACS



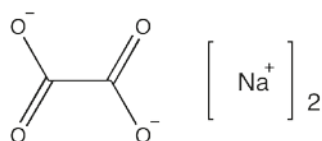
- Synonyms: Disodiumpentacyanonitrosylferrate(II) dihydrate, Disodiumnitrosylpentacyanoferrate(II) dihydrate, Sodium nitroprusside, Nitroprusside sodium
- $\text{Na}_2[\text{Fe}(\text{CN})_5\text{NO}] \cdot 2\text{H}_2\text{O}$
- M = 297,95 g/mol
- CAS [13755-38-9]
- EINECS-No.: 238-373-9
- Solub. in water: (20 °C): 400 g/l
- LD 50 (oral, rat): 99 mg/kg
- ADR: 6.1 T5 II UN 1588
- IMDG: 6.1 II UN 1588
- IATA/ICAO: 6.1 II UN 1588
- GHS-signal word: Danger

- GHS-H sentences: H301
- GHS-P sentences: P264 - P270 - P301 + P310 - P321 - P405 - P501a
- Tariff number: 2837 20 00 00
- Applications: reagent for organic compounds detection.

assay (argentometric) 99 - 102 %

Art. No.	Volume	Container
S005200100	100 g	Ⓟ
S005200250	250 g	Ⓟ
S005200500	500 g	Ⓟ

di-Sodium oxalate



- Synonyms: Oxalic acid sodium salt, Soerensen's buffer substances
- $\text{Na}_2\text{C}_2\text{O}_4$
- M = 134,01 g/mol
- CAS [62-76-0]
- EINECS-No.: 200-550-3
- Solub. in water: (20 °C): 37 g/l
- Melting point: 250 - 270 °C (decomposes)
- LD 50 (oral, rat): 7500 mg/kg (oxalic acid)

- EC-Index-No.: 607-007-00-3
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312
- GHS-P sentences: P280 - P322 - P301 + P312 - P312 - P363 - P501a
- Tariff number: 2917 11 00 99
- Applications: analytical chemistry, reference material.
- Appearance: White solid

SO0529 di-Sodium oxalate, extra pure



assay (permanganometric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S005290500	500 g	Ⓟ	S00529005P	5 kg	Ⓟ
S005291000	1 kg	Ⓟ	S00529025P	25 kg	Ⓟ

SO0530 di-Sodium oxalate, reagent grade, ACS, Reag. Ph Eur



assay (permanganometric) min. 99,8 %

Art. No.	Volume	Container	Art. No.	Volume	Container
S005300500	500 g	Ⓟ	S00530005P	5 kg	Ⓟ
S005301000	1 kg	Ⓟ			

SO0531 di-Sodium oxalate, secondary standard for volumetric titrations, Titasure®



assay (on dried sample) ≥ 99,7 %

Art. No.	Volume	Container
S005310080	80 g	Ⓟ

Sodium perchlorate monohydrate

SO0535 Sodium perchlorate monohydrate, extra pure, Reag. Ph Eur



- $\text{NaClO}_4 \cdot \text{H}_2\text{O}$
- M = 140,46 g/mol
- CAS [7791-07-3]
- EINECS-No.: 231-511-9
- Solub. in water: (20 °C): soluble
- Melting point: 130 °C
- LD 50 (oral, rat): 2100 mg/kg (anhydrous substance)
- EC-Index-No.: 017-010-00-6
- ADR: 5.1 O2 II UN 1502

- IMDG: 5.1 II UN 1502
- IATA/ICAO: 5.1 II UN 1502
- GHS-signal word: Danger
- GHS-H sentences: H271 - H302
- GHS-P sentences: P221 - P283 - P210 - P306 + P360 - P371 + P380 + P375 - P501a
- Tariff number: 2829 90 10 00
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, precipitant for: potassium.

assay (argentometric)min. 99 %

Art. No.	Volume	Container
S005350500	500 g	Ⓟ

Sodium peroxide

SO0555 Sodium peroxide, extra pure



- Na₂O₂
- M = 77,98 g/mol
- CAS [1313-60-6]
- EINECS-No.: 215-209-4
- Solub. in water: (20 °C): 100 g/l (decomposes)
- Melting point: 460 °C
- Boiling point: 657 °C (decomposes)
- EC-Index-No.: 011-003-00-1
- ADR: 5.1 O2 I UN 1504
- IMDG: 5.1 I UN 1504

- IATA/ICAO: 5.1 I UN 1504
- GHS-signal word: Danger
- GHS-H sentences: H271 - H314
- GHS-P sentences: P221 - P283 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2815 30 00 00
- Applications: oxidizing agent, synthesis of organic products, manufacture of dyes (in the textile industry).

assay (permanganometric)min. 95 %

Art. No.	Volume	Container
SO05550100	100 g	⊘
SO05550250	250 g	⊘
SO05551000	1 kg	⊘

Sodium peroxodisulfate

SO0540 Sodium peroxodisulfate, extra pure



- Synonyms: Sodium persulfate, Peroxydisulfuric acid disodium salt
- Na₂S₂O₈
- M = 238,09 g/mol
- CAS [7775-27-1]
- EINECS-No.: 231-892-1
- Solub. in water: (20 °C): 545 g/l
- LD 50 (oral, rat): 920 mg/kg
- ADR: 5.1 O2 III UN 1505
- IMDG: 5.1 III UN 1505

- IATA/ICAO: 5.1 III UN 1505
- GHS-signal word: Danger
- GHS-H sentences: H272 - H334 - H302 - H335 - H315 - H319 - H317
- GHS-P sentences: P221 - P210 - P285 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2833 40 00 10
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, in the electronic industry, for determination of: TOC.

• Appearance: White to almost white crystals

assay (iodometric)min. 98 %

Art. No.	Volume	Container
SO05400100	100 g	⊘
SO05401000	1 kg	⊘
SO0540005P	5 kg	⊞

Sodium peroxodisulfate solution 14% w/v + ortho-Phosphoric acid 0,73% w/v in water

SO1151 Sodium peroxodisulfate solution 14% w/v + ortho-Phosphoric acid 0,73% w/v in water



- ADR: 5.1 O1 III UN 3139
- IMDG: 5.1 III UN 3139
- IATA/ICAO: 5.1 III UN 3139
- GHS-signal word: Danger
- GHS-H sentences: H272 - H334 - H315 - H319 - H317

- GHS-P sentences: P221 - P210 - P285 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 3822 00 00 00
- Applications: for determination of: TOC.

Art. No.	Volume	Container
SO1151005P	5 l	⊞
SO1151025P	25 l	⊞

tri-Sodium phosphate anhydrous

SO0342 tri-Sodium phosphate anhydrous, extra pure



- Synonyms: tri-Sodium orthophosphate, TSP, Sodium phosphate tribasic
- Na₃PO₄
- M = 163,94 g/mol
- CAS [7601-54-9]
- EINECS-No.: 231-509-8
- Solub. in water: (20 °C): 88 g/l
- Melting point: 75 °C (decomposes)
- ADR: 8 C6 III UN 3262

- IMDG: 8 III UN 3262
- IATA/ICAO: 8 III UN 3262
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2835 23 00 00
- Applications: in food industry, photography, in the paper industry.

assay (acidimetric)min. 97 %

Art. No.	Volume	Container
SO03420250	250 g	⊘
SO03420500	500	⊘
SO03421000	1 kg	⊘

tri-Sodium phosphate dodecahydrate

SO0340 tri-Sodium phosphate dodecahydrate, reagent grade, ACS



- Synonyms: Trisodium phosphate, Sodium phosphate tribasic
- Na₃PO₄ · 12H₂O
- M = 380,12 g/mol
- CAS [10101-89-0]
- EINECS-No.: 231-509-8
- Solub. in water: (20 °C): 285 g/l
- Melting point: 75 °C
- LD 50 (oral, rat): 7400 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2835 23 00 00
- Applications: analytical chemistry, laboratory reagent, detergent, disinfectant.

Art. No.	Volume	Container
SO03400500	500 g	⊘
SO03401000	1 kg	⊘
SO0340005P	5 kg	⊞
SO0340025P	25 kg	⊞

assay (acidimetric)98 - 102 %

tri-Sodium phosphate monohydrate

SO0341 tri-Sodium phosphate monohydrate, extra pure



- Synonyms: Trisodium phosphate, Sodium phosphate tribasic
- Na₃PO₄ · H₂O
- M = 181,96 g/mol
- EINECS-No.: 231-509-8
- Solub. in water: (20 °C): soluble
- LD 50 (oral, rat): 7400 mg/kg
- ADR: 8 C6 III UN 3262
- IMDG: 8 III UN 3262

- IATA/ICAO: 8 III UN 3262
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2835 23 00 00
- Applications: analytical chemistry, in food industry.

Art. No.	Volume	Container
SO03410500	500 g	⊘
SO03411000	1 kg	⊘
SO0341005P	5 kg	⊞
SO0341025P	25 kg	⊞

assay (acidimetric)min. 98 %

Sodium phosphinate monohydrate

SO0435 Sodium phosphinate monohydrate, extra pure, Reag. Ph Eur

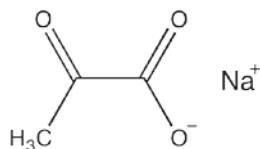
- Synonyms: Sodium hypophosphite monohydrate
- $\text{NaH}_2\text{PO}_2 \cdot \text{H}_2\text{O}$
- M = 105,99 g/mol
- CAS [10039-56-2]
- EINECS-No.: 231-669-9
- Solub. in water: (20 °C): soluble
- Melting point: > 90 °C (decomposes)
- Tariff number: 2835 10 00 10
- Applications: analytical chemistry, laboratory reagent, in buffer solutions.

Art. No.	Volume	Container
SO04350250	250 g	⊖
SO04351000	1 kg	⊖

assay (bromometric)min. 99 %

Sodium pyruvate

SO0590 Sodium pyruvate, for microbiology



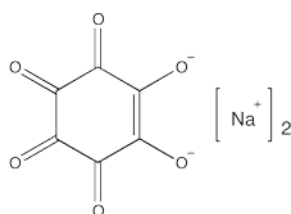
- Synonyms: Piruvic acid, sodium salt
- $\text{C}_3\text{H}_3\text{NaO}_3$
- M = 110,05 g/mol
- CAS [113-24-6]
- EINECS-No.: 204-24-4
- Melting point: 220 - 230 °C
- LD 50 (oral, rat): 5600 mg/Kg
- Tariff number: 2918 30 00 00

assay (titration with HClO_4)min. 99 %

Art. No.	Volume	Container
SO05900100	100 g	⊖
SO05900500	500 g	⊖

Sodium rhodizionate

SO0615 Sodium rhodizionate, indicator for metal titration, reagent grade



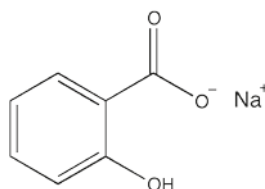
- Synonyms: 1,2-Dihydroxy-3,4,5,6-tetraoxo-1-cyclohexene disodium salt
- $\text{C}_6\text{H}_2\text{Na}_2\text{O}_6$
- M = 214,04 g/mol
- CAS [523-21-7]
- EINECS-No.: 208-340-3
- Solub. in water: (20 °C): sparingly soluble
- Tariff number: 2914 40 90 00

• Applications: analytical chemistry, indicator, for the detection of: barium, lead, tin, strontium, sulfates.
assay (titration with HClO_4)min. 98,5 %

Art. No.	Volume	Container
SO06150001	1 g	⊖

Sodium salicylate

SO0633 Sodium salicylate, reagent grade



- Synonyms: Salicylic acid sodium salt
- $\text{C}_7\text{H}_5\text{NaO}_3$
- M = 160,11 g/mol
- CAS [54-21-7]
- EINECS-No.: 200-198-0
- Solub. in water: (20 °C): soluble
- Melting point: 200 °C
- Ignition temp.: > 250 °C
- LD 50 (oral, rat): 930 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a

• Tariff number: 2918 21 00 00
• Applications: analytical chemistry, for the detection of: glucose (urine).
assay (titration with HClO_4 , on dried sample)min. 99 %

Art. No.	Volume	Container
SO06330250	250 g	⊖
SO06331000	1 kg	⊖
SO0633005P	5 kg	⊖

Sodium silicate, neutral solution

SO0640 Sodium silicate, neutral solution, pure

- Na_2SiO_3
- M = 122,07 g/mol
- CAS [1344-09-8]
- EINECS-No.: 215-687-4
- Density: 1,37 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): > 2000 mg/kg
- GHS-signal word: Danger

- GHS-H sentences: H318 - H302 - H335 - H315
- GHS-P sentences: P261 - P305 + P351 + P338 - P310 - P321 - P405 - P501a
- Tariff number: 2839 19 00 00
- Applications: analytical chemistry, manufacturing of: detergent, in the textile industry, in the paper industry, manufacture of adhesives.

Art. No.	Volume	Container
SO06401000	1 l	⊖
SO06402500	2,5 l	⊖
SO0640005P	5 l	⊖

Sodium sulfate anhydrous

- Synonyms: Sulfuric acid sodium salt
- Na_2SO_4
- M = 142,04 g/mol
- CAS [7757-82-6]
- EINECS-No.: 231-820-9
- Solub. in water: (20 °C): 160 g/l
- Melting point: 888 °C
- Boiling point: > 890 °C (decomposes)

• Tariff number: 2833 11 00 00
• Applications: analytical chemistry, organic solvents drying.

SO0665 Sodium sulfate anhydrous, powder, extra pure, Pharmapur®, Ph Eur

assay (on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
SO06650500	500 g	⊖	SO0665005P	5 kg	⊖
SO06651000	1 kg	⊖	SO0665025P	25 kg	⊖
SO06652500	2,5 kg	⊖			

SO0664 Sodium sulfate anhydrous, powder, reagent grade, ACS, ISO, Reag. Ph Eur

assaymin. 99 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	S006640500	500 g	⊕	S00664005P	5 kg	⊕
	S006641000	1 kg	⊕			

SO0667 Sodium sulfate anhydrous, granulated, reagent grade, ACS, ISO

assaymin. 99 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	S006670500	500 g	⊕	S00667005P	5 kg	⊕
	S006671000	1 kg	⊕	S00667025P	25 kg	⊕
	S006672500	2,5 kg	⊕			

SO0670 Sodium sulfate anhydrous, for GC residue analysis

assaymin. 99,5 % suitable for pesticide residue analysis.	Art. No.	Volume	Container	Art. No.	Volume	Container
	S006701000	1 kg	⊕	S00670005P	5 kg	⊕
	S006702500	2,5 kg	⊕			

Sodium sulfate decahydrate**SO0671 Sodium sulfate decahydrate, extra pure, Ph Eur, BP, USP**

<ul style="list-style-type: none"> • Synonyms: Glauber's salt • $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ • M = 322,19 g/mol • CAS [7727-73-3] • EINECS-No.: 231-820-9 • Solub. in water: (20 °C): ~ 900 g/l • Melting point: 32,4 °C • Boiling point: > 890 °C (anhydrous substance, decomposes) 		<ul style="list-style-type: none"> • Tariff number: 2833 11 00 00 • Applications: analytical chemistry, laboratory reagent, in food industry (E 514), manufacture of dyes, in pharma industry. 		Art. No.	Volume	Container
		assay (on dried sample) 98,5 - 101 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.		S006710500	500 g	⊕
				S006711000	1 kg	⊕
				S00671005P	5 kg	⊕
				S00671025P	25 kg	⊕

Sodium sulfide hydrate**SO0673 Sodium sulfide hydrate, synthesis grade**

<ul style="list-style-type: none"> • $\text{Na}_2\text{S} \cdot x\text{H}_2\text{O}$ (x = 2 - 3) • M = 78,04 g/mol • CAS [1313-84-4] • EINECS-No.: 215-211-5 • Melting point: 920 °C (anhydrous substance) • LD 50 (oral, rat): 208 mg/kg (anhydrous substance) • ADR: 6.1 TC4 II UN 3290 		<ul style="list-style-type: none"> • IMDG: 6.1 II UN 3290 • IATA/ICAO: 6.1 II UN 3290 • GHS-signal word: Danger • GHS-H sentences: H311 - H314 - H400 - H302 - EUH031 • GHS-P sentences: P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a 		<ul style="list-style-type: none"> • Tariff number: 2830 10 00 90 		Art. No.	Volume	Container
				S006730500	500 g	⊕		
				S006731000	1 kg	⊕		

Sodium sulfite

<ul style="list-style-type: none"> • Na_2SO_3 • M = 126,04 g/mol • CAS [7757-83-7] • EINECS-No.: 231-821-4 • Solub. in water: (20 °C): 220 g/l • Melting point: > 500 °C (decomposes) 		<ul style="list-style-type: none"> • LD 50 (oral, rat): 2610 mg/kg • GHS-signal word: Danger • GHS-H sentences: H334 - H317 - H413 - EUH031 • GHS-P sentences: P285 - P261 - P280 - P321 - P342 + P311 - P501a • Tariff number: 2832 10 00 00 		<ul style="list-style-type: none"> • Applications: analytical chemistry, laboratory reagent, solvents (in the cellulose industry), antibacterian, absorbent for: nitrogen oxides (gases). 	

SO0672 Sodium sulfite, extra pure, Ph Eur, BP

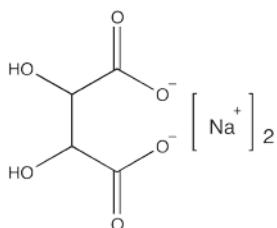
assay (iodometric) 95 - 100,5 % Residual solvents are analysed according to guideline CPMP/ICH/283/95.	Art. No.	Volume	Container	Art. No.	Volume	Container
	S006720500	500 g	⊕	S00672005P	5 kg	⊕
	S006721000	1 kg	⊕	S00672025P	25 kg	⊕

SO0669 Sodium sulfite, reagent grade, ACS, Reag. Ph Eur

assay (iodometric)min. 98 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	S006690500	500 g	⊕	S00669005P	5 kg	⊕
	S006691000	1 kg	⊕			

di-Sodium tartrate, anhydrous

SO0701 di-Sodium tartrate, anhydrous, reagent grade



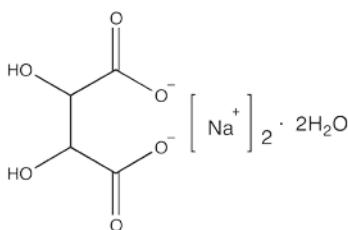
- Synonyms: Tartaric acid disodium salt
- $C_4H_4Na_2O_6$
- M = 194,06 g/mol
- CAS [868-18-8]
- EINECS-No.: 212-773-3
- Solub. in water: (20 °C): soluble
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2918 13 00 90
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, for pharmaceuticals synthesizing, cosmetics.

assay (titration with $HClO_4$) min. 99 %

Art. No.	Volume	Container
S007010250	250 g	Ⓓ
S007010500	500 g	Ⓓ
S007011000	1 kg	Ⓓ
S00701005P	5 kg	Ⓕ

di-Sodium tartrate dihydrate

SO0700 di-Sodium tartrate dihydrate, reagent grade, ACS



- Synonyms: Tartaric acid sodium salt dihydrate
- $C_4H_4Na_2O_6 \cdot 2H_2O$
- M = 230,08 g/mol
- CAS [6106-24-7]
- EINECS-No.: 212-773-3
- Solub. in water: (20 °C): 290 g/l
- Melting point: 154 °C
- LD 50 (oral, rat): 1290 mg/kg
- Tariff number: 2918 13 00 90
- Applications: analytical chemistry, laboratory reagent.

assay (titration with $HClO_4$) 99,5 - 101,0 %

Art. No.	Volume	Container
S007000250	250 g	Ⓓ
S007000500	500 g	Ⓓ
S007001000	1 kg	Ⓓ
S00700005P	5 kg	Ⓕ

di-Sodium tetraborate anhydrous

SO0704 di-Sodium tetraborate anhydrous, extra pure

- Synonyms: Sodium baborate, Sodium borate, Borax
- $Na_2B_4O_7$
- M = 201,22 g/mol
- CAS [1330-43-4]
- EINECS-No.: 215-540-4
- Solub. in water: (20 °C): 25,6 g/l
- Melting point: 742 °C
- Boiling point: 1575 °C (decomposes)
- Vapour pressure: (1200 °C) 7,3 hPa

- LD 50 (oral, rat): 2660 mg/kg (decahydrate substance)
- GHS-signal word: Danger
- GHS-H sentences: H360FD
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2840 11 00 00
- Applications: in radiology applications, synthesis of organic products, cosmetics, for pharmaceuticals synthesizing.

assay (acidimetric) min. 98 %

Art. No.	Volume	Container
S007041000	1 kg	Ⓓ
S00704005P	5 kg	Ⓕ

di-Sodium tetraborate decahydrate

- Synonyms: Borax, Sodium baborate decahydrate, Sodium borate decahydrate
- $Na_2B_4O_7 \cdot 10H_2O$
- M = 381,37 g/mol
- CAS [1303-96-4]
- EINECS-No.: 215-540-4

- Solub. in water: (20 °C): 51,4 g/l
- Melting point: 75 °C
- Boiling point: 1575 °C (anhydrous)
- Vapour pressure: (20 °C) 0,213 hPa
- LD 50 (oral, rat): 2660 mg/kg
- GHS-signal word: Danger

- GHS-H sentences: H360FD
- GHS-P sentences: P281 - P201 - P202 - P308 + P313 - P405 - P501a
- Tariff number: 2840 19 90 00
- Applications: reference material, for calibrating pH-meters, for pharmaceuticals synthesizing.

SO0705 di-Sodium tetraborate decahydrate, extra pure, Pharpur®, Ph Eur, BP, NF

assay (acidimetric) 99 - 103 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S007050500	500 g	Ⓓ

Art. No.	Volume	Container
S007051000	1 kg	Ⓓ

SO0708 di-Sodium tetraborate decahydrate, crystallized, Pharpur®, Ph Eur, GMP, suitable for use as excipient

assay (acidimetric) 99 - 103 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S007081000	1 kg	Ⓓ

Art. No.	Volume	Container
S00708025P	25 kg	Ⓕ

SO0707 di-Sodium tetraborate decahydrate, reagent grade, ACS, ISO

assay (acidimetric) 99,5 - 105,0 %

Art. No.	Volume	Container
S007070250	250 g	Ⓓ
S007070500	500 g	Ⓓ

Art. No.	Volume	Container
S007071000	1 kg	Ⓓ
S00707005P	5 kg	Ⓕ

Sodium tetrachloroaurate(III) dihydrate

OR0060 Sodium tetrachloroaurate(III) dihydrate, extra pure

- Synonyms: Gold sodium chloride
- NaAuCl₄·2H₂O
- M = 397,80 g/mol
- CAS [13874-02-7]
- EINECS-No.: 240-948-4
- Solub. in water: (20 °C): 300 g/l
- GHS-signal word: Warning
- GHS-H sentences: H317
- GHS-P sentences: P261 - P280 - P321 - P363 - P333 + P313 - P501a
- Tariff number: 2843 30 00 00
- Applications: photography, in galvanotechnia.

Art. No.	Volume	Container
OR00600001	1 g	0
OR00600020	20 g	0

Au content 49,5 %

Sodium thiocyanate

SO0675 Sodium thiocyanate, reagent grade, ACS

- Synonyms: Sodium sulfocyanide, Sodium rhodanide
- NaSCN
- M = 81,07 g/mol
- CAS [540-72-7]
- EINECS-No.: 208-754-4
- Solub. in water: (20 °C): soluble
- Melting point: 310 °C
- LD 50 (oral, rat): 764 mg/kg
- EC-Index-No.: 615-004-00-3
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332 - H412 - EUH032
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2842 90 80 80
- Applications: analytical chemistry, synthesis of organic products (thiocyanates).

assay (argentometric)min. 98 %

Art. No.	Volume	Container
SO06750500	500 g	0
SO06751000	1 kg	0
SO0675005P	5 kg	0

Sodium thiosulfate anhydrous

SO0720 Sodium thiosulfate anhydrous, extra pure

- Synonyms: Antichlor
- Na₂S₂O₃
- M = 158,10 g/mol
- CAS [7772-98-7]
- EINECS-No.: 231-867-5
- Solub. in water: (20 °C): 500 g/l
- Melting point: 48 °C
- Boiling point: 100 °C
- LD 50 (oral, rat): > 8000 mg/kg (pentahydrate)
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis (iodometric analyses), photography, laboratory reagent, for determination of: cobalt, hydrocyanic acid, quinine.

assay (iodometric, on dried sample)min. 98 %

Art. No.	Volume	Container
SO07201000	1 kg	0

Sodium thiosulfate pentahydrate

- Synonyms: Antichlor
- Na₂S₂O₃·5H₂O
- M = 248,18 g/mol
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Solub. in water: (20 °C): 680 g/l
- Melting point: 48,5 °C
- LD 50 (oral, rat): > 8000 mg/kg
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis (iodometric analyses), photography, laboratory reagent, for determination of: cobalt, hydrocyanic acid, quinine.

SO0725 Sodium thiosulfate pentahydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (iodometric) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
SO07250500	500 g	0
SO07251000	1 kg	0

Art. No.	Volume	Container
SO0725005P	5 kg	0
SO0725025P	25 kg	0

SO0727 Sodium thiosulfate pentahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (iodometric) 99,5 - 101 %

Art. No.	Volume	Container
SO07270500	500 g	0
SO07271000	1 kg	0

Art. No.	Volume	Container
SO0727005P	5 kg	0
SO0727025P	25 kg	0

Sodium thiosulfate, volumetric solutions

SO0730 Sodium thiosulfate, solution 1 mol/l (1 N)

- Na₂S₂O₃·5H₂O
- M = 248,18 g/mol
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: 1,12 g/cm³
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO07301000	1 l	0
SO0730005P	5 l	0
SO0730010C	10 l	0

SO0729 Sodium thiosulfate, solution 0,5 mol/l (0,5 N)

- Na₂S₂O₃·5H₂O
- M = 248,18 g/mol
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: 1,06 g/cm³
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO07291000	1 l	0

SO0732 Sodium thiosulfate, solution 0,282 mol/l (0,282 N)

- Na₂S₂O₃·5H₂O
- M = 248,18 g/mol
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: 1,03 g/cm³
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO07321000	1 l	0
SO0732005P	5 l	0
SO0732010C	10 l	0

SO0731 Sodium thiosulfate, solution 0,1 mol/l (0,1 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: $\sim 1,004 \text{ g/cm}^3$
- Tariff number: 2832 30 00 00

- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO07310100	100 ml	Ⓒ
SO07311000	1 l	Ⓒ
SO0731005P	5 l	Ⓒ
SO0731010C	10 l	Ⓒ

SO0737 Sodium thiosulfate, solution 0,05 mol/l (0,05 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: $1,001 \text{ g/cm}^3$

- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO07371000	1 l	Ⓒ
SO0737005P	5 l	Ⓒ

SO0733 Sodium thiosulfate, solution 0,01 mol/l (0,01 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5

- Density: $0,997 \text{ g/cm}^3$
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO07331000	1 l	Ⓒ

SO0734 Sodium thiosulfate, solution 0,002 mol/l (0,002 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5

- Density: $1,00 \text{ g/cm}^3$
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO07341000	1 l	Ⓒ

SO0728 Sodium thiosulfate, concentrated solution to prepare 1 l of solution 0,1 mol/l (0,1 N)

- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5
- Density: $\sim 1,22 \text{ g/cm}^3$

- Solub. in water: (20 °C): miscible
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO072800PA	u.	Ⓒ

SO0738 Sodium thiosulfate, concentrated solution to prepare 1 l of solution 0,01 mol/l (0,01 N)

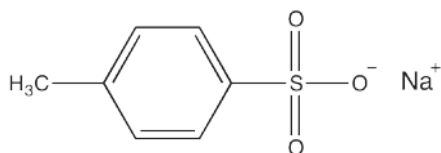
- Synonyms: Antichlor
- $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$
- $M = 248,18 \text{ g/mol}$
- CAS [10102-17-7]
- EINECS-No.: 231-867-5

- Density: $\sim 1,02 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Tariff number: 2832 30 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, reducing agent.

Art. No.	Volume	Container
SO073800PA	u.	Ⓒ

Sodium p-toluensulfonate

SO0755 Sodium p-toluensulfonate, synthesis grade



- Synonyms: 4-Toluenesulfonic acid sodium salt, p-Toluenesulfonic acid sodium salt
- $\text{C}_7\text{H}_7\text{NaO}_2\text{S}$
- $M = 194,19 \text{ g/mol}$
- CAS [657-84-1]
- EINECS-No.: 211-522-5
- Solub. in water: (20 °C): soluble
- Tariff number: 2904 10 00 90

- Applications: synthesis of organic products, laboratory reagent, photography.

assay (acidimetric) min. 98 %

Art. No.	Volume	Container
SO07550250	250 g	Ⓒ

Sodium tripolyphosphate anhydrous

SO0780 Sodium tripolyphosphate anhydrous, synthesis grade

- Synonyms: Sodium triphosphate
- $\text{Na}_5\text{P}_3\text{O}_{10}$
- $M = 367,86 \text{ g/mol}$
- CAS [7758-29-4]
- EINECS-No.: 231-838-7
- Solub. in water: (20 °C): 150 g/l
- Melting point: 622 °C

- Vapour pressure: (20 °C) < 0,1 hPa
- LD 50 (oral, rat): 3900 mg/kg
- Tariff number: 2835 31 00
- Applications: synthesis of organic products, in food industry, emulsifier, preservative agent, for determination of: BOD.
- Tariff number: 2835 31 00 00

assay (acidimetric, as P2O5) 57 - 59 %

Art. No.	Volume	Container
SO07801000	1 kg	Ⓒ

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Sodium tungstate dihydrate

SO0795 Sodium tungstate dihydrate, reagent grade, ACS



- Synonyms: Sodium wolframate dihydrate
- $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$
- M = 329,86 g/mol
- CAS [10213-10-2]
- EINECS-No.: 236-743-4
- Solub. in water: (20 °C): ~ 730 g/l
- Melting point: 100 °C (release of crystalline water)
- LD 50 (oral, rat): 1190 mg/kg (anhydrous substance)

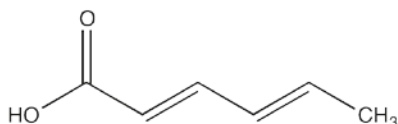
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2841 80 00 00
- Applications: analytical chemistry (precipitant for: alkaloids, blood sugar, uric acid), for biology.

assay (gravimetric) 99 - 101 %

Art. No.	Volume	Container
S007950100	100 g	⊗
S007950250	250 g	⊗
S007951000	1 kg	⊗

Sorbic acid

AC2032 Sorbic acid, synthesis grade



- Synonyms: 2,4-Hexadienoic acid
- $\text{C}_6\text{H}_8\text{O}_2$

- M = 112,13 g/mol
- CAS [110-44-1]
- EINECS-No.: 203-768-7
- Solub. in water: (20 °C): 1,6 g/l
- Melting point: 132 - 135 °C
- Boiling point: ~ 228 °C (decomposes)
- Flash pt. ~ 127 °C
- Vapour pressure: (20 °C) ~ 0,01 hPa
- LD 50 (oral, rat): 7360 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P304 + P340 - P405 - P501a

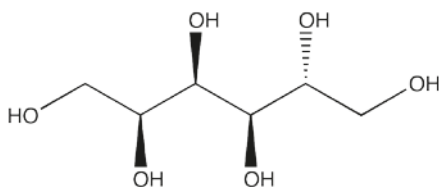
- Tariff number: 2916 19 30 00
- Applications: laboratory reagent, synthesis of organic products, in food industry (E 200), preservative agent.

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AC20321000	1 kg	⊗
AC2032005P	5 kg	⊗

D(-)-Sorbitol

SO0850 D(-)-Sorbitol, extra pure, Pharmapur®, Ph Eur, BP, NF



- Synonyms: D-Glucitol, Karion
- $\text{C}_6\text{H}_{14}\text{O}_6$

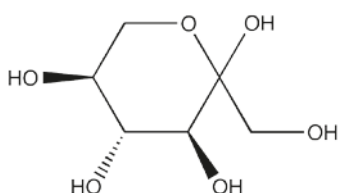
- M = 182,17 g/mol
- CAS [50-70-4]
- EINECS-No.: 200-061-5
- Solub. in water: (20 °C): soluble
- Melting point: 94 - 96 °C
- Flash pt. > 100 °C
- Ignition temp.: > 150 °C
- LD 50 (oral, rat): 15900 mg/kg
- Tariff number: 2905 44 91 00
- Applications: analytical chemistry, in food industry, for pharmaceuticals synthesizing, synthesis of organic products, in pharma industry.

assay (iodometric, on dried sample) 97 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
S008500250	250 g	⊗
S008501000	1 kg	⊗
S00850005P	5 kg	⊗
S00850025P	25 kg	⊗

L(-)-Sorbse

SO0865 L(-)-Sorbse, extra pure



- Synonyms: L-Sorbinoose
- $\text{C}_{16}\text{H}_{22}\text{O}_6$
- M = 180,16 g/mol
- CAS [87-79-6]
- EINECS-No.: 201-771-8
- Solub. in water: (17 °C): 550 g/l
- Melting point: 164 °C
- LD 50 (oral, rat): > 11000 mg/kg
- Tariff number: 2940 00 00 80

- Applications: synthesis of organic products, for pharmaceuticals synthesizing (vitamin C).

assay (HPLC) min. 99 %

Art. No.	Volume	Container
S008650250	250 g	⊗

Standards, AA, according to ISO 17025

AL0755 Aluminium, standard solution 1000 mg/l Al for AA (Al(NO₃)₃ in HNO₃ 2%)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Applications: analytical chemistry, atomic absorption analysis.
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
AL07550100	100 ml	⊗
AL07550500	500 ml	⊗

AN0442 Antimony, standard solution 1000 mg/l Sb for AA (Sb in HCl 20%)



- Density: 1,05 g/cm³
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
AN04420100	100 ml	⊗
AN04420500	500 ml	⊗

AR0152 Arsenic, standard solution 1000 mg/l As for AA (As₂O₃ in HNO₃ 2%)



- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H315 - H319 - H350

- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P321 - P405 - P501a
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
 - Tariff number: 3822 00 00 00
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
AR01520100	100 ml	⊘
AR01520500	500 ml	⊘

BA0011 Barium, standard solution 1000 mg/l Ba for AA (Ba(NO₃)₂ in HNO₃ 2%)



- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BA00110100	100 ml	⊘
BA00110500	500 ml	⊘

BI0131 Bismuth, standard solution 1000 mg/l Bi for AA (Bi in HNO₃ 10%)



- Density: 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Danger

- GHS-H sentences: H314
 - GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P405 - P501a
 - Tariff number: 3822 00 00 00
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BI01310100	100 ml	⊘
BI01310500	500 ml	⊘

BO0014 Boron, standard solution 1000 mg/l B for AA (H₃BO₃ in H₂O)

- Density: ~ 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210
- Tariff number: 2810 00 90 00

- Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BO00140100	100 ml	⊘
BO00140500	500 ml	⊘

CA0042 Cadmium, standard solution 1000 mg/l Cd for AA (Cd in HNO₃ 2%)



- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H412

- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CA00420100	100 ml	⊘
CA00420500	500 ml	⊘

CA0177 Calcium, standard solution 1000 mg/l Ca for AA (CaCO₃ in HNO₃ 2%)



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CA01770100	100 ml	⊘
CA01770500	500 ml	⊘

CR0223 Chromium, standard solution 1000 mg/l Cr for AA (Cr(NO₃)₃ in HNO₃ 2%)



- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CR02230100	100 ml	⊘
CR02230500	500 ml	⊘

CO0016 Cobalt, standard solution 1000 mg/l Co for AA (Co in HNO₃ 2%)



- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H350i - H360F - H315 - H319 - H411

- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CO00160100	100 ml	⊘
CO00160500	500 ml	⊘



CO0086 Copper, standard solution 1000 mg/l Cu for AA (Cu in HNO₃ 2%)

- Density: 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CO00860100	100 ml	☉
CO00860500	500 ml	☉

OR0058 Gold, standard solution 1000 mg/l Au for AA (Au in HCl 2%)

- Density: 1,01 g/cm³
- ADR: 8 C1 III
- IMDG: 8 III
- IATA/ICAO: 8 III
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
OR00580100	100 ml	☉
OR00580500	500 ml	☉

HI0305 Iron, standard solution 1000 mg/l Fe for AA (Fe(NO₃)₃ in HNO₃ 2%)

- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
HI03050100	100 ml	☉
HI03050500	500 ml	☉

PL0106 Lead, standard solution 1000 mg/l Pb for AA (Pb(NO₃)₂ in HNO₃ 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H315 - H319 - H360

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PL01060100	100 ml	☉
PL01060500	500 ml	☉

LI0061 Lithium, standard solution 1000 mg/l Li for AA (Li₂CO₃ in HNO₃ 2%)

- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313

- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
LI00610100	100 ml	☉
LI00610500	500 ml	☉

MA0012 Magnesium, standard solution 1000 mg/l Mg for AA (Mg in HNO₃ 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 -

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362 -
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MA00120100	100 ml	☉
MA00120500	500 ml	☉

MA0112 Manganese, standard solution 1000 mg/l Mn for AA (Mn in HNO₃ 2%)

- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313

- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MA01120100	100 ml	☉
MA01120500	500 ml	☉

ME0112 Mercury, standard solution 1000 mg/l Hg for AA (Hg(NO₃)₂ in HNO₃ 10%)

- Density: ~ 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H314 - H373 -

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ME01120100	100 ml	☉
ME01120500	500 ml	☉

MO0022 Molybdenum, standard solution 1000 mg/l Mo for AA ((NH₄)₆Mo₇O₂₄ in H₂O)

- Density: ~ 1,0 g/cm³
- Solub. in water: (20 °C): miscible
- Applications: analytical chemistry, atomic absorption analysis.
- Tariff number: 3822 00 00 00
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MO00220100	100 ml	⊕
MO00220500	500 ml	⊕

NI0122 Nickel, standard solution 1000 mg/l Ni for AA (Ni in HNO₃ 2%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
NI01220100	100 ml	⊕
NI01220500	500 ml	⊕

PO0106 Potassium, standard solution 1000 mg/l K for AA (KNO₃ in HNO₃ 2%)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PO01060100	100 ml	⊕
PO01060500	500 ml	⊕

SE0012 Selenium, standard solution 1000 mg/l Se for AA (Se in HNO₃ 2%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SE00120100	100 ml	⊕
SE00120500	500 ml	⊕

SI0013 Silicon, standard solution 1000 mg/l Si for AA ((NH₄)₂SiF₆ in H₂O)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SI00130100	100 ml	⊕
SI00130500	500 ml	⊕

PL0006 Silver, standard solution 1000 mg/l Ag for AA (Ag in HNO₃ 2%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PL00060100	100 ml	⊕
PL00060500	500 ml	⊕

SO0006 Sodium, standard solution 1000 mg/l Na for AA (NaNO₃ in HNO₃ 2%)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SO00060100	100 ml	⊕
SO00060500	500 ml	⊕

ES0178 Strontium, standard solution 1000 mg/l Sr for AA (Sr(NO₃)₂ in HNO₃ 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ES01780100	100 ml	⊕
ES01780500	500 ml	⊕

ES0062 Tin, standard solution 1000 mg/l Sn for AA (Sn in HCl 20%)



- Density: 1,08 g/cm³
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ES00620100	100 ml	⊕
ES00620500	500 ml	⊕

TI0365 Titanium, standard solution 1000 mg/l Ti for AA (Ti in HNO₃ 5% + HF 0,5%)



- Density: 1,03 g/cm³
 - ADR: 8 CT1 II UN 2922
 - IMDG: 8 II UN 2922
 - IATA/ICAO: 8 II UN 2922
 - GHS-signal word: Danger
 - GHS-H sentences: H311 - H302 - H332 - H315 - H319
 - GHS-P sentences: P261 - P305 + P351 + P338 - P361 - P321 - P405 - P501a
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
TI03650100	100 ml	Ⓢ
TI03650500	500 ml	Ⓢ

TU0012 Tungsten, standard solution 1000 mg/l W for AA (W in HNO₃ 1% + HF 2%)



- Density: 1,01 g/cm³
 - Solub. in water: (20 °C): miscible
 - ADR: 8 CT1 II UN 2922
 - IMDG: 8 II UN 2922
 - IATA/ICAO: 8 II UN 2922
 - GHS-signal word: Danger
 - GHS-H sentences: H301 + H311 - H314
 - Tariff number: 3822 00 00 00
 - GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P361 - P405 - P501a
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
TU00120100	100 ml	Ⓢ
TU00120500	500 ml	Ⓢ

VA0072 Vanadium, standard solution 1000 mg/l V for AA (NH₄VO₃ in HNO₃ 2%)



- Density: 1,01 g/cm³
 - Solub. in water: (20 °C): miscible
 - ADR: 8 C1 III UN 3264
 - IMDG: 8 III UN 3264
 - IATA/ICAO: 8 III UN 3264
 - GHS-signal word: Warning
 - GHS-H sentences: H315 - H319
 - GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
VA00720100	100 ml	Ⓢ
VA00720500	500 ml	Ⓢ

CI0127 Zinc, standard solution 1000 mg/l Zn for AA (Zn in HNO₃ 2%)


- Density: 1,02 g/cm³
 - ADR: 8 C1 III UN 3264
 - IMDG: 8 III UN 3264
 - IATA/ICAO: 8 III UN 3264
 - GHS-signal word: Warning
 - GHS-H sentences: H315 - H319
 - GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CI01270100	100 ml	Ⓢ
CI01270500	500 ml	Ⓢ

Standards, AA
AL0751 Aluminium, standard solution 1000 mg/l Al for AA (aluminium nitrate nonahydrate in nitric acid 0,5 mol/l)


- Density: ~ 1,01 g/cm³
 - Solub. in water: (20 °C): miscible
 - ADR: 8 C1 III UN 3264
 - IMDG: 8 III UN 3264
 - IATA/ICAO: 8 III UN 3264
 - GHS-signal word: Warning
 - GHS-H sentences: H315 - H319
 - GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
AL07510100	100 ml	Ⓢ
AL07510500	500 ml	Ⓢ

AN0440 Antimony, standard solution 1000 mg/l Sb for AA (antimony(III) chloride in hydrochloric acid 5 mol/l)


- Density: ~ 1,08 g/cm³
 - Solub. in water: (20 °C): miscible
 - ADR: 8 C1 III UN 3264
 - IMDG: 8 III UN 3264
 - IATA/ICAO: 8 III UN 3264
 - GHS-signal word: Warning
 - GHS-H sentences: H315 - H319 - H335
 - GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
AN04400100	100 ml	Ⓢ
AN04400500	500 ml	Ⓢ

AR0151 Arsenic, standard solution 1000 mg/l As for AA (arsenic(III) oxide in nitric acid 0,5 mol/l)



- Density: ~ 1,01 g/cm³
 - Solub. in water: (20 °C): miscible
 - ADR: 8 C1 III UN 3264
 - IMDG: 8 III UN 3264
 - IATA/ICAO: 8 III UN 3264
 - GHS-signal word: Danger
 - GHS-H sentences: H350 - H315 - H319
 - GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
AR01510100	100 ml	Ⓢ
AR01510500	500 ml	Ⓢ

BA0010 Barium, standard solution 1000 mg/l Ba for AA (barium nitrate in nitric acid 0,5 mol/l)


- Density: ~ 1,01 g/cm³
 - Solub. in water: (20 °C): miscible
 - ADR: 8 C1 III UN 3264
 - IMDG: 8 III UN 3264
 - IATA/ICAO: 8 III UN 3264
 - GHS-signal word: Warning
 - GHS-H sentences: H315 - H319
 - GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BA00100100	100 ml	Ⓢ
BA00100500	500 ml	Ⓢ

BI0130 Bismuth, standard solution 1000 mg/l Bi for AA (bismuth(III) nitrate in nitric acid 0,5 mol/l)

- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BI01300100	100 ml	⊖
BI01300500	500 ml	⊖

BO0013 Boron, standard solution 1000 mg/l B for AA (boric acid in water)

- Density: ~ 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-H sentences: EUH210
- Tariff number: 2810 00 90 00

- Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BO00130100	100 ml	⊖
BO00130500	500 ml	⊖

CA0041 Cadmium, standard solution 1000 mg/l Cd for AA (cadmium nitrate in nitric acid 0,5 mol/l)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319 - H412
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CA00410100	100 ml	⊖
CA00410500	500 ml	⊖

CA0176 Calcium, standard solution 1000 mg/l Ca for AA (calcium nitrate in nitric acid 0,5 mol/l)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CA01760100	100 ml	⊖
CA01760500	500 ml	⊖

CR0222 Chromium, standard solution 1000 mg/l Cr for AA (chromium(III) nitrate in nitric acid 0,5 mol/l)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CR02220100	100 ml	⊖
CR02220500	500 ml	⊖

CO0012 Cobalt, standard solution 1000 mg/l Co for AA (cobalt nitrate in nitric acid 0,5 mol/l)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CO00120100	100 ml	⊖
CO00120500	500 ml	⊖

CO0085 Copper, standard solution 1000 mg/l Cu for AA (copper(II) nitrate in nitric acid 0,5 mol/l)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319 - H412
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P332 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CO00850100	100 ml	⊖
CO00850500	500 ml	⊖

OR0057 Gold, standard solution 1000 mg/l Au for AA (Gold(III) trichloride acid in hydrochloric acid 2 mol/l)

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-H sentences: EUH210

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
OR00570100	100 ml	⊖
OR00570500	500 ml	⊖

HI0302 Iron, standard solution 1000 mg/l Fe for AA (iron(III) nitrate nonahydrate in nitric acid 0,5 mol/l)

- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
HI03020100	100 ml	⊖
HI03020500	500 ml	⊖



PL0105 Lead, standard solution 1000 mg/l Pb for AA (lead(II) nitrate in nitric acid 0,5 mol/l) 

- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PL01050100	100 ml	Ⓢ
PL01050500	500 ml	Ⓢ

LI0060 Lithium, standard solution 1000 mg/l Li for AA (lithium nitrate in nitric acid 0,5 mol/l) 

- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
LI00600100	100 ml	Ⓢ
LI00600500	500 ml	Ⓢ

MA0011 Magnesium, standard solution 1000 mg/l Mg for AA (magnesium nitrate in nitric acid 0,5 mol/l) 

- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

Art. No.	Volume	Container
MA00110100	100 ml	Ⓢ
MA00110500	500 ml	Ⓢ

MA0111 Manganese, standard solution 1000 mg/l Mn for AA (manganese nitrate in nitric acid 0,5 mol/l) 

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MA01110100	100 ml	Ⓢ
MA01110500	500 ml	Ⓢ

ME0111 Mercury, standard solution 1000 mg/l Hg for AA (mercury(II) nitrate monohydrate in nitric acid 2 mol/l) 

- Density: ~ 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger

- GHS-H sentences: H314 - H373 -
- GHS-P sentences: P260 - P303 + P361 + P533 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ME01110100	100 ml	Ⓢ
ME01110500	500 ml	Ⓢ

MO0021 Molybdenum, standard solution 1000 mg/l Mo for AA (ammonium heptamolybdate in water)

- Density: ~ 1,0 g/cm³
- Solub. in water: (20 °C): miscible
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

- Tariff number: 3822 00 00 00

Art. No.	Volume	Container
MO00210100	100 ml	Ⓢ
MO00210500	500 ml	Ⓢ

NI0121 Nickel, standard solution 1000 mg/l Ni for AA (nickel(II) nitrate in nitric acid 0,5 mol/l) 

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
NI01210100	100 ml	Ⓢ
NI01210500	500 ml	Ⓢ

PO0105 Potassium, standard solution 1000 mg/l K for AA (potassium nitrate in nitric acid 0,5 mol/l) 

- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PO01050100	100 ml	Ⓢ
PO01050500	500 ml	Ⓢ

SE0011 Selenium, standard solution 1000 mg/l Se for AA (selenium dioxide in nitric acid 0,5 mol/l) 

- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SE00110100	100 ml	Ⓢ
SE00110500	500 ml	Ⓢ

SI0012 Silicon, standard solution 1000 mg/l Si for AA (ammonium hexafluorosilicate in water)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- LD 50 (oral, rat): 128 mg/kg (pure substance)
- Tariff number:

- Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SI00120100	100 ml	⊖
SI00120500	500 ml	⊖

PL0005 Silver, standard solution 1000 mg/l Ag for AA (silver nitrate in nitric acid 0,5 mol/l)



- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PL00050100	100 ml	⊖
PL00050500	500 ml	⊖

SO0005 Sodium, standard solution 1000 mg/l Na for AA (sodium nitrate in nitric acid 0,5 mol/l)



- Density: ~ 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SO00050100	100 ml	⊖
SO00050500	500 ml	⊖

ES0177 Strontium, standard solution 1000 mg/l Sr for AA (strontium nitrate in nitric acid 0,5 mol/l)



- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ES01770100	100 ml	⊖
ES01770500	500 ml	⊖

ES0061 Tin, standard solution 1000 mg/l Sn for AA (tin(IV) chloride in hydrochloric acid 5 mol/l)



- Density: 1,08 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ES00610100	100 ml	⊖
ES00610500	500 ml	⊖

Ti0360 Titanium, standard solution 1000 mg/l Ti for AA (titanium(IV) chloride in hydrochloric acid 5 mol/l)



- Density: ~ 1,08 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
Ti03600100	100 ml	⊖
Ti03600500	500 ml	⊖

TU0011 Tungsten, standard solution 1000 mg/l W for AA (ammonium tungstate in water)

- Density: ~ 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, atomic absorption analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
TU00110100	100 ml	⊖
TU00110500	500 ml	⊖

VA0071 Vanadium, standard solution 1000 mg/l V for AA (ammonium metavanadate in nitric acid 0,5 mol/l)



- Density: 1,01 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
VA00710100	100 ml	⊖
VA00710500	500 ml	⊖

CI0126 Zinc, standard solution 1000 mg/l Zn for AA (zinc nitrate in nitric acid 0,5 mol/l)



- Density: ~ 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, atomic absorption analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CI01260100	100 ml	⊖
CI01260500	500 ml	⊖

Standards, buffer solutions for pH-meter calibration

SO1101 Buffer solution pH = 1,00 (20 °C) (Hydrochloric acid/Sodium chloride)

	pH at 20 °C	Art. No.	Volume	Container
• Density: ~ 1,00 g/cm ³	1,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S011010250	250 ml	Ⓢ
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.	S011011000	1 l	Ⓢ
• Applications: in buffer solutions.				

SO1022 Buffer solution pH = 2,00 (20 °C) (Citric acid/Sodium hydroxide/Hydrochloric acid)

	pH at 20 °C	Art. No.	Volume	Container
• Density: ~ 1,00 g/cm ³	2,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010220250	250 ml	Ⓢ
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010221000	1 l	Ⓢ
• Applications: in buffer solutions.				

SO1023 Buffer solution pH = 3,00 (20 °C) (ortho-Phosphoric acid/Sodium hydroxide)

	pH at 20 °C	Art. No.	Volume	Container
• Density: ---	3,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010230250	250 ml	Ⓢ
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010231000	1 l	Ⓢ
• Applications: in buffer solutions.				

SO1004 Buffer solution pH = 4,00 (20 °C) (Potassium hydrogen phthalate)

	pH at 20 °C	Art. No.	Volume	Container
• Density: 1,01 g/cm ³	4,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010040250	250 ml	Ⓢ
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010040500	500 ml	Ⓢ
• Applications: for calibrating pH-meters, analytical chemistry.		S010041000	1 l	Ⓢ
		S01004005P	5 l	Ⓢ

SO1005 Buffer solution pH = 4,01 (20 °C) (Potassium hydrogen phthalate)

	pH at 20 °C	Art. No.	Volume	Container
• Density: ~ 1,00 g/cm ³	4,01			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010050250	250 ml	Ⓢ
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010051000	1 l	Ⓢ
• Applications: in buffer solutions.				

SO1025 Buffer solution pH = 5,00 (20 °C) (Acetic acid/Potassium hydroxide)

	pH at 20 °C	Art. No.	Volume	Container
• Density:	5,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010250250	1 l	Ⓢ
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010251000	1 l	Ⓢ
• Applications: in buffer solutions.				

SO1006 Buffer solution pH = 6,00 (20 °C) (Potassium dihydrogen phosphate/Sodium hydroxide)

	pH at 20 °C	Art. No.	Volume	Container
• Density: ---	6,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010060250	250 ml	Ⓢ
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010061000	1 l	Ⓢ
• Applications: in buffer solutions.				

SO1007 Buffer solution pH = 7,00 (20 °C) (Potassium dihydrogen phosphate/di-Sodium hydrogen phosphate)

	pH at 20 °C	Art. No.	Volume	Container
• Density: 1,01 g/cm ³	7,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010070250	250 ml	Ⓢ
• Melting point: -5 °C	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010070500	500 ml	Ⓢ
• Boiling point: 109 °C		S010071000	1 l	Ⓢ
• Tariff number: 3822 00 00 00		S01007005P	5 l	Ⓢ
• Applications: to fit pH of the reaction media, for calibrating pH-meters, analytical chemistry.				

SO1008 Buffer solution pH = 7,02 (20 °C) (Potassium dihydrogen phosphate/di-Sodium hydrogen phosphate)

	pH at 20 °C	Art. No.	Volume	Container
• Density: 1,00 g/cm ³	7,02			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010080250	250 ml	Ⓢ
• Melting point: -5 °C	This pH buffer solution is traceable to Standard Reference Material from NIST.	S010081000	1 l	Ⓢ
• Boiling point: 109 °C		S01008005P	5 l	Ⓢ
• Tariff number: 3822 00 00 00				
• Applications: in buffer solutions.				

SO1028 Buffer solution pH = 8,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)

	pH at 20 °C	Art. No.	Volume	Container
• Density: 1,00 g/cm ³	8,00			
• Solub. in water: (20 °C): miscible	uncertainty ± 0,01	S010280250	250 ml	
• Tariff number: 3822 00 00 00	This pH buffer solution is traceable to Standard Reference Material from NIST.			
• Applications: in buffer solutions.				

SO1009 Buffer solution pH = 9,00 (20 °C) (Boric acid/Potassium chloride/Sodium hydroxide)

<ul style="list-style-type: none"> Density: ~ 1,00 g/cm³ Solub. in water: (20 °C): miscible GHS-H sentences: EUH210 Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	pH at 20 °C 9,00 uncertainty ± 0,01	Art. No.	Volume	Container
		S010090250	250 ml	Ⓟ
		S010091000	1 l	Ⓟ
		S01009005P	5 l	Ⓟ
This pH buffer solution is traceable to Standard Reference Material from NIST.				

SO1092 Buffer solution pH = 9,26 (20 °C) (di-Sodium tetraborate decahydrate)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible LD 50 (oral, rat): 2660 mg/kg (pure substance) GHS-H sentences: EUH210 Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	pH at 20 °C 9,26 uncertainty ± 0,01	Art. No.	Volume	Container
		S010921000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		

SO1010 Buffer solution pH = 10,00 (20 °C) (Sodium carbonate/Sodium hydrogen carbonate)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible Melting point: -6 °C Boiling point: 110 °C Tariff number: 3822 00 00 00 Applications: to fit pH of the reaction media. 	pH at 20 °C 10,00 uncertainty ± 0,02	Art. No.	Volume	Container
		S010100250	250 ml	Ⓟ
		S010101000	1 l	Ⓟ
		S01010005P	5 l	Ⓟ
This pH buffer solution is traceable to Standard Reference Material from NIST.				

SO1141 Buffer solution pH = 11,00 (20 °C) (Boric acid/Sodium hydroxide/Potassium chloride)

<ul style="list-style-type: none"> Density: 1,01 g/cm³ Solub. in water: (20 °C): miscible GHS-H sentences: EUH210 Tariff number: 3822 00 00 00 Applications: to fit pH of the reaction media. 	pH at 20 °C 11,00 uncertainty ± 0,02	Art. No.	Volume	Container
		S011410250	250 ml	Ⓟ
		S011411000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		

SO1142 Buffer solution pH = 12,00 (20 °C) (di-Sodium hydrogen phosphate/Sodium hydroxide)

<ul style="list-style-type: none"> Density: ~ 1,01 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: analytical chemistry, to fit pH of the reaction media. 	pH at 20 °C 12,00 uncertainty ± 0,02	Art. No.	Volume	Container
		S011420250	250 ml	Ⓟ
		S011421000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		

SO1143 Buffer solution pH = 13,00 (20 °C) (Potassium chloride/Sodium hydroxide)

<ul style="list-style-type: none"> Density: --- Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: analytical chemistry, to fit pH of the reaction media. 	pH at 20 °C 13,00 uncertainty ± 0,02	Art. No.	Volume	Container
		S011430250	250 ml	Ⓟ
		S011431000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		

Standards, coloured buffer solutions for pH-meter calibration

SO2004 Buffer solution pH = 4,00 (20 °C), red-coloured

<ul style="list-style-type: none"> Density: ~ 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	pH at 20 °C 4,00 uncertainty ± 0,01	Art. No.	Volume	Container
		S020040250	250 ml	Ⓟ
		S020041000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		

SO3004 Buffer solution pH = 4,00 (25 °C), red-coloured

<ul style="list-style-type: none"> Density: Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	pH at 25°C 4,00 uncertainty ± 0,01	Art. No.	Volume	Container
		S030040250	250 ml	Ⓟ
		S030041000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		

SO2007 Buffer solution pH = 7,00 (20 °C), yellow-coloured

<ul style="list-style-type: none"> Density: ~ 1,005 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	pH at 20 °C 7,00 uncertainty ± 0,01	Art. No.	Volume	Container
		S020070250	250 ml	Ⓟ
		S020071000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		

SO3007 Buffer solution pH = 7,00 (25 °C), yellow-coloured

<ul style="list-style-type: none"> Density: Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	pH at 25°C 7,00 uncertainty ± 0,01	Art. No.	Volume	Container
		S030070250	250 ml	Ⓟ
		S030071000	1 l	Ⓟ
		This pH buffer solution is traceable to Standard Reference Material from NIST.		



Standards

SO2010 Buffer solution pH = 10,00 (20 °C), blue-coloured

<ul style="list-style-type: none"> Density: ~ 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	<p>pH at 20 °C 10,00 uncertainty ± 0,02</p> <p>This pH buffer solution is traceable to Standard Reference Material from NIST.</p>	Art. No. SO20100250 SO20101000	Volume 250 ml 1 l	Container
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SO3010 Buffer solution pH = 10,00 (25 °C), blue-coloured

<ul style="list-style-type: none"> Density: Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 Applications: in buffer solutions. 	<p>pH at 25°C 10,00 uncertainty ± 0,02</p> <p>This pH buffer solution is traceable to Standard Reference Material from NIST.</p>	Art. No. SO30100250 SO30101000	Volume 250 ml 1 l	Container
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Standards, buffer solutions for pH-meter calibration, MONOBUF®

SO2040 Buffer solution pH = 4,00 (20 °C), red-coloured, MONOBUF®

<ul style="list-style-type: none"> Density: ~ 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	<p>uncertainty ± 0,01</p> <p>This pH buffer solution is traceable to Standard Reference Material from NIST.</p>	Art. No. SO20400360	Volume 12x30 ml	Container
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pH at 20 °C 4,00

SO2070 Buffer solution pH = 7,00 (20 °C), yellow-coloured, Monobuf®

<ul style="list-style-type: none"> Density: ~ 1,005 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	<p>uncertainty ± 0,01</p> <p>This pH buffer solution is traceable to Standard Reference Material from NIST.</p>	Art. No. SO20700360	Volume 12x30 ml	Container
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pH at 20 °C 7,00

SO2100 Buffer solution pH = 10,00 (20 °C), blue-coloured, Monobuf®

<ul style="list-style-type: none"> Density: ~ 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	<p>uncertainty ± 0,02</p> <p>This pH buffer solution is traceable to Standard Reference Material from NIST.</p>	Art. No. SO21000360	Volume 12x30 ml	Container
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pH at 20 °C 10,00

SO2200 Buffer solution pH = 4,00, 7,00, 10,00 (20 °C), Monobuf® Mix

<p>pH (red) at 20 °C 4,00 pH (yellow) at 20 °C 7,00 pH (blue) at 20 °C 10,00 uncertainty ± 0,02</p>	<p>This pH buffer solution is traceable to Standard Reference Material from NIST.</p> <ul style="list-style-type: none"> Tariff number: 3822 00 00 00 	Art. No. SO22000360	Volume 12x30 ml	Container
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Standards, conductivity

PA0100 Conductivity standard, 147 µS/cm (25 °C), KCl 0,001 mol/l

<ul style="list-style-type: none"> CAS [7447-40-7] EINECS-No.: 231-211-8 Solub. in water: (20 °C): miscible Tariff number: 3104 20 90 00 Applications: analytical chemistry, laboratory reagent, for electroanalysis. 	<p>conductivity (25 °C) 145 - 149 µS/cm uncertainty < 1%</p> <p>This standard solution is traceable to Standard Reference Material from NIST.</p>	Art. No. PA01000250 PA01000500	Volume 250 ml 500 ml	Container
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PA0101 Conductivity standard, 1413 µS/cm (25 °C), KCl 0,01 mol/l

<ul style="list-style-type: none"> CAS [7447-40-7] EINECS-No.: 231-211-8 Solub. in water: (20 °C): miscible Tariff number: 3104 20 90 00 Applications: analytical chemistry, laboratory reagent, for electroanalysis. 	<p>This standard solution is traceable to Standard Reference Material from NIST.</p>	Art. No. PA01010250 PA01010500	Volume 250 ml 500 ml	Container
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PA0102 Conductivity standard, 12880 µS/cm (25 °C), KCl 0,1 mol/l

<ul style="list-style-type: none"> CAS [7447-40-7] EINECS-No.: 231-211-8 Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3104 20 90 00 	<ul style="list-style-type: none"> Applications: analytical chemistry, laboratory reagent, for electroanalysis. <p>This standard solution is traceable to Standard Reference Material from NIST.</p>	Art. No. PA01020250 PA01020500	Volume 250 ml 500 ml	Container
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PA0103 Conductivity standard, 50000 µS/cm (25 °C), KCl aqueous solution

<ul style="list-style-type: none"> CAS [7447-40-7] EINECS-No.: 231-211-8 Density: 1,02 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3104 20 90 00 	<ul style="list-style-type: none"> Applications: analytical chemistry, laboratory reagent, for electroanalysis. <p>This standard solution is traceable to Standard Reference Material from NIST.</p>	Art. No. PA01030250	Volume 250 ml	Container
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Standards, IC according 17025

AM0236 Ammonium, standard solution 1000 mg/l NH₄⁺ for IC (NH₄Cl in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
AM02360100	100 ml	⊕

BA0012 Barium, standard solution 1000 mg/l Ba²⁺ for IC (BaCO₃ in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BA00120100	100 ml	⊕

BR0131 Bromide, standard solution 1000 mg/l Br⁻ for IC (KBr in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible

Tariff number: 3822 00 00 00
This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BR01310100	100 ml	⊕

CA0178 Calcium, standard solution 1000 mg/l Ca²⁺ for IC (CaCl₂ in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CA01780100	100 ml	⊕

CL0229 Chloride, standard solution 1000 mg/l Cl⁻ for IC (NaCl in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CL02290100	100 ml	⊕

CR0186 Chromium, standard solution 1000 mg/l Cr⁶⁺ for IC ((NH₄)₂Cr₂O₇ in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-signal word: Danger
- GHS-H sentences: H334 - H317 - H340 - H350

GHS-P sentences: P285 - P261 - P280 - P321 - P405 - P501a
Tariff number: 3822 00 00 00
This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CR01860100	100 ml	⊕



CI0021 Cyanide, standard solution 1000 mg/l CN⁻ for IC (KCN in 0,1% KOH)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CI00210100	100 ml	⊕

FL0141 Fluoride, standard solution 1000 mg/l F⁻ for IC (NaF in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible

Tariff number: 3822 00 00 00
This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
FL01410100	100 ml	⊕

GL0131 Glycolate, standard solution 1000 mg/l C₂H₃O₃⁻ for IC (C₂H₄O₃ in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible

Tariff number: 3822 00 00 00
This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
GL01310100	100 ml	⊕

YO0077 Iodide, standard solution 1000 mg/l I⁻ for IC (KI in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
YO00770100	100 ml	⊕

LA0048 Lactate, standard solution 1000 mg/l CH₃CH(OH)COO⁻ for IC (CH₃CH(OH)COONa in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible

Tariff number: 3822 00 00 00
This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
LA00480100	100 ml	⊕

LI0062 Lithium, standard solution 1000 mg/l Li⁺ for IC (Li₂CO₃ in H₂O)

- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible

Tariff number: 3822 00 00 00
This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
LI00620100	100 ml	⊕

MA0013 Magnesium, standard solution 1000 mg/l Mg²⁺ for IC (MgCl₂ in H₂O)


- Density: 1,00 g/cm³
- Solub. in water: (20 °C): miscible

Tariff number: 3822 00 00 00
This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
MA00130100	100 ml	⊕




NI0192 Nitrate, standard solution 1000 mg/l NO³⁻ for IC (NH₄NO₃ in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible 	<ul style="list-style-type: none"> Tariff number: 3822 00 00 00 This standard solution is traceable to Standard Reference Material from NIST. 	Art. No.	Volume	Container
		NI01920100	100 ml	


NI0123 Nitrite, standard solution 1000 mg/l NO²⁻ for IC (NaNO₂ in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
		NI01230100	100 ml	


PO0321 Perchlorate, standard solution 1000 mg/l ClO₄⁻ for IC (KClO₄ in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible 	<ul style="list-style-type: none"> Tariff number: 3822 00 00 00 This standard solution is traceable to Standard Reference Material from NIST. 	Art. No.	Volume	Container
		PO03210100	100 ml	


FO0112 Phosphate, standard solution 1000 mg/l PO₄³⁻ for IC (NH₄H₂PO₄ in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible 	<ul style="list-style-type: none"> Tariff number: 3822 00 00 00 This standard solution is traceable to Standard Reference Material from NIST. 	Art. No.	Volume	Container
		FO01120100	100 ml	


PO0107 Potassium, standard solution 1000 mg/l K⁺ for IC (KCl in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible 	<ul style="list-style-type: none"> Tariff number: 3822 00 00 00 This standard solution is traceable to Standard Reference Material from NIST. 	Art. No.	Volume	Container
		PO01070100	100 ml	


AC1895 Propionate, standard solution 1000 mg/l C₃H₅O₂⁻ for IC (C₃H₅NaO₂ in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
		AC18950100	100 ml	


SO0007 Sodium, standard solution 1000 mg/l Na⁺ for IC (NaCl in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
		SO00070100	100 ml	


ES0182 Strontium, standard solution 1000 mg/l Sr²⁺ for IC (SrCO₃ in H₂O)

<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
		ES01820100	100 ml	


SU0103 Sulfate, standard solution 1000 mg/l SO₄²⁻ for IC (Na₂SO₄ in H₂O)


<ul style="list-style-type: none"> Density: 1,00 g/cm³ Solub. in water: (20 °C): miscible Tariff number: 3822 00 00 00 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
		SU01030100	100 ml	


Standards, ICP single element, according to 17025**AL0754 Aluminium, standard solution 1000 mg/l for ICP (Al in HNO₃ 2%)** 

<ul style="list-style-type: none"> Density: 1,03 g/cm³ ADR: 8 C1 III UN 3264 IMDG: 8 III UN 3264 IATA/ICAO: 8 III UN 3264 GHS-signal word: Warning GHS-H sentences: H315 - H319 	<ul style="list-style-type: none"> GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313 Tariff number: 3822 00 00 00 Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis. 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
			AL07540100	100 ml	

AN0445 Antimony, standard solution 1000 mg/l for ICP (Sb in HCl 20%) 

<ul style="list-style-type: none"> Density: 1,05 g/cm³ ADR: 8 C1 II UN 1789 IMDG: 8 II UN 1789 IATA/ICAO: 8 II UN 1789 GHS-signal word: Warning GHS-H sentences: H315 - H319 - H335 	<ul style="list-style-type: none"> GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a Tariff number: 3822 00 00 00 Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis. 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
			AN04450100	100 ml	

AR0156 Arsenic, standard solution 1000 mg/l for ICP (As₂O₃ in HNO₃ 2%)  

<ul style="list-style-type: none"> Density: 1,01 g/cm³ ADR: 8 C9 III UN 1760 IMDG: 8 III UN 1760 IATA/ICAO: 8 III UN 1760 GHS-signal word: Danger GHS-H sentences: H315 - H319 - H350 	<ul style="list-style-type: none"> GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P321 - P405 - P501a Tariff number: 3822 00 00 00 Applications: analytical chemistry, for inductively coupled plasma (ICP) analysis. 	This standard solution is traceable to Standard Reference Material from NIST.	Art. No.	Volume	Container
			AR01560100	100 ml	

BA0016 Barium, standard solution 1000 mg/l for ICP (Ba(NO₃)₂ in HNO₃ 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BA00160100	100 ml	Ⓢ

BE0346 Beryllium, standard solution 1000 mg/l for ICP (Be₄O(C₂H₃O₂)₆ in HCl 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H317 - H331 - H350i

- GHS-P sentences: P261 - P280 - P281 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BE03460100	100 ml	Ⓢ

BI0136 Bismuth, standard solution 1000 mg/l for ICP (Bi in HNO₃ 5%)

- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BI01360100	100 ml	Ⓢ

BO0018 Boron, standard solution 1000 mg/l for ICP (H₃BO₃ in H₂O)

- Density: 1,00 g/cm³
- GHS-signal word: Danger
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
BO00180100	100 ml	Ⓢ

CA0045 Cadmium, standard solution 1000 mg/l for ICP (Cd in HNO₃ 2%)

- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CA00450100	100 ml	Ⓢ

CA0181 Calcium, standard solution 1000 mg/l for ICP (CaCO₃ in HNO₃ 2%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CA01810100	100 ml	Ⓢ

CE0038 Cerium, standard solution 1000 mg/l for ICP (Ce(NO₃)₃ in HNO₃ 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CE00380100	100 ml	Ⓢ

CE0108 Cesium, standard solution 1000 mg/l for ICP (CsNO₃ in H₂O)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CE01080100	100 ml	Ⓢ

CR0227 Chromium, standard solution 1000 mg/l for ICP (Cr(NO₃)₃ in HNO₃ 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CR02270100	100 ml	Ⓢ

CO0014 Cobalt, standard solution 1000 mg/l for ICP (Co in HNO₃ 2%)


- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H350i - H360F - H315 - H319 - H411

- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CO00140100	100 ml	Ⓢ

CO0081 Copper, standard solution 1000 mg/l for ICP (Cu in HNO₃ 2%)


- Density: 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CO00810100	100 ml	Ⓢ

DI1301 Dysprosium, standard solution 1000 mg/l for ICP (Dy₂O₃ in HNO₃ 2%)


- Density: 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
DI13010100	100 ml	Ⓢ

ER0031 Erbium, standard solution 1000 mg/l for ICP (Er₂O₃ in HNO₃ 2%)


- Density: 1,02 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ER00310100	100 ml	Ⓢ

EU0052 Europium, standard solution 1000 mg/l for ICP (Eu₂O₃ in HNO₃ 2%)


- Density: 1,03 g/cm³
- Solub. in water: (20 °C): miscible
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
EU00520100	100 ml	Ⓢ

GA0011 Gadolinium, standard solution 1000 mg/l for ICP (Gd₂O₃ in HNO₃ 2%)


- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
GA00110100	100 ml	Ⓢ

GA0036 Gallium, standard solution 1000 mg/l for ICP (Ga in HNO₃ 2%)


- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
GA00360100	100 ml	Ⓢ

GE0072 Germanium, standard solution 1000 mg/l for ICP (Ge in HNO₃ 5% + HF 1%)


- Density: 1,03 g/cm³
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H311 - H315 - H319 -

- GHS-P sentences: P280 - P305 + P351 + P338 - P361 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- Appearance: Colourless liquid

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
GE00720100	100 ml	Ⓢ

OR0063 Gold, standard solution 1000 mg/l for ICP (Au in HCl 2%)

- Density: 1,01 g/cm³
- ADR: 8 C1 IIIIMDG: 8 III
- IATA/ICAO: 8 III
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
OR00630100	100 ml	Ⓢ

HA0011 Hafnium, standard solution 1000 mg/l for ICP (HfO₂ in HNO₃ 2% + HF 1%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362 -
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
HA00110100	100 ml	Ⓟ

IN0088 Indium, standard solution 1000 mg/l for ICP (In in HNO₃ 2%)

- Density: 1,00 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
IN00880100	100 ml	Ⓟ

IR0011 Iridium, standard solution 1000 mg/l for ICP (IrCl₃ in HCl 10%)

- Density: 1,05 g/cm³
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
IR00110100	100 ml	Ⓟ

HI0291 Iron, standard solution 1000 mg/l for ICP (Fe in HNO₃ 2%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
HI02910100	100 ml	Ⓟ

LA0081 Lanthanum, standard solution 1000 mg/l for ICP (La₂O₃ in HNO₃ 2%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
LA00810100	100 ml	Ⓟ

PL0108 Lead, standard solution 1000 mg/l for ICP (Pb(NO₃)₂ in HNO₃ 2%)

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H315 - H319 - H360

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313 - P362 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PL01080100	100 ml	Ⓟ

LI0064 Lithium, standard solution 1000 mg/l for ICP (Li₂CO₃ in HNO₃ 2%)

- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
LI00640100	100 ml	Ⓟ

LU0016 Lutetium, standard solution 1000 mg/l for ICP (Lu₂O₃ in HNO₃ 2%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
LU00160100	100 ml	Ⓟ

MA0016 Magnesium, standard solution 1000 mg/l for ICP (Mg(NO₃)₂ in HNO₃ 2%)


- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 -

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362 - -
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MA00160100	100 ml	Ⓟ





MA0116 Manganese, standard solution 1000 mg/l for ICP (Mn in HNO₃ 2%) 

- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MA01160100	100 ml	Ⓢ

ME0116 Mercury, standard solution 1000 mg/l for ICP (HgO in HNO₃ 10%)  

- Density: 1,08 g/cm³
- ADR: 8 C9 II UN 1760
- IMDG: 8 II UN 1760
- IATA/ICAO: 8 II UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H314 - H373

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ME01160100	100 ml	Ⓢ

MO0024 Molybdenum, standard solution 1000 mg/l for ICP (MoO₃ in NH₃ 4%)  

- Density: 0,98 g/cm³
- GHS-signal word: Danger
- GHS-H sentences: H315 - H318 - H351
- GHS-P sentences: P264 - P280 - P305 + P351 + P338 - P321 - P332 + P313 - P362

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MO00240100	100 ml	Ⓢ


NE0064 Neodymium, standard solution 1000 mg/l for ICP (Nd₂O₃ in HNO₃ 2%) 

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
NE00640100	100 ml	Ⓢ


NI0126 Nickel, standard solution 1000 mg/l for ICP (Ni in HNO₃ 2%) 

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - -

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
NI01260100	100 ml	Ⓢ

NI0071 Niobium, standard solution 1000 mg/l for ICP (Nb in HNO₃ 5% + HF 1%) 

- Density: 1,03 g/cm³
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H311 - H315 - H319 -

- GHS-P sentences: P280 - P305 + P351 + P338 - P361 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
NI00710100	100 ml	Ⓢ

OS0056 Osmium, standard solution 1000 mg/l for ICP (OsCl₃ in HCl 2%)

- Density: 1,01 g/cm³
- ADR: 8 C1 III UN 1789
- IMDG: 8 III UN 1789
- IATA/ICAO: 8 III UN 1789
- GHS-H sentences: EUH210

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
OS00560100	100 ml	Ⓢ

PA0066 Palladium, standard solution 1000 mg/l for ICP (Pd in HCl 5%)

- Density: 1,10 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-H sentences: EUH210

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PA00660100	100 ml	Ⓢ

FO0036 Phosphorus, standard solution 1000 mg/l for ICP (NH₄H₂PO₄ in H₂SO₄ 0,05%)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
FO00360100	100 ml	Ⓢ

PT0006 Platinum, standard solution 1000 mg/l for ICP (Pt in HCl 10%) 

- Density: 1,05 g/cm³
- ADR: 8 C10 II UN 1759
- IMDG: 8 II UN 1759
- IATA/ICAO: 8 II UN 1759
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PT00060100	100 ml	Ⓢ

PO0111 Potassium, standard solution 1000 mg/l for ICP (KNO₃ in H₂O)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PO01110100	100 ml	Ⓟ

RE0078 Rhenium, standard solution 1000 mg/l for ICP (Re in H₂O)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
RE00780100	100 ml	Ⓟ

RO0023 Rhodium, standard solution 1000 mg/l for ICP (RhCl₃ in HCl 5%)



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 1789
- IMDG: 8 III UN 1789
- IATA/ICAO: 8 III UN 1789
- GHS-signal word: Danger

- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
RO00230100	100 ml	Ⓟ

RU0021 Rubidium, standard solution 1000 mg/l for ICP (RbNO₃ in H₂O)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
RU00210100	100 ml	Ⓟ

RU0063 Ruthenium, standard solution 1000 mg/l for ICP (RuCl₃ in HCl 5%)

- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 1789
- IMDG: 8 III UN 1789
- IATA/ICAO: 8 III UN 1789
- GHS-H sentences: EUH210

- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
RU00630100	100 ml	Ⓟ

SA0211 Samarium, standard solution 1000 mg/l for ICP (Sm₂O₃ in HNO₃ 2%)



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SA02110100	100 ml	Ⓟ

ES0021 Scandium, standard solution 1000 mg/l for ICP (Sc₂O₃ in HNO₃ 2%)



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
ES00210100	100 ml	Ⓟ

SE0016 Selenium, standard solution 1000 mg/l for ICP (Se in HNO₃ 2%)



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SE00160100	100 ml	Ⓟ

SI0016 Silicon, standard solution 1000 mg/l for ICP ((NH₄)₂SiF₆ in H₂O)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

- This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
SI00160100	100 ml	Ⓟ

PL0008 Silver, standard solution 1000 mg/l for ICP (AgNO₃ in HNO₃ 2%)



- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
PL00080100	100 ml	Ⓟ

SO0009 Sodium, standard solution 1000 mg/l for ICP (NaNO₃ in H₂O)

- Density: 1,00 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
SO00090100	100 ml	

ES0181 Strontium, standard solution 1000 mg/l for ICP (Sr(NO₃)₂ in HNO₃ 2%) 

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 -

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.


This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
ES01810100	100 ml	

SU0102 Sulfur, standard solution 1000 mg/l for ICP ((NH₄)₂SO₄ in H₂O)

- Density: 1,00 g/cm³
- LD 50 (oral, rat): 4250 mg/kg (pure substance)
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
SU01020100	100 ml	

TA0201 Tantalum, standard solution 1000 mg/l for ICP (Ta in HNO₃ 5% + HF 1%) 

- Density: 1,03 g/cm³
- ADR: 8 CT1 II UN 2922
- IMDG: 8 II UN 2922
- IATA/ICAO: 8 II UN 2922
- GHS-signal word: Danger
- GHS-H sentences: H311 - H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P361 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
TA02010100	100 ml	

TE0023 Tellurium, standard solution 1000 mg/l for ICP (Te in HCl 20%)

- Density: 1,09 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-H sentences: EUH210

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
TE00230100	100 ml	

TA0031 Thallium, standard solution 1000 mg/l for ICP (Tl in HNO₃ 2%) 

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
TA00310100	100 ml	

ES0066 Tin, standard solution 1000 mg/l for ICP (Sn in HCl 20%) 

- Density: 1,08 g/cm³
- ADR: 8 C1 II UN 1789
- IMDG: 8 II UN 1789
- IATA/ICAO: 8 II UN 1789
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
ES00660100	100 ml	

TI0366 Titanium, standard solution 1000 mg/l for ICP ((NH₄)₂TiF₆ in HNO₃ 5% + HF 0,5%) 

- Density: 1,03 g/cm³
- ADR: 8 C9 II UN 1760
- IMDG: 8 II UN 1760
- IATA/ICAO: 8 II UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H314

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.


This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
TI03660100	100 ml	

TU0016 Tungsten, standard solution 1000 mg/l for ICP (WO₃ in NH₃ 4%) 

- Density: 0,98 g/cm³
- GHS-signal word: Danger
- GHS-H sentences: H315 - H318
- GHS-P sentences: P264 - P280 - P305 + P351 + P338 - P321 - P332 + P313 - P362

- Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard Reference Material from NIST.


Art. No.	Volume	Container
TU00160100	100 ml	

VA0076 Vanadium, standard solution 1000 mg/l for ICP (V₂O₅ in HNO₃ 2%)  

- Density: 1,01 g/cm³
- ADR: 8 C9 III UN 1760
- IMDG: 8 III UN 1760
- IATA/ICAO: 8 III UN 1760
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P332 + P313 - P337 + P313 - P362
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
VA00760100	100 ml	

IT0004 Ytterbium, standard solution 1000 mg/l for ICP (Yb₂O₃ in HNO₃ 2%)



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard

Reference Material from NIST.

Art. No.	Volume	Container
IT00040100	100 ml	Ⓟ

IT0011 Yttrium, standard solution 1000 mg/l for ICP (Y₂O₃ in HNO₃ 2%)



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
 - Tariff number: 3822 00 00 00
 - Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.
- This standard solution is traceable to Standard

Reference Material from NIST.

Art. No.	Volume	Container
IT00110100	100 ml	Ⓟ

CI0129 Zinc, standard solution 1000 mg/l for ICP (Zn in HNO₃ 2%)



- Density: 1,02 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CI01290100	100 ml	Ⓟ

CI0256 Zirconium, standard solution 1000 mg/l for ICP (ZrO(NO₃)₂ in HNO₃ 5% + HF 0,5%)



- Density: 1,03 g/cm³
- ADR: 8 C9 II UN 1760
- IMDG: 8 II UN 1760
- IATA/ICAO: 8 II UN 1760
- GHS-signal word: Danger
- GHS-H sentences: H314

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
CI02560100	100 ml	Ⓟ

Standards, ICP multielement, according to 17025

MU0114 ICP multielement calibration standard solution, 4 elements in HCl 1%

- Density: 1,02 g/cm³
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

calcium (Ca)	100 ppm
magnesium (Mg).	20 ppm
potassium (K)	150 ppm
sodium (Na)	3300 ppm

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MU01140100	100 ml	Ⓟ

MU0112 ICP multielement calibration standard solution, 9 elements in HNO₃ 5%



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H350 - H315 - H319 - H317 - H412
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00

- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

cadmium (Cd)	100 ppm
chromium (Cr).	100 ppm
cobalt (Co)	100 ppm
copper (Cu)	100 ppm
lead (Pb)	100 ppm
manganese (Mn).	100 ppm
nickel (Ni)	100 ppm

vanadium (V)	100 ppm
zinc (Zn)	100 ppm

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MU01120100	100 ml	Ⓟ

MU0113 ICP multielement calibration standard solution, 16 elements in HNO₃ 10%



- ADR: 8 C1 II UN 3264
- IMDG: 8 II UN 3264
- IATA/ICAO: 8 II UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H350 - H314 - H317
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

aluminium (Al)	100 ppm
barium (Ba).	5 ppm
beryllium (Be)	2 ppm
boron (B)	20 ppm
cadmium (Cd)	20 ppm
chromium (Cr).	20 ppm
cobalt (Co)	50 ppm
copper (Cu)	20 ppm
iron (Fe)	20 ppm
lead (Pb)	200 ppm
manganese (Mn).	10 ppm
nickel (Ni)	50 ppm

selenium (Se)	5 ppm
thallium (Tl)	100 ppm
vanadium (V).	50 ppm
zinc (Zn)	50 ppm

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MU01130100	100 ml	Ⓟ



MU0111 ICP multielement calibration standard solution, 26 elements in HNO₃ 5%



- Density: 1,03 g/cm³
- ADR: 8 C1 III UN 3264
- IMDG: 8 III UN 3264
- IATA/ICAO: 8 III UN 3264
- GHS-signal word: Danger
- GHS-H sentences: H350 - H315 - H319 - H317 - H412
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for inducted coupled plasma (ICP) analysis.

aluminium (Al)	100 ppm
arsenic (As)	100 ppm
barium (Ba)	100 ppm

beryllium (Be)	100 ppm
bismuth (Bi)	100 ppm
boron (B)	100 ppm
cadmium (Cd)	100 ppm
calcium (Ca)	100 ppm
chromium (Cr)	100 ppm
cobalt (Co)	100 ppm
copper (Cu)	100 ppm
iron (Fe)	100 ppm
lead (Pb)	100 ppm
lithium (Li)	100 ppm
magnesium (Mg)	100 ppm
manganese (Mn)	100 ppm
molybdenum (Mo)	100 ppm
nickel (Ni)	100 ppm
potassium (K)	100 ppm

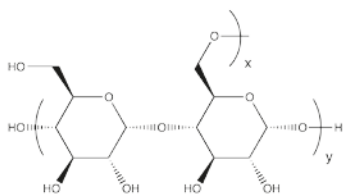
selenium (Se)	100 ppm
sodium (Na)	100 ppm
strontium (Sr)	100 ppm
thallium (Tl)	100 ppm
titanium (Ti)	100 ppm
vanadium (V)	100 ppm
zinc (Zn)	100 ppm

This standard solution is traceable to Standard Reference Material from NIST.

Art. No.	Volume	Container
MU01110100	100 ml	Ⓒ

Starch

AL0715 Starch, soluble, synthesis grade

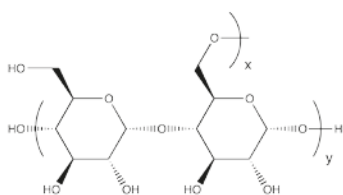


- Synonyms: Amylum, Potato starch
- (C₆H₁₀O₅)_n
- CAS [9005-84-9]
- EINECS-No.: 232-686-4
- Solub. in water: (90 °C): 50 g/l
- Tariff number: 3505 10 90 00
- Applications: analytical chemistry, indicator (iodometric analyses), laboratory reagent, synthesis of organic products.

Art. No.	Volume	Container
AL07150100	100 g	Ⓒ
AL07150250	250 g	Ⓒ
AL07150500	500 g	Ⓒ
AL07151000	1 kg	Ⓒ
AL0715025P	25 kg	Ⓒ

Starch, solution 1%

AL0718 Starch, solution 1% w/v

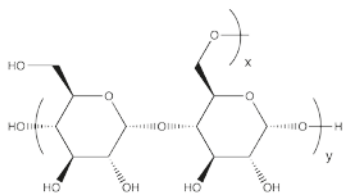


- Synonyms: Amylum solution, Potato starch solution
- (C₆H₁₀O₅)_n
- CAS [9005-84-9]
- EINECS-No.: 232-686-4
- Tariff number: 3505 10 90 00
- Applications: analytical chemistry, indicator (iodometric analyses).

Art. No.	Volume	Container
AL0718G100	100 ml	Ⓒ
AL07180250	250 ml	Ⓒ
AL07180500	500 ml	Ⓒ

Starch, solution 2%

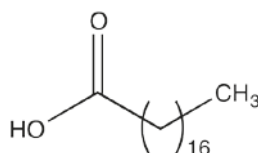
AL0719 Starch, solution 2%



- (C₆H₁₀O₅)_n
- CAS [9005-84-9]
- EINECS-No.: 232-686-4
- Density: 1,01 g/cm³
- Tariff number: 3505 10 90 00

Art. No.	Volume	Container
AL07190500	500 ml	Ⓒ

Stearic acid



- Synonyms: Octadecanoic acid
- C₁₈H₃₆O₂
- M = 284,47 g/mol
- CAS [57-11-4]
- EINECS-No.: 200-313-4
- Solub. in water: (20 °C): insoluble
- Melting point: 67 °C
- Boiling point: (19,95 hPa) 232 °C

- Flash pt. 196 °C
- Ignition temp.: 395 °C
- Vapour pressure: (148 °C) 0,13 hPa
- Tariff number: 2915 70 50 00
- Applications: laboratory reagent, synthesis of organic products, in the pharmaceuticals industry, cosmetics.

AC0925 Stearic acid 70, synthesis grade

total content (palmitic + stearic acid, G.C., as methyl ester)min. 90 %

Art. No.	Volume	Container
AC09250500	500 g	Ⓒ

Art. No.	Volume	Container
AC09251000	1 kg	Ⓒ

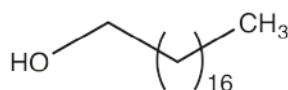
AC0926 Stearic acid 70, extra pure

total content (palmitic + stearic acid, G.C., as methyl ester)min. 90 %
 palmitic acid (G.C.)max. 30 %
 stearic acid (G.C.)min. 70 %

Art. No.	Volume	Container
AC09260500	500 g	Ⓒ

Art. No.	Volume	Container
AC09261000	1 kg	Ⓒ

Stearyl alcohol



- Synonyms: 1-Octadecanol, Octadecyl alcohol
- $C_{18}H_{38}O$
- M = 270,50 g/mol
- CAS [112-92-5]
- EINECS-No.: 204-017-6
- Solub. in water: (20 °C): insoluble
- Melting point: 55 - 57,5 °C
- Boiling point: (20 hPa) 210 °C

- Flash pt. ~ 195 °C
- Ignition temp.: 230 °C
- LD 50 (oral, rat): 20000 mg/kg
- Tariff number: 2905 17 00 00
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, for pharmaceuticals synthesizing, cosmetics, emulsifier, antifoaming agent, in lubricant compositions.

AL0235 Stearyl alcohol, synthesis grade

assay (G.C.)min. 95 %

Art. No.	Volume	Container
AL02351000	1 kg	⊞

AL0236 Stearyl alcohol, extra pure

assay (G.C.)min. 95 %
 iodine valuemax. 2,0
 saponification indexmax. 2,0

Art. No.	Volume	Container
AL02361000	1 kg	⊞

Strontium nitrate anhydrous

ES0180 Strontium nitrate anhydrous, extra pure



- Synonyms: Nitric acid strontium salt
- $Sr(NO_3)_2$
- M = 211,63 g/mol
- CAS [10042-76-9]
- EINECS-No.: 233-131-9
- Solub. in water: (20 °C): 660 g/l
- Melting point: 570 °C
- LD 50 (oral, rat): 2750 mg/kg
- ADR: 5.1 O2 III UN 1507

- IMDG: 5.1 III UN 1507
- IATA/ICAO: 5.1 III UN 1507
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, laboratory reagent, for the analysis of: metal ions traces.

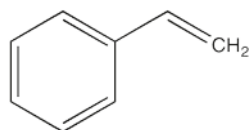
- Appearance: White crystals

assay (complexometric)min. 98 %

Art. No.	Volume	Container
ES01800500	500 g	⊞
ES01801000	1 kg	⊞

Styrene

ES0140 Styrene, stabilized, synthesis grade



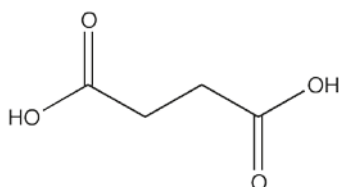
- Synonyms: Phenylethylene, Vinylbenzene
- C_8H_8
- M = 104,15 g/mol
- CAS [100-42-5]
- EINECS-No.: 202-851-5
- Density: 0,906 g/cm³
- Solub. in water: (20 °C): 0,24 g/l
- Melting point: -31 °C
- Boiling point: 145 °C
- Flash pt. 31 °C
- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) 6 hPa
- Refraction index: (n 20 °C/D) 1,5458
- LD 50 (oral, rat): 2650 mg/kg
- EC-Index-No.: 601-026-00-0
- ADR: 3 F1 III UN 2055
- IMDG: 3 III UN 2055

- IATA/ICAO: 3 III UN 2055
- GHS-signal word: Warning
- GHS-H sentences: H226 - H332 - H315 - H319
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P321 - P501a
- Tariff number: 2902 50 00 00
- Applications: synthesis of organic products, laboratory reagent, manufacturing of synthetic resins, for the synthesis of: rubber, various plastics.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
ES01400100	100 ml	⊞
ES01401000	1 l	⊞
ES01402500	2,5 l	⊞

Succinic acid



- Synonyms: Butanedioic acid
- $C_4H_6O_4$
- M = 118,09 g/mol
- CAS [110-15-6]
- EINECS-No.: 203-740-4
- Solub. in water: (20 °C): soluble
- Melting point: 183 - 187 °C
- Boiling point: ~ 235 °C
- Flash pt. 206 °C
- Ignition temp.: ~ 630 °C

- LD 50 (oral, rat): 2260 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2917 19 90 90
- Applications: analytical chemistry, titrant in volumetric analysis, synthesis of organic products, in food industry (E 363).

AC2040 Succinic acid, extra pure, Pharmpur®, NF



assay (acidimetric) 99 - 100,5 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20400500	500 g	⊞	AC20401000	1 kg	⊞

AC2042 Succinic acid, reagent grade, ACS, Reag. Ph Eur

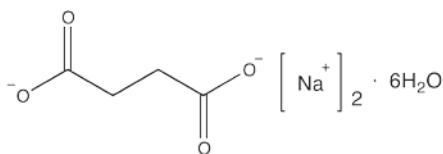


assay (acidimetric)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20420100	100 g	⊞	AC20420250	250 g	⊞

Succinic acid, disodium salt hexahydrate

SO0645 Succinic acid, disodium salt hexahydrate, reagent grade



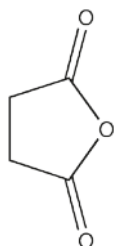
- Synonyms: di-Sodium succinate hexahydrate
- $C_4H_4Na_2O_7 \cdot 6H_2O$
- $M = 270,15$ g/mol
- CAS [6106-21-4]
- EINECS-No.: 205-778-7
- Solub. in water: (35 °C): 349 g/l
- Tariff number: 2917 19 90 90
- Applications: synthesis of organic products, in food industry, in the pharmaceuticals industry.

assay (titr. with $HClO_4$, referred to dried sample)min. 99 %

Art. No.	Volume	Container
S006450500	500 g	⊘
S006451000	1 kg	⊘

Succinic anhydride

AN0320 Succinic anhydride, synthesis grade



- Synonyms: 2,5-Dioxotetrahydrofuran
- $C_4H_4O_3$
- $M = 100,07$ g/mol
- CAS [108-30-5]
- EINECS-No.: 203-570-0
- Solub. in water: (20 °C): 67 g/l (hydrolysis reaction)
- Melting point: 119 °C
- Boiling point: 261 °C
- Flash pt. 157 °C
- Vapour pressure: (92 °C) 1,3 hPa
- LD 50 (oral, rat): 1510 mg/kg
- EC-Index-No.: 607-103-00-5
- GHS-signal word: Warning
- GHS-H sentences: H302 - H319 - H335

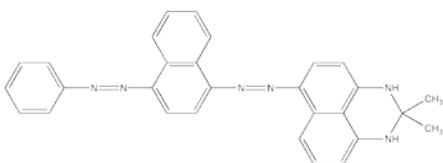
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P301 + P312 - P405 - P501a
- Tariff number: 2917 19 90 90
- Applications: laboratory reagent, synthesis of organic products, in food industry, manufacture of dyes, manufacture of adhesives.

assay (morpholine method).min. 99 %

Art. No.	Volume	Container
AN03201000	1 kg	⊘
AN0320005P	5 kg	⊘

Sudan Black B, C.I. 26150

NE0050 Sudan Black B, C.I. 26150, for microscopy



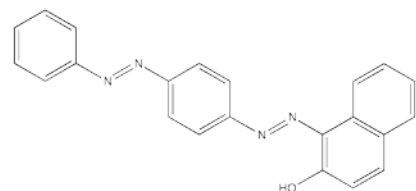
- Synonyms: 2,3-Dihydro-2,2-dimethyl-6-[[4-(phenylazo)-1-naphthalenylazo]-1H-perimidine, SBB
- $C_{29}H_{24}N_6$
- $M = 456,55$ g/mol
- CAS [4197-25-5]
- EINECS-No.: 224-087-1
- Solub. in water: (20 °C): insoluble
- Melting point: 150 - 154 °C
- LD 50 (oral, rat): > 15000 mg/kg

- Tariff number: 3204 19 00 90
- Applications: indicator, microscopy, in the textile industry.

Art. No.	Volume	Container
NE00500025	25 g	⊘
NE00500100	100 g	⊘

Sudan III, C.I. 26100

SU0040 Sudan III, C.I. 26100, for microscopy

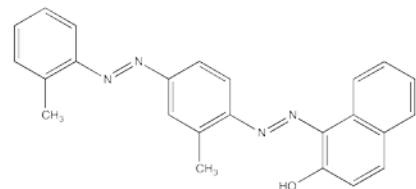


- Synonyms: 1-(p-Phenylazophenylazo)-2-naphthol, Sudan red BK
- $C_{22}H_{16}N_4O$
- $M = 352,40$ g/mol
- CAS [85-86-9]
- EINECS-No.: 201-638-4
- Tariff number: 3204 19 00 90
- Applications: microscopy, bacterium staining.

Art. No.	Volume	Container
SU00400025	25 g	⊘
SU00400100	100 g	⊘

Sudan IV, C.I. 26105

SU0045 Sudan IV, C.I. 26105, for microscopy



- Synonyms: 1-[2-Methyl-4-(2-methylphenylazo)phenylazo]-2-naphthol, Solvent red 24
- $C_{24}H_{20}N_4O$
- $M = 380,45$ g/mol
- CAS [85-83-6]
- EINECS-No.: 201-635-8
- GHS-signal word: Warning
- GHS-H sentences: H312 - H332

- GHS-P sentences: P261 - P280 - P322 - P304 + P340 - P312 - P501a
- Tariff number: 2927 00 00 90
- Applications: microscopy, bacterium staining.

Art. No.	Volume	Container
SU00450025	25 g	⊘
SU00450100	100 g	⊘

Sulfamic acid

- Synonyms: Amidosulfonic acid, Sulfamic acid, Sulfamidic acid, Aminosulfonic acid
- HSO_3NH_2
- $M = 97,09$ g/mol
- CAS [5329-14-6]
- EINECS-No.: 226-218-8
- Solub. in water: (20 °C): 213 g/l

- Melting point: 205 °C (decomposes)
- LD 50 (oral, rat): 3160 mg/kg
- EC-Index-No.: 016-026-00-0
- ADR: 8 C2 III UN 2967
- IMDG: 8 III UN 2967
- IATA/ICAO: 8 III UN 2967
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319 - H412
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P501a
- Tariff number: 2811 19 80 10
- Applications: analytical chemistry, titrant in volumetric analysis (reference material), for determination of: nitrous acid.

AC2050 Sulfamic acid, synthesis grade

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
AC20501000	1 kg	Ⓟ

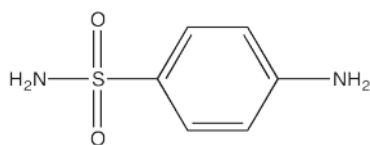
AC2051 Sulfamic acid, extra pure

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20511000	1 kg	Ⓟ	AC2051025P	25 kg	Ⓟ

Sulfanilamide

SU0060 Sulfanilamide, extra pure, Pharmpur®, Ph Eur



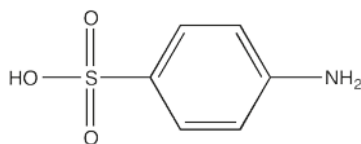
- Synonyms: 4-Aminobenzenesulfonamide
- $C_6H_7N_2O_2S$
- M = 172,21 g/mol
- CAS [63-74-1]
- EINECS-No.: 200-563-4
- Solub. in water: (25 °C): 7,5 g/l
- Melting point: 163 - 167 °C
- LD 50 (oral, rat): 3900 mg/kg
- Tariff number: 2935 00 90 90
- Applications: analytical chemistry, laboratory reagent, antibacterian, in the pharmaceuticals industry, in pharma industry.

assay (bromometric, referred to dried sample)99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
SU00600100	100 g	Ⓟ
SU00601000	1 kg	Ⓟ

Sulfanilic acid

AC2060 Sulfanilic acid, reagent grade, ACS



- Synonyms: 4-Aminobenzenesulfonic acid, Aniline-4-sulfonic acid, p-Anilinesulfonic acid
- $C_6H_7NO_3S$
- M = 173,19 g/mol
- CAS [121-57-3]
- EINECS-No.: 204-482-5
- Solub. in water: (20 °C): 10 g/l
- Melting point: 288 °C (decomposes)
- LD 50 (oral, rat): 12300 mg/kg
- EC-Index-No.: 612-014-00-X
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H317
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P362 - P501a

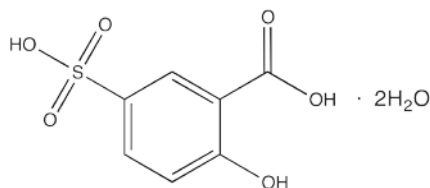
- Tariff number: 2921 42 00 60
- Applications: analytical chemistry, laboratory reagent, for determination of: nitrites, synthesis of organic products, manufacture of dyes, antibacterian.

assay (acidimetric)98 - 102 %

Art. No.	Volume	Container
AC20600100	100 g	Ⓟ
AC20600250	250 g	Ⓟ
AC20601000	1 kg	Ⓟ

5-Sulfosalicylic acid dihydrate

AC2093 5-Sulfosalicylic acid dihydrate, reagent grade, ACS



- Synonyms: 3-Carboxy-4-hydrobenzenesulfonic acid, 2-Hydroxy-5-sulfobenzoic acid, Salicylsulfonic acid
- $C_7H_6O_6S \cdot 2H_2O$
- M = 254,22 g/mol
- CAS [5965-83-3]
- EINECS-No.: 202-555-6
- Solub. in water: (20 °C): freely soluble
- Melting point: 120 °C
- Flash pt. ~ 150 °C
- LD 50 (oral, rat): 2450 mg/kg (anhydrous substance)
- ADR: 8 C4 III UN 3261
- IMDG: 8 III UN 3261
- IATA/ICAO: 8 III UN 3261
- GHS-signal word: Warning

- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2918 29 10 90
- Applications: synthesis of organic products, in lubricant compositions, indicator, analytical chemistry.

assay (acidimetric)99 - 101 %

Art. No.	Volume	Container
AC20930250	250 g	Ⓟ
AC20931000	1 kg	Ⓟ

Sulfur flower

- S
- M = 32,06 g/mol
- CAS [7704-34-9]
- EINECS-No.: 231-722-6
- Solub. in water: (20 °C): almost insoluble
- Melting point: 113 - 119 °C
- Boiling point: 444 °C
- Flash pt. 160 °C
- Ignition temp.: 235 °C (dust)
- Vapour pressure: (20 °C) 5000 mg/kg
- ADR: 4.1 F3 III UN 1350
- IMDG: 4.1 III UN 1350
- IATA/ICAO: 4.1 III UN 1350
- GHS-signal word: Warning

- GHS-H sentences: H315
- GHS-P sentences: P280 - P264 - P321 - P362 - P332 + P313 - P302 + P352
- Tariff number: 2802 00 00 00
- Applications: analytical chemistry, laboratory reagent, in the rubber industry, fungicide, for pharmaceuticals synthesizing, in pharma industry.

AZ0040 Sulfur flower, synthesis grade, washed

assay min 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AZ00400500	500 g	Ⓟ	AZ00401000	1 kg	Ⓟ

AZ0041 Sulfur flower, extra pure, Pharmapur®, Ph Eur, BP

 assay99 - 101 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AZ00410500	500 g	⊘	AZ0041025P	25 kg	⊘
AZ00411000	1 kg	⊘			

Sulfuric acid, 95 - 97%

- Synonyms: Sulphuric acid
- H_2SO_4
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,84 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: ~ -15 °C
- Boiling point: ~ 310 °C
- Vapour pressure: (20 °C) ~ 0,0001 hPa
- LD 50 (oral, rat): 2140 mg/kg
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 1830
- IMDG: 8 II UN 1830
- IATA/ICAO: 8 II UN 1830
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, acidifying agent, synthesis of organic products, nitrogen determinations.

AC2065 Sulfuric acid, 95 - 97%, synthesis grade

assay (acidimetric)95 - 97 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20651000	1 l	⊘	AC2065005P	5 l	⊘
AC20652500	2,5 l	⊘	AC2065025P	25 l	⊘

AC2066 Sulfuric acid, 95 - 98%, extra pure, Pharmapur®, Ph Eur, BP, NF, packed in HDPE bottles

 assay (acidimetric)95 - 98 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95. Avoid exposure to light

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20661000	1 l	⊘	AC2066005P	5 l	⊘
AC20662500	2,5 l	⊘	AC2066025P	25 l	⊘

AC2070 Sulfuric acid, 95 - 98%, extra pure, Pharmapur®, Ph Eur, BP, NF

 assay (acidimetric)95 - 98 %
 residue on ignitionmax. 0,005 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95. Avoid exposure to light

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20701000	1 l	⊘	AC20702500	2,5 l	⊘

AC2069 Sulfuric acid, 95 - 97%, reagent grade, ISO

assay (acidimetric)95 - 97 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20691000	1 l	⊘	AC20692500	2,5 l	⊘
AC20691001	1 l	⊘	AC20692501	2,5 l	⊘

AC2071 Sulfuric acid, 96% ± 0,1%, reagent grade

assay (acidimetric)95,9 - 96,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20711000	1 l	⊘	AC20712500	2,5 l	⊘

AC2067 Sulfuric acid, 95 - 97%, reagent grade, ISO, Reag. Ph Eur, packed in HDPE bottles

assay (acidimetric)95 - 97 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20671000	1 l	⊘	AC2067005P	5 l	⊘
AC20672500	2,5 l	⊘	AC2067025P	25 l	⊘

AC2097 Sulfuric acid, 95 - 98%, reagent grade, ACS, ISO, max. 0,0000005% Hg

assay (acidimetric)95 - 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC20971000	1 l	⊘	AC20972500	2,5 l	⊘

AC2114 Sulfuric acid, 96%, Ultratrace®, ppb-trace analysis grade

assay (acidimetric)93 - 98 %

Art. No.	Volume	Container
AC21141000	1 l	⊘

AC2115 Sulfuric acid, 96%, Ultratrace®, ppt-trace analysis grade

Art. No.	Volume	Container	Art. No.	Volume	Container
AC21150250	250 ml	⊘	AC21150500	500 ml	⊘

Sulfuric acid, 90 - 91%
AC2064 Sulfuric acid, solution 90 - 91% w/w, for Gerber fat determination and testing nitrates in milk

- Synonyms: Sulphuric acid
- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,81 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 300 °C
- Vapour pressure: (20 °C) ~ 0,0001 hPa
- LD 50 (oral, rat): 2140 mg/kg (pure substance)

- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 1830
- IMDG: 8 II UN 1830
- IATA/ICAO: 8 II UN 1830
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00

- Applications: analytical chemistry, for determination of: fats and nitrates in milk.

Art. No.	Volume	Container
AC20641000	1 l	Ø
AC20642500	2,5 l	Ø
AC2064005P	5 l	Ø
AC2064025P	25 l	Ø

Sulfuric acid, 62%
AC2092 Sulfuric acid, solution 62% w/w, according to Röder and Van Gulik, for determination of fat in milk

- Synonyms: Sulphuric acid
- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,52 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 2140 mg/kg

- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 1830
- IMDG: 8 II UN 1830
- IATA/ICAO: 8 II UN 1830
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, acidifying agent, for determination of: fats in milk.

Art. No.	Volume	Container
AC20921000	1 l	Ø
AC20922500	2,5 l	Ø

Sulfuric acid, 50%
AC2079 Sulfuric acid, solution 50% w/v, reagent grade

- Synonyms: Sulphuric acid
- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,28 g/cm³
- Solub. in water: (20 °C): miscible
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796

- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, neutralising agent.

- assay (acidimetric) min. 50 %
- colour (Hazen) max. 10

Art. No.	Volume	Container
AC20791000	1 l	Ø

Sulfuric acid, solution 1/3 w/v
AC2074 Sulfuric acid, solution 1/3 w/v

- Synonyms: Sulphuric acid
- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: ~ 1,2 g/cm³
- Boiling point: ~ 135 °C
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796

- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, neutralising agent.

- assay (acidimetric) approx. 33,3 %

Art. No.	Volume	Container
AC20740500	500 ml	Ø
AC20741000	1 l	Ø

Sulfuric acid, 25%
AC2078 Sulfuric acid, solution 25% w/w, reagent grade

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,18 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 103 °C
- LD 50 (oral, rat): 2140 mg/kg
- EC-Index-No.: 016-020-00-8

- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, neutralising agent, for determination of: barium.

- Applications: analytical chemistry, laboratory reagent, neutralising agent, for determination of: barium.

- assay (acidimetric) min. 25 %

Art. No.	Volume	Container
AC20781000	1 l	Ø

Sulfuric acid, solution 16% w/v
AC2109 Sulfuric acid, solution 16% w/v, reagent grade

- Synonyms: Sulphuric acid
- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density:
- EC-Index-No.: 016-020-00-8

- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- Tariff number: 2807 00 00 00
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313 assay (acidimetric) min. 16 %

- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313 assay (acidimetric) min. 16 %

Art. No.	Volume	Container
AC21091000	1 l	Ø

Sulfuric acid, 10%

AC2068 Sulfuric acid, solution 10% w/v, extra pure



- Synonyms: Sulphuric acid
- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $1,06$ g/cm³
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796

- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, neutralising agent.

assay (acidimetric) approx. 10 %

Art. No.	Volume	Container
AC20681000	1 l	⓪

Sulfuric acid, volumetric solutions

AC2089 Sulfuric acid, solution 5 mol/l (10 N)



- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $1,28$ g/cm³
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796

- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00

- Applications: analytical chemistry, laboratory reagent, neutralising agent.

Art. No.	Volume	Container
AC20891000	1 l	⓪
AC20892500	2,5 l	⓪

AC2075 Sulfuric acid, solution 4 mol/l (8 N), for COD determination, according to ISO 6060



- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $\sim 1,023$ g/cm³
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796

- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2807 00 00 00

- Applications: analytical chemistry, laboratory reagent, neutralising agent.

Art. No.	Volume	Container
AC20751000	1 l	⓪

AC2086 Sulfuric acid, solution 2,5 mol/l (5 N)



- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $1,15$ g/cm³
- Boiling point: ~ 103 °C
- EC-Index-No.: 016-020-00-8

- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a

- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, neutralising agent.

Art. No.	Volume	Container
AC20861000	1 l	⓪

AC2085 Sulfuric acid, solution 1 mol/l (2 N)



- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $1,06$ g/cm³
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796

- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2807 00 00 00

- Applications: analytical chemistry, laboratory reagent, neutralising agent.

Art. No.	Volume	Container
AC20851000	1 l	⓪

AC2080 Sulfuric acid, solution 0,5 mol/l (1 N)

- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $1,02$ g/cm³
- LD 50 (oral, rat): 2140 mg/kg (pure substance)
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796

- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-H sentences: EUH210
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC20801000	1 l	⓪
AC2080005P	5 l	⓪
AC2080010C	10 l	⓪
AC2080025P	25 l	⓪

AC2081 Sulfuric acid, solution 0,25 mol/l (0,5 N)

- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $1,01$ g/cm³
- LD 50 (oral, rat): 2140 mg/kg (pure substance)
- EC-Index-No.: 016-020-00-8

- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-H sentences: EUH210
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC20811000	1 l	⓪
AC2081010C	10 l	⓪

AC2084 Sulfuric acid, solution 0,13 mol/l (0,26 N)

- H_2SO_4
- $M = 98,08$ g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: $1,01$ g/cm³
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796



- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-H sentences: EUH210
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC20841000	1 l	⓪
AC2084005P	5 l	⓪
AC2084010C	10 l	⓪

AC2106 Sulfuric acid, solution 0,1275 mol/l (0,255 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,00 g/cm³
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796




- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-H sentences: EUH210
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC2106005P	5 l	
AC2106010C	10 l	

AC2088 Sulfuric acid, solution 0,125 mol/l (0,25 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,01 g/cm³
- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796



- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-H sentences: EUH210
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC20881000	1 l	
AC2088005P	5 l	
AC2088010C	10 l	

AC2087 Sulfuric acid, solution 0,1 mol/l (0,2 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: ~ 1,00 g/cm³




- EC-Index-No.: 016-020-00-8
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC20871000	1 l	
AC2087010C	10 l	

AC2082 Sulfuric acid, solution 0,05 mol/l (0,1 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: ~ 1,00 g/cm³
- LD 50 (oral, rat): 2140 mg/kg (pure substance)


- EC-Index-No.: 016-020-00-8
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC20821000	1 l	
AC2082005P	5 l	
AC2082010C	10 l	

AC2076 Sulfuric acid, solution 0,025 mol/l (0,05 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,00 g/cm³

- EC-Index-No.: 016-020-00-8
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC20761000	1 l	

AC2083 Sulfuric acid, solution 0,01 mol/l (0,02 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,00 g/cm³

- EC-Index-No.: 016-020-00-8
- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.


Art. No.	Volume	Container
AC20831000	1 l	

AC2073 Sulfuric acid, concentrated solution to prepare 1 l of solution 0,5 mol/l (1 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,29 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 135°C
- LD 50 (oral, rat): 2140 mg/kg

- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a

- Tariff number: 2807 00 00 00
- Applications: analytical chemistry, titrant in volumetric analysis.


Art. No.	Volume	Container
AC207300PA	u.	

AC2072 Sulfuric acid, concentrated solution to prepare 1 l of solution 0,05 mol/l (0,1 N)

- H₂SO₄
- M = 98,08 g/mol
- CAS [7664-93-9]
- EINECS-No.: 231-639-5
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 2140 mg/kg

- EC-Index-No.: 016-020-00-8
- ADR: 8 C1 II UN 2796
- IMDG: 8 II UN 2796
- IATA/ICAO: 8 II UN 2796
- GHS-H sentences: EUH210
- Tariff number: 2807 00 00 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
AC207200PA	u.	

Scharlau chromatography vials





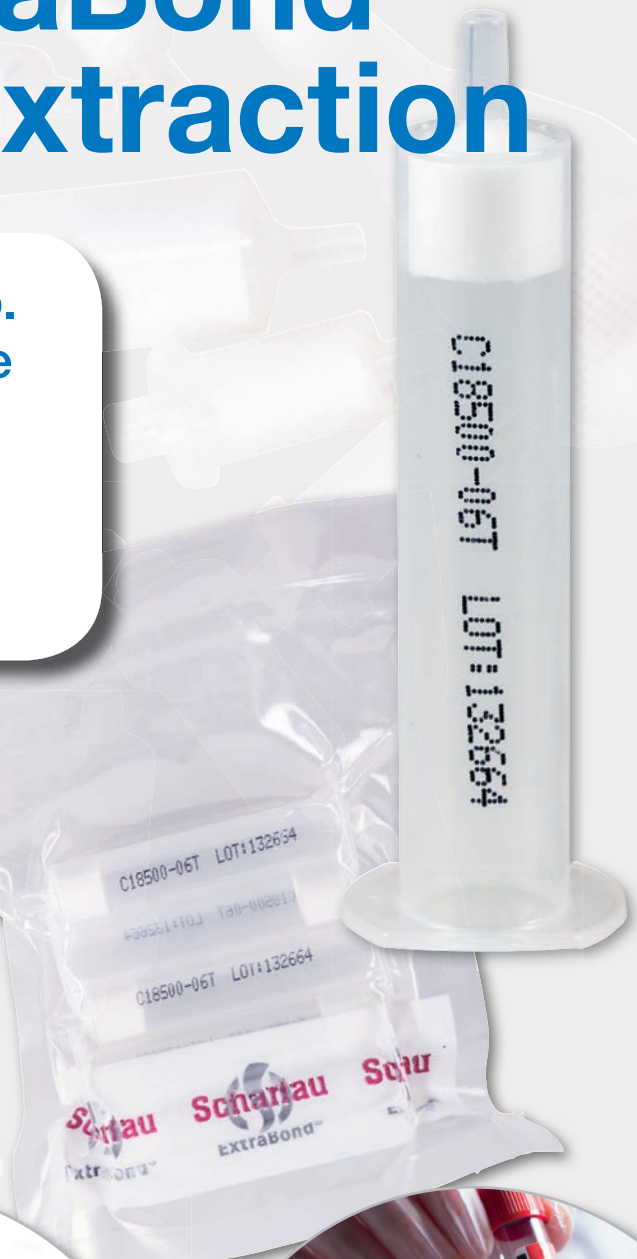
Scharlau ExtraBond® Solid Phase Extraction

ExtraBond® key features

- ✓ Phase type and batch no. printed on each cartridge
- ✓ Vacuum packed
- ✓ Perfect traceability
- ✓ Better preservation

ExtraBond® Line

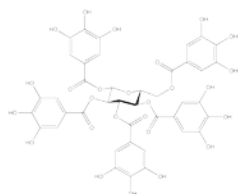
- ✓ ExtraBond® Silica Based
- ✓ ExtraBond® Drug
- ✓ ExtraBond® PolyU
- ✓ ExtraBond® Flash
- ✓ ExtraBond® QuEChERS



TAE 10X buffer pH = 8,3
TA0010 TAE 10X buffer pH = 8,3, molecular biology grade

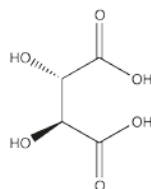
- Synonyms: TRIS-Acetate-EDTA
- Density: 1,016 g/cm³
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for electrophoresis, for determination of: nucleic acids.
- pH 8,2 - 8,4
- DNases, RNases, Proteases non detected

Art. No.	Volume	Container
TA00101000	1 l	⓪
TA0010010C	10 l	⓪

Tannic acid
AC2090 Tannic acid, synthesis grade


- Synonyms: Tannin
- C₇₆H₅₂O₄₆
- M = 1701,22 g/mol
- CAS [1401-55-4]
- EINECS-No.: 215-753-2
- Solub. in water: (20 °C): 250 g/l
- Tariff number: 3201 90 90 80
- Applications: laboratory reagent, synthesis of organic products, chromatography (absorbent for: proteins).

Art. No.	Volume	Container
AC20900250	250 g	⓪
AC20901000	1 kg	⓪

L(+)-Tartaric acid
AC3001 L(+)-Tartaric acid, reagent grade, ACS, ISO


- Synonyms: 2,3-Dihydroxybutanedioic acid
- C₄H₄O₆
- M = 150,09 g/mol
- CAS [87-69-4]
- EINECS-No.: 201-766-0
- Solub. in water: (20 °C): soluble
- Melting point: 170 °C
- Ignition temp.: 425 °C
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 2918 12 00 00
- Applications: in food industry, acidifying agent, photography, cosmetics, in porcelain industry, in the textile industry, in buffer solutions (for pharmaceuticals synthesizing).

assay (acidimetric) min. 99,5 %

Art. No.	Volume	Container
AC30010500	500 g	⓪
AC30011000	1 kg	⓪
AC3001005P	5 kg	⓪
AC3001025P	25 kg	⓪

TBE 5X buffer pH = 8,3
TB0010 TBE 5X buffer pH = 8,3, molecular biology grade

- Synonyms: TRIS-Borate-EDTA
- Density: 1,03 g/cm³
- GHS-H sentences: EUH210
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, in buffer solutions, for electrophoresis, for determination of: nucleic acids.
- pH 8,2 - 8,4
- DNases, RNases non detected

Art. No.	Volume	Container
TB00101000	1 l	⓪
TB0010010C	10 l	⓪

T.B.N. Mixtures

- Density: 1,08 g/cm³
- ADR: 8 C3 II UN 3265
- IMDG: 8 II UN 3265
- IATA/ICAO: 8 II UN 3265
- GHS-signal word: Danger
- GHS-H sentences: H314 - H332 - H411 - EUH209A
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a -
- Tariff number: 3814 00 90 90
- Applications: analytical chemistry, in the petroleum industry.

ME0513 Mixture T.B.N. : chlorobenzene/acetic acid, 2:1 v/v, according to ASTM D974, extra pure

Art. No.	Volume	Container	Art. No.	Volume	Container
ME05131000	1 l	⓪	ME0513025A	25 l	⓪
ME05132500	2,5 l	⓪	ME0513025P	25 l	⓪
ME0513007E	7 l	⓪			

ME0515 Mixture T.B.N. : chlorobenzene/acetic acid, 2:1 v/v, according to ASTM D2896, reagent grade

Art. No.	Volume	Container	Art. No.	Volume	Container
ME05151000	1 l	⓪	ME0515007E	7 l	⓪
ME05152500	2,5 l	⓪			

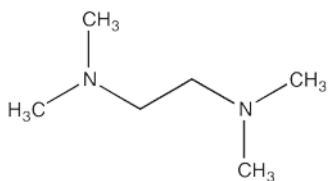
ME0516 Mixture T.B.N., according to ASTM D4739

- Density: 1,04 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. < 17°C
- ADR: 3 FT1 II UN 1992
- IMDG: 3 II UN 1992
- IATA/ICAO: 3 II UN 1992
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H351 - H361d - H373 - H302 - H315 - H319 - H336 -
- GHS-P sentences: P210 - P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 3814 00 90 90

Art. No.	Volume	Container
ME0516025P	25 l	⓪

TEMED

TE0050 TEMED, reagent grade



- Synonyms: N,N,N',N'-Tetramethylethylenediamine, 1,2-Bis(dimethylamino)ethane, TMEDA
- $C_6H_{16}N_2$
- $M = 116,21 \text{ g/mol}$
- CAS [110-18-9]
- EINECS-No.: 203-744-6
- Density: $0,78 \text{ g/cm}^3$
- Solub. in water: (20 °C): freely miscible
- Melting point: -55 °C
- Boiling point: 121 °C
- Flash pt. 17 °C
- Refraction index: (n 20 °C/D) 1,4179
- LD 50 (oral, rat): 268 mg/kg
- EC-Index-No.: 612-103-00-3
- ADR: 3 F1 II UN 2372
- IMDG: 3 II UN 2372

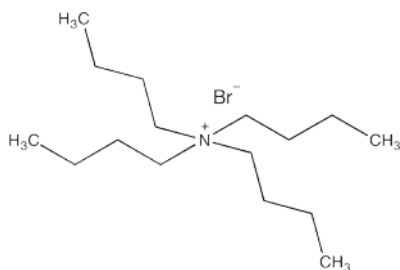
- IATA/ICAO: 3 II UN 2372
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - H302 - H332
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 29 00 90
- Applications: analytical chemistry, synthesis of polymers.
- Appearance: Clear liquid

assay (G.C.)min. 99 %

Art. No.	Volume	Container
TE00500010	10 ml	⊘
TE00500100	100 ml	⊘

Tetrabutylammonium bromide

BR0200 Tetrabutylammonium bromide, HPLC grade



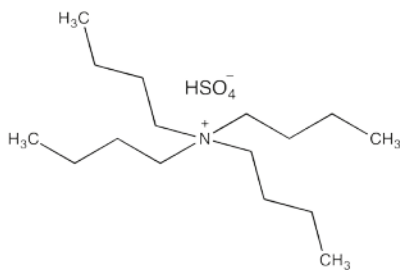
- Synonyms: TBAB, Tetra-n-butylammonium bromide
- $C_{16}H_{36}BrN$
- $M = 322,38 \text{ g/mol}$
- CAS [1643-19-2]
- EINECS-No.: 216-699-2
- Solub. in water: (20 °C): 600 g/l
- Melting point: 100 - 103 °C
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, laboratory reagent, chromatography, synthesis of organic products, phase transfer catalyst.

assay (argentometric)min. 99 %
 max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at
 wavelength: absorbance:
 240 nm. 0,04 AU
 250 nm. 0,03 AU
 260 nm. 0,02 AU

Art. No.	Volume	Container
BR02000025	25 g	⊘

Tetrabutylammonium hydrogen sulfate

TE0120 Tetrabutylammonium hydrogen sulfate, for ion-pair chromatography



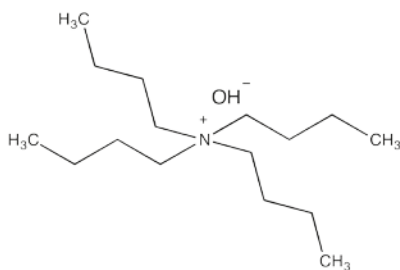
- $C_{16}H_{37}NO_4S$
- $M = 339,54 \text{ g/mol}$
- CAS [32503-27-8]
- EINECS-No.: 251-068-5
- Solub. in water: (20 °C): freely soluble
- Melting point: 169 - 172 °C
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P301 + P312 - P337 + P313 - P501a
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, chromatography, synthesis of organic products, phase transfer catalyst.

assay (acidimetric)min. 99 %
 max. absorbance of an aqueous sol. 0,005 M in a 1 cm cell at
 wavelength: absorbance:
 200 nm. 0,155 AU
 220 nm. 0,046 AU
 250 nm. 0,009 AU

Art. No.	Volume	Container
TE01200010	10 g	⊘
TE01200100	100 g	⊘

Tetrabutylammonium hydroxide, solution 0,1 mol/l, buffered with phosphates

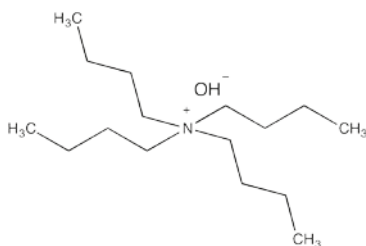
TE0115 Tetrabutylammonium hydroxide, solution 0,1 mol/l, buffered with phosphates, HPLC grade



- $C_{16}H_{37}NO$
- $M = 259,48 \text{ g/mol}$
- CAS [2052-49-5]
- EINECS-No.: 218-147-6
- Density: (25 °C) $1,005 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2923 90 00 90
- Applications: analytical chemistry, chromatography.

pH (20 °C)7,4 - 7,6

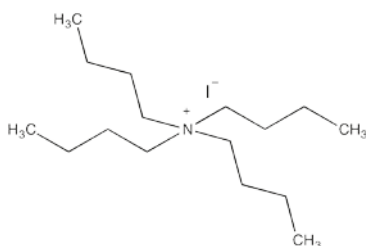
Art. No.	Volume	Container
TE01150250	250 ml	⊘
TE01151000	1 l	⊘

Tetrabutylammonium hydroxide, volumetric sols. in alcoholic medium
TE0116 Tetrabutylammonium hydroxide, solution 0,1 mol/l, in 2-propanol/methanol


- C₁₆H₃₇NO
- M = 259,48 g/mol
- CAS [2052-49-5]
- EINECS-No.: 218-147-6
- Density: 0,79 g/cm³
- Solub. in water: (20 °C): miscible
- Flash pt. 12 °C
- ADR: 3 FTC II UN 3286
- IMDG: 3 II UN 3286
- IATA/ICAO: 3 II UN 3286
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - H371 - H336

- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, titrant in volumetric analysis, for non-aqueous titrations.

Art. No.	Volume	Container
TE01161000	1 l	0

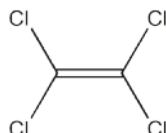
Tetrabutylammonium iodide
YO0070 Tetrabutylammonium iodide, extra pure, Reag. Ph Eur


- C₁₆H₃₆IN
- M = 369,38 g/mol
- CAS [311-28-4]
- EINECS-No.: 206-220-5
- Solub. in water: (20 °C): slightly soluble
- Melting point: 143 - 146 °C
- LD 50 (oral, rat): 1990 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a

- Tariff number: 2923 90 00 90
- Applications: synthesis of organic products, laboratory reagent, phase transfer catalyst.

assay (argentometric)min. 99 %

Art. No.	Volume	Container
YO00701000	1 kg	0

Tetrachloroethene


- Synonyms: Perchloroethylene, Tetrachloroethylene, Ethylene tetrachloride
- C₂Cl₄
- M = 165,82 g/mol
- CAS [127-18-4]
- EINECS-No.: 204-825-9
- Density: 1,62 g/cm³
- Solub. in water: (20 °C): 0,2 g/l
- Melting point: -22 °C
- Boiling point: 121 °C
- Vapour pressure: (20 °C) 18 hPa
- Refraction index: (n 20 °C/D) 1,5053
- Dielectric const.: (20 °C) 2,4

- LD 50 (oral, rat): 2629 mg/kg
- EC-Index-No.: 602-028-00-4
- ADR: 6.1 T1 III UN 1897
- IMDG: 6.1 III UN 1897
- IATA/ICAO: 6.1 III UN 1897
- GHS-signal word: Warning
- GHS-H sentences: H351 - H411
- GHS-P sentences: P281 - P273 - P308 + P313 - P391 - P405 - P501a
- Tariff number: 2903 23 00 00
- Applications: analytical chemistry, for spectroscopy, chromatography, laboratory reagent, solvents.

TE0125 Tetrachloroethene, extra pure

 assay (G.C.)min. 99,5 %
 residue on evaporationmax. 0,001 %
 water (K.F.)max. 0,01 %
 water (K.F.)max. 0,01 %

Art. No.	Volume	Container
TE01251000	1 l	0
TE01252500	2,5 l	0

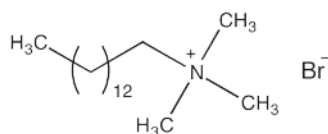
Art. No.	Volume	Container
TE0125005P	5 l	0
TE0125025A	25 l	0

TE0127 Tetrachloroethene, Multisolvent® HPLC grade UV-VIS

 assay (G.C.)min. 99,9 %
 residue on evaporationmax. 0,0003 %
 water (K.F.)max. 0,01 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 290 nm.T(%) A (AU)
 290 nm.10 % 1,000 AU
 295 nm.50 % 0,301 AU

 300 nm.80 % 0,097 AU
 305 nm.85 % 0,071 AU
 350 nm.89 % 0,051 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
TE01271000	1 l	0
TE01272500	2,5 l	0

Tetradecyltrimethylammonium bromide
BR0201 Tetradecyltrimethylammonium bromide, HPLC grade


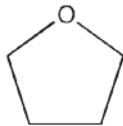
- Synonyms: Myristyltrimethylammonium bromide, N,N,N-Trimethyl-1-tetradecanammonium bromide
- C₁₇H₃₅BrN
- M = 316,08 g/mol
- CAS [1119-97-7]
- EINECS-No.: 214-291-9
- Solub. in water: (20 °C): 100 g/l
- Melting point: 245 - 250 °C
- ADR: 8 C10 III UN 1759
- IMDG: 8 III UN 1759
- IATA/ICAO: 8 III UN 1759
- GHS-signal word: Danger
- GHS-H sentences: H314
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2923 90 00 90

- Applications: analytical chemistry, chromatography, laboratory reagent, synthesis of organic products, disinfectant, antiseptic.


 assay (argentometric)min. 96 %
 max. absorbance of an aqueous sol. 10 % in a 1,0 cm cell at
 wavelength:absorbance:
 240 nm.0,04 AU
 250 nm.0,03 AU
 260 nm.0,02 AU

Art. No.	Volume	Container
BR02010025	25 g	0

Tetrahydrofuran




- Synonyms: THF, Tetramethylene oxide, Oxolane
- C_4H_8O
- $M = 72,11 \text{ g/mol}$
- CAS [109-99-9]
- EINECS-No.: 203-726-8
- Density: $0,89 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: $-108,5 \text{ °C}$
- Boiling point: $65 - 66 \text{ °C}$
- Flash pt. $-21,5 \text{ °C}$
- Ignition temp.: 215 °C
- Vapour pressure: (20°C) 173 hPa
- Refraction index: (n 20 °C/D) $1,407$
- Dielectric const.: (20 °C) $7,4$
- LD 50 (oral, rat): 1650 mg/kg
- EC-Index-No.: 603-025-00-0
- ADR: 3 F1 II UN 2056
- IMDG: 3 II UN 2056
- IATA/ICAO: 3 II UN 2056
- GHS-signal word: Danger
- GHS-H sentences: H225 - EUH019 - H351 - H319 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P353 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2932 11 00 00
- Applications: solvents, synthesis of polymers, synthesis of organic products, for organometallic compounds synthesizing, for histology.

TE0219 Tetrahydrofuran, synthesis grade, stabilized with 2,6-Di-tert-butyl-4-methylphenol (BHT)


assay (G.C.) min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	TE02191000	1 l	0	TE0219005P	5 l	0
	TE02192500	2,5 l	0	TE0219025L	25 l	0
	TE0219005L	5 l	0	TE0219025S	25 l	0

TE0220 Tetrahydrofuran, extra pure, stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)


assay (G.C.) min. 99,5 %	Art. No.	Volume	Container	Art. No.	Volume	Container
residue on evaporation max. 0,025 %	TE02201000	1 l	0	TE0220005L	5 l	0
water (K.F.) max. 0,1 %	TE02202500	2,5 l	0	TE0220025A	25 l	0

TE0221 Tetrahydrofuran, reagent grade, ACS, Reag. Ph Eur, stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)


assay (G.C.) min. 99,8 %	Art. No.	Volume	Container	Art. No.	Volume	Container
	TE02211000	1 l	0	TE0221025S	25 l	0
	TE02212500	2,5 l	0			

TE0223 Tetrahydrofuran, dried (max. 0,005% H₂O), reagent grade, stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) min. 99,8 %	Art. No.	Volume	Container	Art. No.	Volume	Container
water (K.F.) max. 0,005 %	TE02231000	1 l	0	TE02232500	2,5 l	0

TE0228 Tetrahydrofuran, Multisolvant® GPC grade, ACS, stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)



assay (G.C.) min. 99,9 %	Art. No.	Volume	Container	Art. No.	Volume	Container
residue on evaporation max. 0,025 %	TE02281000	1 l	0	TE0228007E	7 l	0
water (K.F.) max. 0,02 %	TE02282500	2,5 l	0	TE0228030S	30 l	0
	TE02284000	4 l	0			

TE0225 Tetrahydrofuran, HPLC grade, without stabilizer


assay (G.C.) min. 99,9 %	min. transmission/max. absorbance in a 1,0 cm cell at wavelength:	Art. No.	Volume	Container
residue on evaporation max. 0,0001 %	T(%) A (AU)	TE02251000	1 l	0
water (K.F.) max. 0,02 %	230 nm. 35 % 0,456 AU	TE02252500	2,5 l	0
	243 nm. 50 % 0,301 AU	TE02254000	4 l	0
	273 nm. 90 % 0,046 AU	TE0225020S	20 l	0
	Microfiltered through membranes of pore diameter 0,22µm			

TE0222 Tetrahydrofuran, 99,8%, anhydrous (max. 0,005% H₂O), stabilized with 250 ppm of 2,6-Di-tert-butyl-4-methylphenol (BHT)


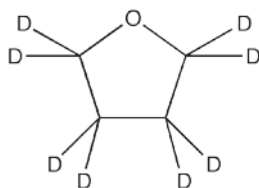
assay (G.C.) min. 99,8 %	Art. No.	Volume	Container	Art. No.	Volume	Container
water (K.F.) max. 0,005 %	TE02220100	100 ml	0	TE02221000	1 l	0
	TE02220500	500 ml	0			

TE0229 Tetrahydrofuran, 99,5%, anhydrous (max. 0,005% H₂O), with molecular sieves, stabilized with 2,6-Di-tert-butyl-4-methylphenol (BHT)


assay (G.C.) min. 99,5 %	Art. No.	Volume	Container
water (K.F.) max. 0,005 %	TE02291000	1 l	0

Tetrahydrofuran-d8

TE0230 Tetrahydrofuran-d8, deuteration degree min. 99,5%, NMR spectroscopy grade, Spectroso[®]



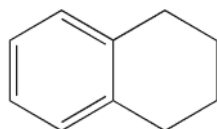
- Synonyms: Octadeuterotetrahydrofurane
- C₄D₈O
- M = 80,16 g/mol
- CAS [1693-74-9]
- EINECS-No.: 216-898-4
- Density: 0,99 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -108 °C
- Boiling point: 64 °C
- Flash pt. -17,5 °C
- LD 50 (oral, rat): 1650 mg/kg
- ADR: 3 F1 II UN 2056
- IMDG: 3 II UN 2056

- IATA/ICAO: 3 II UN 2056
- GHS-signal word: Danger
- GHS-H sentences: H225 - EUH019 - H319 - H335
- GHS-P sentences: P210 - P241 - P303 + P361 + P533 - P305 + P351 + P338 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
TE0230.750	x8x0,75 ml	⊔

1,2,3,4-Tetrahydronaphthalene

TE0240 1,2,3,4-Tetrahydronaphthalene, pure



- Synonyms: Tetralin
- C₁₀H₁₂
- M = 132,21 g/mol
- CAS [119-64-2]
- EINECS-No.: 204-340-2
- Density: 0,97 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: -36 °C
- Boiling point: 207 °C
- Flash pt. 77 °C
- Ignition temp.: 425 °C
- Vapour pressure: (20 °C) 0,4 hPa
- Refraction index: (n 20 °C/D) 1,5414
- Dielectric const.: (20 °C) 2,6
- LD 50 (oral, rat): 2860 mg/kg
- EC-Index-No.: 601-045-00-4

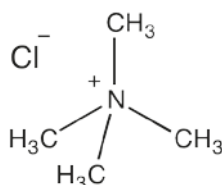
- ADR: 9 M6 III UN 3082
- IMDG: 9 III UN 3082
- IATA/ICAO: 9 III UN 3082
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H411 - EUH019
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P501a
- Tariff number: 2902 90 90 00
- Applications: solvents, degreasing agent.

assay (G.C.)min. 98 %

Art. No.	Volume	Container
TE02401000	1 l	⊔

Tetramethylammonium chloride

CL0355 Tetramethylammonium chloride, synthesis grade



- C₄H₁₂ClN
- M = 109,60 g/mol
- CAS [75-57-0]
- EINECS-No.: 200-880-8
- Solub. in water: (20 °C): freely soluble
- Melting point: > 300 °C
- LD 50 (oral, rat): 80 mg/kg
- ADR: 6.1 T2 III UN 2811
- IMDG: 6.1 III UN 2811
- IATA/ICAO: 6.1 III UN 2811
- GHS-signal word: Danger
- GHS-H sentences: H301 - H312 - H315

- GHS-P sentences: P280 - P301 + P310 - P321 - P322 - P405 - P501a
- Tariff number: 2923 90 00 90
- Applications: synthesis of organic products, laboratory reagent, catalyst.
- Appearance: White-ivory crystalline powder

assay (argentometric)min. 98 %

Art. No.	Volume	Container
CL03550025	25 g	⊔

Tetrasodium diphosphate decahydrate

SO0583 Tetrasodium diphosphate decahydrate, extra pure, Reag. Ph Eur

- Synonyms: Tetrasodium pyrophosphate, TSP
- Na₄P₂O₇ · 10H₂O
- M = 446,06 g/mol
- CAS [13472-36-1]
- EINECS-No.: 231-767-1
- Solub. in water: (20 °C): ~ 60 g/l
- Melting point: ~ 79,5 °C
- Boiling point: 93,8 °C

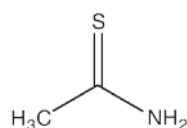
- LD 50 (oral, rat): 4000 mg/kg (anhydrous substance)
- Tariff number: 2835 39 00 00
- Applications: analytical chemistry, laboratory reagent, in food industry (E 450), emulsifier, stabilizer, humectant.

Residual solvents are analysed according to guideline CPMP/ICH/283/95.

assay (acidimetric)min. 99 %

Art. No.	Volume	Container
SO05830500	500 g	⊔
SO05831000	1 kg	⊔
SO0583005P	5 kg	⊔

Thioacetamide



- Synonyms: Ethanethioamide
- C₂H₃NS
- M = 75,13 g/mol
- CAS [62-55-5]
- EINECS-No.: 200-541-4
- Solub. in water: (25 °C): 163 g/l
- Melting point: 113 - 114 °C
- LD 50 (oral, rat): 301 mg/kg
- EC-Index-No.: 616-026-00-6

- GHS-signal word: Danger
- GHS-H sentences: H350 - H302 - H315 - H319 - H412
- GHS-P sentences: P280 - P281 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2930 90 99 99
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, precipitant for: heavy metals.

TI0139 Thioacetamide, synthesis grade



assay (argentometric)min. 98 %

Art. No.	Volume	Container
TI01390250	250 g	⊔

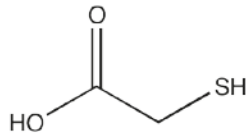
TI0140 Thioacetamide, reagent grade, ACS

assay (argentometric)min. 99 %

Art. No.	Volume	Container
TI01400050	50 g	⊘

Thioglycolic acid, 80%

AC3080 Thioglycolic acid, solution 80% w/w, extra pure



- Synonyms: Mercaptoacetic acid
- $C_2H_4O_2S$
- $M = 92,12 \text{ g/mol}$
- CAS [68-11-1]
- EINECS-No.: 200-677-4
- Density: $1,27 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: $-15 - -10 \text{ °C}$
- Flash pt. 126 °C (anhydrous substance)
- Vapour pressure: (20 °C) $0,1 \text{ hPa}$ (anhydrous substance)
- Refraction index: (n 20 °C/D) $1,5030$
- LD 50 (oral, rat): 73 mg/kg (anhydrous substance)
- EC-Index-No.: 607-090-00-6
- ADR: 8 C3 II UN 1940
- IMDG: 8 II UN 1940
- IATA/ICAO: 8 II UN 1940

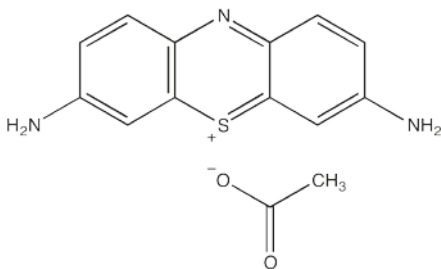
- GHS-signal word: Danger
- GHS-H sentences: H301 - H311 - H331 - H314
- GHS-P sentences: P301 + P310 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P361 - P405 - P501a
- Tariff number: 2930 90 99 99
- Applications: analytical chemistry, laboratory reagent, reagent for metals detection (iron, tin, silver, molybdenum), for spectrophotometric determinations (for determination of: palladium).

assay (iodometric)79 - 82 %

Art. No.	Volume	Container
AC30800500	500 ml	⊘
AC30801000	1 l	⊘

Thionine, C.I. 52000

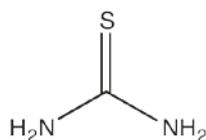
TI0250 Thionine, C.I. 52000, for microscopy



- Synonyms: Thionine (acetate), 3,7-Diaminophenothiazin-5-ium chloride, Lauth's violet
- $C_{14}H_{13}N_3O_2S$
- $M = 287,34 \text{ g/mol}$
- CAS [78338-22-4]
- Solub. in water: (25 °C): $\sim 2,5 \text{ g/l}$
- Tariff number: 3204 19 00 90
- Applications: microscopy, indicator.

Art. No.	Volume	Container
TI02500005	5 g	⊘
TI02500025	25 g	⊘

Thiourea



- Synonyms: Thiocarbamide
- CH_4N_2S
- $M = 76,11 \text{ g/mol}$
- CAS [62-56-6]
- EINECS-No.: 200-543-5
- Solub. in water: (20 °C): 137 g/l
- Melting point: $171 - 184 \text{ °C}$
- Ignition temp.: 440 °C
- LD 50 (oral, rat): 1750 mg/kg
- EC-Index-No.: 612-082-00-0
- ADR: 9 M7 III UN 3077

- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H351 - H361d - H302 - H411
- GHS-P sentences: P281 - P273 - P301 + P312 - P308 + P313 - P405 - P501a
- Tariff number: 2930 90 99 99
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, photography, manufacturing of synthetic resins, for the detection of: bismuth and selenium.

TI0300 Thiourea, extra pure

assay (argentometric)min. 98 %

Art. No.	Volume	Container
TI03000500	500 g	⊘
TI03001000	1 kg	⊘

Art. No.	Volume	Container
TI0300005P	5 kg	⊘

TI0303 Thiourea, reagent grade, ACS

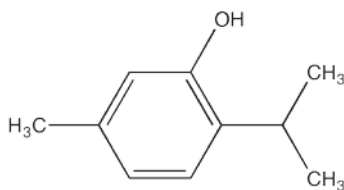
assay (argentometric, on dried base)min. 99 %

Art. No.	Volume	Container
TI03030500	500 g	⊘

Art. No.	Volume	Container
TI03031000	1 kg	⊘

Thymol

TI0080 Thymol, extra pure, Pharpur®, Ph Eur, BP, NF



- Synonyms: 5-Methyl-2-(1-methylethyl)phenol, 5-Methyl-2-isopropyl-1-phenol
- $C_{10}H_{14}O$
- M = 150,22 g/mol
- CAS [89-83-8]
- EINECS-No.: 201-944-8
- Solub. in water: (25 °C): 0,98 g/l
- Melting point: 49 - 51 °C
- Boiling point: 233 °C
- Flash pt. 104 °C
- Ignition temp.: 285 °C
- Vapour pressure: (50 °C) 2,5 hPa
- LD 50 (oral, rat): 980 mg/kg
- EC-Index-No.: 604-032-00-1
- ADR: 8 C4 III UN 2430
- IMDG: 8 III UN 2430
- IATA/ICAO: 8 III UN 2430
- GHS-signal word: Danger

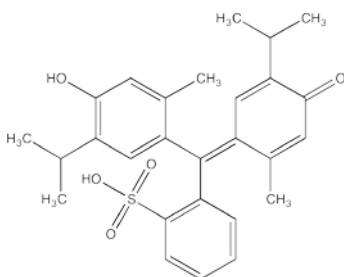
- GHS-H sentences: H314 - H302 - H411
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2907 19 00 90
- Applications: for pharmaceuticals synthesizing, anti-septic, disinfectant, cosmetics, manufacture of dyes, in pharma industry.

assay (G.C.)min. 99 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
TI00800100	100 g	Ⓟ
TI00800500	500 g	Ⓟ
TI0080005P	5 kg	Ⓟ

Thymol blue

AZ0225 Thymol blue, indicator, ACS

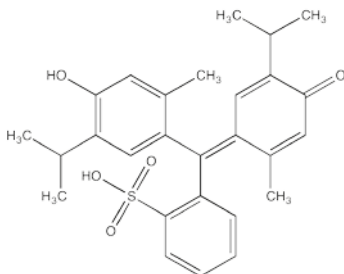


- Synonyms: Thymolsulfonphthalein, TB
- $C_{27}H_{30}O_5S$
- M = 466,60 g/mol
- CAS [76-61-9]
- EINECS-No.: 200-973-3
- Melting point: 221 °C
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, laboratory reagent, indicator.
- pH range 1: pink to brownish yellow 1,2 - 2,8
- pH range 2: greenish-yellow to blue 8,0 - 9,2

Art. No.	Volume	Container
AZ02250005	5 g	Ⓟ
AZ02250025	25 g	Ⓟ

Thymol blue, solution 0,04%

AZ0226 Thymol blue, solution 0,04%, indicator



- Synonyms: Thymolsulfonphthalein, TB
- $C_{27}H_{30}O_5S$
- M = 466,60 g/mol
- CAS [76-61-9]
- EINECS-No.: 200-973-3
- Flash pt. 49
- ADR: 3 F1 III UN 1993
- IMDG: 3 III UN 1993
- IATA/ICAO: 3 III UN 1993
- GHS-signal word: Warning
- GHS-H sentences: H226

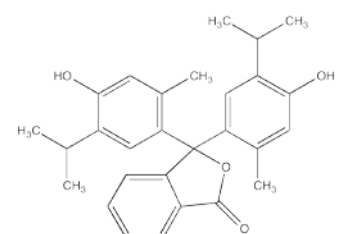
- GHS-P sentences: P210 - P241 - P280 - P240 - P303 + P361 + P353 - P501a
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, laboratory reagent, indicator.

pH range (red to yellow) 1,2 - 2,8
pH range (yellow to blue) 8,0 - 9,6

Art. No.	Volume	Container
AZ02260100	100 ml	Ⓟ

Thymolphthalein

TI0100 Thymolphthalein, indicator, reagent grade, ACS



- $C_{28}H_{30}O_4$
- M = 430,55 g/mol
- CAS [125-20-2]
- EINECS-No.: 204-729-7
- Solub. in water: (20 °C): almost insoluble
- Melting point: 253 °C
- Tariff number: 2932 20 90 90
- Applications: analytical chemistry, laboratory reagent, indicator.
- identity (UV-VIS spectroscopy)passes test

Art. No.	Volume	Container
TI01000005	5 g	Ⓟ
TI01000025	25 g	Ⓟ

Tin

ES0051 Tin, granulated (1 - 3 mm), extra pure, Reag. Ph Eur

- Sn
- M = 118,69 g/mol
- CAS [7440-31-5]
- EINECS-No.: 231-141-8
- Solub. in water: (20 °C): insoluble
- Melting point: 232 °C
- Boiling point: 2362 °C
- Tariff number: 8007 00 30 00
- Applications: analytical chemistry, laboratory reagent, reducing agent, in galvanotechnology (corrosion inhibitor), metal alloys, in the electronic industry, painting.

Art. No.	Volume	Container
ES00510100	100 g	Ⓟ
ES00510250	250 g	Ⓟ
ES00511000	1 kg	Ⓟ



Tin(II) chloride dihydrate

- Synonyms: Hydrochloric acid tin(II) salt dihydrate, Stannous chloride, Stannochlor
- $\text{SnCl}_2 \cdot 2\text{H}_2\text{O}$
- M = 225,63 g/mol
- CAS [10025-69-1]
- EINECS-No.: 231-868-0
- Solub. in water: (20 °C): soluble
- Melting point: 37,7 °C
- LD 50 (oral, rat): 700 mg/kg (anhydrous substance)
- GHS-signal word: Warning
- GHS-H sentences: H302 - H315 - H319 - H317 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2827 39 10 00
- Applications: analytical chemistry, laboratory reagent, for the detection of: arsenic, mercury, bismuth and gold.

ES0063 Tin(II) chloride dihydrate, extra pure, Pharpur®, Ph Eur, BP

assay (iodometric)98 - 102 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
ES00630100	100 g	⊘	ES0063005P	5 kg	⊘
ES00631000	1 kg	⊘	ES0063025P	25 kg	⊘

ES0064 Tin(II) chloride dihydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (iodometric)98 - 103 %

Art. No.	Volume	Container	Art. No.	Volume	Container
ES00640100	100 g	⊘	ES00641000	1 kg	⊘
ES00640250	250 g	⊘	ES0064025P	25 kg	⊘
ES00640500	500 g	⊘			

Tin(IV) chloride

ES0065 Tin(IV) chloride, synthesis grade

- Synonyms: Tin tetrachloride
- SnCl_4
- M = 260,50 g/mol
- CAS [7646-78-8]
- EINECS-No.: 231-588-9
- Density: 2,23 g/cm³
- Solub. in water: (20 °C): soluble (decomposes)
- Melting point: -33 °C
- Boiling point: 114,1 °C
- Vapour pressure: (20 °C) 24 hPa
- EC-Index-No.: 050-001-00-5
- ADR: 8 C1 II UN 1827
- IMDG: 8 II UN 1827
- IATA/ICAO: 8 II UN 1827
- GHS-signal word: Danger
- GHS-H sentences: H314 - H412
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2827 39 10 00
- Applications: laboratory reagent, synthesis of organic products (desiccant), mordant/corrosive, stabilizer (cosmetics), in the ceramics industry (in galvanotechnology).
- Appearance: Colourless liquid
- assay (iodometric)min. 99 %

Art. No.	Volume	Container
ES00650250	250 ml	⊘

Tin(IV) oxide

ES0070 Tin(IV) oxide, extra pure

- Synonyms: Tin dioxide, Stannic (IV) oxide
- SnO_2
- M = 150,70 g/mol
- CAS [18282-10-5]
- EINECS-No.: 242-159-0
- Solub. in water: (20 °C): insoluble
- Melting point: 1630 °C
- LD 50 (oral, rat): > 20000 mg/kg
- Tariff number: 2825 90 30 00
- Applications: laboratory reagent, mordant/corrosive (manufacture of dyes, painting), in the production of enamels, in the ceramics industry, polishing glass, metals and fingernails.
- assay (gravimetric)min. 99 %

Art. No.	Volume	Container
ES00701000	1 kg	⊘

TISAB III

TI0329 TISAB III, for fluorides determination

- Density: ~ 1,05 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-signal word: Warning
- GHS-H sentences: H319
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for determination of: fluorides.

Art. No.	Volume	Container
TI03290500	500 ml	⊘
TI03291000	1 l	⊘

TISAB IV

TI0330 TISAB IV, for fluorides determination, according to ASTM D1179

- Density: 1,20 g/cm³
- Solub. in water: (20 °C): miscible
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for determination of: fluorides.

Art. No.	Volume	Container
TI03300500	500 ml	⊘

Titanium dioxide

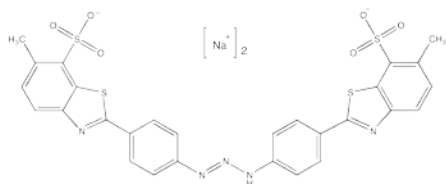
TI0367 Titanium dioxide, synthesis grade

- Synonyms: Titanium(IV) oxide
- TiO_2
- M = 79,90 g/mol
- CAS [13463-67-7]
- EINECS-No.: 236-675-5
- Solub. in water: (20 °C): insoluble
- Melting point: 1855 °C
- Boiling point: 2900 °C
- LD 50 (oral, rat): > 10000 mg/kg
- Tariff number: 2823 00 00 90
- Applications: laboratory reagent, synthesis of organic products, pigment, in food industry (colouring agent), painting, in the ceramics industry, in the production of enamels.
- assaymin. 99 %

Art. No.	Volume	Container
TI03670500	500 g	⊘
TI03671000	1 kg	⊘

Titan yellow, C.I. 19540

AM0095 Titan yellow, C.I. 19540, reagent for magnesium and indicator

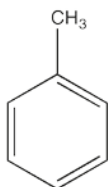


- Synonyms: Clayton yellow, Naphthamine G, Thiazole yellow
- $C_{28}H_{19}N_3Na_2O_6S_4$
- $M = 695,73 \text{ g/mol}$
- CAS [1829-00-1]
- EINECS-No.: 217-377-4
- Solub. in water: (24 °C): ~ 29 g/l
- Tariff number: 3204 19 00 90

- Applications: analytical chemistry, indicator, laboratory reagent (magnesium).

Art. No.	Volume	Container
AM00950025	25 g	0
AM00950100	100 g	0

Toluene



- Synonyms: Methylbenzene, Phenylmethane
- C_7H_8
- $M = 92,14 \text{ g/mol}$
- CAS [108-88-3]
- EINECS-No.: 203-625-9
- Density: 0,87 g/cm³
- Solub. in water: (20 °C): 0,52 g/l
- Melting point: -95 °C
- Boiling point: 111 °C
- Flash pt. 4 °C
- Ignition temp.: 535 °C
- Vapour pressure: (20 °C) 29 hPa
- Dielectric const.: (25 °C) 2,3

- LD 50 (oral, rat): 636 mg/kg
- EC-Index-No.: 601-021-00-3
- ADR: 3 F1 II UN 1294
- IMDG: 3 II UN 1294
- IATA/ICAO: 3 II UN 1294
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H361d - H373 - H315 - H336
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2902 30 00 00
- Applications: synthesis of organic products, solvents, as gasoline additive.

TO0072 Toluene, synthesis grade

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TO00721000	1 l	0	TO0072025P	25 l	0
TO00722500	2,5 l	0	TO0072025S	25 l	0
TO0072005P	5 l	0	TO0072200L	200 l	0

TO0073 Toluene, extra pure

assay (G.C.) min. 99,5 %
residue on evaporation max. 0,001 %
water (K.F.) max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TO00731000	1 l	0	TO0073025A	25 l	0
TO00732500	2,5 l	0	TO0073025S	25 l	0
TO0073005L	5 l	0	TO0073200E	200 l	0
TO0073005P	5 l	0	TO0073200L	200 l	0

TO0075 Toluene, reagent grade, ACS, ISO, Reag. Ph Eur

assay (G.C.) min. 99,9 %
residue on evaporation max. 0,0005 %
water (K.F.) max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TO00751000	1 l	0	TO0075025A	25 l	0
TO00752500	2,5 l	0	TO0075025S	25 l	0
TO0075005L	5 l	0	TO0075030S	30 l	0

TO0074 Toluene, dried (max. 0,0075% H₂O), reagent grade, ACS, ISO

assay (G.C.) min. 99,9 %
water (K.F.) max. 0,0075 %

Art. No.	Volume	Container
TO00741000	1 l	0

TO0085 Toluene, Multisolvant® HPLC grade ACS ISO UV-VIS

assay (G.C.) min. 99,9 %
residue on evaporation max. 0,0002 %
water (K.F.) max. 0,02 %
min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
T(%) A (AU)
285 nm. 10 % 1,000 AU
292 nm. 50 % 0,301 AU
305 nm. 80 % 0,097 AU
317 nm. 90 % 0,046 AU
350 nm. 98 % 0,009 AU

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
TO00851000	1 l	0
TO00852500	2,5 l	0
TO00854000	4 l	0
TO0085005M	5 l	0
TO0085007E	7 l	0
TO0085020S	20 l	0
TO0085025S	25 l	0

TO0081 Toluene, for GC residue analysis

assay (G.C.) min. 99,8 %
residue on evaporation max. 0,0001 %
water (K.F.) max. 0,02 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis.

Art. No.	Volume	Container
TO00811000	1 l	0
TO00812500	2,5 l	0

TO0082 Toluene, GC ultra-trace analysis grade

 assay (G.C.) min. 99,8 %
 residue on evaporation max. 0,0001 %
 water (K.F.) max. 0,02 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
TO00821000	1 l	0
TO00822500	2,5 l	0

TO0084 Toluene, 99,8%, anhydrous (max. 0,003% H₂O)

 assay (G.C.) min. 99,8 %
 water (K.F.) max. 0,003 %

Art. No.	Volume	Container
TO00840100	100 ml	0
TO00840500	500 ml	0

Art. No.	Volume	Container
TO00841000	1 l	0

TO0087 Toluene, 99,5%, anhydrous (max. 0,005% H₂O), with molecular sieves

 assay (G.C.) min. 99,5 %
 water (K.F.) max. 0,005 %

Art. No.	Volume	Container
TO00871000	1 l	0

TO0086 Toluene, for histology

assay (G.C.) min. 99,5 %

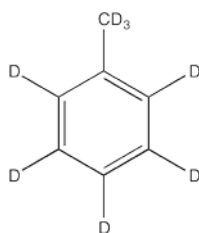
Art. No.	Volume	Container
TO0086005L	5 l	0

TO0083 Toluene, ASTM

assay (G.C.) min. 99,5 %

Art. No.	Volume	Container
TO0083025A	25 l	0

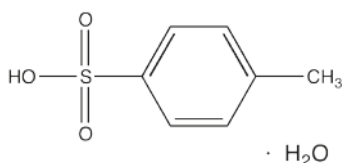
Art. No.	Volume	Container
TO0083200L	200 l	0

Toluene-d₈
TO0080 Toluene-d₈, deuteration degree min. 99,5%, NMR spectroscopy grade, Spectrosol®


- Synonyms: Methylbenzene deuterated
- C₇D₈
- M = 100,19 g/mol
- CAS [2037-26-5]
- EINECS-No.: 218-009-5
- Density: 0,94 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: -85 °C
- Boiling point: 109 °C
- Flash pt. 4 °C
- Ignition temp.: 535 °C
- LD 50 (oral, rat): 636 mg/kg
- ADR: 3 F1 II UN 1294
- IMDG: 3 II UN 1294

- IATA/ICAO: 3 II UN 1294
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H361d - H373 - H315 - H336
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for nuclear magnetic resonance spectroscopy.

Art. No.	Volume	Container
TO00800010	10 ml	0

Toluene-4-sulfonic acid monohydrate


- Synonyms: PTSA monohydrate, 4-Methylbenzenesulfonic acid, PASAM, p-Toluenesulfonic acid
- C₇H₈O₃S·H₂O
- M = 190,22 g/mol
- CAS [6192-52-5]
- EINECS-No.: 203-180-0
- Solub. in water: (20 °C): ~ 750 g/l
- Melting point: 105 °C (anhydrous substance)
- Flash pt. 180 °C
- LD 50 (oral, rat): 2480 mg/kg (anhydrous substance)
- EC-Index-No.: 016-030-00-2

- ADR: 8 C4 III UN 2585
- IMDG: 8 III UN 2585
- IATA/ICAO: 8 III UN 2585
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2904 10 00 90
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products.

AC3120 Toluene-4-sulfonic acid monohydrate, synthesis grade

assay (acidimetric, on dried sample) min. 98 %

Art. No.	Volume	Container
AC31200250	250 g	0
AC31201000	1 kg	0

Art. No.	Volume	Container
AC3120005P	5 kg	0

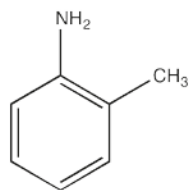
AC3123 Toluene-4-sulfonic acid monohydrate, reagent grade

assay (acidimetric, on dried sample) min. 99 %

Art. No.	Volume	Container
AC31230250	250 g	0

o-Toluidine

T00120 o-Toluidine, synthesis grade



- Synonyms: 2-Aminotoluene, 2-Methylaniline
- C₇H₉N
- M = 107,16 g/mol
- CAS [95-53-4]
- EINECS-No.: 202-429-0
- Density: 0,99 g/cm³
- Solub. in water: (20 °C): 15 g/l
- Melting point: < -15 °C
- Boiling point: 200 °C
- Flash pt. 85 °C
- Ignition temp.: 480 °C
- Vapour pressure: (20 °C) 0,18 hPa
- LD 50 (oral, rat): 670 mg/kg
- EC-Index-No.: 612-091-00-X
- ADR: 6.1 T1 II UN 1708
- IMDG: 6.1 II UN 1708

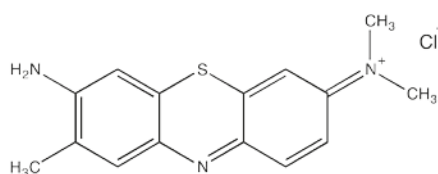
- IATA/ICAO: 6.1 II UN 1708
- GHS-signal word: Danger
- GHS-H sentences: H301 - H331 - H350 - H400 - H319
- GHS-P sentences: P261 - P280 - P301 + P310 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2921 43 00 90
- Applications: laboratory reagent, synthesis of organic products, manufacture of dyes, in the textile industry.

assay (G.C.) min. 99 %

Art. No.	Volume	Container
T001201000	1 l	0

Toluidine blue, C.I. 52040

AZ0235 Toluidine blue, C.I. 52040, for microscopy



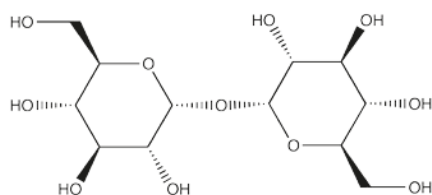
- Synonyms: Basic blue 17, Toluidine blue O
- C₁₆H₁₆ClN₃S
- M = 305,83 g/mol
- CAS [92-31-9]
- EINECS-No.: 202-146-2
- Solub. in water: (25 °C): 30 g/l
- Tariff number: 3204 13 00 90

- Applications: indicator (microscopy), manufacture of dyes.

Art. No.	Volume	Container
AZ02350005	5 g	0
AZ02350025	25 g	0
AZ02351000	1 kg	0

D-Trehalose

TR0030 D-Trehalose, for bacteriology



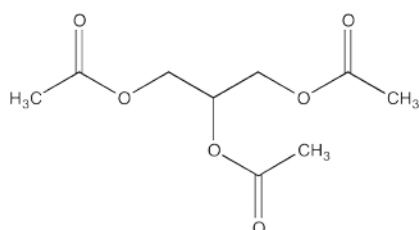
- Synonyms: Mycose, α-D-Glucopyranosyl-α-D-glucopyranoside
- C₁₂H₂₂O₁₁
- M = 342,30 g/mol
- CAS [99-20-7]
- EINECS-No.: 202-739-6
- Solub. in water: (20 °C): 100 g/l
- Melting point: 203 °C

- Tariff number: 2940 00 00 80
- Applications: in biochemistry, for microbiology.

Art. No.	Volume	Container
TR00300005	5 g	0

Triacetin

TR0080 Triacetin, 99%, extra pure



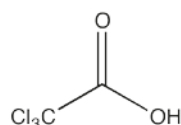
- Synonyms: Glycerol triacetate
- C₉H₁₄O₆
- M = 218,23 g/mol
- CAS [102-76-1]
- EINECS-No.: 203-051-9
- Density: 1,16 g/cm³
- Solub. in water: (20 °C): 64 g/l
- Melting point: 4 °C
- Boiling point: 258 °C
- Flash pt. 138 °C
- Ignition temp.: 433 °C
- Vapour pressure: (20 °C) < 0,1 hPa

- LD 50 (oral, rat): 3000 mg/kg
- Tariff number: 2915 39 30 00
- Applications: in biochemistry, solvents, perfumery, photography, cosmetics.

assay (acidimetric, on dried sample) 97 - 100,5 %

Art. No.	Volume	Container
TR00801000	1 l	0

Trichloroacetic acid



- Synonyms: TCA
- CCl₃COOH
- M = 163,39 g/mol
- CAS [76-03-9]
- EINECS-No.: 200-927-2
- Solub. in water: (20 °C): soluble
- Melting point: 54 - 58 °C
- Boiling point: 197 °C
- Vapour pressure: (20 °C) 1 hPa
- LD 50 (oral, rat): 3320 mg/kg
- EC-Index-No.: 607-004-00-7

- ADR: 8 C4 II UN 1839
- IMDG: 8 II UN 1839
- IATA/ICAO: 8 II UN 1839
- GHS-signal word: Danger
- GHS-H sentences: H314 - H410
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 40 00 90
- Applications: analytical chemistry, laboratory reagent, herbicide, precipitant for: proteins, fixative in microscopy.

AC3130 Trichloroacetic acid, extra pure, Pharmpur®, Ph Eur, BP



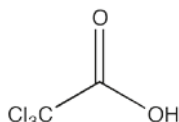
assay (acidimetric) 98 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
AC31300250	250 g	0	AC3130005P	5 kg	0
AC31301000	1 kg	0			

AC3132 Trichloroacetic acid, reagent grade, ACS

assay (acidimetric) min. 99,5 %

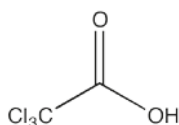
Art. No.	Volume	Container	Art. No.	Volume	Container
AC31320100	100 g	⊖	AC3132005P	5 kg	⊖
AC31320250	250 g	⊖	AC3132025P	25 kg	⊖
AC31321000	1 kg	⊖			

Trichloroacetic acid, solution 20%
AC3134 Trichloroacetic acid, solution 20% w/v, extra pure


- Synonyms: TCA
- CCl₃COOH
- M = 163,39 g/mol
- CAS [76-03-9]
- EINECS-No.: 200-927-2
- Density: 1,10 g/cm³
- EC-Index-No.: 607-004-00-7
- ADR: 8 C3 II UN 2564
- IMDG: 8 II UN 2564
- IATA/ICAO: 8 II UN 2564
- GHS-signal word: Danger

- GHS-H sentences: H314 - H335 - H411
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2915 40 00 90
- Applications: analytical chemistry, laboratory reagent, herbicide, precipitant for: proteins, fixative in microscopy.

Art. No.	Volume	Container
AC31341000	1 l	⊖

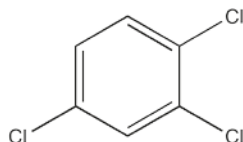
Trichloroacetic acid, solution 3%
AC3133 Trichloroacetic acid, solution 3% w/v, extra pure


- Synonyms: TCA
- CCl₃COOH
- M = 163,39 g/mol
- CAS [76-03-9]
- EINECS-No.: 200-927-2
- Density: 1,012 g/cm³
- EC-Index-No.: 607-004-00-7
- ADR: 8 C3 III UN 2564
- IMDG: 8 III UN 2564
- IATA/ICAO: 8 III UN 2564
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H335 - H411

- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2915 40 00 90
- Applications: analytical chemistry, laboratory reagent, herbicide, precipitant for: proteins.

assay (acidimetric) approx. 3 %

Art. No.	Volume	Container
AC31331000	1 l	⊖

1,2,4-Trichlorobenzene


- C₆H₃Cl₃
- M = 181,45 g/mol
- CAS [120-82-1]
- EINECS-No.: 204-428-0
- Density: 1,45 g/cm³
- Solub. in water: (20 °C): 0,049 g/l
- Melting point: 17 °C
- Boiling point: 213,5 °C
- Flash pt. 99 °C
- Ignition temp.: 571 °C
- Vapour pressure: (20 °C) 1,3 hPa
- LD 50 (oral, rat): 756 mg/kg

- ADR: 6.1 T1 III UN 2321
- IMDG: 6.1 III UN 2321
- IATA/ICAO: 6.1 III UN 2321
- GHS-signal word: Warning
- GHS-H sentences: H410 - H302 - H315
- GHS-P sentences: P280 - P273 - P321 - P362 - P301 + P312 - P501a
- Tariff number: 2903 99 99 90
- Applications: analytical chemistry, chromatography, synthesis of organic products.
- Appearance: Colourless liquid

TR0119 1,2,4-Trichlorobenzene, reagent grade

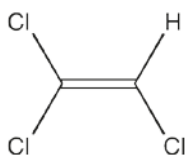
assay (G.C.) min. 99 %

Art. No.	Volume	Container
TR01191000	1 l	⊖

TR0120 1,2,4-Trichlorobenzene, HPLC grade

 assay (G.C.) min. 99 %
 water (K.F.) max. 0,01 %
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength:
 315 nm. 50 % 0,301 AU
 320 nm. 80 % 0,097 AU
 385 nm. 98 % 0,009 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
TR01201000	1 l	⊖
TR01202500	2,5 l	⊖

Trichloroethene


- Synonyms: Ethinyl trichloride, Trichloroethylene, Ethylene trichloride
- C₂HCl₃
- M = 131,79 g/mol
- CAS [79-01-6]
- EINECS-No.: 201-167-4
- Density: 1,46 g/cm³
- Solub. in water: (20 °C): almost non-miscible
- Melting point: -86 °C
- Boiling point: 87 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20 °C) 77 hPa
- Dielectric const.: (16 °C) 3,4
- LD 50 (oral, rat): 4920 mg/kg

- EC-Index-No.: 602-027-00-9
- ADR: 6.1 T1 III UN 1710
- IMDG: 6.1 III UN 1710
- IATA/ICAO: 6.1 III UN 1710
- GHS-signal word: Danger
- GHS-H sentences: H350 - H341 - H315 - H319 - H336 - H412
- GHS-P sentences: P261 - P280 - P305 + P351 + P338 - P321 - P405 - P501a
- Tariff number: 2903 22 00 00
- Applications: analytical chemistry, solvents, chromatography, synthesis of organic products, in the textile industry.

TR0149 Trichloroethene, synthesis grade, stabilized with ethanol


assay (G.C.) min. 98,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TR0149005P	5 l	☐	TR0149025A	25 l	☐

TR0150 Trichloroethene, extra pure, stabilized with ethanol

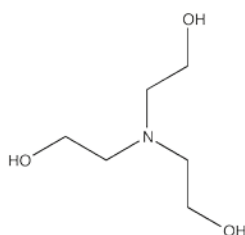
 assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TR01501000	1 l	☐	TR0150005P	5 l	☐
TR01502500	2,5 l	☐	TR0150025A	25 l	☐

TR0151 Trichloroethene, reagent grade, ACS, stabilized with ethanol

 assay (G.C.) min. 99,5 %
 residue on evaporation max. 0,0005 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TR01511000	1 l	☐	TR01512500	2,5 l	☐

Triethanolamine


- Synonyms: Tris (2-hydroxyethyl)amine, 2,2',2"-Trihydroxytriethylamine, TEA
- C₆H₁₅NO₃
- M = 149,19 g/mol
- CAS [102-71-6]
- EINECS-No.: 203-049-8
- Density: 1,12 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 21,2 °C
- Boiling point: (hPa) 208 °C

- Flash pt. 190 °C
- Ignition temp.: 325 °C
- Vapour pressure: (20 °C) 0,01 hPa
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2922 13 10 00
- Applications: corrosion inhibitor, cosmetics, emulsifier, in the textile industry, herbicide, manufacturing of synthetic resins, in building materials, manufacture of dyes, in lubricant compositions, in the pharmaceuticals industry, in pharma industry.

TR0200 Triethanolamine, synthesis grade

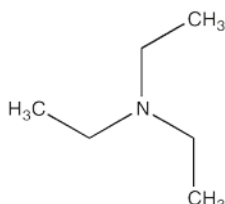
assay (acidimetric) min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TR02001000	1 l	☐	TR02002500	2,5 l	☐

TR0202 Triethanolamine, extra pure, Pharpur®, Ph Eur, NF

 assay (acidimetric, on dried sample) 99 - 103 %
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
TR02021000	1 l	☐	TR0202025P	25 l	☐

Triethylamine


- Synonyms: N,N-Diethylethanamine
- C₆H₁₅N
- M = 101,19 g/mol
- CAS [121-44-8]
- EINECS-No.: 204-469-4
- Density: 0,73 g/cm³
- Solub. in water: (20 °C): 133 g/l
- Melting point: -115 °C
- Boiling point: 90 °C
- Flash pt. -11 °C
- Ignition temp.: 215 °C
- Vapour pressure: (20 °C) 69 hPa
- LD 50 (oral, rat): 460 mg/kg

- EC-Index-No.: 612-004-00-5
- ADR: 3 FC II UN 1296
- IMDG: 3 II UN 1296
- IATA/ICAO: 3 II UN 1296
- GHS-signal word: Danger
- GHS-H sentences: H225 - H314 - H302 - H312 - H332
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2921 19 99 90
- Applications: analytical chemistry, laboratory reagent, synthesis of organic products, in the preparation of quaternary ammonium compounds.

TR0215 Triethylamine, synthesis grade


assay (G.C.) min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TR02151000	1 l	☐	TR0215005P	5 l	☐
TR02152500	2,5 l	☐			

TR0216 Triethylamine, reagent grade, Reag. Ph Eur


assay (G.C.) min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TR02160250	250 ml	☐	TR02162500	2,5 l	☐
TR02161000	1 l	☐			

TR0218 Triethylamine, HPLC grade

 assay (acidimetric) min. 99,7 %
 residue on evaporation max. 0,001 %
 water (K.F.) max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
TR02181000	1 l	☐	TR02182500	2,5 l	☐

TR0217 Triethylamine, eluent additive for LC-MS

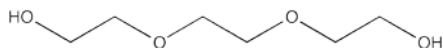
 assay (G.C.) min. 99,7 %
 suitability for use in LC-MS passes test

Art. No.	Volume	Container
TR02170050	50 ml	☐

 A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

Triethylene glycol

TR0240 Triethylene glycol, extra pure



- Synonyms: Triglycol
- $C_6H_{14}O_4$
- $M = 150,18 \text{ g/mol}$
- CAS [112-27-6]
- EINECS-No.: 203-953-2
- Density: $1,12 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: -7 °C
- Boiling point: $286 - 288 \text{ °C}$
- Flash pt. 165 °C
- Ignition temp.: 370 °C
- Vapour pressure: (20 °C) $0,01 \text{ hPa}$

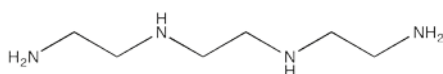
- Refraction index: (n 20 °C/D) $1,4559$
- Dielectric const.: (20 °C) 24
- LD 50 (oral, rat): 17000 mg/kg
- Tariff number: $2909 49 19 90$
- Applications: synthesis of organic products, laboratory reagent, in the plastics industry, disinfectant (air).

assay (G.C.)min. 99 %

Art. No.	Volume	Container
TR02401000	1 l	0

Triethylenetetramine

TR0260 Triethylenetetramine, synthesis grade



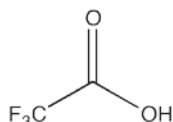
- Synonyms: N,N'-Bis(2-aminoethyl)-1,2-ethanediamine
- $C_6H_{18}N_4$
- $M = 146,24 \text{ g/mol}$
- CAS [112-24-3]
- EINECS-No.: 203-950-6
- Density: $0,98 \text{ g/cm}^3$
- Solub. in water: (20 °C): miscible
- Melting point: 12 °C
- Boiling point: (13 hPa) $144 - 147 \text{ °C}$
- Flash pt. 129 °C
- Ignition temp.: 335 °C
- Vapour pressure: (20 °C) $< 0,01 \text{ hPa}$
- Refraction index: (n 20 °C/D) $1,4971$
- LD 50 (oral, rat): 2500 mg/kg
- EC-Index-No.: 612-059-00-5
- ADR: 8 C7 II UN 2259

- IMDG: 8 II UN 2259
- IATA/ICAO: 8 II UN 2259
- GHS-signal word: Danger
- GHS-H sentences: H314 - H312 - H317 - H412
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: $2921 29 00 90$
- Applications: synthesis of organic products, manufacturing of synthetic resins, in lubricant compositions, analytical chemistry, for the detection of: copper and nickel.

assay (G.C.)min. 60 %

Art. No.	Volume	Container
TR02600250	250 ml	0

Trifluoroacetic acid



- Synonyms: Perfluoroacetic acid, TFA
- CF_3COOH
- $M = 114,02 \text{ g/mol}$
- CAS [76-05-1]
- EINECS-No.: 200-929-3
- Density: $1,48 \text{ g/cm}^3$
- Solub. in water: (20 °C): freely miscible
- Melting point: -15 °C
- Boiling point: 72 °C
- Vapour pressure: (20 °C) 11 hPa
- Dielectric const.: (25 °C) $42,1$

- EC-Index-No.: 607-091-00-1
- ADR: 8 C3 I UN 2699
- IMDG: 8 I UN 2699
- IATA/ICAO: 8 I UN 2699
- GHS-signal word: Danger
- GHS-H sentences: H314 - H332 - H412
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: $2915 90 70 90$
- Applications: analytical chemistry, for nuclear magnetic resonance spectroscopy.

AC3141 Trifluoroacetic acid, synthesis grade

assay (acidimetric)min. 99,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
AC31410100	100 ml	0	AC3141025A	25 l	0
AC31411000	1 l	0			

AC3143 Trifluoroacetic acid, buffer substance, HPLC grade

assay (acidimetric)min. 99,5 %

max. absorbance in a 1,0 cm cell at

wavelength: absorbance:

260 nm..... 0,9 AU

270 nm..... 0,1 AU

280 nm..... 0,05 AU

290 nm..... 0,04 AU

300 nm..... 0,03 AU

320 nm..... 0,025 AU

Art. No.	Volume	Container
AC31430100	100 ml	0

AC3144 Trifluoroacetic acid, eluent additive for LC-MS

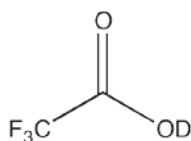
assay (acidimetric)min. 99 %

suitability for use in LC-MSpasses test

Art. No.	Volume	Container
AC31440050	50 ml	0

AC3142 Trifluoroacetic acid, peptide synthesis grade

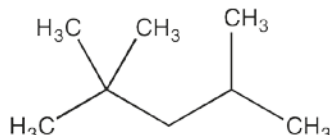
Art. No.	Volume	Container	Art. No.	Volume	Container
AC31420100	100 ml	0	AC31421000	1 l	0

Trifluoroacetic acid-d
AC3140 Trifluoroacetic acid-d, deuteration degree min. 99,5%, NMR spectroscopy grade, Spectrosol®


- CF₃COOD
- M = 115,03 g/mol
- CAS [599-00-8]
- EINECS-No.: 209-961-2
- Density: 1,50 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: -15 °C
- Boiling point: 71 °C
- Vapour pressure: (20 °C) 11 hPa
- ADR: 8 C3 I UN 2699
- IMDG: 8 I UN 2699
- IATA/ICAO: 8 I UN 2699

- GHS-signal word: Danger
- GHS-H sentences: H314 - H332
- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2845 90 10 00
- Applications: for protein synthesizing, synthesis of organic products.

Art. No.	Volume	Container
AC3140.750	x10x0,75ml	♻️

2,2,4-Trimethylpentane


- Synonyms: Isooctane, Isobutyltrimethylmethane, iso-Octane
- C₈H₁₈
- M = 114,26 g/mol
- CAS [540-84-1]
- EINECS-No.: 208-759-1
- Density: 0,69 g/cm³
- Solub. in water: (25 °C): 0,56 mg/l
- Melting point: -107 °C
- Boiling point: 99 °C
- Flash pt. -12 °C
- Ignition temp.: 410 °C
- Vapour pressure: (20 °C) 51 hPa
- Dielectric const.: (20 °C) 1,9

- LD 50 (oral, rat): > 2000 mg/kg
- EC-Index-No.: 601-009-00-8
- ADR: 3 F1 II UN 1262
- IMDG: 3 II UN 1262
- IATA/ICAO: 3 II UN 1262
- GHS-signal word: Danger
- GHS-H sentences: H225 - H304 - H410 - H315 - H336
- GHS-P sentences: P210 - P241 - P301 + P310 - P303 + P361 + P353 - P405 - P501a
- Tariff number: 2901 10 00 00
- Applications: analytical chemistry, solvent for fat and oil extractions; in determining octane numbers of fuels.

IS0153 2,2,4-Trimethylpentane, extra pure


assay (G.C.)min. 99 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
IS01531000	1 l	♻️	IS0153005P	5 l	♻️
IS01532500	2,5 l	♻️	IS0153025A	25 l	♻️

IS0154 2,2,4-Trimethylpentane, reagent grade, ACS, Reag. Ph Eur


assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
IS01541000	1 l	♻️	IS01542500	2,5 l	♻️

IS0156 2,2,4-Trimethylpentane, HPLC grade


assay (G.C.)min. 99,5 %
residue on evaporationmax. 0,0002 %
water (K.F.)max. 0,01 %
min. transmission/max. absorbance in a 1,0 cm cell at

wavelength:	T(%)	A (AU)
210 nm	50 %	0,301 AU
220 nm	80 %	0,097 AU
245 nm	98 %	0,009 AU

Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
IS01561000	1 l	♻️
IS01562500	2,5 l	♻️

IS0157 2,2,4-Trimethylpentane, for GC residue analysis


assay (G.C.)min. 99,8 %

Suitable for organohalogenated pesticide and dioxins, furans and PCBs residue analysis. Suitable for highly volatile halogenated hydrocarbons trace analysis. Suitable for pesticide and polycyclic aromatic hydrocarbons residue analysis.

Art. No.	Volume	Container
IS01571000	1 l	♻️
IS01572500	2,5 l	♻️

IS0161 2,2,4-Trimethylpentane, 99,5%, anhydrous (max. 0,003% H₂O)


assay (G.C.)min. 99,5 %
water (K.F.)max. 0,003 %

Art. No.	Volume	Container	Art. No.	Volume	Container
IS01610100	100 ml	♻️	IS01611000	1 l	♻️

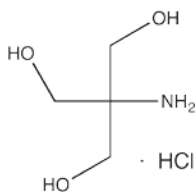
IS0160 2,2,4-Trimethylpentane, ASTM


assay (G.C.)min. 99,75 %

Art. No.	Volume	Container	Art. No.	Volume	Container
IS0160025A	25 l	♻️	IS0160200L	200 l	♻️

TRIS-HCl

TR0425 Tris-HCl, molecular biology grade

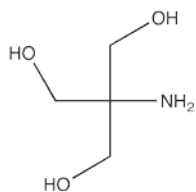


- Synonyms: Tris(hydroxymethyl)aminomethane hydrochloride
- $C_4H_{11}NO_3 \cdot HCl$
- $M = 157,60 \text{ g/mol}$
- CAS [1185-53-1]
- EINECS-No.: 214-684-5
- Solub. in water: (20 °C): freely soluble
- Melting point: 150 °C
- LD 50 (oral, rat): 5900 mg/kg (free substance)
- Tariff number: 2922 19 80 90
- Applications: analytical chemistry, for biology, in buffer solutions.

assay (argentometric, on dried sample)min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
TR04250100	100 g	⊕
TR04251000	1 kg	⊕
TR0425005P	5 kg	⊕

Tris-(hydroxymethyl)-aminomethane



- Synonyms: 2-Amino-2-(hydroxymethyl)-1,3-propanediol, Tromethamine, THAM, TRIS buffer
- $C_4H_{11}NO_3$
- $M = 121,14 \text{ g/mol}$
- CAS [77-86-1]
- EINECS-No.: 201-064-4
- Solub. in water: (20 °C): 800 g/l
- Melting point: 172 - 173 °C
- Boiling point: (13,3 hPa) 219 - 220 °C
- LD 50 (oral, rat): 5900 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H315 - H319
- GHS-P sentences: P280 - P305 + P351 + P338 - P321 - P362 - P332 + P313 - P337 + P313
- Tariff number: 2922 19 85 90
- Applications: analytical chemistry, in buffer solutions, in biochemistry, laboratory reagent, in the pharmaceuticals industry, emulsifier (cosmetics), for the synthesis of: tensoactives.

TR0422 Tris-(hydroxymethyl)-aminomethane, extra pure, Pharmpur®, Ph Eur, BP

assay (acidimetric, on dried sample) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
TR04220250	250 g	⊕
TR04221000	1 kg	⊕

Art. No.	Volume	Container
TR0422005P	5 kg	⊕
TR0422025P	25 kg	⊕

TR0423 Tris-(hydroxymethyl)-aminomethane, buffer substance, reagent grade, ACS, Reag. Ph Eur

assay (acidimetric, on dried sample)99,8 - 100,1 %

Art. No.	Volume	Container
TR04230100	100 g	⊕
TR04230250	250 g	⊕
TR04230500	500 g	⊕

Art. No.	Volume	Container
TR04231000	1 kg	⊕
TR0423005P	5 kg	⊕

TR0427 Tris-(hydroxymethyl)-aminomethane, secondary standard for volumetric titrations, Titrasure®

assay (on dried sample)99,8 - 100,1 %

Art. No.	Volume	Container
TR04270080	80 g	⊕

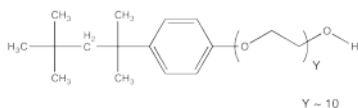
TR0424 Tris-(hydroxymethyl)-aminomethane, molecular biology grade

assay (acidimetric, on dried sample)min. 99 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
TR04240100	100 g	⊕
TR04240500	500 g	⊕

Art. No.	Volume	Container
TR04241000	1 kg	⊕
TR0424005P	5 kg	⊕

Triton® X-100



C34H62O11

- Synonyms: Octylphenol decaethylene glycol ether, Polyethylene glycol mono [p-(1,1,3,3-tetramethylbutyl) phenyl] ether, Deca (ethylene glycol) monoethylphenyl ether, Octoxynol
- $C_{34}H_{62}O_x$ (x ~ 11)
- $M = 646,37 \text{ g/mol}$
- CAS [9002-93-1]
- Density: 1,07 g/cm³
- Solub. in water: (20 °C): miscible
- Melting point: 6 °C
- Boiling point: 270 °C
- Flash pt. 251 °C

- Vapour pressure: (20 °C) < 0,01 hPa
- LD 50 (oral, rat): 707 mg/kg
- GHS-signal word: Danger
- GHS-H sentences: H318 - H302
- GHS-P sentences: P280 - P264 - P305 + P351 + P338 - P310 - P301 + P312 - P501a
- Tariff number: 3402 13 00 90
- Applications: analytical chemistry, chromatography, tensioactive substances, detergent, emulsifier, for cellular membranes solubilisation.
- Appearance: Colourless to yellowish

TR0444 Triton® X-100, extra pure

assay (iodometric)min. 98 %

Art. No.	Volume	Container
TR04441000	1 l	⊕

Art. No.	Volume	Container
TR0444005P	5 l	⊕

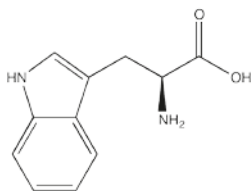
TR0447 Triton® X-100, molecular biology grade

assay (iodometric)min. 98 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container
TR04470050	50 ml	⊕

L-Tryptophan

TR0400 L-Tryptophan, extra pure, Pharmapur®, Ph Eur, BP, USP

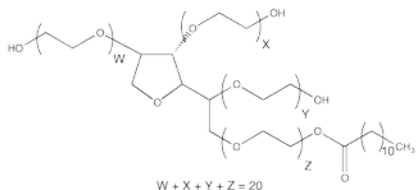


- Synonyms: (S)- α -Amino-1H-indole-3-propanoic acid
- $C_{11}H_{12}N_2O_2$
- M = 204,23 g/mol
- CAS [73-22-3]
- EINECS-No.: 200-795-6
- Solub. in water: (20 °C): 10 g/l
- Melting point: 290 °C (decomposes)
- LD 50 (oral, rat): 16000 mg/kg
- Tariff number: 2933 99 80 90
- Applications: in biochemistry, for pharmaceuticals synthesizing, for determination of proteins, in pharma industry.

assay (titr. with $HClO_4$, referred to dried sample) 98,5 - 101,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
TR0400025	25 g	0
TR04000100	100 g	0

Tween® 20



- Synonyms: Polysorbate
- $C_{58}H_{114}O_{26}$
- M = 1227,72 g/mol
- CAS [9005-64-5]
- EINECS-No.: 500-018-3
- Density: 1,11 g/cm³
- Solub. in water: (25 °C): 100 g/l
- Boiling point: > 100 °C

- Flash pt. > 150 °C
- Vapour pressure: (20 °C) < 1,4 hPa
- LD 50 (oral, rat): 38900 mg/kg
- Tariff number: 3402 13 00 90
- Applications: laboratory reagent, synthesis of organic products, in food industry (E 432), emulsifier, stabilizer.

TW0020 Tween® 20, synthesis grade

Art. No.	Volume	Container	Art. No.	Volume	Container
TW00200250	250 ml	0	TW0020005P	5 l	0
TW00201000	1 l	0	TW0020025P	25 l	0

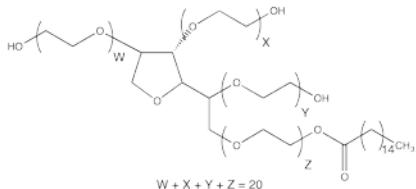
TW0022 Tween® 20, molecular biology grade

DNases, RNases, Proteases non detected

Art. No.	Volume	Container
TW00220100	100 ml	0

Tween® 40

TW0040 Tween® 40, extra pure



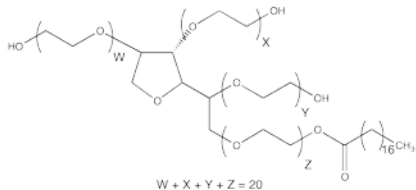
- Synonyms: Polysorbate
- $C_{60}H_{120}O_{26}$
- CAS [9005-66-7]
- Density: 1,09 g/cm³
- Solub. in water: (20 °C): miscible
- LD 50 (oral, rat): 38000 mg/kg
- Tariff number: 3402 13 00 90

- Applications: synthesis of organic products, emulsifier, in pesticide compositions.

Art. No.	Volume	Container
TW00400250	250 ml	0
TW00401000	1 l	0

Tween® 60

TW0060 Tween® 60, synthesis grade



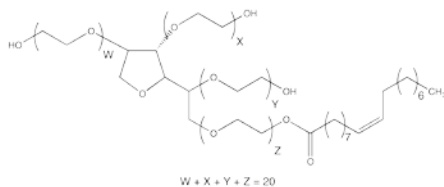
- Synonyms: Polysorbate
- $C_{64}H_{126}O_{26}$
- CAS [9005-67-8]
- EINECS-No.: 500-020-4
- Density: 1,08 g/cm³
- Solub. in water: (25 °C): miscible
- Boiling point: > 100 °C
- Flash pt. > 149 °C
- Vapour pressure: (20 °C) 38000 mg/kg

- Tariff number: 3402 13 00 90
- Applications: laboratory reagent, synthesis of organic products, cosmetics, emulsifier, in pesticide compositions.
- Appearance: Viscous liquid

Art. No.	Volume	Container
TW00600250	250 ml	0
TW00601000	1 l	0

Tween® 80

TW0080 Tween® 80, synthesis grade



- Synonyms: Polysorbate
- $C_{64}H_{126}O_{26}$
- CAS [9005-65-6]
- EINECS-No.: 500-019-9
- Density: (25 °C) 1,07 g/cm³
- Solub. in water: (25 °C): miscible
- Boiling point: > 100 °C
- Flash pt. > 149 °C
- Ignition temp.: > 180 °C
- Vapour pressure: (20 °C) 38000 mg/kg

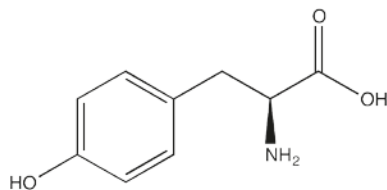
- Tariff number: 3402 13 00 90
- Applications: synthesis of organic products, for pharmaceuticals synthesizing, cosmetics, emulsifier (in food industry), in pesticide compositions.

Art. No.	Volume	Container
TW00800100	100 ml	0
TW00800250	250 ml	0
TW00801000	1 l	0

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L-Tyrosine

TI0325 L-Tyrosine, extra pure, Pharmpur®, Ph Eur, BP, USP



- Synonyms: 3-(4-Hydroxyphenyl)-L-alanine
- $C_9H_9NO_3$
- M = 181,19 g/mol
- CAS [60-18-4]
- EINECS-No.: 200-460-4
- Solub. in water: (20 °C): 0,38 g/l
- Melting point: 297 - 298 °C (decomposes)
- LD 50 (oral, rat): > 5110 mg/kg
- Tariff number: 2922 50 00 90
- Applications: in biochemistry, synthesis of organic products, for pharmaceuticals synthesizing, for determination of proteins, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
TI03250100	100 g	0



Pharmpur® GMP

Excellence in Solid Excipients for Pharmaceutical Production



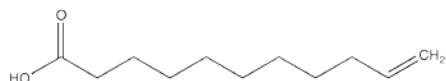
Tailor-made solutions:
If you can't find the product or packaging you need, please contact us!

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10-Undecylenic acid

AC3195 Undecylenic acid, extra pure, Pharpur®, Ph Eur, BP, USP 



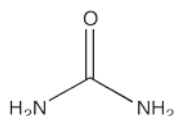
- Synonyms: 10-Undecenoic acid
- $C_{11}H_{20}O_2$
- M = 184,28 g/mol
- CAS [112-38-9]
- EINECS-No.: 203-965-8
- Density: 0,91 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: 24 °C
- Boiling point: 275 °C
- Flash pt. 146 °C
- LD 50 (oral, rat): 2500 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H315 - H319 - H412

- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P501a
- Tariff number: 2916 19 10 00
- Applications: laboratory reagent, synthesis of organic products, in pharma industry.

assay (acidimetric) 97 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC31950250	250 ml	0

Urea



- Synonyms: Carbamide, Carbonyldiamide
- CH_4N_2O
- M = 60,06 g/mol
- CAS [57-13-6]
- EINECS-No.: 200-315-5
- Solub. in water: (20 °C): 590 g/l
- Melting point: 132,5 - 134,5 °C
- Vapour pressure: (75 °C) ~ 0,002 hPa

- LD 50 (oral, rat): 8471 mg/kg
- Tariff number: 3102 10 10 00
- Applications: laboratory reagent, in biochemistry, in fertilizer compositions, manufacturing of synthetic resins, in the plastics industry, for reversible denaturation of proteins.

UR0130 Urea, synthesis grade

assay (DSC)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
UR01300500	500 g	0	UR01301000	1 kg	0

UR0131 Urea, reagent grade, ACS

assay (titration with $HClO_4$) 99 - 100,5 %

Art. No.	Volume	Container	Art. No.	Volume	Container
UR01310500	500 g	0	UR0131005P	5 kg	0
UR01311000	1 kg	0			

UR0133 Urea, molecular biology grade

assay (DSC) min. 99,5 %
DNases, RNases, Proteases non detected

Art. No.	Volume	Container	Art. No.	Volume	Container
UR01330100	100 g	0	UR01332500	2,5 kg	0
UR01330500	500 g	0	UR0133005P	5 kg	0

ExtraBond® QuEChERS

Extraction and dispersive kits according to the European (EN 15662) and American (AOAC 2007.01) methods, as well as Scharlau's variant of the European method, EN-A



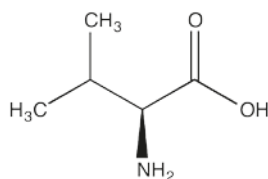
The wise choice



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L-Valine

VA0055 L-Valine, extra pure, Pharpur®, Ph Eur, BP, USP



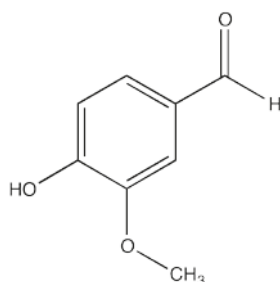
- Synonyms: 2-Aminoisovaleric acid, (S)-2-Amino-3-methylbutanoic acid
- $C_5H_{11}NO_2$
- $M = 117,15 \text{ g/mol}$
- CAS [72-18-4]
- EINECS-No.: 200-773-6
- Solub. in water: (20 °C): 85 g/l
- Melting point: ~ 315 °C
- Tariff number: 2922 49 95 90
- Applications: in biochemistry, synthesis of organic products, for pharmaceuticals synthesizing, in pharma industry.

assay (titration with $HClO_4$, on dried sample) 98,5 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
VA00550025	25 g	0
VA00550100	100 g	0

Vanillin

VA0025 Vanillin, extra pure



- Synonyms: 4-Hydroxy-3-methoxybenzaldehyde
- $C_8H_8O_3$
- $M = 152,15 \text{ g/mol}$
- CAS [121-33-5]
- EINECS-No.: 204-465-2
- Solub. in water: (25 °C): 10 g/l
- Melting point: ~ 82 °C
- Boiling point: (13 hPa) ~ 154 °C
- Flash pt. 153 °C
- Ignition temp.: > 400 °C
- Vapour pressure: (65 °C) 0,17 hPa
- LD 50 (oral, rat): 3978 mg/kg
- GHS-signal word: Warning
- GHS-H sentences: H302

- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2912 41 00 00
- Applications: synthesis of organic products, in food industry, in the pharmaceuticals industry, cosmetics, perfumery.

assay (acidimetric, on dried sample) 99 - 101 %

Art. No.	Volume	Container
VA00250100	100 g	0
VA00250250	250 g	0
VA00251000	1 kg	0

Vaseline

VA0150 Vaseline, white, synthesis grade

- CAS [8009-03-8]
- EINECS-No.: 295-456-2
- Solub. in water: (20 °C): insoluble
- Melting point: 40 - 60 °C
- Flash pt. 243 °C
- Refraction index: (n 60 °C/D) 1,460 - 1,474
- Tariff number: 2712 10 90 00

- Applications: analytical chemistry, cosmetics, in the pharmaceuticals industry.

Art. No.	Volume	Container
VA01500250	250 g	0
VA01501000	1 kg	0
VA0150005P	5 kg	0
VA0150025P	25 kg	0

Vaseline oil

AC0030 Vaseline oil, extra pure, Pharpur®, Ph Eur, BP, USP

- Synonyms: Paraffin liquid, White Oil
- CAS [8012-95-1]
- EINECS-No.: 232-384-2
- Density: 0,86 - 0,87 g/cm³
- Solub. in water: (20 °C): non-miscible
- Melting point: ~ -12 °C
- Flash pt. > 240 °C
- Refraction index: 1,4742
- LD 50 (oral, rat): > 5000 mg/kg

- GHS-signal word: Tariff number: 2710 00 89
- Tariff number: 2710 19 85 00
- Applications: in lubricant compositions, cosmetics, protective agent, laxative, for heating baths, in pharma industry.
- Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
AC00301000	1 l	0
AC00302500	2,5 l	0
AC0030005P	5 l	0
AC0030025P	25 l	0

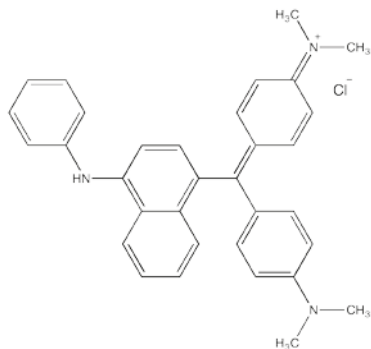
Vermiculite

VE0200 Vermiculite

- Synonyms: Hydrated magnesium-aluminum-iron silicate
- CAS [1318-00-9]
- Melting point: ~1300 °C

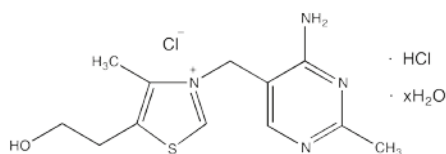
- Tariff number: 2842 10 00 00
- Applications: absorbent for: liquids; in building materials, in the ceramics industry, catalyst.

Art. No.	Volume	Container
VE0200025P	25 l	0
VE0200005P	5 l	0

Victoria blue B, C.I. 44045
AZ0345 Victoria blue B, C.I. 44045, for microscopy


- Synonyms: Basic blue 26
- $C_{33}H_{32}ClN_3$
- M = 506,09 g/mol
- CAS [2580-56-5]
- EINECS-No.: 219-943-6
- Melting point: 206 °C
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 3204 13 00 90
- Applications: laboratory reagent, indicator, microscopy.

Art. No.	Volume	Container
AZ03450010	10 g	0
AZ03450025	25 g	0

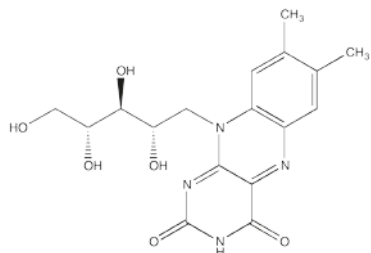
Vitamin B1 hydrochloride
VI0150 Vitamin B1 hydrochloride, Pharmpur®, Ph Eur, BP, USP


- Synonyms: Thiamine hydrochloride, Aneurine hydrochloride
- $C_{12}H_{17}ClN_4OS \cdot HCl \cdot xH_2O$
- M = 337,27 g/mol
- CAS [67-03-8]
- EINECS-No.: 200-641-8
- Solub. in water: (20 °C): soluble
- Melting point: ~ 248 °C
- LD 50 (oral, rat): 3710 mg/kg
- Tariff number: 2936 22 00 00

- Applications: in the pharmaceuticals industry, vitamin, in food industry, in pharma industry.

assay (titr. with $HClO_4$, referred on dried sample). 98,5 - 102,0 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

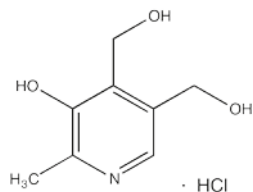
Art. No.	Volume	Container
VI01500025	25 g	0

Vitamin B2
VI0160 Vitamin B2, extra pure, Pharmpur®, Ph Eur, USP


- Synonyms: Lactoflavine, Riboflavine
- $C_{17}H_{20}N_4O_6$
- M = 376,37 g/mol
- CAS [83-88-5]
- EINECS-No.: 201-507-1
- Solub. in water: (20 °C): 0,065 g/l
- Melting point: ~ 280 °C (decomposes)
- LD 50 (oral, rat): > 10000 mg/kg
- Tariff number: 2936 23 00 00
- Applications: in food industry (E 101), in the pharmaceuticals industry, vitamin B2, in pharma industry.

assay (spectrophotometric) 97 - 103 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
VI01600100	100 g	0

Vitamin B6 hydrochloride
VI0180 Vitamin B6 hydrochloride


- Synonyms: Adermine hydrochloride, Pyridoxine hydrochloride
- $C_8H_{11}NO_3 \cdot HCl$
- M = 205,64 g/mol
- CAS [58-56-0]
- EINECS-No.: 200-386-2
- Solub. in water: (20 °C): ~ 220 g/l
- Melting point: 202 - 206 °C
- LD 50 (oral, rat): 4000 mg/kg
- Tariff number: 2936 25 00 00

- Applications: in the pharmaceuticals industry, vitamin, in food industry.

assay (titr. with $HClO_4$, referred on dried sample). min. 99,5 %

Art. No.	Volume	Container
VI01800010	10 g	0

Consumables and reagents for pesticide residue analysis



QuEChERS kits · GC columns
HPLC columns · Syringes · Standards · Solvents for GC residue analysis

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Water

- H₂O
- M = 18,02 g/mol
- CAS [7732-18-5]
- EINECS-No.: 231-791-2
- Density: 1,00 g/cm³
- Melting point: 0 °C
- Boiling point: 100 °C
- Vapour pressure: (20 °C) 23 hPa
- Dielectric const.: (20 °C) 80,2
- Tariff number: 2853 00 10 00
- Applications: solvents, analytical chemistry.

AG0003 Water, deionized, extra pure

Art. No.	Volume	Container	Art. No.	Volume	Container
AG0003005P	5 l	Ⓟ	AG0003025P	25 l	Ⓟ
AG0003010C	10 l	Ⓟ	AG0003060P	60 l	Ⓟ

AG0002 Water, reagent grade

conductivity (25 °C) max. 1 µS/cm

Art. No.	Volume	Container	Art. No.	Volume	Container
AG00021000	1 l	Ⓟ	AG0002010C	10 l	Ⓟ
AG00022500	2,5 l	Ⓟ	AG0002025P	25 l	Ⓟ
AG0002005P	5 l	Ⓟ			

AG0001 Water, gradient HPLC grade

conductivity (25 °C) max. 1 µS/cm
 gradient elution: maximum absorption of the largest eluted peaks:
 at 210 nm. 0,01 AU
 at 254 nm. 0,001 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AG00011000	1 l	Ⓟ
AG00012500	2,5 l	Ⓟ
AG00014000	4 l	Ⓟ

AG0015 Water, UHPLC-MS

conductivity (25 °C) max. 1 µS/cm
 suitability for use in passes test
 UHPLC-MS passes test
 Microfiltered through membranes of pore diameter 0,1 µm

Art. No.	Volume	Container
AG00151000	1 l	Ⓟ
AG00152500	2,5 l	Ⓟ

AG0006 Water, LC-MS

conductivity (25 °C) max. 1 µS/cm
 suitability for use in LC-MS. passes test
 min. transmission/max. absorbance in a 1,0 cm cell at wavelength: T(%) A (AU)
 200 nm. 95 % 0,022 AU
 230 nm. 99 % 0,004 AU
 gradient grade (210 nm) maximum peak absorbance: max. 0,005 AU
 gradient grade (254 nm) maximum peak absorbance: max. 0,001 AU
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AG00061000	1 l	Ⓟ
AG00062500	2,5 l	Ⓟ

AG0014 Water, GC head space grade

conductivity (25 °C) max. 1 µS/cm
 Packed under inert gas
 Suitable for residual solvents analysis

Art. No.	Volume	Container
AG00141000	1 l	Ⓟ

AG0016 Water, ppt-trace analysis grade, Ultratrace®

Art. No.	Volume	Container
AG00161000	1 l	Ⓟ

Water with 0,1% acetic acid

AG0009 Water with 0,1% acetic acid, LC-MS

• Density: ~ 1,00 g/cm³
 • Solub. in water: (20 °C): miscible
 • Tariff number: 3822 00 00 00
 • Applications: analytical chemistry, chromatography.
 acetic acid content (v/v) 0,093 - 0,107 %
 suitability for use in LC-MS. passes test
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AG00091000	1 l	Ⓟ

Water with 0,1% ammonium acetate

AG0010 Water with 0,1% ammonium acetate, LC-MS

• Density: ~ 1,00 g/cm³
 • Solub. in water: (20 °C): miscible
 • Tariff number: 3822 00 00 00
 • Applications: analytical chemistry, chromatography.
 ammonium acetate content (w/v) 0,093 - 0,107 %
 suitability for use in LC-MS. passes test
 Microfiltered through membranes of pore diameter 0,22µm

Art. No.	Volume	Container
AG00101000	1 l	Ⓟ

Water with 0,1% formic acid

AG0008 Water with 0,1% formic acid, LC-MS

- Density: ~ 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, chromatography.

formic acid content (v/v) 0,093 - 0,107 %
 suitability for use in LC-MS passes test
 Microfiltered through membranes of pore diameter
 0,22µm

Art. No.	Volume	Container
AG00081000	1 l	0

Water with 0,1% trifluoroacetic acid

AG0007 Water with 0,1% trifluoroacetic acid, LC-MS

- Density: ~ 1,00 g/cm³
- Solub. in water: (20 °C): miscible
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, chromatography.

trifluoroacetic acid content (v/v) 0,093 - 0,107 %
 suitability for use in LC-MS passes test

Art. No.	Volume	Container
AG00071000	1 l	0

Wijs solution

RE0070 Wijs solution, ICI solution 0,1 mol/l (0,2 N)



- ICI
- Density: 1,06 g/cm³
- Solub. in water: (20 °C): miscible (decomposes)
- Flash pt. 40 °C
- LD 50 (oral, rat): 3310 mg/kg (chief component)
- ADR: 8 CF1 II UN 2920
- IMDG: 8 II UN 2920
- IATA/ICAO: 8 II UN 2920

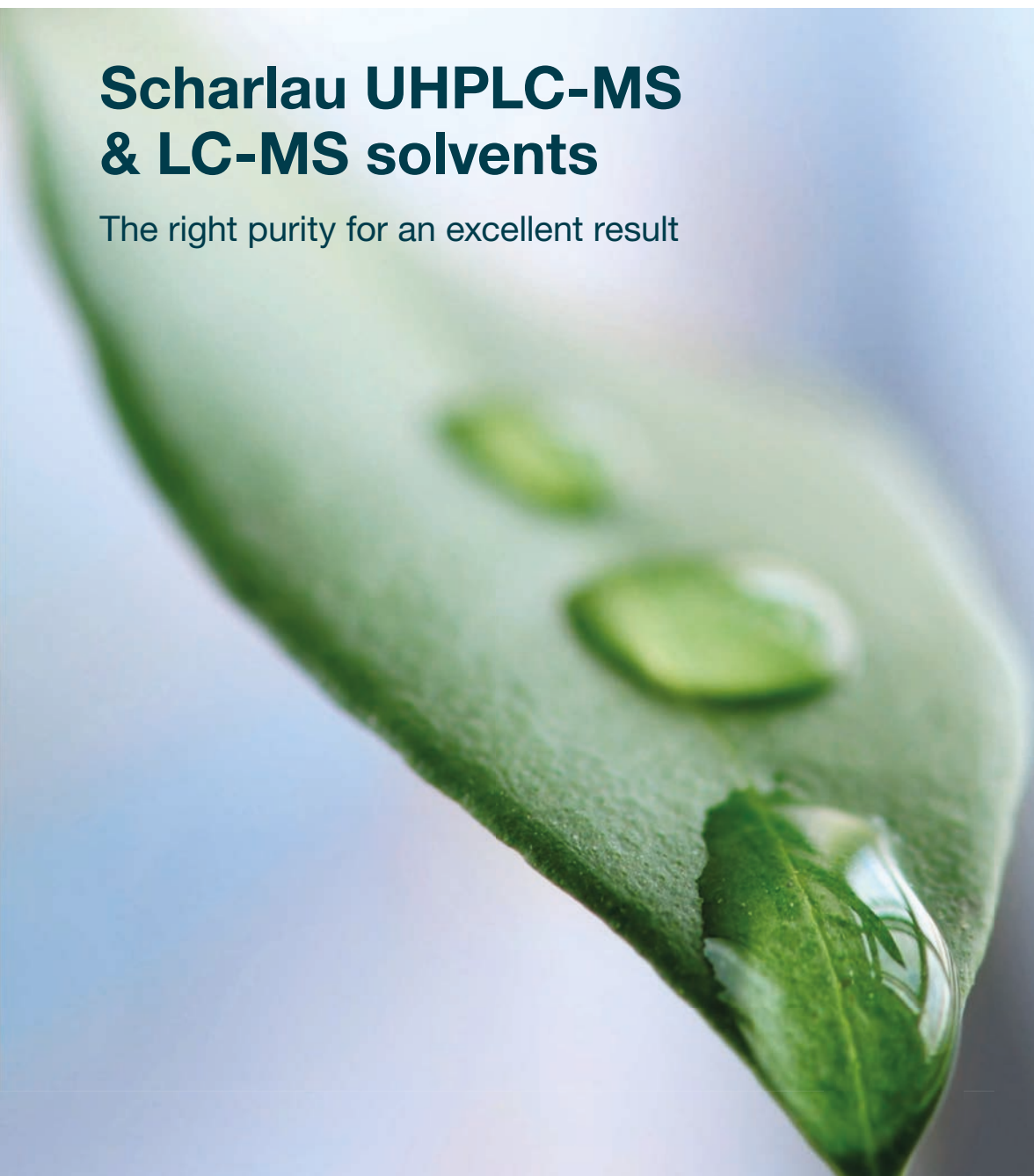
- GHS-signal word: Danger
- GHS-H sentences: H314 - H226
- GHS-P sentences: P210 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 3822 00 00 00
- Applications: analytical chemistry, for determination of iodine index.
- Appearance: Brown liquid

suitability for det. of iodine
 index passes test

Art. No.	Volume	Container
RE00700500	500 ml	0
RE00701000	1 l	0

Scharlau UHPLC-MS & LC-MS solvents

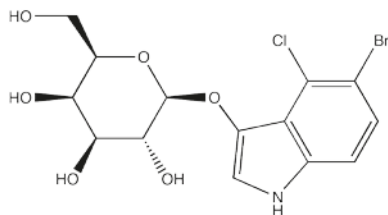
The right purity for an excellent result



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X-Gal

XG0010 X-Gal, for biochemical purposes



- Synonyms: 5-Bromo-4-chloro-3-indolyl-β-D-galactopyranoside
- $C_{14}H_{15}BrClNO_6$
- $M = 408,64 \text{ g/mol}$
- CAS [7240-90-6]
- EINECS-No.: 230-640-8
- Melting point: 230 °C
- GHS-signal word: Warning
- GHS-H sentences: H302 - H312 - H332

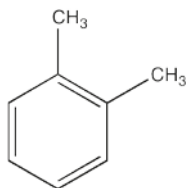
- GHS-P sentences: P261 - P280 - P322 - P301 + P312 - P304 + P340 - P501a
- Tariff number: 2940 00 00 80
- Applications: in biochemistry.

assay (HPLC)min. 99 %

Art. No.	Volume	Container
XG0010.100	100 mg	∅

o-Xylene

XI0025 o-Xylene, extra pure, Reag. Ph Eur



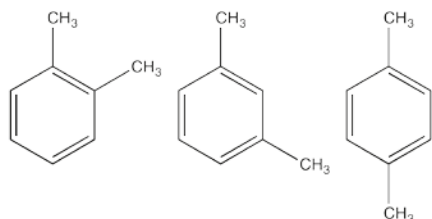
- Synonyms: 1,2-Dimethylbenzene
- C_8H_{10}
- $M = 106,17 \text{ g/mol}$
- CAS [95-47-6]
- EINECS-No.: 202-422-2
- Density: 0,88 g/cm³
- Solub. in water: (20 °C): 0,18 g/l
- Melting point: -25 °C
- Boiling point: 144,4 °C
- Flash pt. 30 °C
- Ignition temp.: 465 °C
- Vapour pressure: (20 °C) 6,7 hPa
- Dielectric const.: (30 °C) 2,5
- LD 50 (oral, rat): 3609 mg/kg
- EC-Index-No.: 601-022-00-9 [1]
- ADR: 3 F1 III UN 1307

- IMDG: 3 III UN 1307
- IATA/ICAO: 3 III UN 1307
- GHS-signal word: Warning
- GHS-H sentences: H226 - H312 - H332 - H315
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P321 - P501a
- Tariff number: 2902 41 00 00
- Applications: synthesis of organic products, solvents, manufacture of dyes.

assay (G.C.)min. 99 %

Art. No.	Volume	Container
XI00251000	1 l	∅
XI00252500	2,5 l	∅

Xylene, mixture of isomers



- Synonyms: Dimethylbenzene, Xylol
- C_8H_{10}
- $M = 106,17 \text{ g/mol}$
- CAS [1330-20-7]
- EINECS-No.: 215-535-7
- Density: 0,86 g/cm³
- Solub. in water: (20 °C): 0,2 g/l
- Melting point: > -34 °C
- Boiling point: 137 - 143 °C
- Flash pt. 25 °C
- Ignition temp.: ~ 465 °C
- Vapour pressure: (20 °C) 10 hPa
- Dielectric const.: (25 °C) 2,4

- LD 50 (oral, rat): 2840 mg/kg
- EC-Index-No.: 601-022-00-9 [4]
- ADR: 3 F1 III UN 1307
- IMDG: 3 III UN 1307
- IATA/ICAO: 3 III UN 1307
- GHS-signal word: Warning
- GHS-H sentences: H226 - H312 - H332 - H315
- GHS-P sentences: P210 - P241 - P261 - P303 + P361 + P353 - P321 - P501a
- Tariff number: 2902 44 00 00
- Applications: synthesis of organic products, solvents, manufacture of dyes.

XI0050 Xylene, mixture of isomers, synthesis grade

total isomer content (G.C.)min. 99 %

Art. No.	Volume	Container	Art. No.	Volume	Container
XI00501000	1 l	∅	XI0050005P	5 l	∅
XI00502500	2,5 l	∅	XI0050025P	25 l	∅

XI0051 Xylene, mixture of isomers, extra pure

total isomer content (G.C.)min. 98 %
residue on evaporationmax. 0,001 %
water (K.F.)max. 0,05 %

Art. No.	Volume	Container	Art. No.	Volume	Container
XI00511000	1 l	∅	XI0051005L	5 l	∅
XI00512500	2,5 l	∅	XI0051025A	25 l	∅

XI0055 Xylene, mixture of isomers, reagent grade, ACS, Reag. Ph Eur

total content of C₈H₁₀ isomers (G.C.)min. 99 %
residue on evaporationmax. 0,0005 %
water (K.F.)max. 0,02 %

Art. No.	Volume	Container	Art. No.	Volume	Container
XI00551000	1 l	∅	XI0055025A	25 l	∅
XI00552500	2,5 l	∅	XI0055200L	200 l	∅
XI0055005L	5 l	∅			

XI0059 Xylene, mixture of isomers, Multisolvant® ACS

total content of C₈H₁₀ isomers (G.C.)min. 99 %
residue on evaporationmax. 0,0003 %
water (K.F.)max. 0,01 %

Art. No.	Volume	Container	Art. No.	Volume	Container
XI00591000	1 l	∅	XI00592500	2,5 l	∅

XI0052 Xylene, mixture of isomers, for histology

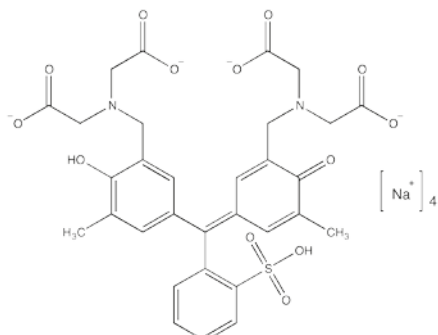


total content of C₈H₁₀ isomers (G.C.)min. 99 %
benzene (G.C.)max. 0,1 %

Art. No.	Volume	Container	Art. No.	Volume	Container
XI00521000	1 l	0	XI0052005L	5 l	8
XI00522500	2,5 l	0			

Xylenol orange, tetrasodium salt

AN0090 Xylenol orange, tetrasodium salt, indicator for metal titration, ACS

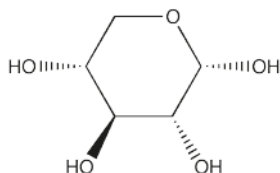


- Synonyms: 3',3''-Bis[bis(carboxymethyl)-aminoethyl] cresol sulfone phtrane sodium salt
- C₃₁H₂₈N₂Na₄O₁₃S
- M = 760,60 g/mol
- CAS [3618-43-7]
- EINECS-No.: 222-805-8
- Solub. in water: (20 °C): ~ 510 g/l
- Tariff number: 2934 99 90 90
- Applications: analytical chemistry, indicator, for metals titration.

Art. No.	Volume	Container
AN00900001	1 g	0
AN00900005	5 g	0

D(+)-Xylose

XI0080 D(+)-Xylose, extra pure, Pharpur®, Ph Eur, BP



- Synonyms: Wood sugar
- C₅H₁₀O₅
- M = 150,13 g/mol
- CAS [58-86-6]
- EINECS-No.: 200-400-7
- Solub. in water: (20 °C): freely soluble
- Melting point: 154 °C
- Tariff number: 2940 00 00 20
- Applications: cosmetics, manufacture of dyes, in food industry, in pharma industry.

assaymin. 99 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
XI00800100	100 g	0
XI00800250	250 g	0
XI00801000	1 kg	0

Multisolvent®

One solution... so many applications!



- Optimise your costs and stocks
- Simplify your purchase
- Guaranteed your results
- It avoids errors in your laboratory
- Increases the safety in your laboratory

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Zinc

CI0145 Zinc, powder, extra pure

- Zn
- M = 65,38 g/mol
- CAS [7440-66-6]
- EINECS-No.: 231-175-3
- Solub. in water: (20 °C): hydrolysis reaction
- Melting point: 420 °C
- Boiling point: 908 °C
- Ignition temp.: 460 °C
- Vapour pressure: (487 °C) 1,33 hPa
- EC-Index-No.: 030-001-00-1
- ADR: 4.3 WS III UN 1436

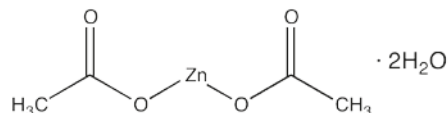
- IMDG: 4.3 III UN 1436
- IATA/ICAO: 4.3 III UN 1436
- GHS-signal word: Danger
- GHS-H sentences: H250 - H260 - H410
- GHS-P sentences: P210 - P222 - P231 + P232 - P280 - P422a - P501a
- Tariff number: 7903 90 00 00
- Applications: analytical chemistry, laboratory reagent, electrical conductor, in galvanotechnia (corrosion inhibitor), electrolyte for batteries, metal alloys, reducing agent.

- Appearance: Grey powder

assay (complexometric)min. 97 %

Art. No.	Volume	Container
CI01450500	500 g	⊘
CI01451000	1 kg	⊘
CI0145005P	5 kg	⊘

Zinc acetate dihydrate



- Synonyms: Acetic acid zinc salt dihydrate
- $Zn(CH_3COO)_2 \cdot 2H_2O$
- M = 219,49 g/mol
- CAS [5970-45-6]
- EINECS-No.: 209-170-2
- Solub. in water: (20 °C): 430 g/l
- Melting point: ~ 100 °C
- LD 50 (oral, rat): 794 mg/kg

- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P301 + P312 - P330 - P501a
- Tariff number: 2915 29 00 90
- Applications: analytical chemistry, laboratory reagent, for the detection of: urobilin.

CI0150 Zinc acetate dihydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (complexometric)99 - 101 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CI01500500	500 g	⊘	CI0150005P	5 kg	⊘
CI01501000	1 kg	⊘	CI0150025P	25 kg	⊘

CI0151 Zinc acetate dihydrate, reagent grade, ACS, Reag. Ph Eur

assay (complexometric)99 - 101 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CI01510500	500 g	⊘	CI0151005P	5 kg	⊘
CI01511000	1 kg	⊘	CI0151025P	25 kg	⊘

Zinc chloride

- $ZnCl_2$
- M = 136,28 g/mol
- CAS [7646-85-7]
- EINECS-No.: 231-592-0
- Solub. in water: (20 °C): soluble
- Melting point: 318 °C
- Boiling point: 730 °C

- LD 50 (oral, rat): 350 mg/kg
- EC-Index-No.: 030-003-00-2
- ADR: 8 C2 III UN 2331
- IMDG: 8 III UN 2331
- IATA/ICAO: 8 III UN 2331
- GHS-signal word: Danger
- GHS-H sentences: H314 - H410 - H302

- GHS-P sentences: P260 - P303 + P361 + P353 - P305 + P351 + P338 - P310 - P405 - P501a
- Tariff number: 2827 39 85 90
- Applications: analytical chemistry, laboratory reagent, catalyst, synthesis of organic products.
- Appearance: White crystalline powder

CI0159 Zinc chloride, synthesis grade

assay (complexometric)min. 97 %

Art. No.	Volume	Container
CI01592500	2,5 kg	⊘

CI0160 Zinc chloride, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (complexometric)97 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CI01600500	500 g	⊘	CI0160005P	5 kg	⊘
CI01601000	1 kg	⊘	CI0160025P	25 kg	⊘

CI0162 Zinc chloride, reagent grade, ACS, ISO, Reag. Ph Eur

assay (complexometric)min. 98 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CI01620250	250 g	⊘	CI01621000	1 kg	⊘

CI0155 Zinc chloride, molecular biology grade

assay (complexometric)min. 98 %
DNases, RNases, Proteasespasses test

Art. No.	Volume	Container
CI01550050	50 g	⊘

Zinc nitrate hexahydrate

CI0185 Zinc nitrate hexahydrate, reagent grade

- Synonyms: Nitric acid zinc salt hexahydrate
- $Zn(NO_3)_2 \cdot 6H_2O$
- M = 297,51 g/mol
- CAS [10196-18-6]
- EINECS-No.: 231-943-8
- Solub. in water: (20 °C): soluble
- Melting point: ~ 36 °C
- LD 50 (oral, rat): 1190 mg/kg
- ADR: 5.1 O2 II UN 1514
- IMDG: 5.1 II UN 1514
- IATA/ICAO: 5.1 II UN 1514
- GHS-signal word: Danger
- GHS-H sentences: H272
- GHS-P sentences: P221 - P210 - P220 - P280 - P370 + P378a - P501a
- Tariff number: 2834 29 80 00
- Applications: analytical chemistry, laboratory reagent, oxidizing agent, catalyst, mordant/corrosive.

Art. No.	Volume	Container
CI01850500	500 g	D
CI01851000	1 kg	D
CI0185005P	5 kg	P
CI0185025P	25 kg	P

assay (complexometric) 98,5 - 102 %

Zinc oxide

- ZnO
- M = 81,37 g/mol
- CAS [1314-13-2]
- EINECS-No.: 215-222-5
- Solub. in water: (20 °C): insoluble
- Melting point: ~ 1970 °C
- LD 50 (oral, rat): > 5000 mg/kg
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H410
- GHS-P sentences: P273 - P391 - P501a
- Tariff number: 2817 00 00 00
- Applications: analytical chemistry, laboratory reagent, reference material, in the pharmaceuticals industry, in food industry, cosmetics.

CI0195 Zinc oxide, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (on ignited sample) 99 - 100,5 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CI01951000	1 kg	D	CI0195005P	5 kg	P

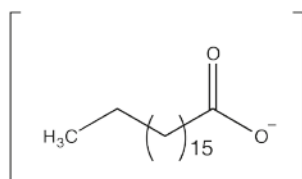
CI0200 Zinc oxide, reagent grade, ACS, Reag. Ph Eur

assay (complexometric) min. 99,0 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CI02000500	500 g	D	CI0200005P	5 kg	P
CI02001000	1 kg	D			

Zinc stearate

CI0180 Zinc stearate, extra pure, Pharmpur®, Ph Eur, BP, USP



Zn²⁺

2

- Synonyms: Stearic acid zinc salt
- $C_{36}H_{70}O_2Zn$
- M = 632,33 g/mol
- CAS [557-05-1]
- EINECS-No.: 209-151-9
- Solub. in water: (20 °C): insoluble
- Melting point: 120 - 122 °C
- Ignition temp.: 435 °C
- LD 50 (oral, rat): > 5000 mg/kg
- Tariff number: 2915 70 30 00
- Applications: for pharmaceuticals synthesizing, cosmetics, in lubricant compositions, antiseptic, in pharma industry.

assay (complexometric, as Zn) 10 - 12 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container
CI01800500	500 g	D
CI01801000	1 kg	P
CI0180005P	5 kg	P
CI0180020P	20 kg	P

Zinc sulfate heptahydrate

- Synonyms: Sulfuric acid zinc salt heptahydrate, Zinc vitriol
- $ZnSO_4 \cdot 7H_2O$
- M = 287,54 g/mol
- CAS [7446-20-0]
- EINECS-No.: 231-793-3
- Solub. in water: (20 °C): 960 g/l
- Melting point: ~ 40 °C (decomposes)
- LD 50 (oral, rat): 2150 mg/kg
- EC-Index-No.: 030-006-00-9
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H318 - H410 - H302
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P310 - P301 + P312 - P501a
- Tariff number: 2833 29 20 00
- Applications: analytical chemistry, laboratory reagent, in galvanotechnology, for deproteinating blood and urine.

CI0206 Zinc sulfate heptahydrate, extra pure, Pharmpur®, Ph Eur, BP, USP

assay (complexometric) 99 - 104 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CI02060500	500 g	D	CI0206005P	5 kg	P
CI02061000	1 kg	D	CI0206025P	25 kg	P

CI0208 Zinc sulfate heptahydrate, crystallized, Pharmpur®, Ph Eur, GMP, suitable for use as excipient,

assay (complexometric) 99 - 104 %
Residual solvents are analysed according to guideline CPMP/ICH/283/95.

Art. No.	Volume	Container	Art. No.	Volume	Container
CI02081000	1 kg	D	CI0208025P	25 kg	P

CI0207 Zinc sulfate heptahydrate, reagent grade, ACS, ISO, Reag. Ph Eur

assay (complexometric) 99,5 - 103,0 %

Art. No.	Volume	Container	Art. No.	Volume	Container
CI02070500	500 g	D	CI0207005P	5 kg	P
CI02071000	1 kg	D			

Zinc sulfate monohydrate

CI0205 Zinc sulfate monohydrate, synthesis grade



- Synonyms: Sulfuric acid zinc salt monohydrate
- $ZnSO_4 \cdot H_2O$
- M = 179,45 g/mol
- CAS [7446-19-7]
- EINECS-No.: 231-793-3
- Solub. in water: (20 °C): ~ 350 g/l
- Melting point: ~ 740 °C (anhydrous substance)
- LD 50 (oral, rat): 2150 mg/kg (heptahydrate substance)

- EC-Index-No.: 030-006-00-9
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Danger
- GHS-H sentences: H318 - H410 - H302
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P310 - P301 + P312 - P501a
- Tariff number: 2833 29 20 00

- Applications: synthesis of organic products, in the pharmaceuticals industry, analytical chemistry, laboratory reagent, in galvanotechnology.

assay (complexometric)min. 98 %

Art. No.	Volume	Container
CI02051000	1 kg	Ⓢ

Zinc sulfate, volumetric solutions

CI0231 Zinc sulfate, solution 0,1 mol/l



- $ZnSO_4 \cdot 7H_2O$
- M = 287,54 g/mol
- CAS [7446-20-0]
- EINECS-No.: 231-793-3
- Density: 1,01 g/cm³
- EC-Index-No.: 030-006-00-9

- GHS-signal word: Warning
- GHS-H sentences: H319 - H412
- GHS-P sentences: P280 - P273 - P264 - P305 + P351 + P338 - P337 + P313 - P501a
- Tariff number: 2833 29 20 00

- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
CI02311000	1 l	Ⓢ

CI0230 Zinc sulfate, solution 0,05 mol/l

- $ZnSO_4 \cdot 7H_2O$
- M = 287,54 g/mol
- CAS [7446-20-0]
- EINECS-No.: 231-793-3
- Density: 1,00 g/cm³
- EC-Index-No.: 030-006-00-9

- GHS-H sentences: H412
- GHS-P sentences: P273 - P501a
- Tariff number: 2833 29 20 00
- Applications: analytical chemistry, laboratory reagent, titrant in volumetric analysis.

Art. No.	Volume	Container
CI02301000	1 l	Ⓢ

Ready-to-use broth & diluents in Flexibags



Suitable presentation
for gravimetric dilutors



- Safe packaging
- Avoid time consuming preparation

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CULTURE MEDIA FOR MICROBIOLOGY

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INTRODUCTION

Scharlab offers its culture media for microbiology in two different forms: dehydrated and prepared. Additionally, the portfolio also includes additives and supplements, reagents, dyes and also biochemical confirmative tests.

The quality of our media



Our portfolio includes more than 400 different formulated media that are manufactured in accordance with our existing Quality Standards and Quality Management practices according to ISO 9001:2000. In addition, our culture media complies with validated methods, international standards and microbiological guidelines including ISO, European Pharmacopoeia, USP and FDA.

Such quality control practices and certification enable us to offer culture media for a wide range of microbiological applications and parameters in the clinical and the industrial sector (Pharmaceutical companies, Food and Beverage, Cosmetics, Contract laboratories, Water testing laboratories).

Certificate of analysis



We have a complete certificate of analysis for every batch which includes physico-chemical data and fertility test with appropriate strains according to different standards and norms.

Technical Data Sheets

They are available from our website www.scharlab.com in pdf format. To make sure the latest information is always available, all the data in this format come from our central data base and is updated automatically, as soon as any changes are made.

Dehydrated culture media



Our dehydrated culture media is formulated using a selection of high quality raw material that is only sourced from validated suppliers. This guarantees reproducible and excellent final product with high performance rates.

The certificate of analysis and the certificate of guarantee of absence of the causative agent of bovine spongiform encephalopathy (BSE) in the raw materials of animal origin are available from our website.

Dehydrated culture media is offered in a variety of sizes to suit customer requirements: preweighed sachets (2,5l), 500g bottle and drums of 5 and 25 kg. We are able to manufacture many more formulations than those mentioned in this catalogue. Please ask for availability of any medium that is not in this catalogue.

Shelf life

The normal shelf life of dehydrated media is 4 years from the date of manufacture. Stability studies have allowed us to increase shelf life of several media to 5 years. There are some exceptions, that due to their formula, have a shorter shelf life.

Dehydrated media in preweighed sachets



Dehydrated media in sachets are an ideal solution for media used in smaller quantities. The expense of buying a larger 500 g bottle is not incurred.

Spoilage of unused medium that may occur when opening a large bottle is also avoided. There is little wastage as the customer is more likely to use 100% of what has been paid for. Valuable time used to weigh the powder can be saved as well as any errors associated with this process.

Visit our new web www.scharlab.com

Dehydrated media in 500g: our Pac-o-Vac® packaging



Our 500 g presentation includes the additional outer bag, called Pac-o-Vac®, made from air-tight transparent plastic material and packed under vacuum.

Our Pac-o-Vac® offers protection of the product against moisture, dust particles and microorganisms and prevents the alteration of the physical and organoleptic properties of the product. This ensures that our products do not alter their properties during prolonged storage, even in unfavourable climate conditions.

Additives and selective supplements



Freeze-dried supplements

Supplements in freeze dried form. Sterilised solvent can be offered apart, in order to enable the user to start with the dissolution of the supplement immediately, saving him from the tedious work of measuring and sterilising the solvent. Supplied in a box with 10 vials of supplement. Storage conditions are usually between 2-25°C and in darkness.

Shelf life

The lifetime of the product ranges between 3 and 4 years depending on the product.

Prepared culture media

90mm Petri dishes



Manufactured in a clean room under laminar flow class ISO 5 (Class 100). The standard presentation is in units of 10 wrapped plates up to a total of 20 plates per box. Also available irradiated and with double and triple packaging.

Shelf life: 3 months*.

*Irradiated plates have 4 month shelf life and some media also present shorter shelf life.

55mm filtration plates



Plates with solid medium, commonly used in the study of water and liquid pollution by the membrane filtration technique. Manufactured in clean room under laminar flow class ISO 5 (Class 100). These plates come in our new RD-pack of 10 plates each. Each box comes packed with 3 RD-pack making a total of 30 plates.

Shelf life: 4 months.

Contact plates



Plates for control tests on surfaces. Manufactured in a clean room under laminar flow class ISO 5 (Class 100). These plates come either in a blister pack of 6 plates each (in this way each plate can be individually compartmentalized) or in the new RD-pack of 10 plates each. Each box with blisters contains a total of 30 plates. Each box of RD-pack contains a total of 80 plates. Double or triple packaging is possible.

Shelf life: 4-6 months (all plates in this presentation are irradiated as long as the nature of the media allows so).

Agars in flasks



Agars in flasks to be re-melted with no loss of functional capacity. They come with a metallic cap suitable for microwave re-melting. Available in volumes of 100ml and 200ml in boxes of 10 units. Removable label for easy data transfer.

Shelf life: 12 months.

For further information, please contact scharlab@scharlab.com

Broths in flasks



Ready-to-use liquid media commonly used for pre-enrichment purposes. The media destined for the control of sterility carry a cap with septum. Available in volumes of 90, 100, 200 and 225ml in boxes of 10 units. Transparent label for better observation of the results.

Shelf life: 12 months.

Agar in tubes



Tubes with agar to be re-melted without loss of functional capacity. The content of each tube is enough to fill a Petri dish of 90mm, which makes this product suitable for mass inoculation. They come with a metallic cap suitable for microwave re-melting. Each vial contains 15ml and is available in boxes of 20 units.

Shelf life: 12 months.

Also available in boxes of 20 tubes: double concentrated media, slanted agar media, etc.

Broths in tubes



Tubes which contain liquid media and have a metallic cap with a special seal that guarantees the sterility and stability of the product. Our filling system guarantees a minimal deviation of the amount to be filled, which is very important to obtain accurate and reproducible results when working with the MPN (Most Probable Number) technique or in routine dilutions. Available in volumes of 20, 5, 10 and 19ml in boxes of 20 units.

Shelf life: 12 months.

Broths and diluents in bags (FlexiBags)



This is a packaging designed for laboratories in microbiological food control with a large number of samples. Its most outstanding advantages are:

- Product is ready for use
- Cost efficient
- Safe
- Generates less waste

Dosage: The desired volume of sterile medium is dispensed by means of commercially available gravimetric dilutors.

Connection: By means of a reusable stainless steel needle which is connected aseptically to the bag through a septum. Available in 3 sizes: 2 litres, 3 litres and 5 litres.

Shelf life: 12 months.

Storage of prepared media

90mm plates should be stored at a temperature range of 2-14°C (this means that refrigeration can be a storage option). Alternatively plates can also be stored at a range of 2-25°C, whilst still maintaining proper performance of the medium. However some precautions must be taken:















- In the range of 2-8°C, avoid direct contact with surfaces that can freeze product.
- In a range of 15-25°C, dehydration control must be monitored.

For other products we recommend storage at room temperature, with no need for refrigeration. Our products are manufactured following a production system that guarantees maximum quality and stability of the product throughout its shelf life. To ensure this a number of strict processes and controls are implemented:

- Rigorous control of sterilization temperatures.
- Precision weighing of the ingredients and of the media.
- Homogeneity of lots due to a strictly monitored manufacturing system.
- Excellent recovery of test organisms.
- Packaging specially designed to maintain optimal moisture conditions throughout the life of the product.
- Maintenance of the physical and chemical characteristics of the medium: pH, colour, moisture, etc., throughout its life.

Visit our new web www.scharlab.com

Symbols

5 sachets of dehydrated culture medium (to make up 500ml of prepared medium each)		20 tubes of 10ml / 9ml (broth)	
500g		20 tubes of 15ml / 10ml (agar)	
20 plates of 90mm		20 slanted agar tubes	
20 plates of 90mm, irradiated		2 L / 3 L / 5 L bag	
30 contact plates 24 contact plates (triple packaging)		Supplement LY01 (10 vials)	
30 filtration plates of 55mm (RD-pack) 80 contact plates (RD-pack)		5kg / 25kg drum	
10 flasks of 100ml / 200ml / 225ml (broth) 1 flask of 100ml and 1 litre (additive)			
10 flasks of 100ml / 200ml flasks (agar)			

Abbreviations

Abreviatura	Documento	Institución / Organización
<i>APHA</i>		American Public Health Association (Washington DC, USA)
<i>AOAC</i>	Official Methods of Analysis Of AOAC International	Association of Official Analytical Chemists
<i>ASM</i>		American Society for Microbiology (Washington DC, USA)
<i>ASTM</i>		American Society for Testing Materials
<i>AWWA</i>		American Water Works Association (Washington DC, USA)
<i>BAM</i>	Bacteriological Analytical Manual	Food and Drug Administration (Washington DC, USA)
<i>BP</i>	British Pharmacopoeia	British Pharmacopoeia Commission, The Stationery Office (London)
<i>CEN</i>		Centre Europeen pour la Normalisation (Brussels)
<i>CLSI</i>		Clinical Laboratory Standards Institute (Vilanova, PA, USA)
<i>CMPH</i>	Clinical Microbiology Procedures Handbook	American Society for Microbiology (ASM)
<i>COMPF</i>	Compendium of Methods for the microbiological examination of foods	APHA
<i>DIN</i>		Deutsche Institut für Normung (Berlin)
<i>EDQM</i>		European Directorate for the Quality of Medicines
<i>EN</i>	European Norme	Centre Europeen pour la Normalisation (Brussels)
<i>EP</i>	European Pharmacopoeia 5th Ed.	EDQM (Strasbourg)
<i>FDA</i>		Food and Drug Administration (Washington DC, USA)
<i>FIL</i>		Federation International Laitière (Brussels)
<i>IDF</i>		International Dairy Federation (Brussels)
<i>IFU</i>	IFU Microbiological Methods	International Federation of Fruit Juice Producers (Switzerland)
<i>HP</i>	Harmonised Pharmacopoeias (European, American and Japanese) European Pharmacopoeia 7th Ed.	EDQM (Strasbourg)
<i>ISO</i>		International Standardization Organization (Geneva, Switzerland)
<i>NCLSS</i>		National Committee for Clinical Laboratory Standards (Vilanova, PA, USA)
<i>NMKL</i>		Nordisk Methodenkomitee Fur Lebensmittel
<i>SL</i>	Schweizerisches Lebensmittelbuch (Swiss Food Manual)	Bundesamt für Gesundheit, Direktionsbereich Verbraucherschutz (Bern)
<i>SMD</i>	Standard Methods for the Examination of Dairy Products	APHA, (Washington DC, USA)
<i>SMWW</i>	Standard Methods for the Examination of Water and Wastewater	APHA, AWWA, WPC
<i>USP</i>	United States Pharmacopoeia - National Formulary USP 28	USP Convention Ltd. (Rockville MD, USA)
<i>WEF</i>		Water Environment Federation (Washington DC, USA)

For further information, please contact scharlab@scharlab.com

All you need to know about GHS

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

The GHS was born in the UN with the purpose of facilitating world-wide commerce whilst at the same time protecting human health and the environment, unifying the different criteria used for classification of dangerous substances that coexist in the world. Each country or economic community has its own legislation and the Art. No. of the same substance can be classified, harmful, not dangerous or toxic depending on the place of classification.

CLP: Classification Labelling and Packaging of Substances and Mixtures

The European Union has adopted the GHS by means of a new regulation (EC) No. 1272/2008, also called CLP, that came into force on the 20 of January 2009 in all the Member States, and the hope is that it will also be adopted in Norway, Iceland and Liechtenstein in the near future. The CLP will replace the present system of classification and labelling, defined by the directives 67/548/EEC (DSD) and 1999/45/EC (DPD) for substances and mixtures respectively. These directives will become invalid on the 1 of June 2015.

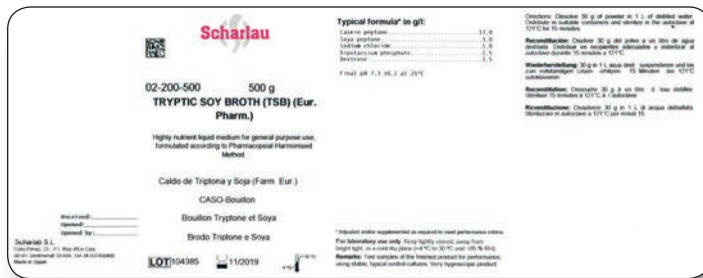
The implementation of the CLP is marked in the calendar by two important dates:
1 December 2010: Obligation to classify and to label substances according to the CLP.
1 June 2015: Obligation to classify and to label mixtures according to the CLP.

Scharlab labels

We have also designed labels that incorporate the pictograms and the hazardous or precautionary statements in accordance with CLP.

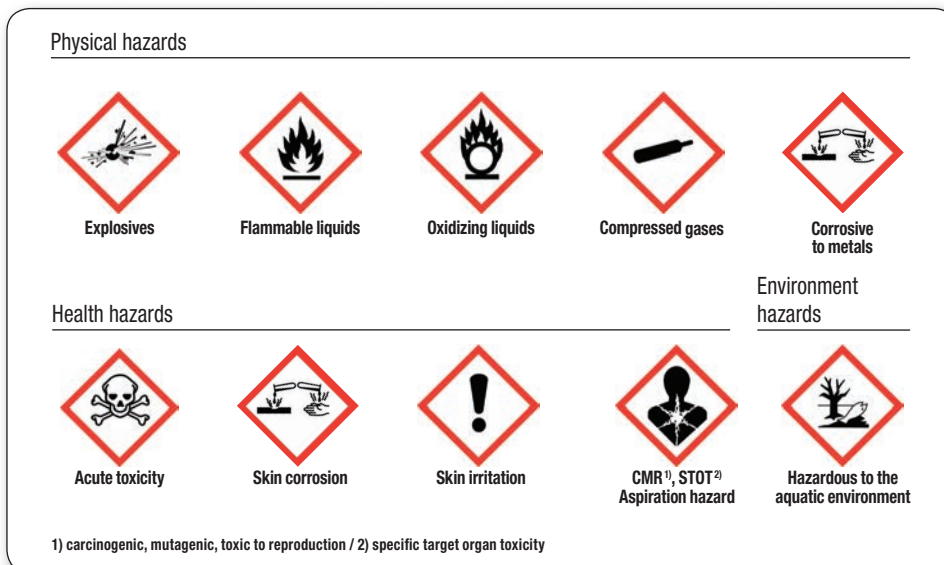
As a result of the application of CLP we have introduced several changes in elements of our labels:

- Pictograms. The traditional danger symbols with an orange background are replaced by new pictograms on a white background surrounded by a red frame.
- The hazard statements (H) replace the traditional risk phrases (R).
- The precautionary statements (P) replace the present safety phrases (S).
- Signal word. The text that accompanied the pictograms, e. g. "Easily Flammable" disappears. Nevertheless, a signal word appears. New statements H and P indicating the severity of potential hazards. This word can be "Danger" or "Warning".



CLP pictograms

NOTE: CLP pictograms refer to the dehydrated culture media presentation, additives and supplements.



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Dehydrated Culture Media



PAC-o-VAC® (vacuum outer bag)
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Special formulations
Also available in bulk (5 and 25kg)

SCHARLAU DEHYDRATED AND PREPARED CULTURE MEDIA
Acetamide Medium
03-428
DIN / EN / ISO

 Liquid medium for the confirmative test of *Pseudomonas aeruginosa* in water according to ISO 16266 and UNE-EN 12780 Standards.


Presentation	Type of packaging	Art. No.
500g		03-428-500

AK Agar (01-069)

→ See Sporulating Agar


Algae Agar
01-007
SMWW

Solid culture medium for the isolation and culture of algae from soil, water and waste water.

Presentation	Type of packaging	Art. No.
500g		01-007-500


Algae Broth
02-007
SMWW

Nutritive solution for algae and cyanobacteria, suitable for water algicide biological test.

Presentation	Type of packaging	Art. No.
500g		02-007-500



Alkaline Saline Peptone Water
02-697
ISO / COMPF / SMWW

 Liquid medium used for the pre-enrichment and selective enrichment of *Vibrio*, potentially enteropathogenic, in food samples, according to ISO/TS 21872-1 and 21872-2.

Presentation	Type of packaging	Art. No.
500g		02-697-500



Antibiotic Medium A pH 6,6
01-009
HP / EP / USP

Antibiotic medium at pH 6,6 used in the antibiotic assay by the agar diffusion method.

Presentation	Type of packaging	Art. No.
500g		01-009-500
5x500ml		01-009BA05


Antibiotic Medium A pH 7,9
01-017
HP / EP / USP

Antibiotic medium at pH 7,9 used in the antibiotic assay by the agar diffusion method.

Presentation	Type of packaging	Art. No.
500g		01-017-500
5x500ml		01-017BA05


Antibiotic Medium B
01-016
HP / EP / USP

Solid culture medium used in the microbiological assays of Colistimethate and Polymyxin by the agar diffusion method.

Presentation	Type of packaging	Art. No.
500g		01-016-500


Antibiotic Medium C
02-011
HP / EP / USP

Solid culture medium used in the inoculum preparation, serial dilutions or turbidimetric antibiotic assays.

Presentation	Type of packaging	Art. No.
500g		02-011-500


Antibiotic Medium E
01-430
HP / EP / USP

Solid culture medium used in the microbiological assays of Framycetin and Neomycin by the agar diffusion method.

Presentation	Type of packaging	Art. No.
500g		01-430-500


Antibiotic Medium F
01-434
HP / EP / USP

Solid culture medium used in the titration of antifungal antibiotics by the agar diffusion method.

Presentation	Type of packaging	Art. No.
500g		01-434-500



APT Agar
01-026
COMPF

Solid medium specially designed for the cultivation of the heterofermentative lactic acid bacteria that causes meat greening.

Presentation	Type of packaging	Art. No.
500g		01-026-500



Asparagine Broth
02-271

 Liquid medium for the assay and enumeration of presumptive *Pseudomonas aeruginosa* in bottled water by MPN method.

Presentation	Type of packaging	Art. No.
500g		02-271-500
5x500ml		02-271BA05



Azide Dextrose Broth according to Rothe
02-027
COMPF

Medium used for the detection and enumeration of enterococci in water.


Presentation	Type of packaging	Art. No.
500g		02-027-500
20 tubes of 10ml		064-TA0158

Bacillus cereus Agar (MYPA)
01-262
BAM / COMPF / IDF / ISO


 Selective solid medium, according to Mossel for the isolation and identification of *Bacillus cereus* in food samples according to ISO 7932 and 21871.

Presentation	Type of packaging	Art. No.
500g		01-262-500
20 plates of 90mm Ø		064-PA0032

Egg's Yolk Sterile Emulsion (additive)

100 ml flasks		06-016-100
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Polymyxin B Sulfate Selective Supplement




10 vials		06-021LY01
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Bacillus cereus Selective Agar (PEMBA)

01-487

ISO / NKML

Selective solid medium for the enumeration of *Bacillus cereus* in food, according to ISO 21871 and NMKL 674 Standards.







Presentation	Type of packaging	Art. No.
500g		01-487-500
Egg's Yolk Sterile Emulsion (additive)		
100 ml flasks		06-016-100
Polymyxin B Sulfate Selective Supplement		
10 vials		06-021LY01

Baird Parker Agar Base

01-030

BAM / EP / ISO / USP



Selective solid culture medium for the screening of staphylococci from a variety samples, according to ISO Standards.

Presentation	Type of packaging	Art. No.
500g		01-030-500
5x500ml		01-030BA05
20 plates of 90mm Ø		064-PA0008
30 contact plates, irradiated, double packaging		064-PR0008
10 flasks of 90 ml		064-BA1033
Egg's Yolk Tellurite Sterile Emulsion (additive)		
100 ml flasks		06-026-100



Baird Parker with RPF Agar (Rabbit Plasma Fibrinogen Agar)

ISO

Solid culture medium for the enumeration of coagulase positive staphylococci in food samples and in the control of food processes. According to ISO 6888-2 Standards.

Presentation	Type of packaging	Art. No.
20 plates of 90mm Ø		064-PA0145
Kit: 4 flasks of 90ml (Base medium) + 4 vials of 10ml (sup. RPF)		064-BA0RPF

Components can be bought separately:



Presentation	Type of packaging	Art. No.
(Base medium) 10 flasks of 90ml		064-BA1028
RPF Lyophilized Supplement x 10 tubes		064-TA0155

BAT Agar

01-675

IFU

Solid medium used for the detection and isolation of *Alicyclobacillus* in fruit juices and other acidic food, according to IFU Standard Method No.12.



Presentation	Type of packaging	Art. No.
500g		01-675-500
5x500ml		01-675BA05

BAT Broth

02-675

IFU

Liquid medium used for the enrichment of *Alicyclobacillus* from fruit juices and other acidic foods, according to IFU Standard Method No. 12.





Presentation	Type of packaging	Art. No.
500g		02-675-500
5x500ml		02-675BA05

BCYE Legionella Agar Base

01-687

ISO / SMWW






Solid medium for the detection, isolation and enumeration of *Legionella* from water according to ISO 11731 and 11731-2 Standards.

Presentation	Type of packaging	Art. No.
500g		01-687-500
5x500ml		01-687BA05
20 plates of 90mm Ø		064-PA0069
Legionella BCYE Growth Supplement		
5 vials+ 5 vials of solvent		06-137LY01

BCYE Legionella Selective Agar (GVPC)

ISO





Selective solid medium for the detection, isolation and enumeration of *Legionella* from water according to ISO Standards 11731 and 11731-2.

Presentation	Type of packaging	Art. No.
500g		01-687-500
5x500ml		01-687BA05
20 plates of 90mm Ø		064-PA0017
Legionella BCYE Growth Supplement		
5 vials + 5 vials of solvent		06-137LY01
Legionella GVPC Selective Supplement		
10 vials		06-138LY01

BCYE without Cysteine Legionella Agar

ISO






Solid medium for the control and identification of *Legionella* from water according to ISO Standards 11731 and 11731-2.

Presentation	Type of packaging	Art. No.
500g		01-687-500
5x500ml		01-687BA05
20 plates of 90mm Ø		064-PA6001
Legionella BCYE without Cysteine Supplement		
5 vials + 5 vials of solvent		06-134LY01

Beerens Cosmetic Diluent

02-257

Diluent used to neutralize preservative systems in routine examination of cosmetic products.




Presentation	Type of packaging	Art. No.
500g		02-257-500
5x500ml		02-257BA05
10 flasks of 100ml		064-BA1022
10 flasks of 90ml		064-BA2022
Polisorbate 80 (additive)		
100ml		TW00800100

BGA (Brilliant Green Agar)

01-203

EP / USP



Solid culture medium for the selective isolation of *Salmonella* according to European Pharmacopoeia

Presentation	Type of packaging	Art. No.
500g		01-203-500
5x500ml		01-203BA05
20 plates of 90mm Ø		064-PA0045

BGA Modified (Brilliant Green Modified Agar)

01-309
DIN / IDF / ISO

 Solid culture medium for selective isolation of salmonellae in food (except *S. typhi*) according to ISO and IDF Standards.

Presentation	Type of packaging	Art. No.
500g		01-309-500
5x500ml		01-309BA05




BGBL Broth (02-041)

→ See Brilliant Green Bile 2% Broth

BHI Agar (Brain Heart Infusion Agar)

01-599
COMPF / DIN / ISO / SMWW

General purpose solid medium for fastidious pathogenic microorganisms.





Presentation	Type of packaging	Art. No.
500g		01-599-500
5x500ml		01-599BA05
20 plates of 90mm Ø		064-PA0042

BHI Broth (Brain Heart Infusion Broth)

02-599
BAM / COMPF / ISO / SMWW

 C € 

Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens.

Presentation	Type of packaging	Art. No.
500g		02-599-500
5x500ml		02-599BA05
10 flasks of 100ml		064-BA6079
20 tubes of 10ml		064-TA0143





Biggy Agar (01-137)

→ See Nickerson Agar

Bile Esculin Azide Agar (BEA)

01-592
BAM / ISO




Solid medium for the enumeration and confirmation of enterococci in water by the membrane filtration method according to ISO 7899-2.

Presentation	Type of packaging	Art. No.
500g		01-592-500
5x500ml		01-592BA05
20 plates of 90mm Ø		064-PA3134
30 paltes of 55mm Ø		064-PF0008

Bile Esculin Modified Agar

01-265
BAM / COMPF / ISO

Solid culture medium used for the identification of probiotic streptococci in food samples.



Presentation	Type of packaging	Art. No.
500g		01-265-500
5x500ml		01-265BA05
20 slanted agar tubes		064-TA0102

Blood Agar Base

01-352

 C € 

Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens.


Presentation	Type of packaging	Art. No.
500g		01-352-500
5x500ml		01-352BA05

→ Needs addition of blood.

Blood Agar Base Modified

01-689

Culture medium specially developed to prepare blood plates.

Presentation	Type of packaging	Art. No.
500g		01-689-500




→ Needs addition of blood.

Blood Agar Base No. 2

01-505
BAM / COMPF / ISO

 C € 

Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens.

Presentation	Type of packaging	Art. No.
500g		01-505-500
5x500ml		01-505BA05
20 plates of 90mm Ø		064-PA9997




→ Needs addition of blood.

Blood Agar (Columbia)

01-034
ISO

 C € 

Nutrient rich medium suitable for the isolation of pathogenic microorganisms from clinical specimens.

Presentation	Type of packaging	Art. No.
500g		01-034-500
5x500ml		01-034BA05
20 plates of 90mm Ø		064-PA0004

→ Needs addition of blood.



Blood CNA Agar (01-703)

→ See Columbia CNA Agar

Bolton Enrichment Broth Base

02-688
BAM / ISO

 Liquid culture medium used for the enrichment of *Campylobacter* from food samples according to ISO Standard 10272-1.

Presentation	Type of packaging	Art. No.
500g		02-688-500
5x500ml		02-688BA05

Campylobacter Bolton Selective Supplement

10 vials		06-131LY01
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→ Needs addition of blood.

Brilliant Green Agar (BGA) (01-203)





→ See BGA

Brilliant Green Bile 2% Broth (BGBL Broth)

02-041

BAM / COMPF / ISO / SMWW

Liquid medium used for the detection of coliforms in water, as recommended by APHA and ISO 4831 Standards.

Presentation	Type of packaging	Art. No.
500g		02-041-500
5x500ml		02-041BA05
20 tubes of 10ml double concentration with Durham tubes		064-TA0179
20 tubes of 9ml with Durham tubes		064-TA0152

Brilliant Green Modified Agar (01-309)

→ See BGA Modified

Brolacin Agar (01-047)












→ See CLED Agar

Buffered Peptone Water, ISO (BPW)

02-277

ISO

Medium for dilution and non-selective pre-enrichment according to ISO 6579, 6785, 6887 and 8261 Standards.









Presentation	Type of packaging	Art. No.
500g		02-277-500
5x500ml		02-277BA05
10 flasks of 225ml in flasks of 500ml		064-BA6011
10 flasks of 225ml in flasks of 250ml		064-BA6012
10 flasks of 200ml		064-BA6000
10 flasks of 100ml		064-BA0486
10 flasks of 90ml		064-BA4010
20 tubes of 9ml		064-TA0100
2 bags of 5 litres		064-BA01-5
3 bags of 3 litres		064-BA01-3
5 bags of 2 litres		064-BA01-2

Buffered Peptone Water, HP (BPW)

02-494

HP / EP / ISO

Diluent for the homogenization of samples for the microbiological examination according to Harmonised Pharmacopoeia methods and ISO Standard.

Presentation	Type of packaging	Art. No.
500g		02-494-500
5x500ml		02-494BA05
10 flasks of 225ml		064-BA6063
10 flasks of 200ml		064-BA6062
10 flasks of 100ml		064-BA3021
10 flasks of 90ml		064-BA6064
20 tubes of 10ml		0TA2151-10
20 tubes of 9ml		064-TA2151

Campylobacter Blood-Free Selective Agar (01-685)

→ See CCD Modified Agar

Campylobacter Bolton Broth (02-688)

→ See Bolton Enrichment Broth

Campylobacter Preston Agar (01-451)

→ See Preston Campylobacter Agar

Campylobacter Preston Broth (02-561)



→ See Preston Campylobacter Broth

Cary-Blair Transport Medium

03-643

CMPH

Semi-solid non-nutritive medium used for transporting and preserving microbiological specimens, specially faecal and rectal samples.



Presentation	Type of packaging	Art. No.
500g		03-643-500
5x500ml		03-643BA05

Casein Lecithin Polysorbate Broth Base


02-539

USP

Liquid medium used to dilute and neutralize samples of pharmaceutical, cosmetics, raw materials or end products for the purpose to enumerate microorganisms.

Presentation	Type of packaging	Art. No.
500g		02-539-500
5x500ml		02-539BA05

Polysorbate 20 (Tween 20) (additive)



1 litre		TW00201000
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CCD Modified Agar (Charcoal Cefoperazone Deoxycholate)

01-685

BAM / ISO

Selective plating medium used for the detection and enumeration of *Campylobacter spp.* according to ISO 10272-1 Standard.

Presentation	Type of packaging	Art. No.
500g		01-685-500
20 plates of 90mm Ø		064-PA9997

Campylobacter CCDA Selective Supplement






10 vials		06-133LY01
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Cetrimide Agar (Pseudomonas Selective Agar Base)

01-160

HP / AOAC / EP / USP

Solid culture medium for selective isolation of *Pseudomonas aeruginosa* according to Harmonised Pharmacopoeia methods and ISO 22717 Standard.

Presentation	Type of packaging	Art. No.
500g		01-160-500
5x500ml		01-160BA05
20 plates of 90mm Ø		064-PA0050
30 contact plates, irradiated, double packaging		064-PR0009
10 flasks of 100ml		064-BA1032

Glycerol (additive)

1 litre		GL00261000
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Cetrimide-Nalidixic (CN) Selective Agar (01-609)





→ See CN (Cetrimide-Nalidixic) Selective Agar

Chapman TTC Agar (Tergitol® 7 Agar)

01-053

ISO

Medium for the detection of coliforms by membrane filtration technique in water analysis.

Presentation	Type of packaging	Art. No.
500g		01-053-500
5x500ml		01-053BA05
30 plates of 55mm Ø		064-PF0003
TTC 1% Sterile Solution		
100ml		06-023-100

Charcoal Cefoperazone Deoxycholate Modified Agar (01-685)




→ See CCD Modified Agar

Chloramphenicol Glucose Agar (CGA, YGC)

01-366

DIN / IDF / ISO

Selective solid culture medium for the isolation and enumeration of fungi in food according to ISO 7954 and FIL-IDF 94B Standards.



Presentation	Type of packaging	Art. No.
500g		01-366-500
5x500ml		01-366BA05
10 flasks of 100ml		064-BA9992

Christensen's Citrate Agar

01-664

BAM / ISO

Differential solid medium to verify the use of citrate as sole carbon source in presence of organic nitrogen, according to ISO 21567 Standard.

Presentation	Type of packaging	Art. No.
500g		01-664-500
5x500ml		01-664BA05

Chromogenic Coliform Agar (01-695)

→ See Microinstant® Chromogenic Coliform Agar

CIN Agar (01-444)




→ See Yersinia CIN Agar

CLED Agar

01-047

 C € 

Cystine, lactose, electrolyte deficient medium, recommended for the isolation and identification of urinary pathogenic bacteria.

Presentation	Type of packaging	Art. No.
500g		01-047-500
5x500ml		01-047BA05
20 plates of 90mm Ø		064-PA0010

Clostridium perfringens Agar (01-513)

→ See m-CP Agar Base in this page

Clostridium perfringens Selective Agar (01-050)




→ See SPS Agar (Clostridium perfringens Selective Agar)

CN (Cetrimide-Nalidixic) Selective Agar Base

01-609

EN / ISO

 Slective solid medium used for the detection of *Pseudomonas aeruginosa* according to the EN 12780 and ISO 16266 Standards.

Presentation	Type of packaging	Art. No.
500g		01-609-500
5x500ml		01-609BA05
30 plates of 55mm Ø		064-PF0005

Nalidixic Acid Selective Supplement

10 vials		06-124LY01
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Coliform Chromogenic Agar (01-695)

→ See Microinstant® Chromogenic Coliform Agar

Coliform Presence / Absence Broth



→ See Microinstant® Coliforms Presence / Absence Broth

Columbia Agar Base

01-680

HP

Highly nutritious general purpose medium used for the isolation and cultivation of fastidious and nonfastidious microorganisms from a variety of clinical and non-sterile products according to Harmonised Pharmacopoeia methods.

Presentation	Type of packaging	Art. No.
500g		01-680-500
5x500ml		01-680BA05



Columbia Blood Agar (01-034)

→ See Blood Agar (Columbia)

Columbia CNA Agar

01-703

Solid medium used, with the addition of blood, for the selective isolation of gram-positive cocci from clinical samples.

Presentation	Type of packaging	Art. No.
500g		01-703-500
20 plates of 90mm Ø		064-PA0053

→ Needs addition of blood.





Cosmetic Diluent of Beerens (02-257)

→ See Beerens Cosmetic Diluent

m-CP Agar Base (*Clostridium perfringens*)

01-513

 Solid medium for enumeration and isolation of *Clostridium perfringens* in water for human consumption, according to the European Directive 12767/97.

Presentation	Type of packaging	Art. No.
500g		01-513-500
5x500ml		01-513BA05
30 plates of 55mm Ø		064-PF0030
12 plates of 55mm Ø		064PF0030C

m-CP Selective Supplement

10 vials		06-125LY01
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→ Requires the use of Ammonium Hydroxide for confirmation (Art. No. AM0257).

D/E Neutralizing Agar

01-610

COMPF / ISO / SMD

Solid medium for the neutralization and verification of antiseptics and disinfectants according to ISO 22717 and 22718 Standards.



Presentation	Type of packaging	Art. No.
500g		01-610-500

D/E Neutralizing Broth

02-610

ISO / SMD

Liquid enrichment medium for the neutralization and verification of antiseptics and disinfectants in cosmetics.



Presentation	Type of packaging	Art. No.
500g		02-610-500
5x500ml		02-610BA05

Decarboxylase Lysine Broth according to Taylor

02-336

COMPF / IDF / ISO

Liquid medium to differentiate enteric bacteria in the L-Lysine decarboxylation assays according to Taylor and ISO 6785 and 21567 Standards.



Presentation	Type of packaging	Art. No.
500g		02-336-500
20 tubes of 10ml		064TA0125L

Deoxycholate Lactose Agar

01-057

COMPF / SMWW




Differential solid medium for the isolation of Enterobacteriaceae, according to APHA.

Presentation	Type of packaging	Art. No.
500g		01-057-500
5x500ml		01-057BA05

Dermatophyte Selective Agar (DTM)

01-442


Solid differential medium for the selective isolation of dermatophytes in veterinary samples.

Presentation	Type of packaging	Art. No.
500g		01-442-500
5x500ml		01-442BA05
20 plates of 90mm Ø		064-PA0012

Dextrose Tryptone Purple Bromocresol Agar

01-556

Solid medium for the culture of "flat-sour" canned food spoiling microorganisms.


Presentation	Type of packaging	Art. No.
500g		01-556-500

DG18 Selective Agar

01-485

ISO

Solid differential and low water activity medium used for the determination of xerophilic fungi in low moisture food and in indoor air according to ISO 16000-17 Standard.



Presentation	Type of packaging	Art. No.
500g		01-485-500

Dichloran Rose Bengal Chloramphenicol Agar (DRBC Agar)

01-657

ISO

Selective solid medium for the enumeration of yeasts and moulds in foods according to ISO 21527.


Presentation	Type of packaging	Art. No.
500g		01-657-500
5x500ml		01-657BA05

Differential Reinforced Clostridial Medium (DRCM)

02-410

DIN / ISO




Liquid media for the enumeration of clostridia in food samples and other products by the MPN technique.

Presentation	Type of packaging	Art. No.
500g		02-410-500

DNase Agar

01-346

Solid culture medium for the determination of the deoxyribonuclease activity of microorganisms, specially staphylococci and *Serratia spp.*

Presentation	Type of packaging	Art. No.
500g		01-346-500
5x500ml		01-346BA05
20 plates of 90mm Ø		064-PA0058

DRCM (02-410)

→ See Differential Reinforced Clostridial Medium

DTM Agar (01-442)

→ See Dermatophyte Selective Agar







E. coli Broth (02-060)

→ See EC Broth

E. E. Broth (Enrichment Enterobacteriaceae Broth) 02-064

HP / ISO / EP

Liquid culture medium used for the enrichment of Enterobacteriaceae according to ISO 21528-1 Standard and Harmonised Pharmacopoeia methods.



Presentation	Type of packaging	Art. No.
500g		02-064-500
5x500ml		02-064BA05
10 flasks of 100ml		064-BA2144
10 flasks of 90ml		064-BA6073
20 tubes of 9ml		064-TA0189
20 tubes of 10ml double concentration		064-TA0193

EC Broth (E. coli Broth)

02-060

COMPF / ISO / SMWW

Selective medium for the detection of Enterobacteriaceae in foodstuff and water according to ISO 9308-2 and 7251 Standards.




Presentation	Type of packaging	Art. No.
500g		02-060-500
5x500ml		02-060BA05

EMB Agar (Eosin Methylene Blue Agar)

01-068

BAM / ISO / USP

Selective differential medium for the isolation of coliform in different samples according to ISO 21150 Standard and USP.



Presentation	Type of packaging	Art. No.
500g		01-068-500
5x500ml		01-068BA05
20 plates of 90mm Ø		064-PA0013

Endo Agar Base

01-589

AOAC / COMPF / SMD

Selective solid medium used for the detection of coliform and other enteric organisms, in milk and water, according to the APHA specifications.

Presentation	Type of packaging	Art. No.
500g		01-589-500
5x500ml		01-589BA05

Basic Fuchsin Solution 2,5% (additive)

100ml		064-BA8020
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Enrichment Enterobacteriaceae Broth (02-064)

→ See E.E. Broth

m-Enterococcus Agar (01-579)

→ See Slanetz & Bartley Agar

Esculin Bile Modified Agar (01-265)


→ See Bile Esculin Modified Agar

Ethyl Violet Azide Broth (EVA Broth)

02-028

COMPF / SMWW

Liquid medium for the confirmation of enterococci in water.




Presentation	Type of packaging	Art. No.
500g		02-028-500

Eugon LT 100 Agar

01-654

ISO

Solid medium used for the detection and enumeration of aerobic mesophilic bacteria in cosmetic products in presence or absence of preservatives according to ISO 21149 Standard.




Presentation	Type of packaging	Art. No.
500g		01-654-500
5x500ml		01-654BA05
20 plates of 90mm Ø		064-PA0071

Eugon LT 100 Broth

02-654

ISO

 Liquid medium used for the enrichment of aerobic bacteria and *Escherichia coli* in cosmetic products in presence or absence of preservatives according to ISO 21149 and 21150 Standards.

Presentation	Type of packaging	Art. No.
500g		02-654-500
5x500ml		02-654BA05
20 tubes of 9ml		064-TA0264

EVA Broth (02-028)

→ See Ethyl Violet Azide Broth




F Agar (01-029)

→ See King B Agar

Fecal Coliform Agar (m-FC Agar)

01-287

Selective and differential solid medium for the enumeration of coliform by membrane filtration technique.








Presentation	Type of packaging	Art. No.
500g		01-287-500
30 plates of 55mm Ø		064-PF0024
Rosolic Acid Solution 1% (additive)		064-BA8005

Fraser Listeria Half Concentration Enrichment Broth



02-496

ISO

 Liquid culture medium for primary enrichment and detection of *Listeria spp.* according to ISO 11290 Standard.

Presentation	Type of packaging	Art. No.
500g		02-496-500
5x500ml		02-496BA05
10 flasks of 225ml		064-BA5002
20 tubes of 9ml		064-TA5002
2 bags of 5 litres		064-BA02-5
3 bags of 3 litres		064-BA02-3
5 bags of 2 litres		064-BA02-2

Listeria Selective Supplement for Primary Enrichment (Half Fraser)

10 vials (for 225ml)		06-136LY01*
10 vials (for 500ml)		06-145LY01*





→ *Ferric Ammonium Citrate included.

Fraser Listeria Enrichment Broth

02-496

ISO

 Liquid culture medium for enrichment and detection of *Listeria spp.* according to ISO 11290 Standard.

Presentation	Type of packaging	Art. No.
500g		02-496-500
5x500ml		02-496BA05
10 flasks of 225ml		064-BA5001
20 tubes of 10ml		064-TA1125

Listeria Selective Supplement for Secondary Enrichment (UVM II/ Fraser)

10 vials		06-790LY01*
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→ *Ferric Ammonium Citrate included.



GC Agar Base

01-310

Solid base medium particularly suitable for the isolation and culture of fastidious microorganisms.



This base has different applications:

Chocolate Agar: Medium for the growth of fastidious microorganisms, such as *Haemophilus influenzae*. This medium has to be boiled to get a dark chocolate colour.

Presentation	Type of packaging	Art. No.
500g		01-310-500
20 plates of 90mm Ø		064-PA0001

→ Needs addition of blood.

Thayer-Martin Agar: Medium for *Neisseria* isolation:

Presentation	Type of packaging	Art. No.
500g		01-310-500
20 plates of 90mm Ø		064-PA0030

GPS (Growth Promotion Supplement)

5 vials + 5 vials of solvent		06-144LY01*
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VCNT Selective Supplement


10 vials		06-142LY01
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→ Needs addition of blood.

→ *Can be added to improve the recovery of stressed cells.

Transgrow Agar: Medium for the harvest, transport and culture of *Neisseria*. This medium is the same as Thayer-Martin Agar but distributed into hermetic screw-cap tubes and solidified in horizontal position.

GC Selective Agar: Medium for *Neisseria* isolation.

Presentation	Type of packaging	Art. No.
500g		01-310-500

GPS (Growth Promotion Supplement)

5 vials + 5 vials of solvent		06-144LY01*
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VCAT Selective Supplement

10 vials		06-141LY01
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→ Needs addition of blood.






→ *Can be added to improve the recovery of stressed cells.

Giolitti-Cantoni Broth

02-230

EN / IDF / ISO

Liquid medium used for the recovery and enumeration of low numbers of coagulase-positive staphylococci in foods according to ISO 6888-3 and 5944, FIL-IDF and EN Standards.



Presentation	Type of packaging	Art. No.
500g		02-230-500
5x500ml		02-230BA05
20x19ml tubes		064-TA0190
20x10ml tubes double concentration		064-TA0191
Potassium Tellurite 1% Sterile Solution (additive)		06-089-100

Glucose Bromocresol Purple Agar

01-502

ISO

Solid medium for the confirmation of Enterobacteriaceae in different samples according to ISO Standards.


Presentation	Type of packaging	Art. No.
500g		01-502-500
5x500ml		01-502BA05

Glucose Peptone Chloramphenicol Agar (GP Agar with Antibiotic)

01-692

ISO

Solid medium for the enumeration of yeasts and moulds in cosmetics according to ISO 16212 Standard.



Presentation	Type of packaging	Art. No.
500g		01-692-500

Gram Negative Broth (GN Broth)

02-093

COMPF

Liquid culture medium for enteric bacteria according to the formulation of Hajna.



Presentation	Type of packaging	Art. No.
500g		02-093-500
5x500ml		02-093BA05

m-Green Agar

01-633

ISO

Selective solid culture medium for fungi enumeration according to ISO 10718.



Presentation	Type of packaging	Art. No.
500g		01-633-500
30 plates of 55mm Ø		064PF0089P

m-Green Broth

02-633

ISO

Selective medium for the culture of fungi according to ISO 10718.

Presentation	Type of packaging	Art. No.
500g		02-633-500
5x500ml		02-633BA05

GVPC Agar (01-687)

→ See BCYE Legionella Selective Agar (GVPC)

Half Fraser Broth (02-496)





→ See Fraser Listeria Half Concentration Enrichment Broth

Hektoen Enteric Agar

01-216

AOAC / BAM / COMPF / ISO



Solid, selective and differential culture medium for isolation of pathogenic Enterobacteriaceae from very contaminated samples according to ISO 21567 Standard.

Presentation	Type of packaging	Art. No.
500g		01-216-500
5x500ml		01-216BA05
20 plates of 90mm Ø		064-PA0014
30 contact plates, double packaging		064-PR0012

HTM (Haemophilus Test Medium)

01-706

Medium for the susceptibility test of *Haemophilus influenzae*.



Presentation	Type of packaging	Art. No.
500g		01-706-500
Haemophilus Growth Supplement		
10 vials		06-155LY01

Iron Sulfite Modified Agar

01-634

ISO / NMKL

Solid differential medium used for the enumeration of sulfite reducing bacteria from foods and animal feeding stuffs according to ISO 15213 Standard.


Presentation	Type of packaging	Art. No.
500g		01-634-500
5x500ml		01-634BA05

K Agar

01-674

IFU

Selective solid medium used for the isolation of *Alicyclobacillus acidoterrestris* in fruit juices according to IFU Standard Method No. 12.


Presentation	Type of packaging	Art. No.
500g		01-674-500

Kanamycin Esculin Azide Agar (KAA Agar)

01-263

COMPF

Solid medium for the confirmative detection and isolation of Lancefield's group D streptococci in food samples according to Mossel et al.



Presentation	Type of packaging	Art. No.
500g		01-263-500

Kanamycin Esculin Azide Broth (KAA Broth)

02-263

COMPF

Liquid medium for the presumptive detection of Lancefield's group D streptococci in food samples according to Mossel et al.



Presentation	Type of packaging	Art. No.
500g		02-263-500
20 tubes of 10ml		064-TA0197

KF (Kenner Fecal) Agar

01-294

COMPF / SMWW

Selective solid medium for detection and enumeration of enterococci.




Presentation	Type of packaging	Art. No.
500g		01-294-500
TTC Sterile Solution (additive)		
100ml		06-023-100

King A Agar (P Agar)

01-001

ISO / USP

Solid medium to enhance the pyocyanine production by *Pseudomonas aeruginosa* according to ISO 12780, 16266, 22717 Standards.




Presentation	Type of packaging	Art. No.
500g		01-001-500
5x500ml		01-001BA05
Glycerol (additive)		
1 litre		GL00261000

King B Agar (F Agar)

01-029

ISO

 Solid medium to enhance the fluorescein production by *Pseudomonas* spp. according to ISO 12780, 16266, 22717 Standards.




Presentation	Type of packaging	Art. No.
500g		01-029-500
5x500ml		01-029BA05
Glycerol (additive)		
1 litre		GL00261000

Kligler Iron Agar (KIA)

01-103

ISO

Solid differential medium for primary identification of Enterobacteriaceae based on the fermentation of two sugars and the hydrogen sulfide production according to ISO 6340 Standard.









Presentation	Type of packaging	Art. No.
500g		01-103-500
5x500ml		01-103BA05
20 slanted agar tubes		064-TA0116

Lactose Broth

02-105

AOAC / COMPF / EP / ISO / SMWW / USP

Medium for the pre-enrichment and the detection of Enterobacteriaceae and coliforms in milk and water according to ISO 9308-2 and 21150 Standards.


Presentation	Type of packaging	Art. No.
500g		02-105-500
5x500ml		02-105BA05
10 flasks of 100ml		064-BA3029
10 flasks of 90ml cap with septum		0BA3029-90
10 flasks of 90ml		0BA3929-90
10 flasks de 90ml with Durham tubes		0BA3024-90
20 tubes of 10ml double concentration with Durham tubes		064-TA2141
20 tubes of 9ml with Durham tubes		064-TA2142

Lactose Gelatin Medium

03-632

ISO

 Solid medium for biochemical confirmation of *Clostridium perfringens* according to ISO 7937 Standards.





Presentation	Type of packaging	Art. No.
500g		03-632-500

Lactose Sulfite Broth

02-519

EP / ISO

 Liquid medium for the determination of H₂S production by *Clostridium perfringens* according to ISO 7937 Standard.

Presentation	Type of packaging	Art. No.
500g		02-519-500
20 tubes of 9ml with Durham tubes		064-TA0846
Sodium Bisulfite (Sodium Metabisulfite)		
10 vials		06-114LY01
Ferric Ammonium Citrate Supplement (312mg)		
10 vials		06-113LY01

Lactose TTC


Sodium Heptadecyl Sulfate Agar (01-053)

→ See Chapman TTC Agar

Lauryl Sulfate Agar (m-Lauryl Sulfate Agar)

01-524

 Solid medium for the isolation and enumeration of coliform and *Escherichia coli* from water by membrane filtration technique.




Presentation	Type of packaging	Art. No.
500g		01-524-500

Lauryl Sulfate Broth

02-108

BAM / COMPF / IDF / ISO / SMD / SMWW

Liquid medium used for the detection and enumeration of coliform bacteria according to IDF-FIL 73B and ISO 4831 and 7251 Standards.



Presentation	Type of packaging	Art. No.
500g		02-108-500
5x500ml		02-108BA05
20 tubes of 9ml with Durham tubes		064-TA0451

Lauryl Sulfate Mannitol Tryptophan Broth

02-460

ISO

Liquid medium for the production of indol and gas in a single tube, according to ISO 9308-1 and 9308-2 Standards.


Presentation	Type of packaging	Art. No.
500g		02-460-500
20 tubes of 10ml		064-TA0452

Lauryl Sulfate Modified Broth (mLST)

02-711

ISO

 Liquid medium for the selective enrichment of *Cronobacter sakazakii* in milk samples and dairy products, according to the ISO 22964:2006.


Presentation	Type of packaging	Art. No.
500g		02-711-500

Vancomycin Selective Supplement 5g

10 vials		06-712LY01
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Lauryl Sulfate MUG Broth



 Fluorogenic liquid culture medium for the detection and enumeration of coliforms, specially *Escherichia coli* in water and food.

Presentation	Type of packaging	Art. No.
20 tubes of 10ml		064-TA0260
20 tubes of 9ml with Durham tubes		064-TA1260

LB Agar according to Miller

01-385


 Solid medium used for general purposes, recommended for the molecular genetics studies with *Escherichia coli*.

Presentation	Type of packaging	Art. No.
500g		01-385-500
5x500ml		01-385BA05

LB Broth

02-384


 Liquid medium used for general purposes, recommended for molecular genetics studies with *Escherichia coli*.

Presentation	Type of packaging	Art. No.
500g		02-384-500

LB Broth according to Lennox

02-406



Liquid medium used for general purposes, recommended for molecular genetics studies with *Escherichia coli*.

Presentation	Type of packaging	Art. No.
500g		02-406-500

LB Broth according to Miller

02-385

Liquid medium used for general purposes, recommended for molecular genetics studies with *Escherichia coli*.

Presentation	Type of packaging	Art. No.
500g		02-385-500
5x500ml		02-385BA05

Legionella BCYE Agar (01-687)

→ See BCYE Legionella Agar

Legionella BCYE Selective Agar

→ See BCYE Legionella Selective Agar (GVPC)

Legionella BCYE Agar without Cysteine



→ See BCYE without Cysteine Legionella Agar

Lethen Agar

01-236

AOAC / ASTM / BAM

Solid medium used for the assays of antimicrobial action of quaternary ammonium compounds (QAC's).

Presentation	Type of packaging	Art. No.
500g		01-236-500
10 flasks of 100ml		064-BA3019

Polysorbate 80 (additive)




100ml		TW00800100
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Lethen Broth

02-236

AOAC / ASTM

Liquid culture medium used for the determination of germicidal coefficient activity of cationic detergents.

Presentation	Type of packaging	Art. No.
500g		02-236-500
5x500ml		02-236BA05
10 flasks of 100ml		064-BA3018

Polysorbate 80 (additive)





100ml		TW00800100
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Lethen Modified Agar

01-237

ASTM / BAM / ISO

Solid medium used for a primary screening of microorganisms in cosmetics according to the FDA, and ISO 21149, 22717.

Presentation	Type of packaging	Art. No.
500g		01-237-500
5x500ml		01-237BA05
20 plates of 90mm Ø		064-PA0047
10 flasks of 100ml		064-BA8001

Polysorbate 80 (additive)






100ml		TW00800100
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Lethen Modified Broth

02-237

AOAC / BAM / ISO

Liquid medium used for the primary recovery of stressed microorganisms in the microbial examination of cosmetics according to ISO 21149, 22717 and 22718 Standards.

Presentation	Type of packaging	Art. No.
500g		02-237-500
5x500ml		02-237BA05
10 flasks of 90ml		0BA2145-90
10 flasks of 300ml		064-BA8002
20 tubes of 9ml		064-TA6070

Polysorbate 80 (additive)

100ml		TW00800100
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Levine Agar (01-068)

→ See (EMB Agar) Eosin Methylene Blue Agar

Liebermeister & Braveny Agar

01-446

Solid medium for the selective isolation of β -hemolytic streptococci in throat samples.


Presentation	Type of packaging	Art. No.
500g		01-446-500

→ Needs addition of blood.

Linden Grain Broth

02-745

Liquid medium used for media fill process simulation for beverage bottling to test low acid beverage spoiling microorganisms.

Presentation	Type of packaging	Art. No.
500g		02-745-500

Listeria Agar

according to Ottaviani & Agosti (01-719)

→ See Microinstant® Listeria Chromogenic Agar

Listeria Enrichment Broth according to Fraser (02-496)



→ See Fraser Listeria Enrichment Broth

Listeria Enrichment Broth according to Lovett

02-498

BAM / IDF

Liquid culture medium for the enrichment of *Listeria spp.* according to Lovett et al.

Presentation	Type of packaging	Art. No.
500g		02-498-500
5x500ml		02-498BA05

Listeria Enrichment according to FDA and IDF Selective Supplement

10 vials		06-107LY01
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Listeria Enrichment Broth UVM (02-472)

→ See UVM Listeria Enrichment Broth

Listeria Oxford Agar (01-471)

→ See Oxford Agar Base

Listeria Palcam Agar (01-470)

→ See Palcam Agar Base



Litsky Azide Broth (02-028)

→ See Ethyl Violet Azide Broth

Löwenstein-Jensen Medium


02-627

 Medium for the culture and differentiation of species of *Mycobacterium spp.*

Presentation	Type of packaging	Art. No.
500g		02-627-500
20 slanted agar tubes		064-TA0165

Löwenstein-Jensen Pyruvate Medium

 Medium supplemented with pyruvate for the culture and differentiation of species of *Mycobacterium*. It allows a good growth of *Mycobacterium bovis*.

Presentation	Type of packaging	Art. No.
20 slanted agar tubes		064-TA0166

Lysine Decarboxylase Broth according to Taylor (02-336)




→ See Decarboxylase Lysine Broth

Lysine Iron Agar (LIA)

01-094

AOAC / APHA / COMPF / SMD

 Differential medium for Enterobacteriaceae, recommended by Edwards and Ewing for *Salmonella* and *Arizona arizonae* identification.

Presentation	Type of packaging	Art. No.
500g		01-094-500
5x500ml		01-094BA05
20 slanted agar tubes		064-TA0117

m-CP Agar Base

 → See m-CP Agar Base (*Clostridium perfringens*) in page 332

m-FC (Fecal Coliform Agar)

→ See Fecal Coliform Agar

m-Green Agar

→ See m-Green Agar in page 335

m-Green Broth

→ See m-Green Broth in page 335

m-Lauryl Sulfate Agar

→ See Lauryl Sulfate Agar






MacConkey Agar

01-118

AOAC / BAM / COMPF / EP / HP / ISO / SMWW / USP

C €


 Selective and differential medium used in the detection, isolation and enumeration of *Salmonella* in clinical specimens and coliforms according to the Harmonised Pharmacopoeia methods and in foodstuffs specimens according to ISO Standard 21150.

Presentation	Type of packaging	Art. No.
500g		01-118-500
5x500ml		01-118BA05
20 plates of 90mm Ø		064-PA0019
30 contact plates, irradiated, double packaging		064-PR0011
10 flasks of 100ml		064-BA1003

MacConkey Agar No. 2

01-682

Modification of MacConkey Agar containing bile salts No. 2 used for the recognition of enterococci.



Presentation	Type of packaging	Art. No.
500g		01-682-500

MacConkey Broth

02-118

AOAC / ISO / SMWW

Liquid medium used for the detection and enumeration of coliforms by MPN technique.





Presentation	Type of packaging	Art. No.
500g		02-118-500
5x500ml		02-118BA05

MacConkey Broth (HP)

02-611

HP / EP

Liquid medium for the detection and enumeration of coliforms according to Harmonised Pharmacopoeia methods.

Presentation	Type of packaging	Art. No.
500g		02-611-500
5x500ml		02-611BA05
10 flasks of 100ml		064-BA2143
20 tubes of 9ml with Durham tubes		064-TA2135

MacConkey Sorbitol Agar (SMAC Agar) (01-729)


→ See Sorbitol MacConkey Agar (SMAC)

Malt Extract Agar according to Blakeslee

01-672

IFU

Solid medium to achieve typical growth and sporulation of fungi according to methodology of CBS and IFU.



Presentation	Type of packaging	Art. No.
500g		01-672-500

Malt Extract Agar No. 1

01-111

BAM / COMPF



Solid culture medium, with gelatin peptone, for the isolation and enumeration of fungi.

Presentation	Type of packaging	Art. No.
500g		01-111-500
5x500ml		01-111BA05

Malt Extract Agar No. 2

01-573

Solid culture medium, with soy peptone, for the isolation and enumeration of fungi.





Presentation	Type of packaging	Art. No.
500g		01-573-500
5x500ml		01-573BA05

Malt Extract Agar No. 3

01-574

BAM

Solid culture medium, with mycological peptone, for the isolation and enumeration of fungi.


Presentation	Type of packaging	Art. No.
500g		01-574-500
20 plates of 90mm Ø		064-PA0027
30 contact plates, irradiated, double packaging		064-PR0031
10 flasks of 100ml		064-BA7036

Malt Extract Broth No. 1

02-111

BAM / COMPF


Liquid medium for yeasts and moulds.

Presentation	Type of packaging	Art. No.
500g		02-111-500

Malt Extract Broth No. 2

02-491

Liquid culture medium for yeasts and moulds according to the modification of Reis for *Aspergillus flavus*.

Presentation	Type of packaging	Art. No.
500g		02-491-500






Mannitol Salt Agar (Chapman Agar)

01-116

HP / BAM / ISO / USP

C 


Selective medium for the isolation of pathogenic staphylococci according to the Harmonised Pharmacopoeia methods and the ISO 22718 Standard.

Presentation	Type of packaging	Art. No.
500g		01-116-500
5x500ml		01-116BA05
20 plates of 90mm Ø		064-PA0011
30 contact plates, irradiated, double packaging		064-PR0015
30 plates of 55mm Ø		064-PF0025

Marine Agar

01-291

Solid culture medium for heterotrophic marine bacteria.






Presentation	Type of packaging	Art. No.
500g		01-291-500

Maximum Recovery Diluent (MRD)

02-510

ISO

Isotonic diluent for the maximum recovery of stressed microorganisms according to ISO Standards.

Presentation	Type of packaging	Art. No.
500g		02-510-500
5x500ml		02-510BA05
10 flasks of 90ml		064-BA0733
20 tubes of 9ml		064-TA6074
5 bags of 2 litres		064-BA04-2

Methyl-Red Voges-Proskauer Broth (02-207)

→ See MRVP Broth (Methyl Red Voges Proskauer broth)

Methyl-Red Voges-Proskauer Saline Broth (02-456)

→ See MRVP Saline Broth (Methyl Red Voges Proskauer Saline broth)





Microbial Content Test Agar (01-613)

→ See TSA Lecithin & Polysorbate (Microbial Content Test)

Microinstant® Chromogenic Coliform Agar (CCA)

01-695

Selective and differential chromogenic medium used for the detection and enumeration of total coliforms and *Escherichia coli*. Ideal for water samples by the membrane filtration technique.

Presentation	Type of packaging	Art. No.
500g		01-695-500
5x500ml		01-695BA05
30 plates of 55mm Ø		064-PF1015*
Coliform CV Selective Supplement		
10 vials		06-140LY01




→ *Supplement included.

Microinstant® Chromogenic Coliform Agar, ISO (CCA ISO)

01-797

ISO




Selective and differential chromogenic medium used for the detection and enumeration of total coliforms and *Escherichia coli* according to ISO 9308-1 Standards. Ideal for water samples by the membrane filtration technique.

Presentation	Type of packaging	Art. No.
500g		01-797-500
5x500ml		01-797BA05
30 plates of 55mm Ø		064-PF6021

Microinstant® Chromogenic Colinstant Agar

01-618


Selective and differential chromogenic medium used for the detection of total coliforms and *Escherichia coli* in water and food samples.

Presentation	Type of packaging	Art. No.
500g		01-618-500
5x500ml		01-618BA05
20 plates of 90mm Ø		064-PA6015

→ In waste water samples it is recommended to add Coliform CV Selective Supplement 06-140LY01.

Microinstant® Coliforms Presence / Absence Broth

Chromogenic and fluorogenic dehydrated medium, which is rehydrated with the sample itself, used for the detection of coliform bacteria in water. It combines β-D-glucuronidase and β-D-galactosidase enzymes activity and the indol test in a single medium.

Presentation	Type of packaging	Art. No.
10 flasks of 100ml		064-BACOLI




→ For the test of indol add 2-3ml of Kovac's Reagent (RE0007G100).

Microinstant® Listeria Chromogenic Agar according to Ottaviani & Agosti


01-719

ISO


Chromogenic culture media for the detection and isolation of *Listeria spp.* and *Listeria monocytogenes* according to Ottaviani & Agosti formula and to ISO 11290 Standards.

Presentation	Type of packaging	Art. No.
500g		01-719-500
5x500ml		01-719BA05
20 plates of 90mm Ø		064-PA0084

Microinstant® Listeria Enrichment Supplement

10 vials  06-754-024

Microinstant® Listeria Selective Supplement




10 vials  06-755LY01

Microinstant® Sakazaki Chromogenic Agar

01-744

ISO / FIL-IDF

 Selective and differential chromogenic medium used for the isolation and presumptive identification of *Cronobacter sakazakii* according to ISO and FIL-IDF Standards.





Presentation	Type of packaging	Art. No.
500g		01-744-500
5x500ml		01-744BA05
20 plates of 90mm Ø		064-PA0146

Microinstant® Tryptone Bile Glucuronic Agar (TBX Agar)

01-619

ISO / SL

 Selective and differential chromogenic solid medium for the detection and enumeration of β -glucuronidase positive *Escherichia coli* according to ISO 16649 Standards.



Presentation	Type of packaging	Art. No.
500g		01-619-500
5x500ml		01-619BA05
20 plates of 100ml		064-PA0945
10 flasks of 100 ml		064-BA0945

Mineral Modified Glutamate Agar

01-659

APHA / COMPF / IDF / ISO

 Solid medium for resuscitation and recovery of *Escherichia coli* damaged cells by heat, freezing or chemical process according to ISO 11866 and 16649 and FIL-IDF Standards.

Presentation	Type of packaging	Art. No.
500g		01-659-500
5x500ml		01-659BA05

Sodium Glutamate (additive)

500g		S004000500
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Ammonium Chloride (additive)



500g		AM02730500
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Mineral Modified Glutamate Broth

02-656

ISO

 Liquid medium for the selective enrichment of *Escherichia coli* according to ISO 16649.

Presentation	Type of packaging	Art. No.
500g		02-656-500
5x500ml		02-656BA05

Sodium Glutamate (additive)

500g		S004000500
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Ammonium Chloride (additive)

500g		AM02730500
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Mossel Broth (02-064)



→ See E. E. Broth (Enrichment Enterobacteriaceae Broth)

Motility Indol Ornithine Fluid Medium (MIO)

03-422

BAM

Medium for the confirmation of motility, indol production and ornithine decarboxylase activity of Enterobacteriaceae.




Presentation	Type of packaging	Art. No.
500g		03-422-500
20 tubes of 9ml		064-TA0119

Motility Nitrate Medium

03-612

BAM / ISO

 Fluid medium for the identification of *Clostridium perfringens* according to ISO 7937 Standard.





Presentation	Type of packaging	Art. No.
500g		03-612-500
5x500ml		03-612BA05
Glycerol (additive)		
1 litre		GL00261000

MRS Agar

01-135

COMPF / IDF / IFU / ISO

 Solid culture medium for the isolation of *Lactobacillus*, according to ISO Standards and IFU Methods.




Presentation	Type of packaging	Art. No.
500g		01-135-500
5x500ml		01-135BA05
20 plates of 90mm Ø		064-PA0007
10 flasks of 100ml		064-BA2130

MRS Broth

02-135

IFU / ISO

 Liquid culture medium for the isolation of *Lactobacillus*, according to Man, Rogosa and Sharpe and ISO Standards.




Presentation	Type of packaging	Art. No.
500g		02-135-500
5x500ml		02-135BA05
20 tubes of 10ml		064-TA0173

MRVP Broth (Methyl Red Voges Proskauer Broth)

02-207

BAM / IDF / ISO / SL


Classic liquid culture medium for differential tests (Voges-Proskauer and Methyl-Red) in Enterobacteriaceae according to ISO and FIL-IDF Standards.

Presentation	Type of packaging	Art. No.
500g		02-207-500
5x500ml		02-207BA05
20 tubes of 10ml		064-TA0261

MRVP Saline Broth (Methyl Red Voges Proskauer Saline Broth)

02-456

Liquid culture medium for the Methyl-Red and Voges-Proskauer test in marine bacteria.

Presentation	Type of packaging	Art. No.
500g		02-456-500





Mueller-Hinton Agar

01-136

BAM / CLSI (NCCLS) / ISO

C € [IV]

Recommended medium used to perform the Antibiotic and Sulfonamides Sensibility Test with pathogenic microorganisms from clinical specimens, according to the Kirby-Bauer and Ericsson methods.



Presentation	Type of packaging	Art. No.
500g		01-136-500
5x500ml		01-136BA05
20 plates of 90mm Ø		064-PA0020
10 flasks of 100ml		064-BA1004

Mueller-Hinton Broth

02-136

CLSI (NCCLS) / CMPH

Liquid version of the agar of the same type, recommended for the study of MIC of antibiotics.





Presentation	Type of packaging	Art. No.
500g		02-136-500
5x500ml		02-136BA05

Müller-Kauffmann Tetrathionate Broth


02-335

DIN / ISO

Medium for selective enrichment of *Salmonella spp.* according to ISO 6579.

Presentation	Type of packaging	Art. No.
500g		02-335-500
5x500ml		02-335BA05
10 flasks of 100ml		064-BA1024
20 tubes of 10ml		064-TA1024

Brilliant Green Selective Supplement with Novobiocin

10 vials  06-017LY01

Iodine Potassium Iodide Solution

50ml  064-V11108

MYP Agar (01-262)



→ See *Bacillus cereus* Agar

Neutralizing Fluid

02-512

EP


Liquid medium for neutralizing antimicrobials according to European Pharmacopoeia.

Presentation	Type of packaging	Art. No.
500g		02-512-500
5x500ml		02-512BA05

Neutralizing Special Broth

02-583




Liquid medium for the neutralization of preservatives in cosmetic and pharmaceutical products.

Presentation	Type of packaging	Art. No.
500g		02-583-500

Nickerson Agar (Biggy Agar)

01-137

Culture medium for the isolation and identification of *Candida spp.*



Presentation	Type of packaging	Art. No.
500g		01-137-500
5x500ml		01-137BA05
20 plates of 90mm Ø		064-PA0018

Nitrate Broth

02-138

BAM / COMPF / ISO

Liquid culture medium used for verifying the nitrate reducing ability of Enterobacteriaceae according to ISO 7932 Standard.







Presentation	Type of packaging	Art. No.
500g		02-138-500
20 tubes of 10ml		064-TA0128

Nutrient Agar

01-140

BAM / BP / ISO

Solid culture medium for general purposes used with less fastidious organisms according to ISO 16266 and EN 12780 Standards.



Presentation	Type of packaging	Art. No.
500g		01-140-500
5x500ml		01-140BA05
20 plates of 90mm Ø		064-PA0059
30 plates of 55mm Ø		064-PF0001
10 flasks of 100ml		064-BA1035
20 tubes of 15ml		064-TA2144

Nutrient Agar (APHA)

01-144

COMPF / EP / ISO

Solid culture medium for general purposes according to ISO 6340, 6579, 6785, 8523, 10273 Standards and APHA.



Presentation	Type of packaging	Art. No.
500g		01-144-500
5x500ml		01-144BA05

Nutrient Agar (ISO)

01-635

ISO

Solid culture medium for general purposes according to ISO 21528-1 and 21528-2 Standards.

Presentation	Type of packaging	Art. No.
500g		01-635-500
5x500ml		01-635BA05

Nutrient Agar No. 2 (01-451)



→ See *Preston Campylobacter* Agar

Nutrient Broth

02-140

BP

Liquid culture media for general purposes with non fastidious microorganisms according to the British Pharmacopoeia.



Presentation	Type of packaging	Art. No.
500g		02-140-500
5x500ml		02-140BA05

Nutrient Broth (APHA)

02-144

COMPF / EP / ISO / SMD / SMWW

Liquid medium for the cultivation of non fastidious microorganisms according to APHA and ISO Standards.

Presentation	Type of packaging	Art. No.
500g		02-144-500
5x500ml		02-144BA05



O/F Medium

(Oxidation Fermentation Fluid Medium Base)

03-037

AOAC / BAM / CMPH / COMPF

Fluid medium used for determining the oxidative and/or fermentative metabolism of Gram negative bacilli.

Presentation	Type of packaging	Art. No.
500g		03-037-500
20 tubes of 10ml		064-TA0129*

→ *Glucose is included.




OGYE Agar (01-275)

→ See *Sabouraud Oxytetracycline* Agar

Orange Serum Agar (OSA)

01-698
IFU




Solid medium for the culture of aciduric organisms specially those associated with spoilage of citrus products and their derivatives.

Presentation	Type of packaging	Art. No.
500g		01-698-500
20 plates of 90mm Ø		064-PA7035
10 flasks of 100ml		064-BA7035

Oxford Agar

01-471
ISO

Selective and differential solid medium for the detection, enumeration and isolation of *Listeria spp.* according to ISO 11290 Standard.

Presentation	Type of packaging	Art. No.
500g		01-471-500
5x500ml		01-471BA05
Oxford Selective Supplement		
10 vials		06-127LY01

P Agar (01-001)

→ See King A Agar





PA (01-083)

→ See Phenylalanine Agar

Palcam Agar




01-470
ISO

Selective and differential solid medium for the detection, enumeration and isolation of *Listeria spp.* according to ISO 11290 Standard.

Presentation	Type of packaging	Art. No.
500g		01-470-500
5x500ml		01-470BA05
20 plates of 90mm Ø		064-PA0070
Palcam Selective Supplement for Listeria		
10 vials		06-110LY01

PBS (Phosphate Buffered Saline)

Isotonic solution for dilutions.

Presentation	Type of packaging	Art. No.
10 flasks of 100ml		064-BA0103
20 tubes of 9ml		064-TA0104
20 tubes of 1ml		064-TA0103

PCA (01-161)

→ See Plate Count Agar

PEMBA Agar (01-487)

→ See Bacillus cereus Selective Agar

Peptone Water (03-156)

→ See Tryptone Water

Peptone Water (02-568)

→ See Phosphate-Buffered Peptone Water

Peptone Water, Alkaline saline (02-697)

→ See Alkaline Saline Peptone Water

Peptone Water, Buffered (02-277)

→ See Buffered Peptone Water

Peptone Water, Buffered (Eur. Pharm.) (02-494)

→ See Buffered Peptone Water, HP (BPW)

Peptone Water, Phosphate-Buffered (02-568)

→ See Phosphate-Buffered Peptone Water


Peptone Water, Saline (02-510)

→ See Maximum Recovery Diluent (MRD)

Phenol Red Broth Base

02-032
BAM / COMPF / ISO




Liquid culture medium suitable for sugar and other substrates fermentation studies according to ISO 10273.

Presentation	Type of packaging	Art. No.
500g		02-032-500

Phenylalanine Agar (PA)

01-083
CMPH

Culture medium for Enterobacteriaceae, according to Ewing et al, for detecting the ability of the *Proteus* genus to convert phenylalanine into phenylpyruvic acid.

Presentation	Type of packaging	Art. No.
500g		01-083-500
5x500ml		01-083BA05
20 slanted agar tubes		064-TA0112

→ Requires the addition of 0,2ml of a 10% solution of ferric chloride.

Phosphate-Buffered Peptone Water

02-568
SL

Non-selective liquid medium for the pre-enrichment of Enterobacteriaceae according to Schweizerisches Lebensmittelbuch.


















Presentation	Type of packaging	Art. No.
500g		02-568-500

Plate Count Agar (PCA)

01-161
BAM / COMPF / IDF / IFU / ISO / USP

Solid medium for the aerobic plate count used by surface inoculation method (Standard Plate Count Agar) according to ISO and IFU Standards.

Presentation	Type of packaging	Art. No.
500g		01-161-500
5x500ml		01-161BA05
20 plates of 90mm Ø		064-PA0024
20 plates of 90mm Ø, irradiated, double packaging		064PA0024I
20 plates of 90mm Ø, with TTC, triple packaging		064-PA0144
30 plates of 55mm Ø		064-PF0007
30 contact plates, irradiated, double packaging		064-PR0001
30 contact plates, TLHTh, irradiated, double packaging		064-PR0020
24 contact plates, irradiated, triple packaging		064-PR0041
24 contact plates, TLHTh, irradiated, triple packaging		064-PR0039
80 contact plates, irradiated, triple packaging		064PRB0043
80 contact plates, TLHTh, irradiated, triple packaging		064PRB0044
10 flasks of 200ml		064-BA3038
10 flasks of 100ml		064-BA1005
20 tubes of 15ml		064-TA0325
20 tubes of 10ml		064-TA0199

→ TLHTh: Tween 80, Lecithin, Histidine, Thiosulfate.

Plate Count Modified Agar

01-329

BAM / COMPF / IDF / IFU / ISO / USP

Modification of Plate Count Agar with a lesser amount of agar, specially recommended for aerobic enumeration by the poured plate method.







Presentation	Type of packaging	Art. No.
500g		01-329-500
5x500ml		01-329BA05

Plate Count Skim Milk Agar

01-412

DIN / IDF / IFU / ISO

Solid medium for total aerobic plate count of milk and dairy products, according to DIN and FIL/IDF Standards.





Presentation	Type of packaging	Art. No.
500g		01-412-500
5x500ml		01-412BA05
10 flasks of 200ml		064-BA3057
10 flasks of 100ml		064-BA2120

Potato Dextrose Agar (PDA)

01-483

HP / BAM / COMPF / USP

Solid culture medium used for the detection and enumeration of yeasts and moulds in food, specially recommended in dairy products and other samples, according to the Harmonised Pharmacopoeia methods.



Presentation	Type of packaging	Art. No.
500g		01-483-500
5x500ml		01-483BA05
20 plates of 90mm Ø		064-PA0015
10 flasks of 100ml		064-BA3063

Potato Dextrose Broth

02-483

BAM / COMPF / SMD / USP

Liquid culture medium for the maintenance and multiplication of yeasts.

Presentation	Type of packaging	Art. No.
500g		02-483-500
5x500ml		02-483BA05


Presence / Absence Coliform Broth

→ See Microinstant® Coliforms Presence / Absence Broth

Preston Campylobacter Agar

01-451


General purpose medium that when appropriately supplemented can be used as a selective medium for *Campylobacter*.

Presentation	Type of packaging	Art. No.
500g		01-451-500

Campylobacter Growth Supplement

10 vials		06-128LY01
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Campylobacter Preston Selective Supplement

10 vials		06-130LY01
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Campylobacter Preston Modified Selective Supplement


10 vials		06-135LY01
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→ Needs addition of blood.

Preston Campylobacter Broth

02-561

Liquid medium for general use, with a high concentration of nutrients. Appropriately supplemented is used as a selective enrichment for *Campylobacter*.

Presentation	Type of packaging	Art. No.
500g		02-561-500

Campylobacter Growth Supplement

10 vials		06-128LY01
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Campylobacter Preston Selective Supplement

10 vials		06-130LY01
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Campylobacter Preston Modified Selective Supplement


10 vials		06-135LY01
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→ Needs addition of blood.

PSB (Peptone Sorbitol Bile Broth)

ISO

Liquid medium for enrichment of *Yersinia spp.* in food samples according to ISO 10273 Standard.

Presentation	Type of packaging	Art. No.
10 flasks of 100ml		064-BA7066




Pseudomonas Agar Base

01-728

EN / ISO

Solid culture media for selective isolation of *Pseudomonas aeruginosa*. To obtain CFC Selective Pseudomonas Agar add: CFC Selective Supplement.

To obtain CN Selective Pseudomonas Agar according to EN 12780 and ISO 16266 Standards add: CN Selective Supplement.

Presentation	Type of packaging	Art. No.
500g		01-728-500
5x500ml		01-728BA05
30 plates of 55mm Ø (CN Agar)		064-PF0005

CFC Selective Supplement

10 vials		06-726LY01
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CN Selective Supplement

10 vials		06-742LY01
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Pseudomonas Selective Agar Base (01-160)


→ See Cetrimide Agar

Purple Broth Base

02-663

ISO

Broth base used for the biochemical differentiation of *Shigella spp.*, based on carbohydrate fermentation according to ISO 21567 Standard.






Presentation	Type of packaging	Art. No.
500g		02-663-500

R2A Agar

01-540

EP / HP (Water Monograph 6th Ed.) / SMWW

Medium for the enumeration of heterotrophic microorganisms in treated water.




Presentation	Type of packaging	Art. No.
500g		01-540-500
5x500ml		01-540BA05
20 plates of 90mm Ø, irradiated, double packaging		064PA00721
20 plates of 90mm Ø, irradiated, triple packaging		064-PA0172
30 plates of 55mm Ø, irradiated, double packaging		064-PF0072

Rappaport Vassiliadis Broth

02-379

AOAC / BAM / COMPF / IDF / ISO

 Liquid medium for the selective enrichment of *Salmonella* spp. in foodstuffs and other materials according to ISO 6579 and FIL-IDF Standards.




Presentation	Type of packaging	Art. No.
500g		02-379-500
5x500ml		02-379BA05
20 tubes of 10ml		064-TA0198

Rappaport Vassiliadis Modified Semi-Solid Medium

03-376

ISO

 Semi-solid medium for the isolation of mobile *Salmonella* strains according to the annex of ISO 6579.




Presentation	Type of packaging	Art. No.
500g		03-376-500
5x500ml		03-376BA05
Novobiocine Selective Supplement (10mg)		
10 vials		06-139LY01

Rappaport Vassiliadis Salmonella Enrichment Broth

02-668

HP / ISO




 Selective liquid medium used for the enrichment of *Salmonella* according to Harmonised Pharmacopoeia methods and ISO Standards.

Presentation	Type of packaging	Art. No.
500g		02-668-500
5x500ml		02-668BA05
20 tubes of 10ml		064-TA1198

Reinforced Clostridial Agar (RCA)

01-289

Solid medium for the culture and enumeration of Clostridia and other anaerobic bacteria.



Presentation	Type of packaging	Art. No.
500g		01-289-500
20 tubes of 10ml		064-TA0201
10 flasks of 100ml		064-BA3051

Reinforced Clostridial Medium (RCM)

03-289

EP / HP






Fluid medium for the culture and enumeration of Clostridia by the MPN method according to Harmonised Pharmacopoeia.

Presentation	Type of packaging	Art. No.
500g		03-289-500
5x500ml		03-289BA05

Ringer

06-073

Isotonic solution for cell suspensions also used as diluent.








Presentation	Type of packaging	Art. No.
500g		06-073-500
10 flasks of 90ml		064-BA3034
10 flasks of 450ml		064-BA8019
20 tubes of 10ml		064-TA2120
20 tubes of 9ml		064-TA2159

Rose Bengal Agar

01-301

COMPF / SMWW

Solid and selective medium for isolation of yeasts and moulds from the environment and food products.

Presentation	Type of packaging	Art. No.
500g		01-301-500
5x500ml		01-301BA05
20 plates of 90mm Ø		064-PA0038
30 contact plates, irradiated, double packaging		064-PR0007
80 contact plates, irradiated, triple packaging		064PRB0091
10 flasks of 100ml		064-BA1009
20 tubes of 15ml		064-TA2146

Rothe Azide Broth (02-027)




→ See Azide Dextrose Broth according to Rothe

Sabouraud Broth

02-165


HP / USP

Liquid medium for fungi prospection according to Harmonised Pharmacopoeia methods.

Presentation	Type of packaging	Art. No.
500g		02-165-500
5x500ml		02-165BA05
20 tubes of 9ml		064-TA2148

Sabouraud Chloramphenicol Actidione Agar

Solid culture medium for the selective isolation of fungi.















Presentation	Type of packaging	Art. No.
20 plates of 90mm Ø		064-PA0067

Sabouraud Chloramphenicol Agar

01-166

EP / ISO / USP


Selective solid medium for the isolation of fungi.

Presentation	Type of packaging	Art. No.
500g		01-166-500
5x500ml		01-166BA05
20 plates of 90mm Ø		064-PA0026
20 plates of 90mm Ø, irradiated, double packaging		064PA0026I
20 plates of 90mm Ø, irradiated, triple packaging		064-PA0137
30 plates of 55mm Ø		064-PF0022
30 contact plates, irradiated, double packaging		064-PR0003
24 contact plates, irradiated, triple packaging		064-PR0037
80 contact plates, irradiated, triple packaging		064PRB0042
80 contact plates, TLHTh, irradiated, triple packaging		064PRB0094
10 flasks of 200ml		064-BA3039
10 flasks of 100ml		064-BA1007
20 slanted agar tubes		064-TA0136
20 tubes of 15ml		064-TA2160

→ TLHTh: Tween 80, Lecithin, Histidine, Thiosulfate.

Sabouraud Chloramphenicol Penase Agar

Solid culture medium for the selective isolation of fungi in environments with penicillin.















Presentation	Type of packaging	Art. No.
20 plates of 90mm Ø		064-PA3135

Sabouraud Dextrose Agar

01-165

BAM / EP / HP / ISO / USP

Solid medium for the enumeration and culture of fungi according to Harmonised Pharmacopoeia methods and ISO Standard.

Presentation	Type of packaging	Art. No.
500g		01-165-500
5x500ml		01-165BA05
20 plates of 90mm Ø		064-PA0025
20 plates of 90mm Ø, irradiated, double packaging		064PA0025I
20 plates of 90mm Ø, irradiated, triple packaging		064-PA0147
30 plates of 55mm Ø		064-PF0006
30 contact plates, irradiated, double packaging		064-PR0002
24 contact plates, irradiated, triple packaging		064-PR0062
30 contact plates, TLHTh, irradiated, double packaging		064-PR0022
24 contact plates, TLHTh, irradiated, triple packaging		064-PR0042
80 contact plates, TLHTh, irradiated, triple packaging		064PRB0041
80 contact plates, irradiated, triple packaging		064PRB0092
10 flasks of 100ml		064-BA1006
20 slanted agar tubes		064-TA0135






→ TLHTh: Tween 80, Lecithin, Histidine, Thiosulfate.

Sabouraud Oxytetracycline Agar (OGYEA)

01-275

EP / ISO / USP

Solid culture medium for total enumeration of yeasts and moulds according to ISO 13681.

Presentation	Type of packaging	Art. No.
500g		01-275-500
5x500ml		01-275BA05
20 plates of 90mm Ø		064-PA3124
10 flasks of 100ml		064-BA2128
Oxytetracycline Selective Supplement		
10 vials		06-115LY01

Saline Peptone Water (02-510)

→ See Maximum Recovery Diluent (MRD)

Saline Solution

Saline solution (85%) used as a diluent for microbiology.

Presentation	Type of packaging	Art. No.
20 tubes of 3ml		064-TA0105




Salmonella Shigella Agar (SS Agar)

01-555

AOAC / COMPF

C € [V] [V]

Differential and selective solid medium for the isolation of *Salmonella* and some *Shigella* species from clinical specimens, food, etc.


Presentation	Type of packaging	Art. No.
500g		01-555-500
5x500ml		01-555BA05
20 plates of 90mm Ø		064-PA0028

→ Needs addition of blood.

Schaedler Agar

01-231

Solid medium with high reducing and nutrient capacity for the culture of fastidious anaerobic microorganisms.

Presentation	Type of packaging	Art. No.
500g		01-231-500




Selenite Broth

02-598

DIN / ISO

C € [V] [V]

Liquid medium used for the enrichment of *Salmonella* and *Shigella* from clinical specimens and other products according to ISO 6785, 6340 Standards.

Presentation	Type of packaging	Art. No.
500g		02-598-500
5x500ml		02-598BA05
20 tubes of 10ml		064-TA0138

Sodium Biselenite (additive)

100g		S001600100
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Selenite Cystine Broth

02-602

BAM / COMPF / ISO / USP

C €

Liquid medium used for the enrichment of *Salmonella* and *Shigella* from clinical specimens and other products according to ISO 6785, 6340 Standards.

Presentation	Type of packaging	Art. No.
500g		02-602-500
5x500ml		02-602BA05
20 tubes of 10ml		064-TA0163

Sodium Biselenite (additive)



100g		S001600100
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Shigella Broth

02-662

BAM / ISO



Liquid culture medium used for the selective enrichment of *Shigella spp.* according to ISO 21567 Standard.

Presentation	Type of packaging	Art. No.
500g		02-662-500
5x500ml		02-662BA05

SIM Medium

03-176

Differential medium for motility, H₂S production and indol formation.




Presentation	Type of packaging	Art. No.
500g		03-176-500
5x500ml		03-176BA05

Simmons Citrate Agar

01-177




AOAC / BAM / ISO / SMWW

Solid medium for verifying the citrate utilization by Enterobacteriaceae according to ISO Standards.

Presentation	Type of packaging	Art. No.
500g		01-177-500
5x500ml		01-177BA05
20 slanted agar tubes		064-TA0106

Skirrow Selective Medium

Selective medium for the isolation of *Campylobacter spp.* The medium can be prepared either from Blood Agar No. 2 (01-505) or Blood Agar Columbia (01-034) with the addition of supplements.

Presentation	Type of packaging	Art. No.
500g		01-505-500
500g		01-034-500
20 plates of 90mm Ø		064-PA0036

Campylobacter Growth Supplement

10 vials		06-128LY01
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Campylobacter Skirrow Selective Supplement

10 vials		06-132LY01
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→ Needs addition of blood.

Slanetz Bartley Agar

01-579

ISO

Differential selective medium for the detection and enumeration of enterococci according to ISO 7899-2 Standards.





Presentation	Type of packaging	Art. No.
500g		01-579-500
5x500ml		01-579BA05
30 plates of 55mm Ø		064-PF0004
TTC 1% Sterile Solution (additive)		
100ml		06-023-100

Sorbitol MacConkey Agar (SMAC Agar)

01-729

ISO

 Selective and differential solid medium for the detection of enterohaemorrhagic *Escherichia coli* (EHEC O157: H7) according to ISO 16654 Standard.


Presentation	Type of packaging	Art. No.
500g		01-729-500
5x500ml		01-729BA05
20 plates of 90mm Ø		064-PA3144
CT SMAC Selective Supplement		
10 vials		06-146LY01

Sporulating Agar

01-069

USP

This formulation is according to the Arret and Kirschbaum formulation, adopted by FDA, for the preparation of spore suspension for antibiotic assay.









Presentation	Type of packaging	Art. No.
500g		01-069-500

SPS Agar (Clostridium perfringens Selective Agar)

01-050

BAM

 Solid medium for detection of *Clostridium perfringens* and sulfite reducing Clostridia in foods.

Presentation	Type of packaging	Art. No.
500g		01-050-500
5x500ml		01-050BA05
20 plates of 90mm Ø		064-PA0073
30 plates of 55mm Ø		064-PF0002
10 flasks of 100ml		064-BA0027
20 tubes of 10ml		064-TA0110
20 tubes of 10ml double concentration		064-TA2161
20 tubes of 10ml with paraffine		064-TA2115

SS Agar (01-555)



→ See Salmonella Shigella Agar

Stuart Ringertz Transport Medium

03-454

C € (IVD)

Medium used for the maintenance and transport of pathogenic specimens or fastidious microorganisms from clinical or other origin.




Presentation	Type of packaging	Art. No.
500g		03-454-500
5x500ml		03-454BA05

TBA (Tryptone Bile Agar)

01-526

ISO

 Selective solid medium for the rapid enumeration of *Escherichia coli* in meat products and in water according to ISO Standards.

Presentation	Type of packaging	Art. No.
500g		01-526-500
5x500ml		01-526BA05
30 plates of 55mm Ø		064-PF0014

TBX Agar (01-619)




→ See Microinstant® Tryptone Bile Glucuronic Agar (TBX Agar)

TCBS Agar

01-567

AOAC / BAM / COMPF / ISO

 Solid medium for selective isolation of *Vibrio parahaemolyticus* according to ISO 8914 Standard.

Presentation	Type of packaging	Art. No.
500g		01-567-500
5x500ml		01-567BA05
20 plates of 90mm Ø		064-PA0029

Tergitol® 7 Agar (01-053)



→ See Chapman TTC Agar

Tetrathionate Bile Brilliant Green Broth

02-629

EP

 Liquid medium for the selective enrichment of *Salmonella* in the examination of pharmaceutical products.

Presentation	Type of packaging	Art. No.
500g		02-629-500*
5x500ml		02-629BA05

Novobiocin Selective Supplement (20mg)

10 vials		06-147LY01**
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→ *Needs addition of 20g/L of potassium tetrathionate.

→ **This supplement can be added to achieve more selectivity.

Tetrathionate Müller-Kauffmann Medium (02-335)

→ See Müller-Kauffmann Tetrathionate Medium

TGE Agar (Tryptone Glucose Extract Agar)

01-082

AOAC / BAM / COMPF / SMD / SMWW

Plate count medium for milk and dairy products, according to the Standard Methods for Dairy Products.

Presentation	Type of packaging	Art. No.
500g		01-082-500

Thayer-Martin Agar

→ See GC Agar Base (01-310)



Thioglycollate Broth

02-186

AOAC / COMPF / USP

C € (IVD)

Medium used for the cultivation of anaerobic pathogenic microorganisms from clinical specimens and in the sterility test for viscous or cloudy products.





Presentation	Type of packaging	Art. No.
500g		02-186-500
5x500ml		02-186BA05

Thioglycollate Fluid Medium

03-187


AOAC / BAM / EP / HP / USP

Fluid medium used for the sterility test according to Harmonised Pharmacopoeia and for the cultivation of microaerophilic and anaerobic organisms.

Presentation	Type of packaging	Art. No.
500g		03-187-500
5x500ml		03-187BA05
10 flasks of 100ml		064-BA1026
20 tubes of 9ml		064-TA0134

Thioglycollate Penase Fluid Medium



Liquid medium used as a diluent, for enrichment and for the control of the sterility of anaerobic bacteria in environments with penicillin.

Presentation	Type of packaging	Art. No.
10 flasks of 100ml		064-BA3059

Todd-Hewitt Broth

02-191

Liquid culture medium for the propagation of β -haemolytic streptococci and for studies about serologic typing.

Presentation	Type of packaging	Art. No.
500g		02-191-500
20 tubes of 10ml		064-TA0157

Triple Sugar Iron Agar (01-192)

→ See TSI (Triple Sugar Iron Agar)

Tryptic Soy Agar (01-200)

→ See TSA (Tryptic Soy Agar)

Tryptic Soy Broth (02-200)

→ See TSB (Tryptic Soy Broth)

Tryptone Bile Agar (01-526)

→ See TBA (Tryptone Bile Agar)

Tryptone Bile Glucuronic Agar (01-619)

→ See Microinstant® Tryptone Bile Glucuronic Agar (TBX Agar)

Tryptone Phosphate Water (02-277)







→ See Buffered Peptone Water

Tryptone Water

03-156

COMPF / ISO / SMWW

Substrate with low nutrient capacity, for the research of indol production in coliforms according to ISO Standards.

Presentation	Type of packaging	Art. No.
500g		03-156-500
5x500ml		03-156BA05
10 flasks of 100ml		064-BA1023
20 tubes of 10ml		064-TA0120
20 tubes of 9ml		064-TA0847
20 tubes of 9ml TLHTh		064-TA2155






→ TLHTh: Tween 80, Lecithin, Histidine, Thiosulfate.

Tryptone Yeast Extract Agar

01-590

ISO

Solid medium for the enumeration of microorganisms in water according to ISO 6222, 5667, 6887 and 8199 Standards.



Presentation	Type of packaging	Art. No.
500g		01-590-500
5x500ml		01-590BA05
30 plates of 55mm Ø		064-PF0013
10 flasks of 100ml		064-BA0013
20 tubes of 15ml		064-TA0013

Tryptophan Broth

02-418

ISO

Liquid medium for the production of indol according to ISO Standards.

Presentation	Type of packaging	Art. No.
500g		02-418-500
20 tubes of 9ml		064-TA0115

Tryptose Lauryl Sulfate Broth (02-108)

→ See Lauryl Sulfate Tryptose Broth

Tryptose Lauryl Sulfate

Mannitol Tryptophan Broth (02-460)

→ See Lauryl Sulfate Tryptose Mannitol Tryptophan Broth

Tryptose Lauryl Sulfate Modified Broth (mLST)



















→ See Lauryl Sulfate Modified Broth (mLST)

TSA (Tryptic Soy Agar)

01-200

BAM / COMPF / EP / HP / ISO / USP

General purpose solid medium containing animal and plant peptones according to Harmonised Pharmacopoeia methods and ISO Standards.

Presentation	Type of packaging	Art. No.
500g		01-200-500
5x500ml		01-200BA05
20 plates of 90mm Ø		064-PA0031
20 plates of 90mm Ø, irradiated, double packaging		064PA0031I
20 plates of 90mm Ø, irradiated, triple packaging		064-PA0138
20 plates of 90mm Ø, TLHTh, irradiated, triple packaging		064PA0075I
20 plates of 90mm Ø, TLHTh, irradiated, triple packaging		064-PA0139
30 plates of 55mm Ø		064-PF0026
30 contact plates, irradiated, double packaging		064-PR0004
30 contact plates TLHTh, irradiated, double packaging		064-PR0005
24 contact plates, irradiated, triple packaging		064-PR0038
24 contact plates, TLHTh, irradiated, triple packaging		064-PR0013
80 contact plates, irradiated, triple packaging		064PRB0038
80 contact plates, TLHTh, irradiated, triple packaging		064PRB0013
10 flasks of 200ml		064-BA6043
10 flasks of 100ml		064-BA1008
20 slanted agar tubes		064-TA0121
20 tubes of 15ml		064-TA0221

→ TLHTh: Tween 80, Lecithin, Histidine, Thiosulfate.

TSA β -Lactamase

General purpose medium with β -lactamase used for the isolation and culture of microorganisms in the environmental monitoring of clean rooms in the presence of residues of certain disinfectants and β -lactamic antibiotics.

Presentation	Type of packaging	Art. No.
20 plates of 90mm \emptyset , TLHTh, irradiated, triple packaging	☉	064-PA0055
24 contact plates, irradiated, triple packaging	☐☐☐	064-PR0136
24 contact plates, TLHTh, irradiated, triple packaging	☐☐☐	064-PR0050

→ TLHTh: Tween 80, Lecithin, Histidine, Thiosulfate.

TSA Lecithin & Polysorbate (Microbial Content Test)

01-613

APHA / COMPF / SMD

Solid medium for the sampling of surfaces of sanitary importance using the contact plates technique.

Presentation	Type of packaging	Art. No.
500g	☐	01-613-500
5x500ml	☐☐	01-613BA05

TSA Penase

General purpose solid medium used for the isolation and culture of microorganisms in the environmental monitoring in the presence of penicillins.

Presentation	Type of packaging	Art. No.
20 plates of 90mm \emptyset , irradiated, double packaging	☉	064-PA3136
20 plates of 90mm \emptyset , TLHTh, irradiated, double packaging	☉	064-PA6006
20 plates of 90mm \emptyset , TLHTh, irradiated, triple packaging	☉	064-PA608T
30 contact plates, irradiated, double packaging	☐☐☐	064-PR0028
30 contact plates, TLHTh, irradiated, double packaging	☐☐☐	064-PR0027
24 contact plates, irradiated, triple packaging	☐☐☐	064-PR0061
24 contact plates, TLHTh, irradiated, triple packaging	☐☐☐	064-PR0040
80 contact plates, irradiated, triple packaging	☐☐☐	064PRB0045
80 contact plates, TLHTh, irradiated, triple packaging	☐☐☐	064PRB0040

→ TLHTh: Tween 80, Lecithin, Histidine, Thiosulfate.

TSB (Tryptic Soy Broth)

02-200

AOAC / BAM / COMPF / EP / HP / ISO / USP

Highly nutrient liquid medium for the general purposes, formulated according to Harmonised Pharmacopoeia methods.

Presentation	Type of packaging	Art. No.
500g	☐	02-200-500
5x500ml	☐☐	02-200BA05
10 flasks of 100ml	☐	064-BA1012
10 flasks of 90ml	☐	OBA1012-90
20 tubes of 10ml	☐	064-TA0113
20 tubes of 9ml	☐	064-TA2147
3 bags of 3 litres	☐	064-BA03-3
2 bags of 5 litres	☐	064-BA03-5

TSB Irradiated (02-575)

02-575

HP / EP / ISO

General liquid medium, sterilized by gamma radiation, suitable for the media fill test in the pharmaceutical industry.

Presentation	Type of packaging	Art. No.
500g	☐	02-575-500

TSB Modified

02-691

BAM / ISO

Liquid medium for selective enrichment of enterohaemorrhagic *Escherichia coli* O157:H7 (EHEC) in food samples according to ISO 16654.

Presentation	Type of packaging	Art. No.
500g	☐	02-691-500
Novobiocine Selective Supplement (10mg)		
10 vials	☐	06-139LY01

TSB Penase Broth

Highly nutrient liquid medium for general purposes, formulated according to USP, FDA and European Pharmacopoeia Regulations.

Presentation	Type of packaging	Art. No.
10 flasks of 100ml	☐	064-BA3058

TSB without Dextrose

02-227

BAM

Liquid culture medium used for the production of spores of *G. stearothermophilus* for the inhibitory substances test in food according to FDA-BAM.

Presentation	Type of packaging	Art. No.
500g	☐	02-227-500
5x500ml	☐☐	02-227BA05

TSC (Tryptose Sulfite Cycloserine Agar)

01-278

BAM / COMPF / DIN / ISO

Selective solid and differential medium for the isolation and presumptive identification of *Clostridium perfringens* according to ISO 7937 Standard. Also according to ISO 6461 for the detection and enumeration of spores of sulfite-reducing anaerobic bacteria in water.

Presentation	Type of packaging	Art. No.
500g	☐	01-278-500
5x500ml	☐☐	01-278BA05
30 plates of 55mm \emptyset	☐☐☐	064-PF0018
10 flasks of 100ml (medium w/o supplement)	☐	064-BA6016

D-Cycloserine Selective Supplement (100mg)

10 vials	☐	06-116LY01
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→ If it is desired, include Egg Yolk Sterile Emulsion Art. No. 06-016-100 (80ml/l).

TSI (Triple Sugar Iron Agar)

01-192

AOAC / BAM / COMPF / DIN / EP / IDF / ISO / USP

Differential medium for the identification of Enterobacteriaceae, according to ISO Standards.

Presentation	Type of packaging	Art. No.
500g	☐	01-192-500
5x500ml	☐☐	01-192BA05
20 slanted agar tubes	☐	064-TA0177

TSN (Tryptone Sulfite Neomycin Agar)

01-195


Selective solid medium for the isolation of *Clostridium perfringens*.

Presentation	Type of packaging	Art. No.
500g	☐	01-195-500
5x500ml	☐☐	01-195BA05
20 plates of 90mm \emptyset	☉	064-PA6000
20 tubes of 9ml	☐	064-TA2156

Universal Beer Agar (UBA)

01-781

Base medium to which beer may be added for the cultivation of microbial contaminants in the brewing industry.




Presentation	Type of packaging	Art. No.
500g		01-781-500

Urea Agar


01-261

COMPF / DIN / IDF / ISO / SMD

Solid medium for the detection of urealysin, according to the formulation of Christensen, ISO and DIN Standards.

Presentation	Type of packaging	Art. No.
500g		01-261-500
5x500ml		01-261BA05
20 slanted agar tubes		064-TA0148


Urea 40% Sterile Solution (additive)

100ml		06-083-100
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Urea and Indol Broth

03-084

Medium for the identification of Enterobacteriaceae according to Ferguson-Stuart.




Presentation	Type of packaging	Art. No.
20 tubes of 2ml		064-TA0144

Urea Broth


02-202

BAM / COMPF

Diagnostic liquid medium according to the formula of Rustigian and Stuart.

Presentation	Type of packaging	Art. No.
500g		02-202-500
5x500ml		02-202BA05
20 tubes of 2ml		064-TA0107

Urea 40% Sterile Solution (additive)



100ml		06-083-100
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UVM Listeria Enrichment Broth


02-472

AOAC


Liquid culture medium for the enrichment of *Listeria spp.*

Presentation	Type of packaging	Art. No.
500g		02-472-500
5x500ml		02-472BA05

Listeria Selective Supplement for Primary Enrichment (UVM I)

10 vials		06-106LY01
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Listeria Selective Supplement for Secondary Enrichment (UVM II / Fraser)



10 vials		06-111LY01
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Vogel Johnson Agar


01-206

BAM / ISO / USP


Highly selective solid medium for isolation and identification of staphylococci according to ISO 22718 Standard.

Presentation	Type of packaging	Art. No.
500g		01-206-500
5x500ml		01-206BA05

Potassium Tellurite 1% Sterile Solution (additive)

100ml		06-089-100
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Potassium Tellurite 3,5% Sterile Solution (additive)








100ml		06-011-100
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VRB Agar (Violet Red Bile Agar)

01-164

APHA / COMPF / IDF-FIL / ISO

Solid medium for the detection and enumeration of coliforms in milk and other dairy products, according to APHA and ICMSF, FIL-IDF and ISO Standards.








Presentation	Type of packaging	Art. No.
500g		01-164-500
5x500ml		01-164BA05
20 plates of 90mm Ø		064-PA0049
30 contact plates, double packaging		064-PR0018
10 flasks of 200ml		064-BA6041
10 flasks of 100ml		064-BA0485
20 tubes of 15ml		064-TA0485

VRBD (Violet Red Bile Dextrose Agar)

01-295

EP / HP / ISO

Selective solid medium for the enumeration of Enterobacteriaceae, according to ISO 21528 Standard and Harmonised Pharmacopoeia methods.


Presentation	Type of packaging	Art. No.
500g		01-295-500
5x500ml		01-295BA05
20 plates of 90mm Ø		064-PA0046
30 contact plates, double packaging		064-PR0006
80 contact plates, double packaging		064PRB0093
10 flasks of 100ml		064-BA1011
20 tubes of 15ml		064-TA0147

VRBLD (Violet Red Bile Lactose Dextrose Agar)

01-220

EP



Selective solid medium for the detection of Enterobacteriaceae, according to European Pharmacopoeia.

Presentation	Type of packaging	Art. No.
500g		01-220-500

WL Nutrient Agar

01-210

Solid culture medium for the control and enumeration of yeast and bacteria for microbiological control in industrial fermentations, specially brewing.




Presentation	Type of packaging	Art. No.
500g		01-210-500
30 plates of 55mm Ø		064-PF6019

→ Add supplement Art. No. 06-022LY01, Cycloheximide Selective Supplement, to obtain WL Differential Agar.

Wort Agar

01-132

General solid medium for the culture of fungi.


Presentation	Type of packaging	Art. No.
500g		01-132-500
20 plates of 90mm Ø with TLH		064-PA0063
30 plates of 55mm Ø		064-PF0063

→ TLH: Tween 80, Lecithin, Histidine.

Wort Broth

02-132




Liquid medium for the massive production of yeast.

Presentation	Type of packaging	Art. No.
500g		02-132-500

XLD Agar (Xylose Lysine Deoxycholate Agar)

01-211
AOAC / BAM / COMPF / EP / HP / ISO / USP




Solid culture medium for the isolation of enteropathogenic species, specially *Salmonella* and *Shigella* according to Phramacopoeia Harmonised method and ISO 6340 Standard.

Presentation	Type of packaging	Art. No.
500g		01-211-500
5x500ml		01-211BA05
20 plates of 90mm Ø		064-PA0034

XLD Modified Agar (Xylose Lysine Deoxycholate Modified Agar)

01-552
AOAC / BAM / COMPF / ISO



Solid culture medium for isolation of enteropathogenic species, specially *Salmonella* and *Shigella* in food and animal feeding stuffs, according to ISO 6579 and 21567 Standards.

Presentation	Type of packaging	Art. No.
500g		01-552-500
5x500ml		01-552BA05
20 plates of 90mm Ø		064-PA1035

XLT4 Agar Base

01-708

Selective and differential culture medium used for the isolation of *Salmonella* spp. except *S. typhi* and *S. paratyphi* in food, clinical and environmental samples.

Presentation	Type of packaging	Art. No.
500g		01-708-500
20 plates of 90mm Ø		064-PA0003


XLT4 Selective Supplement

100ml		06-709-100
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Yeast and Malt Extract Agar (YM Agar)

01-219


Solid medium for the culture of fungi and actinomycetes.

Presentation	Type of packaging	Art. No.
500g		01-219-500

Yeast and Malt Extract Broth (YM Broth)

02-219


Liquid medium for the culture of fungi and actinomycetes.

Presentation	Type of packaging	Art. No.
500g		02-219-500

Yeast Extract Peptone Dextrose Broth (YEPD Broth)

02-473

Liquid medium for the culture of yeasts in molecular biology procedures.

Presentation	Type of packaging	Art. No.
500g		02-473-500




YEPD Broth (02-473)

→ See Yeast Extract Peptone Dextrose Broth (YEPD Broth)

Yersinia CIN Agar Base

01-444
BAM / ISO

Solid differential medium used for the selective isolation of *Yersinia* spp. from highly polluted samples, according to ISO 10273 Standard.

Presentation	Type of packaging	Art. No.
500g		01-444-500
5x500ml		01-444BA05
20 plates of 90mm Ø		064-PA3150

Yersinia Selective Supplement

10 vials		06-143LY01
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YGC (01-366)

→ See CGA (Chloramphenicol Glucose Agar)

YSG Agar (Yeast Starch Glucose Agar)

01-673
IFU

Solid medium for detection and isolation of *Alicyclobacillus* in juices, fruits and other acidic foods, according to IFU Standard Method No. 12.


Presentation	Type of packaging	Art. No.
500g		01-673-500
5x500ml		01-673BA05

→ After autoclaving adjust the pH to 3,7 ±0,2 by adding 1N HCl.

YSG Broth (Yeast Starch Glucose Broth)

02-673
IFU

Liquid medium for detection and enrichment of *Alicyclobacillus* in juices, fruits and other acidic foods, according to IFU Standard Method No. 12.

Presentation	Type of packaging	Art. No.
500g		02-673-500

→ After autoclaving adjust the pH to 3,7 ±0,2 by adding 1N HCl.

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INGREDIENTS AND CHEMICAL PRODUCTS FOR MICROBIOLOGY


Description	Pack (u.)	Art. No.
Agar Bacteriological	500g	07-004-500
Ammonium chloride, reagent grade	500g	AM02730500
D(-)-Arabinose, for bacteriology	5g	AR00500005
L-Arginine extra pure	50g	AR01250050
L-Asparagine	25g	AS00150025
Beef Extract	500g	07-515-500
Bile	500g	07-039-500
Bile salts No. 3	500g	07-525-500
Buffer solution pH = 4,00	250ml	SO10040250
Buffer solution pH = 7,00	250ml	SO10070250
Casein acid hydrolysate	500g	07-151-500
L-Cysteine hydrochloride anhydrous, extra pure	25g	CI03050025
Ethanol 96% v/v, Multisolvent®	1 litre	ET00131000
Ethanol absolute, synthesis grade	1 litre	ET00021000
D(-)-Fructose, extra pure	500g	LE00700500
Fuchsin basic, C.I. 42510,	25g	FU00600025
Gelatin pancreatic peptone	500g	07-153-500
Gelatine powder, for analysis and bacteriology	250g	GE00200250
D-Glucose (Dextrose)	500g	GL01250500
Glycerol, 99,5%	1 litre	GL00261000
L-Histidine hydrochloride monohydrate, extra pure, European Pharmacopoeia	25g	HI04050025
Hydrochloric acid, solution 0,1 mol/L (0,1 N)	1 litre	AC07461000
Hydrochloric acid, solution 1 mol/L (1 N)	1 litre	AC07441000
Hydrogen peroxide, 30% w/w, extra pure	1 litre	HI01351000
Iron(III) chloride hexahydrate, extra pure	500g	HI03360500

Description	Pack (u.)	Art. No.
L-Isoleucine, extra pure	25g	IS01400025
Immersion oil, for microscopy	100ml	AC00310100
Lactalbumin hydrolysate	500g	07-455-500
D(+)-Lactose monohydrate	500g	LA00600500
L-Leucine, extra pure, European Pharmacopoeia, USP	25g	LE00550025
Lecithin	500g	07-342-500
L-Lysine monohydrochloride, synthesis grade	1kg	LI00351000
Malt extract	500g	07-080-500
Maltose	100g	MA01000100
Maltose	500g	MA01000500
D(-)-Mannitol, reagent grade	500g	MA01500500
D(+)-Mannose, for biochemistry	10g	MA01600010
Meat extract	500g	07-075-500
Meat peptone	500g	07-152-500
L-Ornithine hydrochloride, extra pure	25g	OR00550025
Potato peptone	500g	07-620-500
Potassium iodide, reagent grade, ACS, ISO	250g	PO04100250
Proteose peptone No. 3	500g	07-625-500
D(+)-Raffinose pentahydrate, for biology	25g	RA00250025
D(-)-Ribose, extra pure	5g	RI00250005
Rosolic acid, C.I. 43800, indicator, for microscopy	10g	AC19900010
D(+)-Saccharose, extra pure	500g	SA00200500
D-Salicin, for biochemistry	25g	SA02000025
L-Serine, extra pure	10g	SE01050010
Skimmed milk, powder	500g	06-019-500
Sodium deoxycholate	100g	SO02570100
Sodium deoxycholate	500g	SO02570500
Sodium L- glutamate monohydrate, extra pure	500g	SO04000500
Sodium pyruvate	100g	SO05900100
Sodium pyruvate	500g	SO05900500
D(-)-Sorbitol, extra pure	250g	SO08500250
Soy peptone	500g	07-155-500
D-Trehalose, for bacteriology	5g	TR00300005
Triton® X-100, extra pure	1 litre	TR04441000
Tryptone - Casein Pancreatic Peptone (industrial fermentation processes)	500g	07-154-500
Tryptone - Casein Trypsic Peptone (culture media preparation)	500g	07-119-500
Tryptone - Peptone from Casein according to USP specifications (culture media preparation)	500g	07-489-500
L-Tryptophan, extra pure	25g	TR04000025
Tryptose	500g	07-197-500
L-Tyrosine, extra pure	100g	TI03250100
L-Valine, extra pure	25g	VA00550025
D(+)-Xylose, extra pure	100g	XI00800100
Yeast extract	500g	07-079-500
Zinc, powder, extra pure	500g	CI01450500

Chemicals for microbiology in CHEMICALS


ADDITIVES FOR CULTURE MEDIA



Basic Fuchsin Solution 2,5%

Additive with alcohol base, indicated to supplement media Endo Agar Base (01-589) to confirm the detection of and to count coliform bacteria in water samples.

Description	Presentation	Art. No.
Basic Fuchsin sol. 2,5%	100ml	064-BA8020

Egg's Yolk sterile Emulsion

Additive used in culture media for detecting lecithinase in species such as *Bacillus*, *Clostridium*, and *Staphylococcus*. Added as an additive to the media: *Bacillus cereus* Agar Base (MYPA) Art. No. 01-262, *Bacillus cereus* Selective Agar Base (PEMBA Agar) Art. No. 01-487, and Tryptose Sulfite Cycloserine Agar Base (TSC Agar) Art. No. 01-278.

Description	Presentation	Art. No.
Egg's Yolk Sterile Emulsion	100ml	06-016-100

Egg's Yolk Tellurite sterile Emulsion

Additive specially formulated to be added to the Baird-Parker Agar Base Art. No. 01-030.

Description	Presentation	Art. No.
Egg's Yolk Tellurite Sterile Emulsion	100ml	064-BA1018

Fermentable carbohydrates

Fermentable sugars and substrates to be added to base media in studies of fermentation or to complete culture media formulations.

Description	Presentation	Art. No.
Dextrose (D-(+)-Glucose)	500g	GL01250500
Lactose	500g	LA00600500
Maltose	500g	MA01000500
Mannitol	500g	MA01500500
Sucrose (D-(+)-Saccharose)	500g	SA00250025

Iodine Potassium-Iodide Solution

Additive for the Müller-Kauffmann Broth Base Art. No. 02-335. Its components and solution come ready prepared. It should be added to the medium before being used so that the mixture is as fresh as possible.

Description	Presentation	Art. No.
Iodine-iodide solution	50ml	064-V11108
Potassium iodide	250g	PO04100250
Iodine	100g	YO00210100

Polysorbate 80 (Polyoxyethylene Sorbitan Monooleate)

Additive for culture media whose role is sometimes as a nutrient and in other cases as emulsifier.

Description	Presentation	Art. No.
Polysorbate 80	100ml	TW00800100
Polysorbate 80	1 litre	TW00801000

Potassium Tellurite Sterile solution

Additive for selective media for *Staphylococcus*, *Corynebacterium*, *Streptococcus* and *Vibrio*. Its function is to prevent the growth of most gram-negative and those gram-positive incapable of reducing tellurite. Added to media such as Giolitti Cantoni Broth Art. No. 02-230 and Vogel-Johnson Agar Art. No. 01-206.

Description	Presentation	Art. No.
Potassium tellurite sol. 1%	100ml	06-089-100
Potassium tellurite sol. 3,5%	100ml	06-011-100

Rosolic acid solution 1%

Additive with alcohol base, indicated to supplement media m-FC Agar (01-287).

Description	Presentation	Art. No.
Rosolic Acid sol. 1%	100ml	064-BA8005

Skimmed milk

Bacteriology grade. Can be used alone or as an additive in media for the culture of lactic acid bacteria and identification of microorganisms able to coagulate or peptonise milk. Can be added to media such as TSA Art. No. 01-200 and Nutrient Agar Art. No. 01-144 to detect caseolytic activity.

Description	Presentation	Art. No.
Skimmed milk powder	500g	06-019-500

Sodium Biselenite

Suitable for incorporation in the following media: Selenite Cystine Broth Base Art. No. 02-602 and Selenite Broth Base Art. No. 02-598.

Description	Presentation	Art. No.
Sodium biselenite	100g	S001600100

TTC (Tryphenyl-tetrazolium chloride) 1%, sterile solution

Used as an additive in culture media to indicate biological activity, as the colourless form is reduced to an insoluble red pigment, tryphenyl formazan, which is easily visible. This product is added in particular to: Chapman TTC Agar Base Art. No. 01-053, KF Agar Art. No. 01-294.

Description	Presentation	Art. No.
TTC sterile solution 1%	100ml	06-023-100

Urea, Sterile solution 40%

Urea solution sterilised by filtration suitable for incorporation into culture media, specially Urea Agar Art. No. 01-261 and Urea Broth Art. No. 02-202.

Description	Presentation	Art. No.
Urea, sterile solution 40%	100ml	06-083-100

Vaseline, Sterile

Liquid solution that is added to certain media to reach anaerobic conditions. It is specially recommended for addition to tubes with OF Medium Art. No. 03-037.

Description	Presentation	Art. No.
Vaseline, sterile	100ml	06-077-100

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SELECTIVE SUPPLEMENTS



Supplements - freeze dried

By means of the freeze-drying technique we can assure a standardised quality that will yield reliable results without any loss in performance of the selective medium. The freeze-dried solid presentation dissolves easily and quickly.

Screw cap for easy and safe handling

The standard closure offered by other manufactures, which consists of a rubber septum with an outer aluminium cap may lead to undesirable accidents. Its removal requires a tool, takes some time and may cause injuries.

For this reason, we offer our vials with a screw cap a much safer, faster and easier to open alternative.

You may directly remove the septum from the freeze-dried supplement or alternatively you may use a syringe, perforate our septum with a needle and that way transfer the solvent to the supplement vial.

Supplements

Our standard vials contain sufficient 500ml of prepared medium. Each box contains 10 vials of supplement except for some references.

Shelf life and storage

Products can be stored at a wide temperature range between 2° to 25°C. Shelf life is between 3 and 4 years depending on the product.

For further information, please contact scharlab@scharlab.com

Ready-to-use broth & diluents in Flexibags

Suitable presentation
for gravimetric dilutors



- Safe packaging
- Avoid time consuming preparation

Supplement	Art. No.	Microorganisms	Presentation
Ampicillin Selective Supplement	06-126LY01	<i>Aeromonas</i>	Box with 10 vials
Brilliant Green + Novobiocin Selective Supplement	06-017LY01	<i>Salmonella</i>	Box with 10 vials
Campylobacter Bolton Selective Supplement	06-131LY01	<i>Campylobacter</i>	Box with 10 vials
Campylobacter CCDA Selective Supplement	06-133LY01	<i>Campylobacter</i>	Box with 10 vials
Campylobacter Growth Supplement	06-128LY01	<i>Campylobacter</i>	Box with 10 vials
Campylobacter Preston Modified Selective Supplement	06-135LY01	<i>Campylobacter</i>	Box with 10 vials
Campylobacter Preston Selective Supplement	06-130LY01	<i>Campylobacter</i>	Box with 10 vials
Campylobacter Skirrow Selective Supplement	06-132LY01	<i>Campylobacter</i>	Box with 10 vials
CFC Pseudomonas Selective Supplement	06-726LY01	<i>Pseudomonas</i>	Box with 10 vials
Chloramphenicol Selective Supplement (25mg)	06-118LY01	Yeasts and moulds	Box with 10 vials
CN Pseudomonas Selective Supplement	06-742LY01	<i>Pseudomonas</i>	Box with 10 vials
Coliform CV Selective Supplement	06-140LY01	Coliform / <i>E. coli</i>	Box with 10 vials
m-CP Selective Supplement	06-125LY01	<i>Clostridium</i>	Box with 10 vials
CP Selective Supplement for Gram-positive Cocci (CNA)	06-013LY01	Staphylococci / Streptococci (Gram-positive cocci)	Box with 10 vials
CT SMAC Selective Supplement	06-146LY01	<i>E. coli</i> O157:H7	Box with 10 vials
Cycloheximide Selective Supplement	06-022LY01	Fermenting microorganisms	Box with 10 vials
D-Cycloserine Selective Supplement (250ml of medium)	06-116LY01	<i>Clostridium</i>	Box with 10 vials
Ferric Ammonium Citrate Supplement (250mg)	06-112LY01	<i>Listeria</i>	Box with 10 vials
Ferric Ammonium Citrate Supplement (312mg)	06-113LY01	<i>Clostridium</i>	Box with 10 vials
GPS - Growth Promotion Supplement	06-144LY01	<i>Neisseria</i>	Box with 5 + 5 vials of solvent Glucose is included in the diluent vial
Legionella BCYE Growth Supplement	06-137LY01	<i>Legionella</i>	Box with 5 + 5 vials of solvent
Legionella BCYE without Cysteine NO Growth Supplement	06-134LY01	<i>Legionella</i>	Box with 5 + 5 vials of solvent
Legionella GVPC Selective Supplement	06-138LY01	<i>Legionella</i>	Box with 10 vials

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Composition per vial	Base	Directive, Standard
2,5mg of Ampicillin	Blood Agar Base (Art. No. 01-352) Blood Agar Base (Columbia) (Art. No. 01-034)	
5mg of Brilliant green 20mg of Novobiocin	Müller-Kauffmann Tetrathionate Broth (Art. No. 02-335)	DIN, ISO
10mg of Vancomycin 10mg of Cefoperazone 10mg of Trimethoprim 5mg of Anphotericine B sulfate	Bolton Enrichment Broth Base (Art. No. 02-688)	ISO
16mg of Cefoperazone 5mg of Anphotericine B sulfate	Charcoal Cefoperazone Deoxycholate (CCD) Modified Agar Base (Art. No. 01-685)	ISO
0,125 g of Sodium pyruvate 0,125 g of Sodium metabisulfite 0,125 g of Ferrous sulfate	Preston Campylobacter Agar Base (Art. No. 01-451) Preston Campylobacter Broth Base (Art. No. 02-561) Skirrow Selective Medium: with Blood Agar Base (Art. No. 01-352) or Blood Agar Base (Columbia) (Art. No. 01-034)	
2.500 IU of Polymyxin B sulfate 5mg of Rifampicin 5mg of Trimethoprim 5mg of Anphotericine B sulfate	Preston Campylobacter Agar Base (Art. No. 01-451) Preston Campylobacter Broth Base (Art. No. 02-561)	
2.500 IU of Polymyxin B sulfate 5mg of Rifampicin 5mg of Trimethoprim 50mg of Cycloheximide	Preston Campylobacter Agar Base (Art. No. 01-451) Preston Campylobacter Broth Base (Art. No. 02-561)	
5mg of Vancomycin 2,5mg of Trimethoprim 1.250 IU of Polymyxin B sulfate	Blood Agar Base (Columbia) (Art. No. 01-034) Blood Agar Base No. 2 (Art. No. 01-505)	
5,0mg Cetrimide 5,0mg Fucidin 25,0mg Cephalosporin	Pseudomonas Agar Base (Art. No. 01-728)	EN / ISO
25mg of Chloramphenicol	Sabouraud Dextrose Agar (Art. No. 01-165)	EP, ISO, USP
100,0mg Cetrimide 7,5mg Nalidixic Acid, sodium salt	Pseudomonas Agar Base (Art. No. 01-728)	EN / ISO
2,5mg of Cefsulodin 2,5mg of Vancomycin	Colinstant Agar (Art. No. 01-618) Chromogenic Coliform Agar (CCA Agar) (Art. No. 01-695)	Spanish Ministry of Health
200mg of D-Cycloserine 12,5mg of Polymyxin B sulfate 30mg of 3-indoxyl-β-D-glucopyranoside 50mg of Phenolphthalein bi-phosphate 45mg of Iron III chloride	m-CP Agar Base (Art. No. 01-513)	Directive 12767/97
5mg of Colistin sulfate 7,5mg of Nalidixic acid	Blood Agar Base (Art. No. 01-352) Blood Agar Base (Columbia) (Art. No. 01-034)	
1,25mg Potassium tellurite 0,025mg Cefixime	MacConkey Sorbitol Agar (Art. No. 01-729)	ISO
2mg of Cycloheximide	WL Nutrient Agar (Art. No. 01-210)	
100mg of D-Cycloserine	Tryptose Sulfite Cycloserine Agar (TSC Agar) (Art. No. 01-278)	BAM, COMPF, DIN, ISO
250mg of Ammonium ferric citrate	Listeria Enrichment Broth Base (Fraser) (Art. No. 02-496)	ISO
312mg of Ferric ammonium citrate	Lactose Sulfite Broth Base (Art. No. 02-519)	EP, ISO
0,1mg of Vitamin B12 100mg of L-glutamine 10mg of Adenine SO ₄ 0,3mg of Guanine HCl 0,13mg of p-Aminobenzoic acid 11mg of L-cystine 2,5mg of NAD 1mg of Cocarboxylase 0,2mg of Ferric nitrate 0,03mg of Vitamin B1 (Thiamine HCl) 259mg of Cysteine HCl 1 g of Glucose*	GC Agar Base (Art. No. 01-310)	
3,6 g of ACES Buffer 1,4 g of Potassium hydroxid 0,125 g of Ferric pyrophosphate 0,200mg of L-cysteine HCl	BCYE Legionella Agar Base (Art. No. 01-687)	ISO
3,6 g of ACES Buffer 1,4 g of Potassium hydroxid 0,125 g of Ferric pyrophosphate	BCYE Legionella Agar Base (Art. No. 01-687)	ISO
0,5mg of Vancomycin 40.000 IU of Polymyxin B sulfate 40mg of Cycloheximide 1,5 g of Glycine (ammonia free)	BCYE Legionella Agar Base (Art. No. 01-687)	ISO

For further information, please contact scharlab@scharlab.com

Supplement	Art. No.	Microorganisms	Presentation
Listeria Selective Supplement for Enrichment (FDA and IDF/FIL)	06-107LY01	<i>Listeria</i>	Box with 10 vials
Listeria Selective Supplement for Primary Enrichment (UVM I)	06-106LY01	<i>Listeria</i>	Box with 10 vials
Listeria Selective Supplement for Primary Enrichment Half Fraser (Each vial supplements 225ml of medium)	06-136LY01	<i>Listeria</i>	Box with 10 vials
Listeria Selective Supplement for Primary Enrichment Half Fraser (Each vial supplements 500ml of medium)	06-145LY01	<i>Listeria</i>	Box with 10 vials
Listeria Selective Supplement for Secondary Enrichment (UVM II / Fraser)	06-111LY01	<i>Listeria</i>	Box with 10 vials
Listeria Selective Supplement for Secondary Enrichment (UVM II / Fraser) with Ferric Ammonium Citrate (250mg)	06-790LY01	<i>Listeria</i>	Box with 10 vials
Microinstant® Listeria Enrichment Supplement	06-754-024	<i>Listeria</i>	Box with 10 vials
Microinstant® Listeria Selective Supplement	06-755LY01	<i>Listeria</i>	Box with 10 vials
MUG Fluorescent Supplement	06-102LY01	Coliform	Box with 10 vials
Nalidixic Acid Selective Supplement	06-124LY01	<i>Pseudomonas</i>	Box with 10 vials
Novobiocin Selective Supplement (10mg)	06-139LY01	<i>Salmonella</i> <i>E. coli</i> O157:H7	Box with 10 vials
Novobiocin Selective Supplement (20mg)	06-147LY01	<i>Salmonella</i>	Box with 10 vials
Oxford Agar Selective Supplement	06-127LY01	<i>Listeria</i>	Box with 10 vials
Oxytetracycline Selective Supplement	06-115LY01	Yeasts and Moulds	Box with 10 vials
Palcam Agar Selective Supplement	06-110LY01	<i>Listeria</i>	Box with 10 vials
Polymyxin B sulfate Selective Supplement	06-021LY01	<i>Bacillus cereus</i>	Box with 10 vials
RPF Supplement (Each vial supplements 100ml of medium)	064-TA0155	Staphylococci (Coagulase positive)	Box with 10 vials
Sodium Disulfite (Sodium Meta-Bisulfite) for Bacteriology	06-114LY01	<i>Clostridium</i>	Box with 10 vials
Vancomycin Selective Supplement (5mg)	06-712LY01	<i>Cronobacter Sakazakii</i>	Box with 10 vials
VCAT Selective Supplement	06-141LY01	<i>Neisseria</i>	Box with 10 vials
VCNT Selective Supplement	06-142LY01	<i>Neisseria</i>	Box with 10 vials
XLT4 Selective Supplement	06-709-100	<i>Salmonella</i>	Flask of 100ml
Yersinia Selective Supplement	06-143LY01	<i>Yersinia</i>	Box with 10 vials

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Composition per vial	Base	Directive, Standard
20mg of Nalidixic acid, sodium salt 25mg of Cycloheximide 7,5mg of Acriflavine	Listeria Enrichment Broth Base (Lovett) (Art. No. 02-498)	BAM, IDF
10mg of Nalidixic acid, sodium salt 6mg of Acriflavine	Listeria Enrichment Broth Base (UVM) (Art. No. 02-472)	AOAC
2,25mg of Nalidixic acid, sodium salt 2,80mg of Acriflavine 112,5mg of Ammonium ferric citrate	Listeria Enrichment Broth Base (Fraser) (Art. No. 02-496)	ISO
5mg of Nalidixic acid, sodium salt 6,2mg of Acriflavine 250mg of Ammonium ferric citrate	Listeria Enrichment Broth Base (Fraser) (Art. No. 02-496)	ISO
10mg of Nalidixic acid, sodium salt 12,5mg of Acriflavine	Listeria Enrichment Broth Base (Fraser) (Art. No. 02-496) Listeria Enrichment Broth Base (UVM) (Art. No. 02-472)	ISO AOAC
10mg of Nalidixic acid, sodium salt 12,5mg of Acriflavine 250mg of Ferric Ammonium Citrate	Listeria Enrichment Broth Base (Fraser) (Art. No. 02-496)	ISO AOAC
1,0g L- α -phosphatidylinositol 24ml distilled water	Microinstant® Chromogenic Listeria Agar according to Ottaviani & Agosti (01-719)	ISO, BAM
38350 IU Polymyxin B 0,025g Cycloheximide 0,010g Cefotaxime 0,010g Nalidixic Acid	Microinstant® Chromogenic Listeria Agar according to Ottaviani & Agosti (01-719)	ISO, BAM
50mg of MUG (4-methylumbeliferil- β -D glucuronide)	Brilliant Green Bile 2% Broth (Art. No. 02-041) E. coli Broth (Art. No. 02-060) Lactose Broth (Art. No. 02-105) MacConkey Agar (Art. No. 01-118) MacConkey Broth (Art. No. 02-118) MacConkey Broth (European Pharmacopoeia) (Art. No. 02-611) Tryptose lauryl sulfate Broth (Art. No. 02-108) Violet Red Bile Agar (VRB Agar) (Art. No. 01-164) Violet Red Bile Lactose Dextrose Agar (European Pharmacopoeia Medium F) (Art. No. 01-220)	
7,5mg of Nalidixic acid, sodium salt	CN Selective Agar Base (Art. No. 01-609)	EN, ISO
10mg of Novobiocin, sodium salt	Rappaport Vassiliadis Modified Semi-solid Medium Base (Art. No. 03-376) Tryptic Soy Broth Modified (Art. No. 02-691)	BAM, ISO
20mg of Novobiocin, sodium salt	Tetrathionate Bile Brilliant Green Broth Base (European Pharmacopoeia) (Art. No. 02-629)	EP
5mg of Fosfomicin 1mg of Sodium cefotetan 10mg of Colistin sulfate 200mg of Cycloheximide 2,5mg of Acriflavine	Oxford Agar Base (Art. No. 01-471)	ISO
50mg of Oxytetracycline HCl	Sabouraud Oxytetracycline Agar Base (OGYEA) (Art. No. 01-275)	EP, ISO, USP
5mg of Polymyxin B sulfate 10mg of Sodium ceftazidime 2,5mg of Acriflavine	Palcam Agar Base (01-470)	ISO
50.000 IU of Polymyxin B sulfate	Bacillus cereus Agar Base (MYPA) (Art. No. 01-262) Bacillus cereus Selective Agar Base (PEMBA) (Art. No. 01-487)	BAM, COMPF, IDF, ISO ISO, NMLK
2,5ml of Rabbit Plasma - EDTA 0,5 g of Bovine Fibrinogen 2,5mg of Trypsin Inhibitor 2,5mg of Potassium Tellurite	Baird Parker Agar (Art. No. 01-030)	ISO
375mg of Di-sodium sulfite	Lactose Sulfite Broth Base (Art. No. 02-519)	EP, ISO
5mg of Vancomycin	Tryptose Lauryl Sulfate Modified Broth Base (mLST) (Art. No. 02-711)	ISO
1mg of Vancomycin 3,75mg of Colistin sulfate 1,5mg of Trimethoprim 0,5mg of Anphotericine B	GC Agar Base (Art. No. 01-310)	
1,5mg of Vancomycin 3,75mg of Colistin sulfate 2,5mg of Trimethoprim 6.250 IU of Nystatin	GC Agar Base (Art. No. 01-310)	
100ml of Tergitol® 4	XLT4 Agar (Art. No. 01-708)	
7,5mg of Cefsulodin 2mg of Irgasan® 1,25mg of Novobiocin	Yersinia CIN AgaR Base (Art. No. 01-444)	ISO

For further information, please contact scharlab@scharlab.com

CHROMOGENIC CULTURE MEDIA: MICROINSTANT®





Microinstant® Chromogenic Coliform Agar (CCA)

01-695

Chromogenic selective culture medium used for the detection and enumeration of coliforms and *Escherichia coli* in water samples. The base medium CCA can be supplemented with Coliform CV Selective Supplement (cefsulodin and vancomycin) to achieve more selectivity in contaminated water samples. Complete medium is compatible with a variety of different membrane brands obtaining great results and recoveries. CCA is formulated according to an alternative method proposed by the Spanish Authorities for the analysis of drinking water.

The principle is based on the activity of two enzymes:
β-D-Glucuronidase (β-Glu)
β-D-Galactosidase (β-Gal)

The selectivity of the medium is partially got by the Tergitol® 7, which inhibits the growth of gram positive bacteria and some negative ones without negative effect on the coliform bacteria. But the genuine selectivity is achieved by the addition of the Coliform CV Selective Supplement, as Cefsulodin acts against *Pseudomonas* and other gram negative oxidase positive bacteria and Vancomycin inhibits the growth of enterococci and other gram positive bacteria. After an incubation of 18-24 hours at 36 ±2°C, *Escherichia coli* appears deep blue to violet, while coliforms are salmon-rose to red. Other gram negatives show no colour.

Presentation	Type of packaging	Art. No.
500g		01-695-500
5x500ml		01-695BA05
30 plates of 55mm Ø		064-PF1015
Coliform CV Selective Supplement		
10 vials		06-140LY01

Microinstant® Chromogenic Coliform Agar, ISO (CCA ISO)




01-797

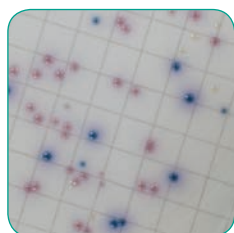
ISO

Chromogenic selective culture medium used for the direct identification of *Escherichia coli* and coliforms in water and food samples. The medium can be used by the membrane filtration technique.

The principle is based on the activity of two enzymes:
β-D-Glucuronidase (β-Glu)
β-D-Galactosidase (β-Gal)

The selectivity of the medium is achieved by the Tergitol® 7, which inhibits the growth of gram positive bacteria and some negative ones without negative effect on the coliform bacteria. After an incubation of 18-24 hours at 36 ±2°C, *Escherichia coli* appears deep blue to violet, while coliforms are salmon-rose to red. Other gram negatives show no colour.

Presentation	Type of packaging	Art. No.
500g		01-797-500
5x500ml		01-797BA05
30 plates of 55mm Ø		064-PF6020



Violet-blue colonies: *Escherichia coli*;
Salmon red colonies: Coliform;
Colourless colonies: All other gram-negative bacteria




Microinstant® Chromogenic Colinstant Agar

01-618

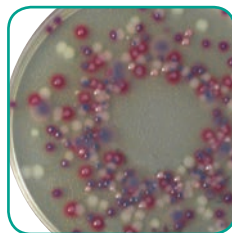
Differential and selective chromogenic culture medium used for the detection and enumeration of total coliforms and *Escherichia coli* in water and food samples.

The principle is based on the activity of two enzymes:
β-D-Glucuronidase (β-Glu)
β-D-Galactosidase (β-Gal)

This formula presents high inhibition of the accompanying gram-positive flora due to the addition of bile salts instead of Tergitol® 7. After an incubation of 24 hours at 36 ±2°C, *Escherichia coli* appears deep blue to violet, while coliforms are salmon-rose to red. Other Enterobacteriaceae show no colour.

Presentation	Type of packaging	Art. No.
500g		01-618-500
5x500ml		01-618BA05
20 plates of 90mm Ø		064-PA6015

→ In waste water samples it is necessary to add selective substances like Coliform CV Selective Supplement, Art. No. 06-140LY01.



Violet-blue colonies: *Escherichia coli*;
Salmon red colonies: Coliform;
Colourless colonies: All other gram-negative bacteria

Microinstant® Coliforms Presence / Absence Broth


Chromogenic and fluorogenic dehydrated medium, which is rehydrated with the sample itself and that is used for the detection of coliform bacteria in water samples.

It combines β-D-glucuronidase and β-D-galactosidase enzymes activity and the indol test in a single medium. This principle allows the simple and direct detection of the presence and absence of the total coliforms and *Escherichia coli* of the sample.

Instructions:

100ml of sample should be add in the medium recipient. Then, incubate the mixture for 18-24 hours at 35-37°C.

Total coliforms turn the medium into green colour. *Escherichia coli* emits fluorescence under UV light and appears positive in the indol test*.

Presentation	Type of packaging	Art. No.
10 flasks of 100ml		064-BACOLI

→ *For the test of indol add 2-3ml of Kovac's Reagent (6-018-100).



Left: Coliform;
Center: No Coliform;
Right: *Escherichia coli*

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Microinstant® Listeria Chromogenic Agar according to Ottaviani & Agosti

01-719

ISO

Chromogenic culture media used for the detection and isolation of *Listeria spp.* and *Listeria monocytogenes* according to Ottaviani & Agosti formula and ISO 11290 Standards.

The selectivity is achieved by the high concentration of lithium chloride and the mixture of antimicrobics.

The principle is based on the activity of two enzymes: β -Glucosidase, present in all *Listeria spp.*

Phospholipase C, present only in *Listeria monocytogenes* and some strains of *Listeria ivanovii*.

After incubation of 18-24 hours at 37°C suspected *Listeria monocytogenes* produces blue-green colonies surrounded by an opaque zone in front the other *Listeria* species that growth with blue-green colonies without any halo.

Presentation	Type of packaging	Art. No.
500g		01-719-500
5x500ml		01-719BA05
20 plates of 90mm Ø		064-PA0084
Microinstant® Listeria Enrichment Supplement		
10 vials		06-754-024
Microinstant® Listeria Selective Supplement		
10 vials		06-755LY01

Microinstant® Sakazakii Chromogenic Agar

01-744

ISO / FIL-IDF

Selective and differential chromogenic medium used for the isolation and presumptive identification of *Cronobacter sakazakii*.

Cronobacter produces β -glucosidase, which hydrolyses 5-bromo-4-chloro-3 indolyl- β -glucopyranoside and releases the colored fraction of the substrate. That results in blue-green colonies after incubation of 24 hours at 44°C, which allow differentiating these bacteria from other Enterobacteriaceae present in the sample. Deoxycholate and crystal violet in the culture medium inhibits the growth of gram-positive bacteria

Presentation	Type of packaging	Art. No.
500g		01-744-500
5x500ml		01-744BA05
20 plates of 90mm Ø		064-PA0146



Cronobacter sakazakii ATCC 51329

Microinstant® Tryptone Bile Glucuronic Agar (TBX Agar)

01-619

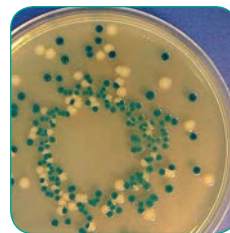
ISO / SL

Differential and selective chromogenic medium that allows the direct detection and enumeration of *Escherichia coli* β -glucuronidase positive in water and food samples according to ISO 16649 Standards.

The principle is based on the activity of the enzyme: β -D-Glucuronidase (β -Glu)

Gram-positive accompanying flora are inhibited by the addition of bile salts in the formula and the incubation at high temperature (44°C). After an incubation of 18-24 hours at 44°C, the colonies of *Escherichia coli* β -glucuronidase positive appear blue-green.

Presentation	Type of packaging	Art. No.
500g		01-619-500
5x500ml		01-619BA05
20 plates of 90mm Ø		064-PA0945
10 flasks of 100ml		064-BA0945



Escherichia coli ATCC 25922
Salmonella abony NCTC 6017

For further information, please contact scharlab@scharlab.com

Freeze dried supplements

- Plastic screw cap and rubber septum for easy and safe handling
- Boxes with 10 vials



Scharlau

The wise choice

REAGENTS AND BIOCHEMICAL TESTS
Catalase Activity Test

For detection of catalase enzyme activity. Add a few drops of hydrogen peroxide in TSA or Mueller-Hinton plates. The rapid formation of bubbles indicates the presence of the enzyme catalase, which decomposes the hydrogen peroxide, yielding oxygen. It is useful for distinguishing *Streptococcus* (negative) from *Staphylococcus* (positive) and *Clostridium* (negative) from *Bacillus* (positive).

Description	Presentation	Art. No.
Hydrogen Peroxide 30% (v/v) extremely pure	1l	HI01351000

Coagulase Test (Rabbit Plasma)

Sterile and lyophilized rabbit plasma, particularly suitable for detecting coagulase of *Staphylococcus aureus*. According to ISO 6888-1. A pure culture from the suspected colony is inoculated in a BHI tube Art. No. 02-599 and incubated at 35-37°C for 24 ± 2 hours. Under aseptic conditions add 0.1 ml of the culture to 0.3 ml of rabbit plasma and incubate again at 35-37°C during a period between 4-24 h. at 37°C. The formation of a coagulum indicates a positive test result. The shelf life of a lyophilized product, can be maintained once rehydrated, provided it is kept frozen at -20°C in aliquots of 0.3 ml.

Description	Presentation	Art. No.
Lyophilized rabbit plasma (30 tests)	Unit	064-PLA-CO

DNase Activity Test

For detection of DNase enzyme activity (presence of bacterial nucleases that depolymerise DNA). Seed in a short line, flooding DNase Agar plate (01-346) with 0.1 N HCl. The bacteria that degrade the DNA cause a transparent zone around the streak, while those that do not produce DNase form a white precipitate.

Description	Presentation	Art. No.
Hydrochloric Acid 0.1 N, Sol. valorated 1 l	Unit	AC07461000

β-Glucuronidase Broth

β-Glucuronidase Broth for the identification of Enterobacteriaceae.

Description	Presentation	Art. No.
β-Glucuronidase broth	20 tubes of 2ml	064-TA0153

Hippurate Test

For the differentiation between group B streptococcus and other β-hemolytic streptococcus by the hippurate hydrolysis test. A suspension of bacteria is added to the hippurate solution and incubated for 2 hours. Then the ninhydrin developer is added.

Description	Presentation	Art. No.
Hipurate test	20 tubes of 1ml	064-TA0114
Ninhydrin developer	1 bottle of 30ml	064-CL0039

Indol Test and Kovac's Reagent

To detect the production of indol from tryptophan. The culture media recommended for this test must be free of glucose and include a rich source of tryptophan, e.g. any Tryptone Water, Indol and Nitrite Medium for SIM Fluid Medium, Indol and Urea Broth according to Ferguson-Stuart, etc.

The pure culture to be verified is inoculated in the medium and incubated for 24-48 h. at 35°C. This incubation can be reduced to about four hours starting with a mass inoculum in a solid medium and seeded in a small volume of culture medium (Indol Test, Art. No. 064-TA0132). In either case after incubation, the reading is done with the Kovac's reagent.

Description	Presentation	Art. No.
Indol test	20 tubes 2ml	064-TA0132

NOTE: Tryptone water supplemented with tryptophan specially suited to test indol.

Description	Presentation	Art. No.
Kovac's reagent	100ml	RE0007G100
Kovac's reagent	1l	RE00071000

Methyl Red Test

Indicator solution to test for fermentation of glucose via the mixed-acid pathway in Enterobacteria.

Description	Presentation	Art. No.
Methyl Red Solution	100ml	RE0057G100
Methyl Red Solution	1l	RE00571000

Nessler, reagent

Reagent to detect the production of ammonia from a peptone or arginine.

Description	Presentation	Art. No.
Nessler Reagent	250ml	RE00500250

Nitrate Test

Griess-Ilosvay reagent for the verification of the reduction of nitrates through the detection of nitrites. For use mix equal parts of solution A and B. If a negative reaction occurs use zinc powder to verify. Enterobacteriaceae and *Pseudomonas* are usually positive.

Description	Presentation	Art. No.
Nitrate Reagent A	100ml	06-003-100
Nitrate Reagent B	100ml	06-004-100
Zinc, metal, extremely pure	500g	CI01450500

ONPG-FDA-MUG-Indol Test

Broth for the simultaneous detection of total coliform and *E. coli* in water and food. This detection has been enhanced with chromogenic and fluorogenic substrates: ONPG test (detection of β-galactosidase activity), phenylalanine, MUG (fluorescence of *E. coli*) and indol (adding Kovac's reagent), for the identification of Enterobacteria.

Description	Presentation	Art. No.
ONPG-FDA-MUG-INDOL test	20 tubes 2ml	064-TA0203

Ornithine Test

Means for detecting decarboxylation of ornithine.

Description	Presentation	Art. No.
Ornithine Test	20 tubes 2ml	064-TA0131

Oxidase Test

Reagent for detection and verification of bacterial cytochrome oxidase. Ready to use sterile swabs, impregnated with oxidase reagent.

Description	Presentation	Art. No.
Oxidase Reagent in swabs	25 units	06-120-025

Supplied as a powder. It is prepared by making an aqueous solution with 1% of the reagent. It is recommended to prepare only the amount

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necessary, as the useful life of the solution does not exceed one week when stored away from light at 4°C.

Description	Presentation	Art. No.
Oxidase Reagent	5g	RE00650005

T.D.A. (Tryptophan Deaminase Activity) Test and Deamination of Phenylalanine Test

Evidence for the presence of deaminase. Prepared using a solution of ferric chloride to 10%.

Description	Presentation	Art. No.
Ferric Chloride	500g	HI03360500
Chloride Ferric solution	30ml	064-CL0046

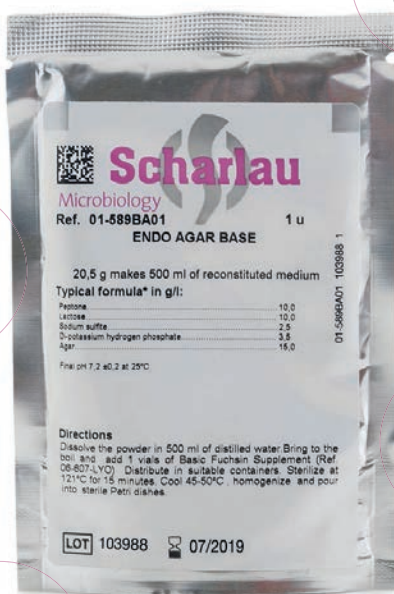
Voges Proskauer test

Reagents for the Voges Proskauer test in Enterobacteriaceae.

Description	Presentation	Art. No.
O'Meara Reagent (B)	100ml	RE0060G100
Barrit Reagent (Alpha-Naphtol) (A)	100ml	RE0100G100

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Preweighed dehydrated culture media to prepare 500ml

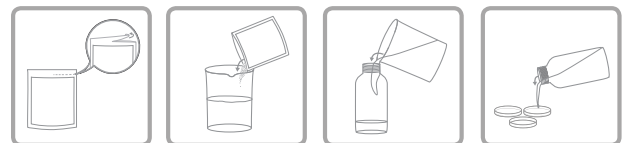


Avoid weighing errors.

Pay for the quantity that you will use

No waste created.

Ideal for unexpected peaks in workflow.



Exactly what you need!

OTHER RELATED PRODUCTS



Cryo-preservation system for the storage and maintenance of microorganisms and culture collections

SCHARLAU

Principle

CRYOINSTANT® is a simple method for maintaining culture collections that offers distinct advantages to repetitive culturing and avoiding such problems as contaminated cultures, loss of viability and loss of original characteristics due to biochemical and genetic changes. The system consists of a vial with 25 coloured plastic beads inside a cryopreservative solution.

CRYOINSTANT® allows the storage of 25 identical cultures in one vial. Lar-

ge number of strains can be stored in a small space inside a freezer. Individual beads are either streaked on a plate or resuscitated in a suitable broth. Vials are available in six different colours to allow sorting by species, samples, origin, etc.

Procedure

Storage of a microorganism:

- Collect the fresh (less than 24 h) and pure colonies on the plate with a loop and inoculate them directly to the CRYOINSTANT® vial.
- Replace cap and emulsify by inverting the vial 4-5 times to let the microorganisms bind to the porous surface of the beads. Use a pipette to remove as much cryopreservative solution as possible and re-close the vial. Make sure the beads adhere as little as possible to each other. Record details of its content on the vial.
- Place the cryovials in a block and carry them to the freezer. Removal of the beads will be easier if you freeze them in horizontal position. Once frozen, you can store them in the most convenient and space saving position inside the freezer.
- Ideal storage temperature is between -60°C and -80°C. Some organism may be stored at up to -20°C.
- We recommend always preparing at least 2 vials for each microorganism, one for routine work and one as reserve in case of any accident. This second vial should be kept in a separate freezer, if possible.
- We also recommend checking one of the vials shortly after freezing, to ensure that stored microorganisms is still viable.

Recovery of a microorganism:

- Remove the CRYOINSTANT® vial from the freezer and extract quickly a bead from the vial by means of a sterile needle or forceps.
- To avoid thawing of the vial, use carbon dioxide snow or alternatively transport the vials in a frozen paraffin block. Pour hot paraffin into a tray creating a block of a height about 2/3 of the cryovial. When it has solidified, make a number of holes with a cryovial. Keep the block in the freezer and use it to transport the CRYOINSTANT® vials. Paraffin is a good insulator and will maintain the temperature of the vial for about an hour.
- Use a sterile loop to streak the bead over a solid medium or drop it into a liquid medium. Allow for complete thawing before incubation under suitable conditions. You may also inoculate in a suitable broth, incubate for 24 h and then pass on to the solid medium. Most microorganism recover faster in a liquid medium.
- Discard the bead safely. Never return the used bead back to the CRYOINSTANT® vial.

Storage and shelf life and quality control:

- CRYOINSTANT® vials should be stored at room temperature and kept away from direct light.
- Shelf life is printed on each box.
- Each batch of CRYOINSTANT® vials has been tested for sterility and recovery of fastidious microorganisms.

Limitations and safety precautions:

Observe aseptic conditions to ensure purity of the stored microorganism. No limitations for bacteria, yeasts, fungi and fastidious microorganisms. Storage and recovery will depend on the freezing temperatures. Excessive changes in temperature will reduce the viability of the microorganisms. Observe appropriate biohazard precautions when processing microorganisms both in the preparation and disposal of used CRYOINSTANT® vials.

Description	Shelf life	Pack (u.)	Art. No.
Box of 50 Cryoinstant® vials red colour	2 years	50	064-TA8271
Box of 50 Cryoinstant® vials blue colour	2 years	50	064-TA8272
Box of 50 Cryoinstant® vials green colour	2 years	50	064-TA8273
Box of 50 Cryoinstant® vials yellow colour	2 years	50	064-TA8274
Box of 50 Cryoinstant® vials natural colour	2 years	50	064-TA8275
Box of 50 Cryoinstant® vials mixed colours	2 years	50	064-TA8276

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Anaerobic jars

- New extremely tight closure system with aluminium lid.
- Lid with high strength and durability.
- Changeable plastic container.
- Includes grid. Valid also for tubes.

Capacity (mm)	Pack (u.)	Art. No.
2,5 litres (12 plates)	1	064-AGOP25

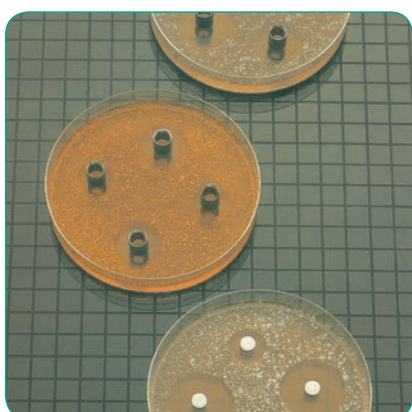


Sterile membranes for microbiological control SCHARLAU

Made from mixed cellulose esters.

- Economical.
- Specifically for aqueous solutions.
- Individually packed.
- High contrast grid.

Porus (µm)	Colour/Grid	Ø (mm)	Pack (u.)	Art. No.
0,45	White/Black	47	100	ES47045100



Oxford towers for antibiotics assay SCHARLAU

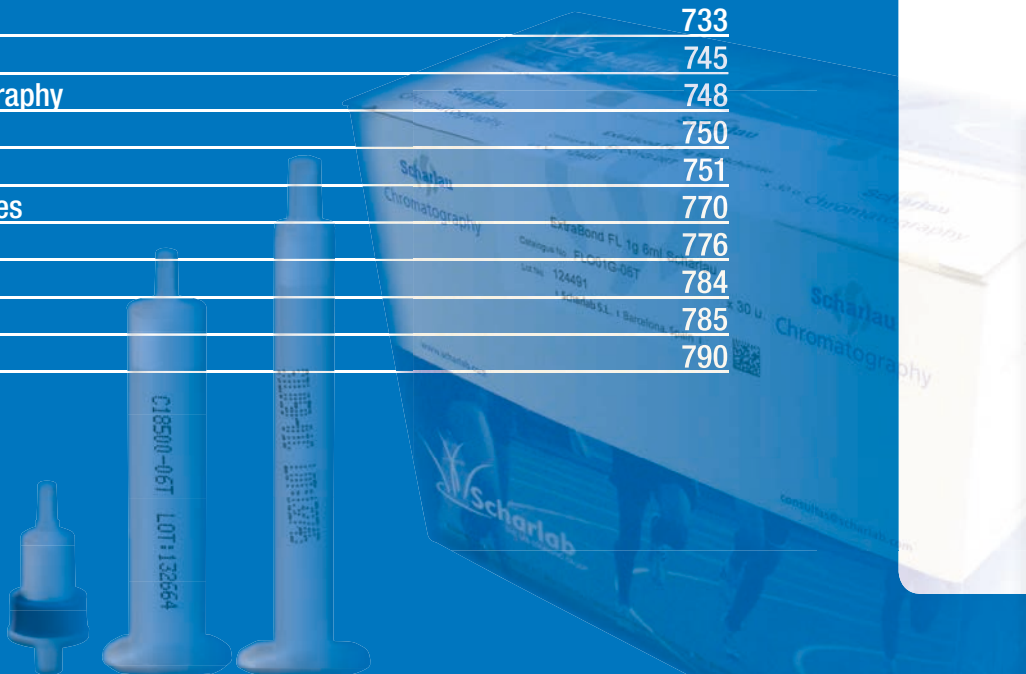
Towers for the certification of antibiotics. Stainless steel exterior Ø 8 mm, interior Ø 6 mm and 10 mm height, with a double bevel.

Description (mm)	Pack (u.)	Art. No.
Oxford towers	50	05-017UNID

For further information, please contact scharlab@scharlab.com

CONSUMABLES

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BEAKERS AND JUGS

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BEAKERS AND JUGS: Beakers

**Beakers, low form, graduated, borosilicate glass DIN 12331
SCHARLAU**

*It includes retrace code and double graduated scale.

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
25	34	50	1	0033550103
50	42	60	1	0033550104*
100	50	70	1	0033510105*
150	60	80	1	0033510106
250	70	95	1	0033510108*
400	80	110	1	0033510110
600	90	125	1	0033510112*
800	100	135	1	0033510113
1000	105	145	1	0033510114*
2000	130	185	1	0033510115*
25	34	50	10	1033550103
50	42	60	10	1033550104*
100	50	70	10	1033510105*
150	60	80	10	1033510106
250	70	95	10	1033510108*
400	80	110	10	1033510110
600	90	125	10	1033510112*
800	100	135	10	1033510113
1000	105	145	10	1033510114*
2000	130	185	4	1033510115*


**Beakers, tall form, graduated, borosilicate glass DIN 12331
SCHARLAU**

*It includes retrace code and double graduated scale.

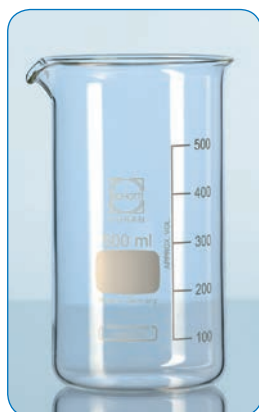
Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
50	38	70	1	0033550204*
100	48	80	1	0033510205*
150	54	95	1	0033510206*
250	60	120	1	0033510208*
400	70	130	1	0033510210*
600	80	150	1	0033510212
800	90	175	1	0033510213
1000	95	180	1	0033510214*
50	38	70	10	1033550204*
100	48	80	10	1033510205*
150	54	95	10	1033510206*
250	60	120	10	1033510208*
400	70	130	10	1033510210*
600	80	150	10	1033510212
800	90	175	10	1033510213
1000	95	180	10	1033510214*

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Beakers, low form, graduated, borosilicate glass DURAN

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
5	22	30	10	0222110107
25	34	50	10	0222110614
50	42	60	10	0222110617
100	50	70	10	0222110624
150	60	80	10	0222110629
250	70	95	10	0222110636
400	80	110	10	0222110641
600	90	125	10	0222110648
800	100	135	10	0222110653
1000	105	145	10	0222110654
2000	130	185	10	0222110663
3000	150	270	4	0222110668
5000	170	270	1	0222110673



Beakers, tall form, graduated, borosilicate glass DURAN

Capacity (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
100	48	80	10	0222111624
150	54	95	10	0222111629
250	60	120	10	0222111636
400	70	130	10	0222111641
600	80	150	10	0222111648
800	90	175	10	0222111653
1000	95	180	10	0222111654
2000	120	240	10	0222111663
3000	135	280	2	0222111668
10000	217	350	1	0222110186



Beakers, low form, graduated, borosilicate DURAN

Thick wall.

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
100	52	85	1	0222113124
250	70	94	1	0222113136
500	89	124	1	0222113144
1000	105	160	1	0222113154
2000	135	195	1	0222113163
3000	157	205	1	0222113168
5000	182	256	1	0222113173

For further information, please contact scharlab@scharlab.com

Beakers stainless steel
BOCHEM®

Stainless steel 18 / 10. With rim. With contact bottom for heating plates and magnetic stirrers. Capacities from 100ml to 5000ml.



With spout



Without spout

Cap. (ml)	Description	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
100	With spout	50	60	1	008510-BOC
250	With spout	65	85	1	008511-BOC
500	With spout	80	110	1	008512-BOC
1000	With spout	100	130	1	008513-BOC
2000	With spout	120	180	1	008514-BOC
3000	With spout	150	180	1	008515-BOC
5000	With spout	180	210	1	008516-BOC
100	Without spout	50	60	1	008500-BOC
250	Without spout	65	85	1	008501-BOC
500	Without spout	80	110	1	008502-BOC
1000	Without spout	100	130	1	008503-BOC
2000	Without spout	120	180	1	008504-BOC
3000	Without spout	150	180	1	008505-BOC
5000	Without spout	180	210	1	008506-BOC

Funnel in **page 500**



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Graduated beakers, low form

KARTELL

Autoclavable polypropylene. Permanent moulded-in graduations. Suitable for foodstuff. Capacities from 25ml to 5000ml. Conforms to ISO 7056 - 1981 (E) and BS 5404 Part 1 with thermoresistant polypropylene giving very high translucency. Autoclavable to 121°C for 20 minutes; continuous work at 100°C. Excellent chemical resistance.

Cap. (ml)	Subdivision (ml)	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
25	1	34	49	1	425-001801
50	2	41	60	1	425-001802
100	5	51	72	1	425-001803
250	10	71	95	1	425-001805



Graduated beakers, low form, TPX

KARTELL

Made of (TPX®), totally transparent and autoclavable. Will withstand up to 170°C. Permanent moulded-in graduations. Suitable for foodstuff. Capacities from 25ml to 5000ml. Conforms to ISO 7056 - 1981 (E) and BS 5404 Part 1 with crystal clear thermoresistant polypropylene, autoclavable at 121°C for 20 minutes; continuous work at 100°C. Excellent chemical resistance.

Cap. (ml)	Subdivision (ml)	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
25	1	34	49	1	425-001541
50	2	42	60	1	425-001542
100	5	52	72	1	425-001543
250	10	71	95	1	425-001545



Blue graduated beakers, low form, PP

KARTELL

Autoclavable polypropylene. Permanent moulded-in graduations, blue coloured. Suitable for foodstuff. Capacities from 25ml to 5000ml. Conforms to ISO 7056 - 1981 (E) and BS 5404 Part 1 with thermoresistant polypropylene giving very high translucency. Autoclavable to 121°C for 20 minutes; continuous work at 100°C. Excellent chemical resistance.

Capacity (ml)	Subdivision (ml)	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
25	1	34	49	1	425-001821
50	2	41	60	1	425-001822
100	5	51	72	1	425-001823
250	10	71	95	1	425-001824
500	10	87	119	1	425-001825



Blue graduated beakers, low form, TPX

KARTELL

Made of (TPX®), totally transparent and autoclavable. Will withstand up to 170°C. Permanent moulded-in graduations. Suitable for foodstuff. Capacities from 25ml to 5000ml. Conforms to ISO 7056 - 1981 (E) and BS 5404 Part 1 with crystal clear thermoresistant polypropylene, autoclavable at 121°C for 20 minutes; continuous work at 100°C. Excellent chemical resistance.

Cap. (ml)	Subdivision (ml)	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
25	1	34	49	1	425-001720
50	2	42	60	1	425-001721
100	5	52	72	1	425-001722
250	10	71	95	1	425-001723
500	10	88	119	1	425-001724

For further information, please contact scharlab@scharlab.com

BEAKERS AND JUGS: Jugs



Low form graduated measuring jugs
KARTELL

Autoclavable polypropylene. With spout. Permanent moulded-in graduations, blue coloured. Suitable for foodstuff. Capacities from 500ml to 5000ml. Conforms to ISO 7056 - 1981 (E) and BS 5404 Part 1 with termoresistant polypropylene giving very high translucency. Autoclavable to 121°C for 20 minutes; continuous work at 100°C. Excellent chemical resistance.

Cap. (ml)	Subdivision (ml)	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
500	25	90	49	1	425-001156
1000	50	116	116	1	425-001157
2000	50	145	131	1	425-001158



Tall form graduated measuring jugs
KARTELL

Autoclavable polypropylene. With spout. Permanent moulded-in graduations, blue coloured. Suitable for foodstuff. Capacities from 250ml to 3000ml. Conforms to ISO 7056 - 1981 (E) and BS 5404 Part 1 with termoresistant polypropylene giving very high translucency. Autoclavable to 121°C for 20 minutes; continuous work at 100°C. Excellent chemical resistance.

Cap. (ml)	Subdivision (ml)	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
250	5/1	90	73	1	425-001086
500	10/1	116	93	1	425-001087
1000	10/1	145	117	1	425-001088



Tall jugs
J.P. SELECTA

AISI 310 stainless steel. Mirror finish stamped jugs with a curved lip.

Cap. (ml)	Subdivision (ml)	Ø ext. (mm)	Height (mm)	Pack (u.)	Art. No.
250	No	72	84	1	0198092902
500	No	86	129	1	0198092905
1000	No	102	150	1	0198929010
2000	No	132	184	1	0198929020
3000	No	160	180	1	0198929030
4000	No	180	200	1	0198929040
5000	No	200	220	1	0198929050

Dewar vessels in page 882



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Plastic as Science



At the end of Fifties, the plastics technological developments led naturally to the birth of the **Labware Division**, the Kartell section specifically dedicated to study and supply products for the laboratory market. The Division uses raw materials, such as Polypropylene, Polystyrene and Polyethylene to produce a wide range of lightweight, highly resistant and economic products, the natural alternative to the glass. *That's the reason why Kartell is today internationally known as a leader in high quality technical laboratory products.*

Kartell LABWARE

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Fax +39 02 90096789
www.kartelllabware.com
labware@kartell.it

BOTTLES AND FLASKS

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- Glass flasks, *page 375*
- Lab bottles, *page 378*
- Packaging boxes, *page 379*
- Plastic flasks, *page 380*
- Safety caps, *page 383*
- Wash bottles, *page 386*

BOTTLES AND FLASKS: Flasks for samples
Screwed flasks
DELTALAB

Sampling containers with airtight. Polyethylene cap (PE). Standard color of caps: red. They come in several versions: in single package, sterile A, sterile by irradiation and ethylene oxide.



Cap. (ml)	Description	Sterile	Ø int.xH (mm)	Pack (u.)	Art. No.
40	High transparency PP. Graduated	No	38x70	800	027-409402
40	High transparency PP. Graduated. Single bag	No	38x70	800	027-409426
40	PS. Graduated	No	38x70	800	027-309402
50	High transparency PP	No	38x70	1000	027-409802
50	High transparency PP. Sealed cap	No	38x70	1000	027-419802
50	High transparency PP. Single bag	No	38x70	900	027-409826
50	High transparency PP. Sealing cap. Single bag	No	38x70	900	027-419826



Cap. (ml)	Description	Sterile	Ø int.xH (mm)	Pack (u.)	Art. No.
60	PP labelled	No	38x65	600	027-409501
60	PP	No	38x65	600	027-409502
60	PP. Graduate	No	38x65	600	027409502G
60	PP. Single bag	Sterile A	38x65	750	027-409526
60	PP. Single bag. Graduate	Sterile A	38x65	850	027409526G
60	PP. Single bag	Yes	38x65	850	00409526.0

Cap. (ml)	Description	Sterile	Ø int.xH (mm)	Pack (u.)	Art. No.
150	PP. Labelled	No	57x73	475	027-409701
150	PP	No	57x73	475	027-409702
150	PP. Single bag	Sterile A	57x73	400	027-409726
150	PP. Single bag	Yes	57x73	400	0274097260

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**Container 150ml, PP
SCHARLAU**

Polypropylene container, graduated. With screw cap and writing surface. With separate cap.

Dim. (mm)	Cap. (ml)	Pack (u.)	Art. No.
Ø 58 x 72	150	750	PUC1501000


**Container 60ml, PP
SCHARLAU**

Polypropylene container, with inserted screw cap. Dim. Ø 38x65 mm.

Dim. (mm)	Cap. (ml)	Pack (u.)	Art. No.
Ø 38 x 65	60	750	PSC0603000


**Screwed flasks
GOSSELIN SAS**

Straight containers for sampling made of clear polypropylene and polyethylene cap.

Cap. (ml)	Description	Sterile	Ø int.xH (mm)	Pack (u.)	Art. No.
40	PP. Natural colour	No	30x70	10x100	00TP30-003
40	PP. Natural colour	Yes	30x70	10x100	630TP30007
60	PP. Natural colour	No	33x70	10x70	00TP35-003
60	PP. Natural colour	Yes	33x70	10x70	630TP35009
60	PP. Blue colour	No	33x70	10x70	00TP35-017
60	PP. Blue colour	Yes	33x70	10x70	630TP35070
125	PP. Natural colour	No	52x74	380	630TP52003
125	PP. Natural colour	Yes	52x74	380	630TP52001
125	PP. Blue colour	No	52x74	380	630TP52004
125	PP. Blue colour	Yes	52x74	380	630TP52046
180	PP. Natural colour	No	52x102	264	630TP53001
180	PP. Natural colour	Yes	52x102	264	630TP53003
180	PP. Natural colour. Single bag	Yes	52x102	200	630TP53038
180	PP. Blue colour	No	52x102	264	630TP53013
180	PP. Blue colour	Yes	52x102	264	630TP53026


**Flasks for milk samples
GOSSELIN SAS**

Flasks for milk samples with hinged cap, graduated made of polypropylene.

Ø int.xH (mm)	Cap. (ml)	Pack (u.)	Art. No.
31x78	50	650	630FL60-01
35x80	70	500	630FL70-03
43x80	90	350	00FL100-01
75x88	300	240	00FL300-01
31x78	50	650	630FL60-05
43x80	90	350	630FL10004
75x88	300	240	630FL30002
31x78	50	650	630FL60-04
43x80	90	350	630FL10005
75x88	300	240	630FL30004

With septum cap

Ø int.xH (mm)	Cap. (ml)	Pack (u.)	Art. No.
35x80	70	800	630FL70-04

Sterile bottles for water sampling, without thiosulfate

Made of polyethylene or high density polyethylene, white coloured and red cap.

Square sterile flasks



Material	Cap type	Ø (mm)	Cap. (ml)	Pack (u.)	Art. No.
PE	Red cap with security seal	28	500	24	027-282330
PE	Red cap with security seal	28	1000	20	027-282331
PET	Red cap with porexpan joint	55	380	50	027-282349
PET	Red cap with porexpan joint	55	500	60	027-282350
PET	Red cap with porexpan joint	55	1000	48	027-282351
PE	Screw cap	37	500	100	630FC50003
PE	Screw cap	58	2000	50	00LC2002IS

Sterile flasks with thiosulfate for water sampling

Sterile flasks for water sampling with thiosulfate (20mg/l) for chlorated samples according to ISO 19458.



Square sterile flasks



Octagonal sterile flasks



Special legionella, sterile square

Square sterile flasks

Material	Cap type	Ø (mm)	Cap. (ml)	Pack (u.)	Art. No.
PEHD	Red cap with security seal	28	500	24	027-282320
PEHD	Red cap with security seal	28	1000	20	027-282321
PET	Red cap with porexpan joint	55	1000	48	027-282341
PET	Red cap with porexpan joint	55	500	60	027-282340
PEHD	Screw cap	37	500	100	00HFC50001
PEHD	Cap with security seal	28	1000	77	HFC1000-50

Octagonal sterile flasks

Material	Cap type	Ø (mm)	Cap. (ml)	Pack (u.)	Art. No.
PET	Cap with security seal	31,7	250	162	00HP250B01
PET	Cap with security seal	31,7	500	80	00HP500B11
PET	Cap with security seal	20	250	312	00HFV25001

Special legionella, sterile square

Material	Cap type	Ø (mm)	Cap. (ml)	Pack (u.)	Art. No.
PET	Cap with security seal	58	1000	85	0HLC102001

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BOTTLES AND FLASKS: Glass flasks



Amber glass flasks

Amber coated glass flasks. Glass is the best material to contain analytical reagents. Flasks without cap.

Cap. (ml)	Shape	Thread GL	Pack (u.)	Art. No.
100	Square	32	20	FAB-L-0100
250	Square	32	20	FAB-L-0250
500	Round	45	20	FAB-L-0500
1000	Round	45	20	FAB-L-1000
2.500	Round	45	20	FAB-L-2500
4000	Round	45	20	FAB-L-4000
250	Square	45	20	FAB-OVI250
500	Square	54	20	FAB-OVI500
1000	Square	54	20	FAB-VI1000
250	Round	55	1	0005072314
500	Round	55	1	0005072319



Glass flasks with plastic coating

Although glass is the ideal material to contain laboratory reagents because it is inert, it has the drawback of its fragility. These flasks are covered by a plastic layer which in case of breaking allows the content not to spill, avoiding then, possible burns to the user. Specially conceived for concentrated hydrochloric, nitric, sulfuric and perchloric acids.

Cap. (ml)	Thread GL	Pack (u.)	Art. No.
1000	45	20	FAB-VL1001
2.500	45	20	FAB-VL2501



Caps for glass flasks

Thread GL	Pack (u.)	Art. No.
32	20	FAB-TA1311
45 (with PTFE insert)	20	FAB-TA1639
54	20	FAB-TAPS54
55 (black with PELD insert)	1	0005072237

**Drums and containers
in page 420**





Narrow neck flasks

Common glass flask with narrow neck and Pilfer 28 thread, without cap.

Transparent glass

Cap. (ml)	Pack (u.)	Art. No.
30	156	073-7603ST
60	127	073-7606ST
125	104	073-7612ST
250	60	073-7625ST
500	35	073-7650ST
1000	20	073-7694ST

Amber glass

Cap. (ml)	Pack (u.)	Art. No.
30	156	073-VI30ST
60	127	073-VI60ST
125	104	073VI125ST
250	60	073VI250ST
500	35	073VI500ST
1000	20	073VI999ST

Pilfer 28 bottle caps



073-TAP125



073-TAPMAL



073-TAPC/G



073-CAPUCH



Septum

Description	Pack (u.)	Art. No.
White polypropylene cap without liner and without septum	20	073-TAP125
Autoclavable metal cap with liner and microwaveable	20	073-TAPMAL
Transparent polypropylene cap with hole and septum	20	073-TAPC/G
Protective cap for 073-TAPC / G cap	20	073-CAPUCH

Economic package

Description	Pack (u.)	Art. No.
White polypropylene cap without liner and without septum	2000	073PTAP125
Autoclavable metal cap with liner and microwaveable	500	073PTAPMAL
Transparent polypropylene cap with hole and septum	500	073PTAPC/G
Protective cap for 073-TAPC / G cap	500	073PCAPUCH

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Dropper

Compatible with Pilfer 28 threaded flasks of 30, 60 and 125ml capacity.

Description	Pack (u.)	Art. No.
30ml dropper bottle, PP28 thread and F19-60mm pipette	20	073-TE0030
60ml dropper bottle, PP28 thread and F19-90mm pipette	20	073-TE0060
125ml dropper bottle, PP28 thread and F19-110mm pipette	20	073-TE0125

Economic package

Description	Pack (u.)	Art. No.
30ml dropper bottle, PP28 thread and F19-60mm pipette	2000	073PTE0030
60ml dropper bottle, PP28 thread and F19-90mm pipette	2000	073PTE0060
125ml dropper bottle, PP28 thread and F19-110mm pipette	2000	073PTE0125



Wide neck flasks

Common clear glass flasks with wide neck, without cap, Twist-Off thread.

Capacity (ml)	Pack (u.)	Art. No.
30	10	073-008030
60	10	073-008060
125	10	073-008125
250	10	073-008250
500	10	073-008500
1000	10	073-008940

Economic package

Capacity (ml)	Pack (u.)	Art. No.
30	240	073-PA8030
60	168	073-PA8060
125	204	073-PA8125
250	112	073-PA8250
500	60	073-PA8500
1000	32	073-PA8940



Metal Twist-Off closures

Compatible with Twist-Off threaded flasks with wide neck.

For flask capacity	Pack (u.)	Art. No.
30ml	10	073-00T043
60ml	10	073-00T048
125ml	10	073-00T063
250ml	10	073-00T066
500 and 1000ml	10	073-00T077

Economic package

For flask capacity	Pack (u.)	Art. No.
30ml	3000	073-PAT043
60ml	2.400	073-PAT048
125ml	1.150	073-PAT063
250ml	1.025	073-PAT066
500 and 1000ml	800	073-PAT077

For further information, please contact scharlab@scharlab.com

BOTTLES AND FLASKS: Lab bottles

**Clear laboratory bottle
SCHARLAU**

Clear glass bottle, with GL45 thread, graduated, blue cap and pouring ring, ISO 4796.
 Made of borosilicate glass 3.3.
 The bottle, pouring ring and screw cap can be sterilised.

*It includes retrace code and double graduated scale.

Cap. (ml)	Thread ISO	Pack (u.)	Art. No.
100	GL45	1	0033799005*
250	GL45	1	0033799006*
500	GL45	1	0033799007*
1000	GL45	1	0033799008*
2000	GL45	1	0033799009
100	GL45	10	1033799005*
250	GL45	10	1033799006*
500	GL45	10	1033799007*
1000	GL45	10	1033799008*
2000	GL45	10	1033799009


**Amber laboratory bottle
SCHARLAU**

Amber glass bottle, with GL45 thread, graduated, blue cap and pouring ring, ISO 4796.
 Made of borosilicate glass 3.3.
 The bottle, pouring ring and screw cap can be sterilised.

Cap. (ml)	Thread ISO	Pack (u.)	Art. No.
100	GL45	1	33799005AM
250	GL45	1	33799006AM
500	GL45	1	33799007AM
1000	GL45	1	33799008AM
2000	GL45	1	33799009AM
100	GL45	10	33799105AM
250	GL45	10	33799106AM
500	GL45	10	33799107AM
1000	GL45	10	33799108AM
2000	GL45	10	33799109AM


**Clear laboratory bottle
DURAN**

Clear laboratory bottle, GL45 thread, borosilicate glass, blue cap and pouring ring.
 Made of borosilicate glass 3.3.
 The bottle, pouring ring and screw cap can be sterilised.

Cap. (ml)	Thread ISO	Pack (u.)	Art. No.
100	GL45	10	1021801245
250	GL45	10	0021801365
500	GL45	10	0021801445
1000	GL45	10	1021801545
2000	GL45	10	0021801635

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Screw caps for laboratory bottles DURAN

Plastic caps of PPN, sterilizable, ISO thread, blue.

Thread ISO	Pack (u.)	Art. No.
GL32	10	0222923919
GL45	10	0222923928



Resin screw caps for laboratory bottles DURAN

Caps with melamine resin pressed mass thread, sterilizable, ISO thread, red.

Thread ISO	Pack (u.)	Art. No.
GL32	10	0222924019
GL45	10	0222924028

BOTTLES AND FLASKS: Packaging boxes



Approved packaging boxes

Paperboard boxes, approved for road, air and sea transport. Boxes for glass bottles, come with recycled alveolar paperboard which will act as an absorbent in case of breaking, reducing danger. Easy maintenance.

Box for glass bottles, with socket

Description	Dimensions: H x L x W (cm)	Pack (u.)	Art. No.
1 litre bottle	30x15x15	10	055-CC1001
1x2,5 litre bottle	40x21x21	10	055-CC2501
6x1 litre bottle	30x40x30	10	055-CC1006
4x2,5 litre bottle	40x40x40	10	055-CC2504
Socket set for box with 1 litre bottle	–	10	FAB-ALVE11
Socket set for box with 1x2,5 litre bottle	–	10	FAB-ALVE25
Socket set for box with 6x1 litre bottle	–	10	FAB-ALVE01
Socket set for box with 4x2,5 litre bottle	–	10	FAB-ALVE45

Box for plastic bottles

Description	Dimensions: H x L x W (cm)	Pack (u.)	Art. No.
6x100ml bottles	15x20x15	10	05596X0.1P
6 x 250ml or 500ml bottles	22x25x17	10	FAB-6X0.5P
6x1l bottles	25x32x22	10	FAB-006X1P
6x1,5l bottles	26x34x25	10	FAB-6X1.5P
4x2,5l bottles	33x26x26	10	FAB-4X2.5P

For further information, please contact scharlab@scharlab.com

BOTTLES AND FLASKS: Plastic flasks

Plastic flasks

Squared plastic flasks, made of high density polyethylene (HDPE), to store laboratory reagents, without cap, with GL45 thread which allows to thread dispensers and burettes. Due to its great sturdiness, prevents collapse with alcohols. Because of its base, they are very stable even if empty. Fit perfectly on automatic titration supports. Volume marks allow estimation of the remaining liquid in flask.

Cap. (ml)	Thread GL	Pack (u.)	Art. No.
100	45	20	FAB-0PI150
250	45	20	FAB-0PI250
500	54	20	FAB-0PI500
1000	54	20	FAB-PI1000
1.500	80	20	FAB-PI1500
2.500	80	20	FAB-PI2500


Plastic bottles

Plastic bottle made of high density polyethylene (HDPE) suitable for storing reagents, without cap.

Cap. (ml)	Thread GL	Pack (u.)	Art. No.
100	32	20	FAB-RI0100
250	32	20	FAB-RI0250
500	45	20	FAB-RI0500
1000	45	20	FAB-RI1000
2.500	45	20	FABRI2500N
4000	45	20	FAB-RI4000

Economic package without cap

Capacity (ml)	Thread PILFER	Pack (u.)	Art. No.
500	28	20	FAB-BAS500
1000	28	20	FAB-BA1000


Caps for plastic flasks

Caps for plastic flasks.

Thread GL	Pack (u.)	Art. No.
45	20	FAB-TA1337
54	20	FAB-TAPS54
80	20	FAB-TAPS80

Caps for plastic bottles

Thread GL	Pack (u.)	Art. No.
GL 45	20	FAB-TA1639
Pilfer 28 (for economic package)	20	FABTAP125B

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Plastic bucket

Plastic bucket of high density polyethylene, with lid.

Capacity (Kg)	Pack (u.)	Art. No.
5	1	0559PI5000
10	1	05591000CP
25	1	05592500CP



Flasks

Cylindrical flasks, made of high density polyethylene with knurled screw cap and stopper.

Ø int.xH (mm)	Cap. (ml)	Pack (u.)	Art. No.
50x94	250	50	425-001565
70x107	500	50	425-001566
85x128	1000	20	425-001567
54x100	250	125	027-202802
67x131	500	120	027-202803
86x157	1000	50	027-202818
60x124	400	130	027-202814
86x103	500	100	027-202821
86x173	1.250	50	027-202804

Sterile single bag

Ø int.xH (mm)	Cap. (ml)	Pack (u.)	Art. No.
54x100	250	125	00202802.1
67x131	500	120	00202823.1
86x157	1000	50	00202828.G

Single bag

Ø int.xH (mm)	Capacity (ml)	Pack (u.)	Art. No.
54x100	250	125	027202802B
67x131	500	120	027-202823
86x157	1000	50	027-202828



Flasks GOSSELIN SAS

Cylindrical flasks (Dutchess type) of high density PE with red caps. Different closure systems available. All caps are knurled for an easy opening even with gloves.

Ø int.xH (mm)	Cap type	Cap. (ml)	Pack (u.)	Art. No.
60x25	Cap with wad	250	145	630LR25004
80x136	Cap with wad	500	140	630LR50006
101x174	Cap with wad	1000	68	00LR100004
60x25	Cap with seal	250	145	630LR25001
80x136	Cap with seal	500	140	630LR50001
101x174	Cap with seal	1000	68	00LR100001
80x136	Cap with wad. Sterile	500	140	630LR50004
101x174	Cap with wad. Sterile	1000	68	00LR100008
60x25	Cap with seal. Sterile	250	145	630LR25006
80x136	Cap with seal. Sterile	500	140	630LR50003
101x174	Cap with seal. Sterile	1000	68	00LR100002

For further information, please contact scharlab@scharlab.com



Graduated wide neck bottles
KARTELL

Graduated bottle for liquids and powders. Shoulder and cap with holes for safety seal. Permanent graduation printed in relief externally. Will withstand considerable pressure before rupture.

Ø int.xH (mm)	Cap. (ml)	Pack (u.)	Art. No.
61x126	250	50	425-000410
75x158	500	20	425-000411
93x200	1000	20	425-000412



Square bottles
DELTA LAB

Square flasks with star-shaped cap and high-density polyethylene seal (PE). The square bottle is space-saving. Suitable for long term sample storage. Graduation of the flasks permits filling without the need for pipettes or other utensils

Cap. (ml)	Pack (u.)	Art. No.
100	600	027-444610
250	300	027-444611
500	150	027-444612
1000	80	027-444613



Square bottles
GOSSELIN SAS

Square flasks of PEHD, graduated.

Non-sterile flasks

Dim. WxDxH (mm)	Cap type	Diameter (mm)	Cap. (ml)	Pack (u.)	Art. No.
57x57x109	Cap with wad	37	250	210	630LC25010
76x76x122	Cap with wad	58	500	175	630LC50007
95x76x185	Cap with wad	58	1000	90	00LC100007
109x96x230	Cap with wad	58	2000	50	00LC200005
57x57x109	Cap with seal	37	250	210	630LC25001
76x76x122	Cap with seal	58	500	175	630LC50001
95x76x185	Cap with seal	58	1000	90	00LC100001
109x96x230	Cap with seal	58	2000	50	00LC200001

Sterile flasks

Dim. WxDxH (mm)	Cap type	Diameter (mm)	Cap. (ml)	Pack (u.)	Art. No.
57x57x109	Cap with wad	37	250	210	630LC25006
76x76x122	Cap with wad	58	500	175	630LC50011
95x76x185	Cap with wad	58	1000	90	00LC100013
57x57x109	Cap with seal	37	250	210	630LC25002
76x76x122	Cap with seal	58	500	175	630LC50002
95x76x185	Cap with seal	58	1000	90	00LC100002
109x96x230	Cap with seal	58	2000	50	00LC200003

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Graduated octagonal bottles GOSSELIN SAS

Graduated octagonal flasks of clear polyethylene (PET).

Cap type	Diameter (mm)	Capacity (ml)	Pack (u.)	Art. No.
Cap with security seal	31,7	250	144	000P250B01
Cap with security seal	31,7	500	80	630P500B11
Cap with security seal	31,7	1000	48	00P1000B18

Steriles

Cap type	Diameter (mm)	Capacity (ml)	Pack (u.)	Art. No.
Cap with security seal	31,7	125	231	630P125B01
Cap with security seal	31,7	250	144	000P250B50
Cap with security seal	31,7	500	120	630P500B11
Cap with security seal	31,7	1000	192	00P1000B50



Conical containers GOSSELIN SAS

Conical flasks with snap cap natural coloured.

Steriles

Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
88	200	220	0PC200A-02
100	400	185	00PC400-03
150	1000	120	0PC1000-05

Non-steriles

Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
88	200	220	0PC200A-03
100	400	185	0PC400A-09
150	1000	120	0PC1000-09

BOTTLES AND FLASKS: Safety caps



Bottle with Safety Cap II

Safety Caps: safe solvent extraction SCAT®

The air valves provide double protection: prevent from evaporating potentially hazardous liquids and, as well, withhold dust and pollutants entering with air to the vessel. There is also available a fireproof version of all Safety Caps range.

→ *Continued on the next page*

For further information, please contact scharlab@scharlab.com

GL28 screw caps and air valve


Safety Cap I

Description	Connectors (mm OD)	Pack (u.)	Art. No.
Safety Cap I, Ø 3,2 for GL28	1x3,2mm (1/8")	1	1368107005
Safety Cap II, Ø 3,2 for GL28	2x3,2mm (1/8")	1	1368107006

GL45 screw caps and air valve (HPLC)


1368117991



1368197010



1368197011



1368107410



1368199909

Description	Connectors (mm OD)	Pack (u.)	Art. No.
Safety Cap I, Ø 6,35, for GL45	1x6,35mm (1/4")	1	1368107007
Safety Cap II, Ø 6,35, for GL45	2x6,35mm (1/4")	1	1368107008
Safety Cap II, Ø 3,2 and Ø 6,35 for GL45	1x3,2mm + 1x6,35mm	1	1368107009
Safety Cap I, Ø 4,76 for GL45	1x4,75mm (3/16")	1	1368108032
Safety Cap II, Ø 4,76 for GL45	2x4,75mm (3/16")	1	1368109032
Safety Cap III, Ø 4,76 for GL45	3x4,75mm (3/16")	1	1368110032
Safety Cap II, Ø 3,2, mechanical level	2x3,2mm (1/8")	1	1368117991
Standard venting valve, 6 months shelf life	28 G	10	1368197010
High flow venting valve, 6 months shelf life	28 G for GL45 HPLC	10	1368197011
Blind plug	Without a capillary port	10	1368160501
Safety Cap I, Ø 3,2 for GL45	1x3,2mm (1/8")	1	1368107019
Safety Cap II, Ø 3,2 for GL45	2x3,2mm (1/8")	1	1368107909
Safety Cap III, Ø 3,2 for GL45	3x3,2mm (1/8")	1	1368107910
Safety Cap IV, Ø 3,2 for GL45	4x3,2mm (1/8")	1	1368107410
Safety Cap VI, Ø 3,2 for GL45	6x3,2mm (1/8")	1	1368107520
Safety Cap I, Ø 3,2, horizontal valve, for GL45	1x3,2mm (1/8")	1	1368199019
Safety Cap II, Ø 3,2 horizontal valve, for GL45	2x3,2mm (1/8")	1	1368199909

GL80 screw caps and air valve

Description	Connectors (mm OD)	Pack (u.)	Art. No.
Safety Cap I, Ø 3,2 for GL80	1x3,2mm (1/8")	1	1368107030
Safety Cap II, Ø 3,2 for GL80	2x3,2mm (1/8")	1	1368107031
Safety Cap III, Ø 3,2 for GL80	3x3,2mm (1/8")	1	1368107032

→ Continued on the next page

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S40 screw caps and air valve



1368107101



1368107105

Description	Connectors (mm OD)	Pack (u.)	Art. No.
Safety Cap I, Ø 3,2 for S40	1x3,2mm (1/8")	1	1368107100
Safety Cap II, Ø 3,2 for S40	2x3,2mm (1/8")	1	1368107101
Safety Cap I, Ø 3,2 for S40, 1 shut-off	2x3,2mm (1/8")	1	1368107105

GL45 screw caps with shut-off and air valve



1368107919



1368107519

Description	Connectors (mm OD)	Pack (u.)	Art. No.
Safety Cap I with shut-off for GL45	1x3,2mm (1/8")	1	1368107119
Safety Cap II, Ø 3,2 with 2 shut-offs for GL45	2x3,2mm (1/8")	1	1368107919
Safety Cap III, Ø 3,2 with 3 shut-offs for GL45	3x3,2mm (1/8")	1	1368107920
Safety Cap IV, Ø 3,2 with 4 shut-off for GL45	4x3,2mm (1/8")	1	1368107419
Safety Cap VI with 6 valves for GL45	6x3,2mm (1/8")	1	1368107519

Ground neck 29/32



1368107607

Description	Connectors (mm OD)	Pack (u.)	Art. No.
Safety Cap II, Ø 3,2 for ground neck bottles	2x3,2mm (1/8")	1	1368107607
Blind Safety Cap, for ground neck bottles	Without connector	1	1368107507

For further information, please contact scharlab@scharlab.com

HPLC starter kit, GL45 screw caps


1368199200

Description	Content	Pack (u.)	Art. No.
HPLC starter kit	3xArt. No. 1368107019 and 1x1368107909 and 1x1368160501	1	1368199200

HPLC starter kit, GL45 yellow fire resistant screw caps

Description	Content	Pack (u.)	Art. No.
HPLC fire resistant kit	3xArt. No. 1368112019 and 1x1368112909 and 1x1368160501	1	1368199210

BOTTLES AND FLASKS: Wash bottles

**Wash bottles
KARTELL**

Wide mouth wash bottle of polystyrene (PE), graduated and with coloured cap for identification of content. Integrated distribution pipe in cap for preventing air or liquid loss through cap.

Cap colour	Capacity (ml)	Pack (u.)	Art. No.
White	250	1	4251637/00
Blue	250	1	4251637/04
Yellow	250	1	4251637/06
Red	250	1	4251637/10
White	500	1	4251638/00
Blue	500	1	4251638/04
Yellow	500	1	4251638/06
Red	500	1	4251638/10


**Wash bottles
VITLAB**

Made of PP or PE-LD with safety impression according to hazardous substances rules and Vent-Cap thread.

Imprint	Thread GL	Cap. (ml)	Pack (u.)	Art. No.
Acetone	45	500	1	3091452829
Distilled water	45	500	1	3091352819
Ethyl alcohol	45	500	1	3091352869
Methanol	45	500	1	3091352839

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Wash bottles DELTALAB

Made of high and low density polyethylene. Resistant to any liquid, acid or base. Wide neck for a safe and easy filling.

Cap. (ml)	Pack (u.)	Art. No.
250	5	027-443300
500	5	027-443000
1000	5	027-443100

BURETTES AND DISPENSERS

- Burettes, *page 387*
- Digital burettes, *page 389*
- Dispensers, *page 391*

BURETTES AND DISPENSERS: Burettes

Burettes SCHARLAU

Scharlau burettes are all class AS and each one is provided with a calibration certificate and serial number. Its marking is indelible and all variants exist also in amber glass. With Schellbach stripe for readability. Conform with ISO 385.

Straight burettes, conical PTFE stopcock



Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
10	1/20	1	073-001520
25	1/10	1	073-001521
50	1/10	1	073-001522

Straight burettes, glass stopcock



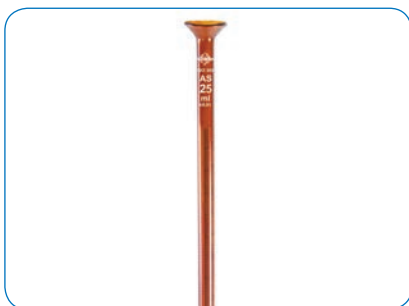
Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
10	1/20	1	073-001508
25	1/10	1	073-001509
50	1/10	1	073-001510
100	1/5	1	073-001511

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Straight burette, needle stopcock


Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
10	1/20	1	073-001512
25	1/10	1	073-001513
50	1/10	1	073-001514
100	1/5	1	073-001515


**Burettes, amber glass
SCHARLAU**

Variations of Scharlau burettes in amber glass

Straight burettes, conical PTFE stopcock

Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
10	1/20	1	073-1520AM
25	1/10	1	073-1521AM
50	1/10	1	073-1522AM

Straight burettes, glass stopcock

Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
10	1/20	1	073-1508AM
25	1/10	1	073-1509AM
50	1/10	1	073-1510AM
100	1/5	1	073-1511AM

Straight burette, PTFE needle stopcock

Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
10	1/20	1	073-1512AM
25	1/10	1	073-1513AM
50	1/10	1	073-1514AM
100	1/5	1	073-1515AM

PVC/PMP graduated burettes
KARTELL

Class B graduated burettes according to DIN 12700, with FEP key.

Graduate burette, plastic, class B

Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
10	0,1	1	425-001997
25	0,1	1	425-001998
50	0,1	1	425-001999

Mixed burettes
VITLAB

Borosilicate glass burettes covered of protective plastic. B class, with Schellbach stripe and PTFE key. Calibrated to deliver Ex.

Graduate burette, plastic, class B

Cap. (ml)	Division (ml)	Pack (u.)	Art. No.
25	0,05	2	309-105599
50	0,1	2	309-105699

BURETTES AND DISPENSERS: Digital burettes

Solarus® titration digital burettes
HIRSCHMANN

A titration unit with a reagent recirculation system for manual titration directly from the reagent bottle. Power supplied by a solar cell.

Main features:

- Media recirculating system for simple and rapid venting without reagent loss
- Easily replaceable valves
- Handwheels with soft touch surface
- Clearly legible display, regardless of the viewing angle
- A light protection window for the valve block is also included in the scope of delivery
- Individual calibration of user-specified adaptations with "Quick-Cal"
- Serial bidirectional interface (RS232 and USB)

Provided with 3 adaptors (GL32, GL38 and S40) suction hose, return tube, key, manual and certificate.

Description	Inaccuracy (R)	Reproducibility (CV)	Pack (u.)	Art. No.
Solarus® 10ml	0,3%	0,1%	1	6709392010
Solarus® 20ml	0,2%	0,1%	1	6709392020
Solarus® 50ml	0,2%	0,1%	1	6709392050

Accessories. (Check for other accessories)

Description	Pack (u.)	Art. No.
Liqui-Soft® software	1	6709564010
RS232 interface	1	6709564005
USB interface	1	6709564006
Discharge tube, spiral	1	6709313027

HIRSCHMANN®

Simply the best

pipetus® –

the pipette filler

- With LC display, everything under control
- Intelligent rapid charging technology
- High-tech material for precision pipetting


ceramus® –

the bottle top dispenser

- Ceramic piston made of extremely hard high-purity aluminium oxide ceramic
- Precision instead of sense of proportion
- Perfect ergonomics


solarus® –

the first solar-powered digital burette

- Sensitive and precise
- The Hirschmann recirculation system
- Solar technology for sustainable performance


rotarus® –

the high-class peristaltic pump

- Automatic pump head and tube detection with RFID technology
- External TFT touchscreen with user-friendly menu
- Rapid tool-free changing of pump heads


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www.hirschmannlab.com · info@hirschmannlab.com



Opus® titration digital burettes HIRSCHMANN

A titration unit with a reagent recirculation system for motor-powered titration directly from the reagent bottle.

Main features:

- Electronic control and dispensing of volumes
- A light protection window for the valve block is also included in the scope of delivery
- Titration impulse triggered by the motor enables the achievement of a droplet break up from 10µl for precision determination
- Media recirculating system for simple and rapid venting without reagent loss
- Free rotation
- TFT touchscreen with user-friendly menu
- Method memory for nine different titration procedures with storage of all settings
- USB and RS232 interface for PC connection
- Integration in automated procedures possible

Provided with: internal thread A45 and additional adaptors A 32, A 38 and S 40, flexible suction hose with nut, flexible recirculation tube, discharge tube unit, valve adjustment key, dispenser, brown antisolar window, feedblock, Data Power cable, user guide and individual quality certificate.

Description	Inaccuracy R (%)	Reproducibility CV (%)	Pack (u.)	Art. No.
Opus® titration 10ml	0,2	0,07	1	6709582010
Opus® titration 20ml	0,2	0,07	1	6709582020
Opus® titration 50ml	0,2	0,05	1	6709582050

Accessories (for other accessories, please contact us)

Description	Pack (u.)	Art. No.
Liqui-Soft® software	1	6709564010
RS232 interface	1	6709564005
USB interface	1	6709564006
Pedal to start the dispensing process	1	6709564002
Mouse for extra sensitive media dispensing	1	6709564004



Continous digital burettes VITLAB

With redosing valve and patented dual piston valve, for permanent preparation and without solution vibrations. Certified conformity according to DIN 12600. Dosage from 10µl to 999,99ml. Provided with PP adaptors (GL 32, GL 38, S 40), telescopic suction hose (200-350mm), expulsion telescopic cannula (140-220mm), 2 microbatteries of 1,5V (LR 03/AAA), instruction manual, quality certificate.

Model	Volume (ml)	Inaccuracy R (%)	Imprecision CV (%)	Pack (u.)	Art. No.
Continous E (2500µl/V)	2,5	±0,2	≤0,1	1	0331620506
Continous R (5000µl/V)	5,0	±0,2	≤0,1	1	0331620507

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BURETTES AND DISPENSERS: Dispensers

Kipp dispensers
SCHARLAU

Easy handling tools for repeatable and fast dosage, without sacrificing reliability. Consult us for each model spare parts. Complete with flask.

Kipp dispenser

Flask capacity (ml)	Dispenser capacity (ml)	Pack (u.)	Art. No.
500	1	1	073-001586
500	2	1	073-001588
1000	5	1	073-001590
1000	10	1	073-001592
1000	15	1	073-001594
1000	20	1	073-001596
1000	25	1	073-001598
1000	50	1	073-001600

CLEANING

- Detergents, *page 391*
- Skin care and cleaning, *page 393*
- Surface disinfectant, *page 395*
- Towels, wiper rolls and cloths, *page 395*

CLEANING: Detergents

Universal liquid detergent Mucosal
MUCASOL

High performance concentrated alkaline liquid detergent for immersion and ultrasonic baths. Suitable also for laboratory devices and glass, porcelain, plastic, rubber and metal instruments. Non toxic non abrasive, biodegradable. Suitable for radioactive decontamination, bacteriostatic.

Description	Capacity (l)	Pack (u.)	Art. No.
Detergent Mucosal® concentrated	2	1	022-044003

For further information, please contact scharlab@scharlab.com



Liquid detergent for automated cleaning, LaboClean FLA
NEODISHER

Alkaline, for general laboratory material.
Surfactant, phosphate and oxidant free.

Description	Capacity (l)	Pack (u.)	Art. No.
Neodisher® FLA	5	1	004-0N3331



Liquid detergent for automated cleaning, Z
NEODISHER

Acid neutralising agent with organic acids, without surfactants or phosphates. Used as a pH neutralization agent, meant to be dispensed into the rinse water after the use of alkaline-based detergents.

Description	Capacity (l)	Pack (u.)	Art. No.
Neodisher® Z	5	1	004-0N3362



Liquid detergent for manual cleaning, LM3
NEODISHER

Liquid alkaline cleaner with dispersing agents which pull out poorly soluble residues. Also suitable for automated cleaning. Low foam, free of phosphates.

Description	Capacity (l)	Pack (u.)	Art. No.
Neodisher® LM3	1	1	0005192442



Powdered detergent for automated cleaning, GK
NEODISHER

Mildly alkaline cleaning agent with chlorine based bleach specially formulated for cleaning of laboratory glassware with cell culture. Does not contain any surfactants. Easy to rinse off.

Description	Capacity (kg)	Pack (u.)	Art. No.
Neodisher® Laboclean GK	10	1	004-0N3311

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**Powdered detergent for automated cleaning, MA
NEODISHER**

Detergent with good cleaning and emulsifying capacity, specially recommended for removal of cosmetic creams and lotions. Free of oxidising additives, reduces foam.

Description	Capacity (kg)	Pack (u.)	Art. No.
Neodisher® MA	1	1	556-488984

CLEANING: Skin care and cleaning



**Hand sanitizer alcoholic gels
PURELL**

Contains moisturizing agents which help to maintain healthy skin. Hygienic hand wash, rinse free. Does not irritate and is hypoallergenic. Removes 99,9% of the most common germs.

Description	Capacity (ml)	Pack (u.)	Art. No.
Gel loading	800	2	235-000741
Dispenser for gel	-	1	235-000610



**Hand cleaner paste
REDURAN**

Handwash paste with exfoliant. Does not contain preservatives.

Capacity (ml)	Pack (u.)	Art. No.
2000	1	229-022145



**Skin care cream
STOKOLAN**

Cream for hand and face care, skin regenerator. Silicone free. Fast absorption. Prevents work related dermatoses.

Description	Capacity (ml)	Pack (u.)	Art. No.
Cream with perfume	1000	1	229-085477
Cream without perfume	1000	1	229-085457

For further information, please contact scharlab@scharlab.com

CLEANING



Stoko Vario®SVP dispenser system
STOKOLAN

Dispenser for Reduran®, STOKOSEPT®Gel, STOKOSEPT®Wash and STOKOLAN® bottles.

Description	Pack (u.)	Art. No.
Stoko Vario®SVP dispenser	1	229-089934



Antibacterial cleaner
STOKOSEPT

Antibacterial liquid cleaner for use with water.
Removes 99,9% of the most common germs.
Does not contain perfume.

Capacity (ml)	Pack (u.)	Art. No.
1000	1	229-022357



Antibacterial gel
STOKOSEPT

Removes 99,9% of the most common germs in 30 seconds.
Evaporates fast leaving a fresh and clean skin.
Does not contain perfume.

Capacity (ml)	Pack (u.)	Art. No.
1000	1	229-022356



Facial tissues

Extra smooth facial tissue box.

Description	Pack (u.)	Art. No.
Facial tissue dispenser box of 100 u.	2x100	0010001208



Sanitizing wipes

For disinfection of hands. Individual wipes.

Description	Pack (u.)	Art. No.
Disinfectant wipes	1500	229-085457

CLEANING: Surface disinfectant



**Chlorhexidine disinfecting wipes
CLINET**

Bactericidal, fungicidal, and virucidal, ideal for laboratory cleaning and disinfection.
Hypoallergenic.
With chlorhexidine digluconate.

Description	Pack (u.)	Art. No.
Dispenser with 120 wipes precut 13cmx20cm	6	603-310101



**Bacteriological spray
CLINET**

Spray bactericide and fungicide.
No rinsing needed.
Ideal for large surfaces, desks and inaccessible areas.

Description	Capacity (ml)	Pack (u.)	Art. No.
Spray Bottle	1000	6	603-310303



**Small surface and instrumental disinfectant
MELISEPTOL**

For small surface and instrument disinfection.
Aldehyde and alkylamine free.
Useful against bacteria, including tuberculosis pathogens, fungi, HBV virus, HIV, rotavirus, and adenovirus.

Description	Capacity (ml)	Pack (u.)	Art. No.
Spray Bottle	250	1	0005191036
Dispenser Bottle	250	1	0005191037
Spray Bottle	1000	1	0005191038
Canister	5000	1	0005191040

CLEANING: Towels, wipper rolls and cloths



**Wypall X60 wipers
KIMBERLY-CLARK**

High performance cloth suitable for the most difficult cleaning due to its fast absorption and resistance to tearing.
Reusable and chemically inert.
Its raised surface catches and retains dirt and liquids.
Does not contain adhesives or binders; leaves no waste.

Description	Pack (u.)	Art. No.
42,6cmx23,1cm precut cloths, boxes of 126 units.	10x126	0010003399



Wypall L 40 wipers jumbo roll
KIMBERLY-CLARK

Thick cloth, with excellent absorption capacity and durability when wet. Can absorb large liquid spills and adapt to nearly all surfaces. Reusable. Resistant to ripping and wear, more durable. White virgin cellulose wiper.

Description	Pack (u.)	Art. No.
White roll, 750 services, 31,5cmx34cm	1	0010003651



Cleaning cloths MULTITEX®
ZVG

MULTITEX cloths are nonwoven cloths, unalterable and particle free, used for demanding cleaning in laboratories and in the pharmaceutical industry. Do not release particles. Due to its smooth touch, allows for very delicate surface cleaning. Unaltered by chemical products. High tear resistance (even when wet). Reusable (can be wrung and used again). Great absorption power.

Description	Pack (u.)	Art. No.
White cloths 38x34cm	16x25	0010818-00
White cloths 38x34cm	8x50	0010149-01
White roll, 500 services, 40x30cm	2	0011149-00
Blue roll, 475 services, 38x30cm	2	0011149-01



Cellulose rolls

Cellulose rolls for general cleaning. 2 layer rolls with great absorption power.

Description	Pack (u.)	Art. No.
Roll of 600mx25cm	2	235-100002

235-100002

Roll dispensers



235-1595/1



235-1595/2

Description	Pack (u.)	Art. No.
Floor stand dispenser	1	235-1595/1
Wall dispenser	1	235-1595/2

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0260-60000

Cellulose towels

Cellulose towels with a smooth texture and agreeable to touch. Single use. Double layer providing great absorption and durability.

Zigzag Folded

Description	Pack (u.)	Art. No.
20cmx20cm towels. 196 units per box	6x1	235-00296V
Roll 170m	6x1	0260-60000

Dispensers



235-00295U

Description	Pack (u.)	Art. No.
Dispenser center pull towels	1	235-00249U
Zigzag towel dispenser	1	235-00295U



Nonwoven antistatic cloth

Dupont Sontara baizes are an exclusive nonwoven fabric developed by Dupont for technical cleaning. Durable for repeated use. Antistatic baizes. Resistant to solvents. Resists methy-lethyl-ketone, isopropyl alcohol and other solvents. Less baizes are required for any task thus reducing waste volume.

Description	Pack (u.)	Art. No.
Sontara roll 400 services, 38x30cm	1	235-00280S



Sterile cloth for critical zone use

Resistant to solvents.
Excellent absorption.
Irradiated with gamma rays. Bacterium free.
Durable packaging with double seal. Maintains sterility.

Description	Pack (u.)	Art. No.
Sterile cloths CleanRoom 100, 30x30cm	8x150	235-000303

For further information, please contact scharlab@scharlab.com



235-017196

Toilet paper rolls

Household type toilet paper roll.

Description	Pack (u.)	Art. No.
Household type toilet paper roll	96	235-017196
Long-lasting roll that decreases the frequency of replacement	18	235-000126

Dispensers



235-00102U

Description	Pack (u.)	Art. No.
Roll dispenser, household type	1	235-000108
Long roll dispenser	1	235-00102U

CRUCIBLES

- Filter crucibles, *page 398*
- Metal crucibles, *page 398*
- Porcelain crucibles, *page 400*
- Quartz crucibles, *page 403*

CRUCIBLES: Filter crucibles



Filter crucibles DURAN

Ø (mm)	Porosity	Pack (u.)	Art. No.
28	1	1	0222585111
28	3	1	0222585113
36	4	1	0222585124
36	5	1	0222585125
46	4	1	0222585134

CRUCIBLES: Metal crucibles



Nickel crucibles, 99,5% 1mm wall thickness BOCHEM

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
30	30	15	1	8122000BOC
35	35	25	1	8123000BOC
40	40	30	1	8124000BOC
50	50	70	1	8126000BOC

Nickel lids, 99,5%
BOCHEM

Ø (mm)	Pack (u.)	Art. No.
30	1	8182000BOC
35	1	8183000BOC
40	1	8184000BOC
50	1	8186000BOC

Nickel crucibles, 0,6mm wall thickness
J.P. SELECTA

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
30	32	20	1	0191019830
40	42	45	1	0191019840
50	55	85	1	0191019850
60	65	140	1	0191019860

Nickel lids for crucible
J.P. SELECTA

Ø (mm)	Pack (u.)	Art. No.
30	1	0196019730
40	1	0196019740
50	1	0196019750
60	1	0196019760

Stainless steel crucibles, 0,6mm wall thickness
J.P. SELECTA

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
30	32	20	1	0191009830
40	42	45	1	0191009840
50	55	85	1	0191009850
60	65	140	1	0191009860

Stainless steel lids for crucible
J.P. SELECTA

Ø (mm)	Pack (u.)	Art. No.
30	1	0196009730
40	1	0196009740
50	1	0196009750
60	1	0196009760

Zirconium crucibles, 1,0mm wall thickness
J.P. SELECTA

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
33	30	20	1	0191000563
47	43	50	1	0191000564
52	48	65	1	0191000565
59	51	100	1	0191000566

For further information, please contact scharlab@scharlab.com

Zirconium lids for crucible
J.P. SELECTA

Ø (mm)	Pack (u.)	Referencia
33	1	0196000567
47	1	0196000568
52	1	0196000569
59	1	0196000570

CRUCIBLES: Porcelain crucibles
Alsint 99,7 ceramics crucibles
HALDENWANGER

Temperature resistance up to 1.700°C.

Combustion boats


Combustion boat

Length (mm)	Width (mm)	Height (mm)	Pack (u.)	Art. No.
50	20	20	1	011-CAJA50
50	25	20	1	011-CAJA51
100	32	28	1	011-CAJ100
150	65	19	1	011-CAJ150

Conical, squat shape crucibles


Wide form crucible

Ø sup. / Ø inf. (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
41/18	37	25	1	031-00000B
48/20	41	40	1	011-00001B
54/24	50	60	1	011-00002B
60/26	50	80	1	011-00003B

Conical, tall shape crucibles


Ø sup. / Ø inf. (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
33/18	40	20	1	011-00001C
38/21	47	30	1	011-00002C
42/25	54	45	1	011-00003C
50/27	65	80	1	011-00004C

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Tubular crucible



Ø ext. (mm)	Ø int. (mm)	Height (mm)	Pack (u.)	Art. No.
24	19	100	1	011-TUB024
30	25	100	1	011-TUB030
38	32	100	1	011-TUB038
48	40	100	1	011-TUB048

Combustion boat with eyelet

Length (mm)	Width (mm)	Height (mm)	Pack (u.)	Art. No.
52	7,5	6	1	011-NAVE52
75	11	7	1	011-NAVE75
87	17	9	1	011-NAVE87
115	16	9	1	011NAVE115



Porcelain melting crucibles HALDENWANGER

Glazed crucibles without lid according to DIN 12904.

Tall shape

Ø sup. (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
26	34	11	1	011-79C/00
30	38	15	1	011-079C/0
35	44	24	1	011-079C/1
40	51	40	1	011-079C/2
45	58	50	1	011-079C/3
50	65	85	1	011-079C/4
60	79	140	1	011-079C/5

Squat shape

Ø sup. (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
45	29	25	1	011-0079/1
50	32	40	1	011-0079/2
60	38	65	1	011-079/2A
70	47	95	1	011-0079/3
83	55	180	1	011-0079/4

Medium-high shape

Ø sup. (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
45	36	38	1	011-79MF/6
50	40	50	1	01179MF/6A
52	43	60	1	011-79MF/5
60	50	90	1	011-79MF/4
70	60	150	1	011-79MF/2
82	65	230	1	011-79MF/1

For further information, please contact scharlab@scharlab.com



Porcelain incinerating dishes HALDENWANGER

Incinerating dish, glazed except outside base.

Cylindrical

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
50	25	30	1	011-0033/2
60	31	60	1	011-0033/4

Shallow

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
37	10	8	1	011-033D/2
42	11	10	1	011-033D/3
48	12	15	1	011-033D/4

Rectangular, conical

Length (mm)	Width (mm)	Height (mm)	Pack (u.)	Art. No.
48	26	10	1	011-33C/00
55	42	16	1	01133C/00B
70	46	13	1	011-33C/4B



Porcelain crucible lids HALDENWANGER

Lids for crucibles.

Ø (mm)	Pack (u.)	Art. No.
32	1	011-079D/8
35	1	011-079D/7
43	1	011-79D/7A
46	1	011-079D/6
52	1	011-079D/5
60	1	011-079D/4
68	1	011-079D/3
87	1	011-079D/1

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CRUCIBLES: Quartz crucibles

Clear quartz high form crucibles without lid

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
30	38	15	1	0045716521
35	44	24	1	0045716522
40	50	40	1	0045716523
45	56	50	1	0045716524
50	62	75	1	0045716525
60	75	120	1	0045716526


Clear quartz low form crucibles without lid

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
30	19	6	1	0045716501
35	22	11	1	0045716502
40	25	15	1	0045716503
45	28	25	1	0045716504
50	32	29	1	0045716505
60	38	50	1	0045716506
70	44	85	1	0045716507


Clear quartz medium form crucibles without lid

Ø (mm)	Height (mm)	Cap. (ml)	Pack (u.)	Art. No.
35	28	15	1	0045716511
40	32	20	1	0045716512
45	36	38	1	0045716513
50	40	49	1	0045716514
60	48	90	1	0045716515
70	56	150	1	0045716516

Quartz lids for clear crucible

Ø int. lid (mm)	Ø crucible (mm)	Pack (u.)	Art. No.
34	30	1	0045716531
39	35	1	0045716532
44	40	1	0045716533
49	45	1	0045716534
54	50	1	0045716535
64	60	1	0045716536
74	70	1	0045716537

For further information, please contact scharlab@scharlab.com

CUVETTES

Disposable cuvettes
KARTELL

Standard and semi micro disposable cuvettes for spectroscopy made of optical PS and PMMA UV. Grade optical windows to achieve optimal transmittance through spectral rang from 340 to 800nm (OPS) an from 280 to 800nm (PMMA UV grade). The engineering and quality control determine the reproducibility of the cuvettes. These are strictly controlled and variations should be within the range $\pm 1\%$ absorption. This is vital when batch analysis is being undertaken. Dust proof packing.

Polystyrene (OPS)

Type	Volume (ml)	Pack (u.)	Art. No.
Semi micro, low form	1,5	100	425-001938

PMMA

Type	Volume (ml)	Pack (u.)	Art. No.
Standard cuvette	4,5	100	425-001939
Semi micro, low form	2,5	100	425-001941
Semi micro, high form	1,5	100	425-001948
4 facce ottiche	4,5	100	425-001961


Macro and semi-micro disposable cuvettes
BRAND

Standard disposable macro and semi-micro cuvettes are ideal for kinetic measurements and are supplied in a clearly arranged and resealable packaging. These cuvettes are delivered grouped by mold cavity number to ensure lowest variation of extinction coefficient.

- Clear, clean optical path with indication of optical path orientation
 - Manufactured under controlled room conditions and fully automatic packaging
 Cuvettes of polystyrene (PS). Typical range of application: 340 to 900nm. Standard deviation at 360nm $\leq \pm 0,005$ extinction units.

Cuvettes of polymethyl methacrylate (PMMA). Typical range of application: 300 to 900nm. Standard deviation at 320 nm $\leq \pm 0,004$ extinction units.

Dimensions:

- Cuvette: 12,5x45x12,5mm
- Window: macro cuvette: 10x35mm
- Window: semi-micro cuvette: 4,5x23mm
- Light path: 10mm

Description	Material	Min. volume (ml)	Max. volume (ml)	Pack (u.)	Art. No.
Macro cuvette	PS	2,5	4,5	100	022-759005
Semi-micro cuvette	PS	1,5	3	100	022-759015
Macro cuvette	PMMA	2,5	4,5	100	022-759105
Semi-micro cuvette	PMMA	1,5	3	100	022-759115

Spectrophotometers
 in **page 995**





UV cuvettes, plastic BRAND

UV-Cuvettes micro:

- Two different center heights: 8,5mm and 15mm
- Specially designed for photometric determination of proteins, ssDNA, dsDNA, RNA and oligonucleotides in the UV range
- Usable from 220nm. Ideally suited for measurements at 260nm, 280nm and in the visible range
- Standard 10mm light path
- Sample volumes as small as 70µl are sufficient
- Individually wrapped UV-cuvettes micro are free of DNase, DNA and RNase

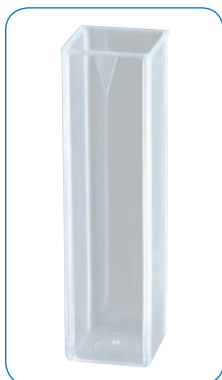
UV-Cuvette macro and semi-micro

- Ideally suited for determinations in water analysis, chemistry, and in life science applications
- Usable with most polar solvents, acids and alkaline solutions
- Drastically reduced risk of contamination and lower costs compared to quartz glass cuvettes

Technical data

- Standard deviation
- 240nm: $\leq \pm 0,007$ extinction units
- 300nm: $\leq \pm 0,005$ extinction units
- Typical range of application: 220 a 900nm
- Light path: 10mm

Description	Min. volume	Max. volume	Window (mm)	Pack (u.)	Art. No.
UV-Cuvette semi-micro	1,5ml	3ml	4,5x23	100	022-759150
UV-Cuvette macro	2,5ml	4,5ml	10x35	100	022-759170
UV-Cuvette micro, 8,5mm center height	70µl	850µl	2x3,5	100	022-759200
UV-Cuvette micro, 8,5mm center height	70µl	850µl	2x3,5	500	022-759210
UV-Cuvette micro, 8,5mm center height, unit pack	70µl	850µl	2x3,5	100	022-759215
UV-Cuvette micro, 15mm center height	70µl	850µl	2x3,5	100	022-759220
UV-Cuvette micro, 15mm center height	70µl	850µl	2x3,5	500	022-759230
UV-Cuvette micro, 8,5mm center height, unit pack	70µl	850µl	2x3,5	100	022-759235
Lid for UV-Cuvette micro, blue	-	-	-	100	022-759240
Lid for UV-Cuvette micro, yellow	-	-	-	100	022-759241
Lid for UV-Cuvette micro, green	-	-	-	100	022-759242



Macro cuvette BRAND

Made of cristal clear PS, range of application 340 to 900nm.

- Low deviation of extinction values
- Excellent optical transmission
- With 2 vision panels
- Deposit thickness 10mm
- External measurements 10x10x45mm
- Supplied in high quality polystyrene pack

Type	Volume (ml)	Pack (u.)	Art. No.
Macro cuvettes	4	100	0002711110

Cuvette rack BRAND

PP, gray. Holds 16 cuvettes, numbered positions. Autoclavable up to +121°C. Dimensions (LxWxH): 210x70x38mm

Description	Pack (u.)	Art. No.
Cuvette rack	1	022-759500

For further information, please contact scharlab@scharlab.com

Macro cells
HELLMA

For photometry and spectrophotometry. From the description of each cell model you can find out it's composition and therefore it's transmission range:

- OG: Optical glass (360-2500nm)
- OS: Special optical glass (320-2500nm)
- UV: Quartz HERASIL (230-2500nm)
- Q/QG: Quartz SPECTROSIL (200-2500nm)
- QS: Quartz SUPRASIL (200-2500nm)
- QX: Quartz SUPRASIL 300 (IR) (200-3500nm)

Technical data:

- Height: 45mm (with stopper 46mm)

Here are described only the most commonly used cells. Paired cells are available. The reference of a paired cell is constructed by replacing the first zero after the dash by a 2. For example, the paired cell corresponding to the cell with the reference 048-200404 would be 048-220404.



6030-OG 10mm



100-OS 10mm



110-OS 10mm

Type	Lid	Light path (mm)	Dim. WxHxD (mm)	Volume (µl)	Pack (u.)	Art. No.
6030-OG	No	10	12,5x45x12,5	3.500	1	048-200400
6030-OG	No	50	12,5x45x52,5	17.500	1	048-200664
100-OS	PTFE	10	12,5x45x12,5	3.500	1	048-200404
100-OS	Glass	1	12,5x45x3,5	350	1	048-200442
100-OS	Glass	2	12,5x45x4,5	700	1	048-200443
100-OS	PTFE	5	12,5x45x7,5	1.750	1	048-200456
100-OS	PTFE	50	12,5x45x52,5	17.500	1	048-200457
100-QS	PTFE	10	12,5x45x12,5	3.500	1	048-200406
100-QS	Glass	1	12,5x45x3,5	350	1	048-200447
100-QS	PTFE	5	12,5x45x7,5	1.750	1	048-200553
100-QS	PTFE	50	12,5x45x52,5	17.500	1	048-200534
110-OS	PTFE stopper	10	12,5x45x12,5	3.500	1	048-200409
110-QS	PTFE stopper	10	12,5x45x12,5	3.500	1	048-200410
117.100-QS	Septum screw cap	10	12,5x45x12,5	3.500	1	048-201423
100-Q	PTFE	10	12,5x45x12,5	3.500	1	048-233000



6040-OG

Semi-micro cells
HELLMA

For photometry and spectrophotometry.

Technical data:

- Height: 45mm (with stopper 46mm)
- Width: 12,5mm
- Inside-width: 4mm
- Volume: 1400µl
- Light path: 10mm

Here are only described the most usable cells. They are available paired cells. The reference of a paired cell is constructed by replacing the first zero after the script for one 2. For example, the paired cell of the cell with the reference 048-200402 will be 048-220402.

Type	Description	Transmission (nm)	Pack (u.)	Art. No.
6040-OG	Special optical glass, without lid	360 to 2500	1	048-200402
104-OS	Special optical glass, PTFE lid	320 to 2500	1	048-200411
104-QS	Quartz SUPRASIL, PTFE lid	200 to 2500	1	048-200433
114-QS	Quartz SUPRASIL, PTFE stopper	200 to 2500	1	048-200539

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Micro cells

HELLMA

For photometry and spectrophotometry.

Technical data:

- Height: 45mm (with stopper 46mm)
- Width: 12,5mm
- Inside-width: 2mm
- Light path: 10mm

Here are only described the most usable cells. They are available paired cells. The reference of a paired cell is constructed by replacing the first zero after the script for one 2. For example, the paired cell of the cell with the reference 048-200404 will be 048-220404



104.002-OS



104.002B-OS



115-QS

Model	Material	Closure	Transmission (nm)	Vol. (µl)	Pack (u.)	Art. No.
104.002-OS	Special optical glass	PTFE lid	320 to 2500	700	1	048-200425
104.002-QS	Quartz SUPRASIL	PTFE lid	200 to 2500	700	1	048-200426
104.002B-OS	Special optical glass	PTFE lid	320 to 2500	700	1	048-200415
115-QS	Quartz SUPRASIL	PTFE stopper	200 to 2500	400	1	048-200581
115B-QS	Quartz SUPRASIL	PTFE stopper	200 to 2500	400	1	048-200513

Ultra-micro cells

HELLMA

For photometry and spectrophotometry.

Technical data:

- Height: 40/45mm
- Width: 12,5mm
- Light path: 10mm
- Window material: quartz SUPRASIL
- Transmission range: 200 to 2500nm

Here are only described the most usable cells. They are available paired cells. The reference of a paired cell is constructed by replacing the first zero after the script for one 2. For example, the paired cell of the cell with the reference 048-200404 will be 048-220404



105.201-QS



105.203-QS

Model	Closure	Central height (mm)	Aperture (mm)	Chamber vol. (µl)	Max. volume (µl)	Pack (u.)	Art. No.
105.201-QS	PE stopper	8,5	5x2	100	120	1	048-203037
105.201-QS	PE stopper	15	5x2	100	120	1	048-201478
105.203-QS	PE stopper	8,5	Ø 2,5	50	70	1	048-285013
105.203-QS	PE stopper	15	Ø 2,5	50	70	1	048-285014
105.210-QS	Pipette tips	8,5	Ø 0,8	5	10	1	048-202363
105.210-QS	Pipette tips	15	Ø 0,8	5	10	1	048-203042

For further information, please contact scharlab@scharlab.com

Fluorescence cells

HELLMA

For fluorimetry. With 4 optical windows.

Technical data:

- Height: 45mm (with stopper 46mm)
- Width: 12,5mm
- Window material: quartz SUPRASIL
- Transmission range: 200 to 2500nm

Here are only described the most usable cells. They are available paired cells. The reference of a paired cell is constructed by replacing the first zero after the script for one 2. For example, the paired cell of the cell with the reference 048-200408 will be 048-220408.



Macro-101-QS



Semi-micro-114F-QS



Ultra-micro-105.253-QS

Model	Closure	Transmission (mm)	Central height (mm)	Aperture (mm)	Chamber vol. (µl)	Pack (u.)	Art. No.
Macro-101-QS	PTFE Lid	10x10	-	-	3500	1	048-200408
Macro-111-QS	PTFE stopper	10x10	-	-	3500	1	048-200417
Semi-micro-104F-QS	PTFE Lid	10x4	-	-	1400	1	048-200531
Semi-micro-114F-QS	PTFE stopper	10x4	-	-	1400	1	048-200681
Ultra-micro-105.253-QS	PE stopper	10x2	8,5	5x2	100	1	1052538540
Ultra-micro-105.253-QS	PE stopper	10x2	15	5x2	100	1	1052531540

Flow-through cells

HELLMA

For photometry and spectrophotometry. With inlet and outlet tubes.

Width: 12,5mm

176.700-QSX cells with 2 screw connectors M6x1 and FEP tubings (outside Ø 1,9mm, inside Ø 1,1mm, 500mm long)



Macro-170-QS



Semi-micro-176.700-QS



Micro-178.010-QS

Model	Window material	Transmission range (mm)	Light path (mm)	Height (mm)	Aperture (mm)	Vol. (µl)	Central height (mm)	Pack (u.)	Art. No.
Macro-170-QS	Special optical glass	320 a 2500	1	35	17,5x6,5	120	-	1	048-200458
Macro-170-QS	Quartz SUPRASIL	200 a 2500	0,1	35	17,5x3,5	6,2	-	1	048-201379
Macro-170-QS	Quartz SUPRASIL	200 a 2500	1	35	17,5x6,5	120	-	1	048-200684
Macro-170-QS	Quartz SUPRASIL	200 a 2500	2	35	17,5x6,5	240	-	1	048-201395
Semi-micro-176.700-QSX	Quartz SUPRASIL	200 a 2500	10	35	11x3,5	390	8,5	1	048-201301
Semi-micro-176.700-QSX	Quartz SUPRASIL	200 a 2500	10	35	11x3,5	390	15	1	048-201339
Semi-micro-176.700-QS	Quartz SUPRASIL	200 a 2500	10	38,5	11x4	450	8,5	1	048-200516
Micro-178.010-QS	Quartz SUPRASIL	200 a 2500	10	45	Ø 3	80	15	1	048-200557
178.011-QS	Special optical glass	320 a 2500	10	38,5	Ø 2	30	8,5	1	048-203068

Flow-through cells with screw connectors

HELLMA

For photometry and spectrophotometry.

- AL-holder with 2 screw connectors M6x1 and FEP tubings (outside \varnothing 1,9mm, inside \varnothing 1,1mm, 500mm long)
- Window material: quartz SUPRASIL
- Transmission range: 200 to 2500nm
- Outside height: 35mm
- Width: 12,5mm



Macro-170.700-QS



Micro-176.703-QS

Model	Light path (mm)	Central H (mm)	Aperture (mm)	Volume (μ l)	Pack (u.)	Art. No.
Macro-170.700-QS	0,1	-	17x3,5	6,2	1	048-203019
Macro-170.700-QS	0,2	-	17x3,5	12,4	1	1707000240
Macro-170.700-QS	1	-	17x3,5	62	1	048-200686
Micro-176.703-QS	10	8,5	8x2	160	1	1767038540
Micro-176.703-QS	10	15	8x2	160	1	1767031540



Calibration standards for spectrophotometers

HELLMA

Certified calibration standards ensure measurement results.

Spectrophotometers only provide correct results in the long run, if they are recalibrated regularly. UV/Vis calibration standards from accredited Hellma® Analytics calibration laboratory are traceable to primary standards of the NIST and thus assure the international comparability of measurement results. Internal quality requirements can therefore be met ideally.

- Glass filters: for testing spectrophotometers. Photometric accuracy in the visible spectral region.
- Liquid filters: for testing spectrophotometers to acc. to European Pharmacopoeia, wavelength accuracy, photometric accuracy, stray light behavior, resolution.

Technical data:

- Height: 48mm
- Width: 12,5mm
- Depth: 12,5mm

Description	Pack (u.)	Art. No.
Glass filter set 666.000	1	048-202371
Liquid filter set 667.003-UV	1	667.003-UV



Cleaning solution for cells HELLMANEX® III

HELLMA

For an effective cleaning of quartz and glass cells and other sensitive optical components.

Type	Volume (ml)	Pack (u.)	Art. No.
Hellmanex® III, PE bottle	1000	1	048-320003

DENSIMETERS AND ALCOHOLOMETERS

- **Aerometers, page 410**
- **Alcoholometers, page 410**
- **Densimeters, page 410**

DENSIMETERS AND ALCOHOLOMETERS: Aerometers
Baumé aerometers

Reference temperature 15°C.

Range	Division	Units	Length (mm)	Pack (u.)	Art. No.
0-10	0,1	°Be	280	1	073-001850
10-20	0,1	°Be	280	1	073-001851
20-30	0,1	°Be	280	1	073-001852
30-40	0,1	°Be	280	1	073-001853
0-20	0,1	°Be	240	1	073-001857
20-40	1/1	°Be	240	1	073-001858

DENSIMETERS AND ALCOHOLOMETERS: Alcoholometers
Alcoholometers

For determination of alcohol content by different methods.

Characteristic	Range (%vol)	Division	Length (mm)	Pack (u.)	Art. No.
Without thermometer	0-20	0,2	330	1	073-001787
Without thermometer	20-40	0,2	330	1	073-001788
Without thermometer	40-60	0,2	330	1	073-001789
Without thermometer	60-80	0,2	330	1	073-001790
Europe Class II (without thermometer)	10-20	0,1	380	1	073-001783
Europe Class II (without thermometer)	90-100	0,1	380	1	073-001786

DENSIMETERS AND ALCOHOLOMETERS: Densimeters
ASTM densimeters

Reference temperature 15°C, complete in a plastic cover

Characteristic	Range	Division	Units	Length (mm)	Pack (u.)	Art. No.
ASTM 314H-82	750-800	0,5	kg/m ³	330	1	073-827136
ASTM 315H-82	800-850	0,5	kg/m ³	330	1	3222155/03

Densimeters

Reference temperature 20°C

Characteristic	Range	Division	Units	Length (mm)	Pack (u.)	Art. No.
Without thermometer	0,800-0,900	0,001	g/cm ³	300	1	073-001822
Without thermometer	0,900-1,000	0,001	g/cm ³	300	1	073-001823
Without thermometer	1,000-1,100	0,001	g/cm ³	300	1	073-001824
Without thermometer	1,200-1,300	0,001	g/cm ³	300	1	073-001826
Without thermometer	1,300-1,400	0,001	g/cm ³	300	1	073-001827
Without thermometer	1,500-1,600	0,001	g/cm ³	300	1	073-001829
Without thermometer	1,900-2,000	0,001	g/cm ³	300	1	073-001833

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DIN densimeters

Reference temperature 20°C.

Characteristic	Range	Division	Units	Length (mm)	Pack (u.)	Art. No.
DIN 12 791 L50	0,95-1,00	0,0005	g/cm ³	Max 335	1	073-001849
DIN 12 791/BS 718 L50	0,75-0,80	0,0005	g/cm ³	Max 335	1	073-001845
DIN 12 791/BS 718 L50	1,00-1,05	0,0005	g/cm ³	Max 335	1	073-001838

DESICCATORS**Vacuum desiccators, knobbed lid**
SCHARLAU

Nominal size (mm)	Height with lid (mm)	Ø flange (mm)	Pack (u.)	Art. No.
150	265	215	1	0033596112
200	315	270	1	0033596113
250	370	320	1	0033596114
300	445	380	1	0033596115

**Vacuum desiccators, lid with junction tube**
SCHARLAU

Female ground joint stopper 24/29

Nominal size (mm)	Height with lid (mm)	Ø flange (mm)	Pack (u.)	Art. No.
150	250	215	1	0033596312
200	300	270	1	0033596313
250	355	320	1	0033596314

**Vacuum desiccator without lid**
SCHARLAU

Nominal size (mm)	Height (mm)	Ø flange (mm)	Pack (u.)	Art. No.
100	115	153	1	0033596001
150	160	215	1	0033596002
200	205	270	1	0033596003
250	240	320	1	0033596004
300	290	380	1	0033596005

For further information, please contact scharlab@scharlab.com



Lid for desiccator with socket 24/29, DIN 12491
SCHARLAU

Nominal size (mm)	Height (mm)	Pack (u.)	Art. No.
150	90	1	0033596302
200	115	1	0033596303
250	145	1	0033596304
300	155	1	0033596305



Knobbed lids for desiccator, DIN 12491
SCHARLAU

Nominal size (mm)	Height (mm)	Pack (u.)	Art. No.
150	105	1	0033596102
200	110	1	0033596103
250	130	1	0033596104
300	155	1	0033596105



Desiccator plates
SCHARLAU

Nominal size (mm)	Ø (mm)	Pack (u.)	Art. No.
150	140	1	0033596802
200	190	1	0033596803
250	235	1	0033596804
300	280	1	0033596805



PTFE stopcock for vacuum desiccator, cone NS 24 / 29
SCHARLAU

Ground joint	Pack (u.)	Art. No.
24/29	1	0033596900

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Basic Mini Desiccator BOLA

Minidesiccator of polycarbonate, one compartment. Temperature range: -35°C to +70°C. Normal pressure. Stackable. Desiccant included.

Ext. dim. WxHxD (mm)	Int. dim. WxHxD (mm)	Volume (l)	Weight (Kg)	Pack (u.)	Art. No.
221x183x214	212x162x180	6,2	0,9	1	0005042646



Basic Mini-Desiccator for gas filling BOLA

Minidesiccator of polycarbonate, one compartment. Temperature range: -35°C to +70°C. Normal pressure. Stackable. Desiccant and hose with connection for gas filling included.

Ext. dim. WxHxD (mm)	Ext. dim. WxHxD (mm)	Volume (l)	Weight (Kg)	Pack (u.)	Art. No.
221x183x216	212x162x182	6,2	0,9	1	00V1849-06



Premium Mini Desiccator BOLA

Minidesiccator of polycarbonate, one compartment with two shelves. Temperature range: -35°C to +70°C. Normal pressure. Stackable. Hygrometer. Desiccant included.

Ext. dim. WxHxD (mm)	Int. dim. WxHxD (mm)	Volume (l)	Weight (Kg)	Pack (u.)	Art. No.
221x183x215	212x162x181	6,2	0,9	1	00V1950-01



Filtration and vacuum desiccator of PP and PC KARTELL

Ø (mm)	Volume (l)	Ext. height (mm)	Usable height (mm)	Pack (u.)	Art. No.
150	2,15	190	135	1	425-000550
200	4,35	230	175	1	425-000230
250	9,2	300	225	1	425-000554

For further information, please contact scharlab@scharlab.com

DISPENSATION

- **Dispensers, page 414**
- **Liquid transfer systems, page 416**

DISPENSATION: Dispensers

Dispensers
SCHARLAU

Economical and chemically resistant dispensers, with precision dosage thanks to an optimized pumping system. A PTFE adjustment system makes it compatible with all media that do not attack PTFE or borosilicate glass, ergo, nearly all solvents and acids. Exceptions: solutions containing hydrofluoric acid, crystallizing solutions, which contain or form solid materials, as well as catalytically modifiable substances by platinum-iridium. Oxidizable solutions, inorganics (e.g. Biuret reagent) that can precipitate malic oxides. Sterilization resistant when autoclaved at 121°C. Suitable for acids and bases. disassembled for easy cleaning. Provided with a calibration certificate and 2 adaptors.

Range (ml)	Dosage (ml)	Dead space (ml)	Inaccuracy (VK)	Imprecision (CV)	Adapter GL	Pack (u.)	Art. No.
0,5 to 2,5	0,05	0,21	±0,6%	≤0,1%	28, S40, 45	1	033-065.01
1 to 5	0,10	0,18	±0,5%	≤0,1%	28, S40, 45	1	033-065.02
2 to 10	0,20	0,17	±0,5%	≤0,1%	28, S40, 45	1	033-065.03
5 to 25	0,50	1,20	±0,5%	≤0,1%	32, 38, 40	1	033-065.04
10 to 50	1,00	1,31	±0,5%	≤0,1%	32, 38, 40	1	033-065.05
20 to 100	2,00	1,21	±0,5%	≤0,1%	32, 38, 40	1	033-065.06

Accessories

Description	Pack (u.)	Art. No.
Telescopic filling tube. Can be elongated from 200 to 350mm	1	0331671085
Kit (consists of an adapter for 5 litre can dispenser + filling tube)	1	033-AD5L+T
30cm filling tube (for 25 to 100ml dispensers), 8x10mm	1	033-TUB030
30cm filling tube (for dispensers up to 10ml), 6x8mm	1	033TUB030P

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Ceramus® Dispensers HIRSCHMANN

High Class dispensing. All components which determine volume are manufactured of ceramics and precise calibrated glass. The dispensing piston made of high-purity aluminium oxide ceramic and the DURAN® glass cylinder guarantee a maximum level of chemical and thermal resistance. The high-quality materials in all parts conveying medium enable use within a temperature range from 4°C to 50°C. The complete unit can be steam sterilised at 121°C without dismantling. Absolute reproducibility. Thanks to its toothed graduated plunger recalibration is unnecessary. Equipped with a unique recirculation system. Ergonomic design. Rotates 360° on bottle. Reference 6709342300 corresponds to HF model, specially conceived for hydrofluoric acid dispensing. Can be adapted directly to flasks with GL45 mouth and is provided with three adaptors (GL32, GL38 and S40).

Range (ml)	Subdivisions (ml)	Inaccuracy (%)	Imprecision CV (%)	Pack (u.)	Art. No.
0,2-1,0	0,05	0,6	0,2	1	6709312000
0,4-2,0	0,05	0,5	0,1	1	6709322000
1,0-5,0	0,1	0,5	0,1	1	6709332000
2,0-10,0	0,25	0,5	0,1	1	6709342000
2,0-10,0	0,25	0,5	0,1	1	6709342300
5,0-30,0	0,5	0,5	0,1	1	6709352000
10,0-60,0	1,0	0,5	0,1	1	6709362000

Accessories

Description	Pack (u.)	Art. No.
FEP discharge tube	1	6709313025
Flexible discharge tube, spiral (approx. 1m working distance) I.D. 1,5mm	1	6709313026
Flexible discharge tube, spiral (approx. 1m working distance) I.D. 3mm	1	6709313027
Fitting wrench	1	6709316901
FEP suction tube 310mm	1	6709315005
FEP suction tube 400mm	1	6709315007



Genius dispensers VITLAB

High precision dispenser. Plunger with a PFA edge. Special redosing valve to prevent reagent loss during the purging process. Materials in contact with liquids: PTFE, PFA, FEP, borosilicate glass and iridium-plastic. Resistant to most acids, solvents and bases. Reference 0001606515 is special for hydrofluoric acid. Autoclavable at 121°C. Provided complete with: 3 PP adaptors, 1 telescopic suction hose (from 200 to 350mm), 1 fitting wrench, instruction manual and a certificate of quality.

Range (ml)	Inaccuracy (%)	CV (%)	Dosage	Thread GL	Adapter	Pack (u.)	Art. No.
0,25-2,5	≤±0,6	≤0,1	0,05	32	28, 40, 45	1	0001605503
0,5-5,0	≤±0,5	≤0,1	0,10	32	28, 40, 45	1	0001605504
1,0-10,0	≤±0,5	≤0,1	0,20	32	28, 40, 45	1	0001605505
2,5-25,0	≤±0,5	≤0,1	0,50	45	32, 38, S40	1	0001605506
5,0-50,0	≤±0,5	≤0,1	1,00	45	32, 38, S40	1	0001605507
10,0-100,0	≤±0,5	≤0,1	2,00	45	32, 38, S40	1	0001605508
1,0-10,0	≤±0,5	≤0,1	0,20	45	25, 28, 32, 38, S40	1	0001606515

Accessories

Description	Pack (u.)	Art. No.
Telescopic filling tube (200-350mm length) FEP, ETFE, PTFE all sizes.	1	0331671085



Piccolo microdispensers VITLAB

For dosing of tiny quantity of liquids with precision. The ergonomic design allows its use with just one hand. Discharge tube can be rotated 360°. Liquid only comes in contact with PTFE, PFA, ETFG, FEP, borosilicate glass and platinum-iridium. Piccolo 1 is available with different fixed volumes. Piccolo 2 allows the selection of 2 fixed volumes using a simple rotatory movement. Provided complete with: discharge cannula, expulsion tube, mounting key and instruction manual.

Model	Range (µl)	Inaccuracy (%)	CV	Thread GL	Adapter GL	Pack (u.)	Art. No.
Piccolo 1	100	≤±3,0%	≤0,4%	28	32	1	0001610501
Piccolo 1	200	≤±2,5%	≤0,4%	28	32	1	0001610502
Piccolo 1	250	≤±2,0%	≤0,4%	28	32	1	0001610503
Piccolo 1	500	≤±1,5%	≤0,3%	28	32	1	0001610504
Piccolo 1	1000	≤±1,0%	≤0,2%	28	32	1	0001610506
Piccolo 2	100/250	≤±2,0%	≤0,4%	28	32	1	0001611503
Piccolo 2	500/1000	≤±1,0%	≤0,2%	28	32	1	0001611506
Piccolo 2	1000/2000	≤±1,0%	≤0,2%	28	32	1	0001611508

DISPENSATION: Liquid transfer systems



Otal pumps BÜRKLE

Thanks to its flexible conical PVC adaptor, it can be used with a wide variety of containers, with mouths from 30 to 70cm diameter. Liquid is extracted when introducing air pressure with a hand bulb (manual pump) or by a foot blower (foot pump). All parts in contact with liquid are made of polypropylene. Pumping capacity: 26L/min. Telescopic suction hose of 70cm (I.D. 18mm; E.D. 23mm).

Description	Pack (u.)	Art. No.
Foot Pump. Ø 14cm bellows. 150cm hose	1	004-018471
Hand pump	1	004-017201



Plastic siphon BÜRKLE

For water and other harmless liquids. The suction hose is 75cm long and 13mm in diameter. 100cm long hose with an approximate aspiration path volume: 15ml.

Description	Pack (u.)	Art. No.
Plastic siphon	1	004-007321

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Polypropylene barrel pumps BÜRKLE

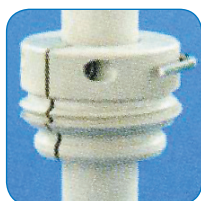
Suitable for acids, basis and detergents transfers. With rigid discharge tube. Container adaptor not included.

Submersible length (cm)	Total length (cm)	Pumping cap. (ml/line)	Pack (u.)	Art. No.
100	109	300	1	5600-01001
50	59,5	200	1	05600-0501

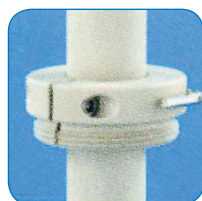
Required adapter to choose



PVC adapter



2" internal thread adapter

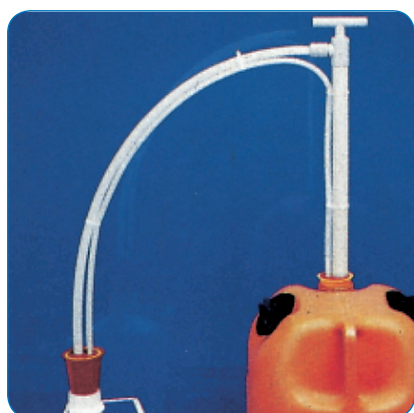


R2" internal thread adapter



Trisure internal thread adapter

Description	Pack (u.)	Art. No.
PVC barrel plug for openings with a diameter from 40-70mm	1	0005600-15
Mauser 2", internal coarse thread	1	0005600-17
R2", internal steel barrel thread	1	0005600-13
Trisure, internal coarse thread	1	0005600-18



Polypropylene blocked pump to prevent vapour escapes BÜRKLE

Polypropylene, with a PVC hose. Evacuation gases created during the pumping process are returned to the original container through a gas pipe so that harmful or smelly gases do not escape outside. With a universal adaptor for openings from 30 to 70mm. Suitable for containers from 40 to 70cm in height. Hose length 120cm approximately. Recommended by BG Chemie Germany.

Description	Pack (u.)	Art. No.
PP blocked pump	1	004-0E0131



Pump-it® container pump BÜRKLE

The manual pumping of the cylindrical plunger allows air to enter and liquid extraction by positive pressure. Materials in contact with liquid ; PP, PE and Viton®. For liquids with viscosity up to 1500cps at 20°C. 64mm diameter thread (BSI). Suitable for weak acid, base and hydrocarbon transfers. Pumping capacity: 8L/min. Immersion tube of 100cm. Adaptors available for different containers and standard canisters.

Description	Pack (u.)	Art. No.
Pump-it® pump	1	004-016011

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Adapters for outer thread of container


Description	Pack (u.)	Art. No.
2" thread, thick Mauser L-ring type (green)	1	004-016041
2" thread, Van Leer Trisure type (brown)	1	004-016061
2" thin thread, for metal drums (blue)	1	004-016031

Adapters for inner thread of container


Description	Pack (u.)	Art. No.
Thread DIN60, Mauser Faset (black). Suitable for 343-025NMA (left)	1	004-016051
Thread DIN51 (black) (right)	1	004-0H0711
Thread DIN61 (yellow/blue)	1	0005201-21
Thread DIN71 (brown/blue)	1	0005201-22
Adapter set	5	004-016021


**Stainless steel pumps for flammable liquids
BÜRKLE**

Pumps for steel containers up to 200L.

Description	Submersible length (cm)	Total length (cm)	Pumping cap. (ml/line)	Pack (u.)	Art. No.
Steel pump with rigid spout (left)	91	103	560	1	0005601-80
Steel pump with flexible 1,2m PTFE/steel tube and NW8 ball valve with a 12,8mm outlet (right)	91	103	560	1	005601-081
Required washer, for use with steel pump with flexible PTFE/steel tube	-	-	-	1	05601-0100

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B1 rechargeable pump for laboratories LUTZ

Ideal for dispensing small liquid amounts easily, comfortably and safely from containers up to 200l. Rechargeable battery-powered. For acid, alkaline and thin-bodied chemical fluids, battery acids, glycols, phosphoric acid, hydrochloric acid, ammonia water, etc. The battery charger can be used as a desktop unit or wall mounted.

Technical data:

- Material: polypropylene.
- Flow: 16l/min.
- Flow height: 8 mca.
- Density: 1,3kg/dm³.
- Viscosity: 200mPas.
- Environment temperature: from 0°C to 40°C.

Set includes: 9,6V battery, 25mm diam. polypropylene tube, flexible 1,5m PVC tube, clip (charger not included).

Immersion depth (mm)	Pack (u.)	Art. No.
500	1	000205-053
700	1	000205-054
1000	1	000205-055

Accessories

Description	Pack (u.)	Art. No.
Battery Charger, 230V (required)	1	000001-050
Discharge nozzle	1	000201-094



B2 Vario laboratory pump LUTZ

The new Lutz B2 Vario Pump comes with more features and benefits to meet the needs of working in clean and quiet environments. The speed-controllable motor and the new nozzle in the kit allows small quantities of liquids to be transferred safely and quietly. The modular construction allows effortless servicing without special tools.

Technical data:

- Universal motor: 200W, 230V, 50Hz. With speed regulator, protection class II, IP 24, protection switch and 3m connection wire
 - Pump material: polypropylene or stainless steel
 - Density: max. 1,3kg/dm³
 - Viscosity: max. 300mPa·s
 - Flexible tube connection: nominal diam. 19mm/external thread G1
 - For aqueous fluids. Not suitable for flammable liquids.
- Set includes: pump, nozzle, 2 x hose clips 3/4", flexible PVC tube 3/4" of 1,5m, wall bracket.

Set 1. Lutz B2 Vario Polypropylene

Immersion depth (mm)	Material pump/roll	Ø tube (mm)	Average temp. (°C)	Weight (Kg)	Pack (u.)	Art. No.
500	PP/PP	32	-15 to +90	2,2-2,5	1	000205-020
700	PP/PP	32	-15 to +90	2,2-2,5	1	000205-021
1000	PP/PP	32	-15 to +90	2,2-2,5	1	000205-022

Set 2. Lutz B2 Vario Stainless steel

Immersion depth (mm)	Material pump/roll	Ø tube (mm)	Average temp. (°C)	Weight (Kg)	Pack (u.)	Art. No.
500	Stainlees steel/ETFE	28	-15 to +90	2,9-3,5	1	000205-030
700	Stainlees steel/ETFE	28	-15 to +90	2,9-3,5	1	000205-031
1000	Stainlees steel/ETFE	28	-15 to +90	2,9-3,5	1	000205-032

For further information, please contact scharlab@scharlab.com

DRUMS AND CONTAINERS

- Metallic containers *page 420*
- Plastic containers, *page 423*
- Safety barrels, *page 426*

DRUMS AND CONTAINERS: Metallic containers



Stainless steel container

Reusable stainless steel drum, approved for transport of dangerous goods. With screwcap GL45 so that they can be adapted to dispensers and caps of analytical instruments (HPLC, titrators). Easy handling due to its metal handle and safer than a glass flask. Occupies less space than 3 2,5L flasks. Suitable for storing of all stainless steel compatible liquids, even for those of greater purity.

Capacity (l)	Pack (u.)	Art. No.
7	1	FAB-VER07E



Dispensing system

Dispensing system by manual positive pressure for the 7 liter stainless steel drums.

Description	Pack (u.)	Art. No.
Dispensing system	1	028-0EK07S



Aluminium container

Aluminum container with screwcap GL45, approved for transport of dangerous goods.

Capacity (l)	Pack (u.)	Art. No.
5	1	FAB-BA005L

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Pressurizable stainless steel containers

Pressurizable containers which can be used on mounts for long distance dispensing of solvents. Liquid can be extracted by positive pressure of an inert gas through a steel dispenser system. The absence of polymeric joints between the different container parts allows solvent preservation. Suitable for any solvent, except for chlorinated solvents, due to its chemical incompatibility with steel. Stainless steel containers, cap with PTFE joint.

Capacity (l)	Pack (u.)	Art. No.
20 (Suitable for SPS)	1	055-00020S
30	1	055-OLTA30
185	1	055-INO185



Dispensing system for pressurizable 30L drums

Dispensing system by positive pressure with inert gas for 30 liter pressurizable steel drums. Includes: 2" steel adapter, screwed deep pipe, spiral gas inlet, PTFE/steel 1,5m tube and self-closing taps.

Description	Pack (u.)	Art. No.
Positive pressure extraction system for 30 litres steel containers	1	028-000002



Dispensing system for pressurizable drums

Steel dispensing system by positive pressure with inert gas for pressurizable steel drums, for in-line mounts. Security valve VYC tared at 3bar, fast Swagelock lugs QC4 and QTM2 for for coupling gas inlet pipe and product outlet, vent valve and product stopcock.

Description	Pack (u.)	Art. No.
Block dispenser	1	649-000019
Deep pipe for 30L drums	1	649-000020
Deep pipe for 185L and 200L drums	1	649-000021
Male-female accessories connectors	1	649-000022



White metallic container

White coloured container. It has 2 caps: 2" and 3/4", sealable. With two handles at 180°. Suitable for containing liquid products. Approved for transport of dangerous goods.

Capacity (l)	Pack (u.)	Art. No.
25	1	0559BM025L



Blue metallic container

Blue coloured container. It has 2 caps: 2" and 3/4", sealable. Also 2 180° handles. Suitable for containing liquid products. Approved for transport of dangerous goods.

Capacity (l)	Pack (u.)	Art. No.
200	1	0559BM200L



Container with inner covering

25 liter container with a Lupolen® interior, inner covering of plastic, for avoiding solvent attacks. With two handles at the opposite sides. Approved for road transport.

Capacity (l)	Pack (u.)	Art. No.
25	1	05590C0025



Steel container

Silver coloured steel container, with 2 caps, 2" and 3/4". Approved for transport of dangerous goods.

Capacity (l)	Pack (u.)	Art. No.
25	1	055900025M



Tin can

Tin can, with cap and transport handle, approved for transport.

Capacity (l)	Pack (u.)	Art. No.
5	1	FAB-LATA5L

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Accessories for metallic containers



Description	Pack (u.)	Art. No.
Drum support for 25 litres (suitable for any 25 litres drums)	1	232-SOPBID
Bench cap support for 25 litres drums	1	232-SOPSOB
Plastic tap for 25 litre metal drum, 3/4" thread	1	0559GR025L

DRUMS AND CONTAINERS: Plastic containers



Sterile containers GOSSELIN SAS

Drums made of high density polyethylene, natural colour.

Cap type	Ø (mm)	Cap. (l)	Pack (u.)	Art. No.
Screw cap	26	2,5	36	630-JCP202
Cap with security seal	32	5	18	630-JCP501
Screw cap	45	10	9	630JCP1003

For further information, please contact scharlab@scharlab.com



Wide opening containers

For non liquid waste. Made of high density and molecular weight polyethylene. Galvanized steel strap hoop and closure. Resistant to most chemical products. Stackable containers, easy opening and closing. Approved for ADR transport. Blue colour.

Capacity (l)	Dim. WxH (mm)	Pack (u.)	Art. No.
30	315 x 520	1	343-030DEC
60	400 x 620	1	343-060DEC
120	496 x 800	1	343-120DEC
150	496 x 965	1	343-150DEC

Stackable containers

Liquid drums. Made of high density and molecular weight polyethylene. Resistant to most chemical products. Stackable containers with self seal cap. Approved for transport.



055925000P



055905000P



Blue colour

Capacity (l)	Thread	Pack (u.)	Art. No.
5	S50	1	343-005NMA
10	S50	1	343-010NMA
25	S60	1	343-025NMA

Natural colour

Capacity (l)	Thread	Pack (u.)	Art. No.
5	S50	1	343-005NMN
25	S60	1	343-025NMN

White colour

Capacity (l)	Thread	Pack (u.)	Art. No.
25	S60	1	055925000P

With visor and degasser cap, not stackable

Capacity (l)	Thread	Pack (u.)	Art. No.
5	S50	1	055905000P

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Kubitainer

Flexible canister in a cardboard container with a dispensing tap. Approved for transport of dangerous goods.

Capacity (l)	Pack (u.)	Art. No.
10	1	055-0CU010

Plastic taps for canisters and stockable containers



Capacity (l)	Thread	Pack (u.)	Art. No.
5	S50	1	0559GR005P
25	S60	1	0559GR025P

Bottles and flasks
in **page 372**



For further information, please contact scharlab@scharlab.com

DRUMS AND CONTAINERS: Safety barrels



Safety cans for in-plant use RÖTZMEIER

For safe carrying and dosage of small volumes of flammable or corrosive liquids.

Made of stainless steel, with wall thickness 0.6mm, PTFE seals, powder-coated aluminium handles.

For internal use only.

Explosion-protected, wire mesh flame arrester, pressure relief valve, fine dispensing system with self-closing.

With self-closing metering device, 1 ¼"

Capacity (l)	Pack (u.)	Art. No.
1	1	113-007033
2	1	113-007034
5	1	113-007035

With screw cap 1 ¼"

Capacity (l)	Pack (u.)	Art. No.
1	1	113-007028
2	1	113-007029
5	1	113-007030

Safety canisters for in-plant use & safety barrels as storage containers RÖTZMEIER

For safely carrying, dosage and storage of flammable or corrosive liquids, made of stainless steel, solid stainless steel handle, PTFE seals. Rectangular form saves space when storing big quantities, for example in laboratory cabinets.

For internal use only.

Models with dispensing head allow horizontal storage. Vent screw included separately.

Explosion-protected and wire mesh flame arrester.



With self-closing metering device, 1 ½"

Capacity (l)	Shape	Pack (u.)	Art. No.
5	Rectangular	1	113-007041
10	Rectangular	1	113-007042

With screw cap 1 ½"

Capacity (l)	Shape	Pack (u.)	Art. No.
5	Rectangular	1	113-007044
10	Rectangular	1	113-007045
20	Rectangular	1	113-007046

→ Continued on the next page

With screw cap and pressure control valve, 1 ½"

Capacity (l)	Shape	Pack (u.)	Art. No.
10	Cylindrical	1	113-007031
25	Cylindrical	1	113-007032

With self-closing tap and separate ventilation, 1 ½"

Capacity (l)	Shape	Pack (u.)	Art. No.
5	Rectangular	1	113-007047
10	Rectangular	1	113-007048
20	Rectangular	1	113-007049
10	Cylindrical	1	113-007037
25	Cylindrical	1	113-007038

With self-closing tap

Capacity (l)	Shape	Pack (u.)	Art. No.
5	Rectangular	1	113-007047
10	Rectangular	1	113-007048
20	Rectangular	1	113-007049
10	Cylindrical	1	113-007037
25	Cylindrical	1	113-007038

With self-closing metering device and separate ventilation, 1 ½"

Capacity (l)	Shape	Pack (u.)	Art. No.
20	Rectangular	1	113-020KDL


Safety transportation barrel and canisters with screw cap, 1 ½"
RÖTZMEIER

Special containers for safe transportation of hazardous goods on public traffic routes. Shockproof, handhold from solid stainless steel. Equipped with removable flame traps, in case of fire the flames do not arrive to the barrel's inside, avoiding an explosion. That's the reason why they are specially suitable for storing flammable liquids, like hexane, ketone, etc. The 25 liters barrel, can admit a spout for horizontal use (Art. No. 113-GR7040).

Transportation barrel

Capacity (l)	Pack (u.)	Art. No.
25	1	113-007039

Transportion canisters


Capacity (l)	Pack (u.)	Art. No.
5	1	113-008005
20	1	113-008007

For further information, please contact scharlab@scharlab.com

Accessories for safety containers approved for transport
RÖTZMEIER

Accessories for safety containers.

Cap for transport containers


Description	Pack (u.)	Art. No.
Screw cap 1 ½" for all safety drums	1	113-GR7041

Self-closing tap, 1 ½"


Description	Pack (u.)	Art. No.
Allows horizontal use of the container. For 113.008007 container and 113007039 drum.	1	113-GR7040


Stainless steel safety funnels
RÖTZMEIER

Stainless steel safety funnels, for a safe and comfortable filling of flammable liquids.



Description	Pack (u.)	Art. No.
Without thread for safety drums	1	113-00TR1
Without thread for safety rectangular drums	1	113-00TR2
For all safety drums	1	113-E07050


Stainless steel safety funnels for plastic canisters
RÖTZMEIER

Stainless steel safety funnels for plastic canisters.
Standard models are 12,5cm high and low size is 7cm above thread
Flame trap. Overfill protection.
Closure head reduces smellings and vapors.

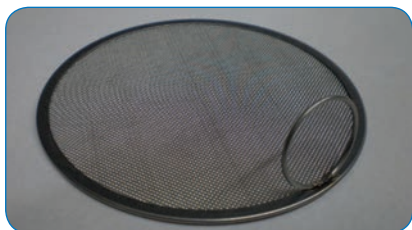
Description	DIN	Height (cm)	Pack (u.)	Art. No.
Standard model	50	12,5	1	113-00TK50
Standard model	51	12,5	1	113-00TK51
Standard model	61	12,5	1	113-00TK61
Low size	50	7	1	113TK50180
Low size	51	7	1	113TK51180
Low size	61	7	1	113TK61180

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Accessories for safety funnels

RÖTZMEIER

Internal sieve, for standard funnel models. For retaining solid particles or objects.



Description	Pack (u.)	Art. No.
Sieve. It includes a retraining ring for fixing the position in the funnel	1	113-000TES

EVAPORATING AND CRYSTALLIZING DISHES



Evaporating dish

Evaporating dishes

SCHARLAU

According to DIN 12 336. With spout. Autoclavable. Borosilicate glass.

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
45	60	30	1	0033794103
60	70	35	1	0033794104
90	80	45	1	0033794105
170	95	55	1	0033794106
320	115	65	1	0033794107
600	140	80	1	0033794108
45	60	30	10	1033794103
60	70	35	10	1033794104
90	80	45	10	1033794105
170	95	55	10	1033794106
320	115	65	10	1033794107
600	140	80	10	1033794108



Crystallizing dish

Crystallizing dishes with glass spout

SCHARLAU

According to DIN 12 338. With spout. Autoclavable. Borosilicate glass.

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
60	60	35	1	0033795103
100	70	40	1	0033795104
150	80	45	1	0033795105
300	95	55	1	0033795106
500	115	65	1	0033795107
900	140	75	1	0033795108
60	60	35	10	1033795103
100	70	40	10	1033795104
150	80	45	10	1033795105
300	95	55	10	1033795106
500	115	65	10	1033795107
900	140	75	10	1033795108

For further information, please contact scharlab@scharlab.com



Crystallizing dish

Crystallizing dishes without glass spout SCHARLAU

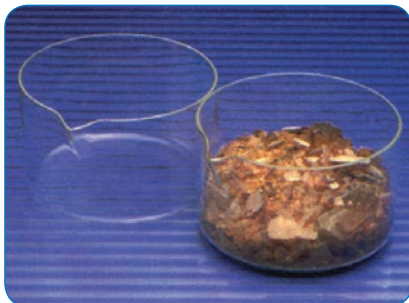
According to DIN 12 337. Without spout. Autoclavable. Borosilicate glass.

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
100	70	40	1	0033795204
150	80	45	1	0033795205
300	95	55	1	0033795206
500	115	65	1	0033795207
100	70	40	10	1033795204
150	80	45	10	1033795205
300	95	55	10	1033795206
500	115	65	10	1033795207



Clear quartz crystallizing dishes without spout SCHARLAU

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
20	40	25	1	0045122101
40	50	30	1	0045122102
60	60	35	1	0045122103
100	70	40	1	0045122104
150	80	45	1	0045122105
300	95	55	1	0045122106
500	115	65	1	0045122107



Clear quartz crystallizing dishes with spout SCHARLAU

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
20	40	25	1	0045122201
40	50	30	1	0045122202
60	60	35	1	0045122203
100	70	40	1	0045122204
150	80	45	1	0045122205
300	95	55	1	0045122206
500	115	65	1	0045122207



Evaporating dishes with contact bottom BOCHEM

Stainless steel 18/10. Tall form, without spout, cylindrical. Suitable for magnetic stirrers and heating plates. With contact bottom for heating plates and magnetic stirrers.

Steel, great volume

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
125	70	35	1	5000460B0C
250	85	45	1	5000461B0C
500	110	55	1	5000462B0C
1000	140	70	1	5000463B0C
2000	160	105	1	5000464B0C
5000	200	160	1	5000465B0C

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Evaporating dishes, flat shape BOCHEM

Stainless steel 18/10. Flat form, without spout, cylindrical.

Steel, small volume

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
50	60	20	1	5000470BOC
75	70	20	1	5000471BOC
100	80	20	1	5000472BOC



Evaporating dish

Evaporating dishes DURAN

DIN 12 336. With spout and flat form. Autoclavable.

Glass

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
15	50	25	1	0222130132
45	60	30	1	0222130134
60	70	35	1	0222130138
90	80	45	1	0222130141
170	95	55	1	0222130144
320	115	65	1	0222130149
600	140	80	1	0222130154
1500	190	100	1	0222130159
2500	230	130	1	0222130163



Crystallizing dish

Crystallizing dishes DURAN

According to DIN 12 338. With spout. Autoclavable. Borosilicate 3,3 glass.

Borosilicate

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
900	140	75	1	0222131154
2000	190	90	1	0222131159
3500	230	100	1	0222131163



Evaporating dish

Evaporating dishes PROQUARZ

Quartz glass. According to DIN 12 336. With spout and flat bottom.

Cap. (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
10	40	18	1	0225000110
15	50	25	1	0225000111
45	60	30	1	0225000112
60	70	35	1	0225000113
90	80	45	1	0225000114
170	95	55	1	0225000115
320	115	65	1	0225000116
600	140	80	1	0225000117

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OEM MEMBRANES

GVS Life Sciences products serve the life sciences, environmental monitoring and industrial filtration markets.

As the manufacturer of more types of microporous membranes than any other company - cellulose acetate, polyethersulfone, nitrocellulose, nylon, polyvinylidene difluoride, polycarbonate track etched and polyester track etched - we can support your laboratory and industrial filtration needs.

Our deep biological and engineering expertise allow us to create membranes and devices to meet your biological assay needs.

With our state-of-the-art facilities in Maine and Massachusetts registered to the ISO 9001:2008 standard, our expertise and capabilities combine to provide custom manufacturing.



LET GVS LIFE SCIENCES BECOME YOUR PARTNER

SEPARA

Filter & Vial

Save time and money in sample prep process with **GVS Life Sciences Filter & Vial** disposable device. The single step filtering process is efficient and saves time.

Easy to press , fast and simple to use.

FEATURES & BENEFITS

- Separa allows for rapid sample preparation which saves you time
- Separa saves you money by eliminating disposables used in sample prep
- Separa's shape and size is compatible with many autosamplers
- The pre-slit septa allows for easy and clean sample transfer

APPLICATIONS BY FILTRATION MEMBRANE PTFE

PTFE

- Filtration of strong acids and aggressive solutions

Nylon

- Clarification of aqueous and organic solvent solutions
- HPLC sample preparation
- Chromatography

Regenerated Cellulose and PES

- Filtration of Aqueous and Organic Solutions
- Analytical Sample Prep, uHPLC
- Chromatography
- Clarification
- Protein

SPECIFICATIONS

- Dimensions: 12mm diameter x 32mm height
- Material: Housing – Virgin Polypropylene; Septa - PTFE coated silicone
- Filtering capacity: 0.48mL.
- Typical compression force: approx. 8 psi (0.6 bar)
- Maximum operating temperature: 50° C (120° F)



GVS S.p.A Via Roma 50 - 40069 Zola Predosa (BO) - Italy - tel. +39 051 6176311 - gvs@gvs.com

www.gvs.com/lifesci



NER FOR PRACTICAL LABORATORY SOLUTIONS

FILTRATION

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FILTRATION: Qualitative and quantitative paper

**Quantitative ashless filter papers
SCHARLAU**

For quantitative and gravimetric analysis and titration. Maximum cellulose purity, washed with acid and ashes content below 0,01%.

WAFH grade, 84 g/m², fast filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	12-15	Disc	100	CFIWAFH047
50	12-15	Disc	100	CFIWAFH050
55	12-15	Disc	100	CFIWAFH055
70	12-15	Disc	100	CFIWAFH070
90	12-15	Disc	100	CFIWAFH090
110	12-15	Disc	100	CFIWAFH110
125	12-15	Disc	100	CFIWAFH125
150	12-15	Disc	100	CFIWAFH150
185	12-15	Disc	100	CFIWAFH185
240	12-15	Disc	100	CFIWAFH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
110	12-15	Folded	100	CF2WAFH110
125	12-15	Folded	100	CF2WAFH125
150	12-15	Folded	100	CF2WAFH150
185	12-15	Folded	100	CF2WAFH185
240	12-15	Folded	100	CF2WAFH240
270	12-15	Folded	100	CF2WAFH270

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WAGH grade, 84 g/m², medium to fast filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	8-12	Disc	100	CFIWAGH047
50	8-12	Disc	100	CFIWAGH050
55	8-12	Disc	100	CFIWAGH055
70	8-12	Disc	100	CFIWAGH070
90	8-12	Disc	100	CFIWAGH090
110	8-12	Disc	100	CFIWAGH110
125	8-12	Disc	100	CFIWAGH125
150	8-12	Disc	100	CFIWAGH150
185	8-12	Disc	100	CFIWAGH185
240	8-12	Disc	100	CFIWAGH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
110	8-12	Folded	100	CF2WAGH110
125	8-12	Folded	100	CF2WAGH125
150	8-12	Folded	100	CF2WAGH150
185	8-12	Folded	100	CF2WAGH185
240	8-12	Folded	100	CF2WAGH240
270	8-12	Folded	100	CF2WAGH270

WAMH grade, 84 g/m², medium to slow filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	7	Disc	100	CFIWAMH047
50	7	Disc	100	CFIWAMH050
55	7	Disc	100	CFIWAMH055
70	7	Disc	100	CFIWAMH070
90	7	Disc	100	CFIWAMH090
110	7	Disc	100	CFIWAMH110
125	7	Disc	100	CFIWAMH125
150	7	Disc	100	CFIWAMH150
185	7	Disc	100	CFIWAMH185
240	7	Disc	100	CFIWAMH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
110	7	Folded	100	CF2WAMH110
125	7	Folded	100	CF2WAMH125
150	7	Folded	100	CF2WAMH150
185	7	Folded	100	CF2WAMH185
240	7	Folded	100	CF2WAMH240
270	7	Folded	100	CF2WAMH270

WAPH grade, 84 g/m², slow filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	3-5	Disc	100	CFIWAPH047
50	3-5	Disc	100	CFIWAPH050
55	3-5	Disc	100	CFIWAPH055
70	3-5	Disc	100	CFIWAPH070
90	3-5	Disc	100	CFIWAPH090
110	3-5	Disc	100	CFIWAPH110
125	3-5	Disc	100	CFIWAPH125
150	3-5	Disc	100	CFIWAPH150
185	3-5	Disc	100	CFIWAPH185
240	3-5	Disc	100	CFIWAPH240

For further information, please contact scharlab@scharlab.com

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
110	3-5	Folded	100	CF2WAPH110
125	3-5	Folded	100	CF2WAPH125
150	3-5	Folded	100	CF2WAPH150
185	3-5	Folded	100	CF2WAPH185
240	3-5	Folded	100	CF2WAPH240
270	3-5	Folded	100	CF2WAPH270

WASH grade, 84 g/m², very slow filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	2-3	Disc	100	CFIWASH047
50	2-3	Disc	100	CFIWASH050
55	2-3	Disc	100	CFIWASH055
70	2-3	Disc	100	CFIWASH070
90	2-3	Disc	100	CFIWASH090
110	2-3	Disc	100	CFIWASH110
125	2-3	Disc	100	CFIWASH125
150	2-3	Disc	100	CFIWASH150
185	2-3	Disc	100	CFIWASH185
240	2-3	Disc	100	CFIWASH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
110	2-3	Folded	100	CF2WASH110
125	2-3	Folded	100	CF2WASH125
150	2-3	Folded	100	CF2WASH150
185	2-3	Folded	100	CF2WASH185
240	2-3	Folded	100	CF2WASH240
270	2-3	Folded	100	CF2WASH270

WATH grade, 100 g/m², very slow filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	1-2	Disc	100	CFIWATH047
50	1-2	Disc	100	CFIWATH050
55	1-2	Disc	100	CFIWATH055
70	1-2	Disc	100	CFIWATH070
90	1-2	Disc	100	CFIWATH090
110	1-2	Disc	100	CFIWATH110
125	1-2	Disc	100	CFIWATH125
150	1-2	Disc	100	CFIWATH150
185	1-2	Disc	100	CFIWATH185
240	1-2	Disc	100	CFIWATH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
110	1-2	Folded	100	CF2WATH110
125	1-2	Folded	100	CF2WATH125
150	1-2	Folded	100	CF2WATH150
185	1-2	Folded	100	CF2WATH185
240	1-2	Folded	100	CF2WATH240
270	1-2	Folded	100	CF2WATH270

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WAF grade, 90 g/m², fast filtration. SCHARLAU

Ø (mm)	Typical retention (µm)	Presentation	Pack (u.)	Art. No.
47	12	Disc	100	CFIWAF0047
50	12	Disc	100	CFIWAF0050
55	12	Disc	100	CFIWAF0055
70	12	Disc	100	CFIWAF0070
90	12	Disc	100	CFIWAF0090
110	12	Disc	100	CFIWAF0110
125	12	Disc	100	CFIWAF0125
150	12	Disc	100	CFIWAF0150
185	12	Disc	100	CFIWAF0185
240	12	Disc	100	CFIWAF0240

WAM grade, 80 g/m², medium to slow filtration. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	6	Disc	100	CFIWAM0047
50	6	Disc	100	CFIWAM0050
55	6	Disc	100	CFIWAM0055
70	6	Disc	100	CFIWAM0070
90	6	Disc	100	CFIWAM0090
110	6	Disc	100	CFIWAM0110
125	6	Disc	100	CFIWAM0125
150	6	Disc	100	CFIWAM0150
185	6	Disc	100	CFIWAM0185
240	6	Disc	100	CFIWAM0240

WAS grade, 100 g/m², slow filtration. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	3-4	Disc	100	CFIWAS0047
50	3-4	Disc	100	CFIWAS0050
55	3-4	Disc	100	CFIWAS0055
70	3-4	Disc	100	CFIWAS0070
90	3-4	Disc	100	CFIWAS0090
110	3-4	Disc	100	CFIWAS0110
125	3-4	Disc	100	CFIWAS0125
150	3-4	Disc	100	CFIWAS0150
185	3-4	Disc	100	CFIWAS0185
240	3-4	Disc	100	CFIWAS0240

For further information, please contact scharlab@scharlab.com



Qualitative low ash filter papers SCHARLAU

For qualitative analysis, identifies detained. High cellulose purity and ashes content below 0,07%.

LAFH grade, 84gm², fast filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	12-15	Disc	100	CFILAFH047
50	12-15	Disc	100	CFILAFH050
55	12-15	Disc	100	CFILAFH055
70	12-15	Disc	100	CFILAFH070
90	12-15	Disc	100	CFILAFH090
110	12-15	Disc	100	CFILAFH110
125	12-15	Disc	100	CFILAFH125
150	12-15	Disc	100	CFILAFH150
185	12-15	Disc	100	CFILAFH185
240	12-15	Disc	100	CFILAFH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	12-15	Folded	100	CF2LAFH090
110	12-15	Folded	100	CF2LAFH110
125	12-15	Folded	100	CF2LAFH125
150	12-15	Folded	100	CF2LAFH150
185	12-15	Folded	100	CF2LAFH185
240	12-15	Folded	100	CF2LAFH240
320	12-15	Folded	100	CF2LAFH320

LAMH grade, 84gm², medium to slow filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	8	Disc	100	CFILAMH047
50	8	Disc	100	CFILAMH050
55	8	Disc	100	CFILAMH055
70	8	Disc	100	CFILAMH070
90	8	Disc	100	CFILAMH090
110	8	Disc	100	CFILAMH110
125	8	Disc	100	CFILAMH125
150	8	Disc	100	CFILAMH150
185	8	Disc	100	CFILAMH185
240	8	Disc	100	CFILAMH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	8	Folded	100	CF2LAMH090
110	8	Folded	100	CF2LAMH110
125	8	Folded	100	CF2LAMH125
150	8	Folded	100	CF2LAMH150
185	8	Folded	100	CF2LAMH185
240	8	Folded	100	CF2LAMH240
320	8	Folded	100	CF2LAMH320

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LASH grade, 84gm², slow filtration, hardened. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	2-3	Disc	100	CFILASH047
50	2-3	Disc	100	CFILASH050
55	2-3	Disc	100	CFILASH055
70	2-3	Disc	100	CFILASH070
90	2-3	Disc	100	CFILASH090
110	2-3	Disc	100	CFILASH110
125	2-3	Disc	100	CFILASH125
150	2-3	Disc	100	CFILASH150
185	2-3	Disc	100	CFILASH185
240	2-3	Disc	100	CFILASH240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	2-3	Folded	100	CF2LASH090
110	2-3	Folded	100	CF2LASH110
125	2-3	Folded	100	CF2LASH125
150	2-3	Folded	100	CF2LASH150
185	2-3	Folded	100	CF2LASH185
240	2-3	Folded	100	CF2LASH240
320	2-3	Folded	100	CF2LASH320

LAF grade, 130gm², fast filtration. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	>20	Disc	100	CFILAF0047
55	>20	Disc	100	CFILAF0055
70	>20	Disc	100	CFILAF0070
90	>20	Disc	100	CFILAF0090
110	>20	Disc	100	CFILAF0110
125	>20	Disc	100	CFILAF0125
150	>20	Disc	100	CFILAF0150
185	>20	Disc	100	CFILAF0185
240	>20	Disc	100	CFILAF0240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
125	>20	Folded	100	CF2LAF0125
150	>20	Folded	100	CF2LAF0150
185	>20	Folded	100	CF2LAF0185
240	>20	Folded	100	CF2LAF0240
320	>20	Folded	100	CF2LAF0320

LAM grade, 87gm², medium to slow filtration. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	8	Disc	100	CFILAM0047
50	8	Disc	100	CFILAM0050
55	8	Disc	100	CFILAM0055
70	8	Disc	100	CFILAM0070
90	8	Disc	100	CFILAM0090
110	8	Disc	100	CFILAM0110
125	8	Disc	100	CFILAM0125
150	8	Disc	100	CFILAM0150
185	8	Disc	100	CFILAM0185
240	8	Disc	100	CFILAM0240

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For further information, please contact scharlab@scharlab.com

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	8	Folded	100	CF2LAM0090
110	8	Folded	100	CF2LAM0110
125	8	Folded	100	CF2LAM0125
150	8	Folded	100	CF2LAM0150
185	8	Folded	100	CF2LAM0185
240	8	Folded	100	CF2LAM0240
320	8	Folded	100	CF2LAM0320

LAS grade, 80gm², very slow filtration. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
47	2	Disc	100	CFILAS0047
50	2	Disc	100	CFILAS0050
55	2	Disc	100	CFILAS0055
70	2	Disc	100	CFILAS0070
90	2	Disc	100	CFILAS0090
110	2	Disc	100	CFILAS0110
125	2	Disc	100	CFILAS0125
150	2	Disc	100	CFILAS0150
185	2	Disc	100	CFILAS0185
240	2	Disc	100	CFILAM0240

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	2	Folded	100	CF2LAS0090
110	2	Folded	100	CF2LAS0110
125	2	Folded	100	CF2LAS0125
150	2	Folded	100	CF2LAS0150
185	2	Folded	100	CF2LAS0185
240	2	Folded	100	CF2LAS0240
320	2	Folded	100	CF2LAS0320


**Qualitative filter papers for general use (technical)
SCHARLAU**

For routine analysis. High quality cellulose and ashes content below 0,3%.

STAE grade, 80gm², very fast filtration, for general use. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	>20	Disc	100	CFISTAE090
110	>20	Disc	100	CFISTAE110
125	>20	Disc	100	CFISTAE125
130	>20	Disc	100	CFISTAE130
150	>20	Disc	100	CFISTAE150
200	>20	Disc	100	CFISTAE200
250	>20	Disc	100	CFISTAE250

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The wise choice

Scharlau Laboratory Filtration range

Quantitative and qualitative filter papers,
extraction thimbles, quartz microfiber and glass microfiber filters,
syringe filters, membrane filters for mobile phase
and membrane filters for microbiology

STAF grade, 85gm², very fast filtration, for general use. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	>20	Disc	100	CFISTAF090
110	>20	Disc	100	CFISTAF110
125	>20	Disc	100	CFISTAF125
130	>20	Disc	100	CFISTAF130
150	>20	Disc	100	CFISTAF150
185	>20	Disc	100	CFISTAF185
200	>20	Disc	100	CFISTAF200
240	>20	Disc	100	CFISTAF240
250	>20	Disc	100	CFISTAF250
320	>20	Disc	100	CFISTAF320

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	>20	Folded	100	CF2STAF090
110	>20	Folded	100	CF2STAF110
125	>20	Folded	100	CF2STAF125
150	>20	Folded	100	CF2STAF150
185	>20	Folded	100	CF2STAF185
240	>20	Folded	100	CF2STAF240
320	>20	Folded	100	CF2STAF320

STAM grade, 75gm², medium to fast filtration, for general use. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	8-12	Disc	100	CFISTAM090
110	8-12	Disc	100	CFISTAM110
125	8-12	Disc	100	CFISTAM125
130	8-12	Disc	100	CFISTAM130
150	8-12	Disc	100	CFISTAM150
185	8-12	Disc	100	CFISTAM185
200	8-12	Disc	100	CFISTAM200
240	8-12	Disc	100	CFISTAM240
250	8-12	Disc	100	CFISTAM250
320	8-12	Disc	100	CFISTAM320

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	8-12	Folded	100	CF2STAM090
110	8-12	Folded	100	CF2STAM110
125	8-12	Folded	100	CF2STAM125
150	8-12	Folded	100	CF2STAM150
185	8-12	Folded	100	CF2STAM185
240	8-12	Folded	100	CF2STAM240
320	8-12	Folded	100	CF2STAM320

STAS grade, 200gm², medium to slow filtration, for general use. SCHARLAU

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
90	5-7	Disc	100	CFISTAS090
110	5-7	Disc	100	CFISTAS110
125	5-7	Disc	100	CFISTAS125
130	5-7	Disc	100	CFISTAS130
150	5-7	Disc	100	CFISTAS150
185	5-7	Disc	100	CFISTAS185
200	5-7	Disc	100	CFISTAS200
240	5-7	Disc	100	CFISTAS240
250	5-7	Disc	100	CFISTAS250
320	5-7	Disc	100	CFISTAS320

Ø (mm)	Typical retention (µm)	Disc/Folded	Pack (u.)	Art. No.
240	5-7	Folded	100	CF2STAS240
320	5-7	Folded	100	CF2STAS320

Cromatography papers

SCHARLAU

Great purity paper, sheet size 58x60cm.

Cromatography

g/m ²	Capillary speed	Pack (u.)	Art. No.
125	60mm/30"	100	CR0-225860
280	170mm/30"	100	CR0-555860
320	240mm/30"	25	CR0-905860
700	170mm	50	CR01305860

Hardened low ash filter papers for quantitative analysis

FILTER-LAB

For precise qualitative analysis, identifies detained. Great cellulose purity and ashes content very low. Usual weight 80. Available creased gamma, above 70mm of diameter.

Gamma BC, low ash grades



Filters for quantitative analysis

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
110	25-30	100	3021248110
150	25-30	100	3024111150
125	20-25	100	3021249125
240	20-25	100	3024121240
85	10-13	100	1391250085
90	10-13	100	1391250090
125	10-13	100	1391250125
150	10-13	100	1391250150
90	2-4	100	1391254090
185	2-4	100	3021254185
150	1-3	100	1391256150
240	1-3	100	1391256240
125	1-3	100	1391258125
240	5-7	100	1391258240



Ashless quantitative filter papers

FILTER-LAB

For quantitative and gravimetric analysis. Maximum purity cellulose.

Fast filter range. FILTER-LAB

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
25	25-30	100	3021235025
110	25-30	100	3021235110
125	25-30	100	3021235125
70	20-25	100	3021238070
90	20-25	100	3021238090
125	20-25	100	3021238125
150	12-15	100	3021238150

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Medium filtration speed range. FILTER-LAB

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
70	12-15	100	302-124070
90	12-15	100	302-124090
110	14-18	100	3021240110
125	14-18	100	3021240125
150	14-18	100	3021240015

Slow filter range. FILTER-LAB

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
90	7-9	100	3021242090
110	7-9	100	3021242110
125	7-9	100	3021242125
150	7-9	100	3021242150
185	7-9	100	1391242018
110	2-4	100	3021244110
125	2-4	100	3021244125

**Qualitative filter papers, standard range
FILTER-LAB**

Routine analysis, when speed and economization are needed. Available creased gamma, above 70mm of diameter.

Standard range, flat


Filters for routine analysis

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
50	43-48	100	139-130005
70	43-48	100	139-130007
125	43-48	100	139-130012
130	43-48	100	139-130013
240	43-48	100	139-130024
250	43-48	100	139-130025

Standard range, pleated


Filter papers

Ø (mm)	Particle retention in liquid	Pack (u.)	Art. No.
100	43-48	100	1300/80210
130	43-48	100	3021300213
150	43-48	100	3021300215
185	43-48	100	3021300185
200	43-48	100	3021300200
250	43-48	100	3021300250
500	43-48	100	3021300500
185	43-48	100	3021300G15
185	43-48	100	0013020150

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Specialties
FILTER-LAB

Papers with special features for determined usage.

Seed germination test paper



Ø (mm)	Pack (u.)	Art. No.
85	100	302518G085

Cleaning lens

Dim. HxW (mm)	Pack (u.)	Art. No.
10x15cm	500	302-001482

For further information, please contact scharlab@scharlab.com

FILTRATION

Follow the way of the lab filtration with us



Since 1897



- ✓ Quantitative filter paper
- ✓ Qualitative filter paper
- ✓ Glass and quartz filters
- ✓ Filter paper in reams
- ✓ Special papers for laboratory
- ✓ Thimbles
- ✓ Syringe filters
- ✓ Membrane filters

FILTROS ANOIA, S.A.
Barcelona
www.fanoia.com

Quantitative filter papers (ashless)
WHATMAN

Quantitative and gravimetric analysis.



Filter circles, Grade 40, 41 and 42 pure Cellulose, ashless

Filter circles, Grade 41 pure Cellulose, ashless

Filter circles, Grade 52 and 54 pure Cellulose, ashless

Filter circles, Grade 40 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	8	100	1091440047
55	8	100	1091440055
70	8	100	1091440070
90	8	100	1091440090
110	8	100	1091440110
125	8	100	1091440125
150	8	100	1091440150
185	8	100	1091440185
240	8	100	1091440240

Filter circles, Grade 41 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	20	100	1091441047
55	20	100	1091441055
70	20	100	1091441070
90	20	100	1091441090
110	20	100	1091441110
125	20	100	1091441125
150	20	100	1091441150
185	20	100	1091441185
240	20	100	1091441240

Filter circles, Grade 42 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	2,5	100	1091442047
55	2,5	100	1091442055
70	2,5	100	1091442070
90	2,5	100	1091442090
110	2,5	100	1091442110
125	2,5	100	1091442125
150	2,5	100	1091442150
185	2,5	100	1091442185
240	2,5	100	1091442240

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Filter circles, Grade 50 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
55	2,7	100	1091450055
70	2,7	100	1091450070
90	2,7	100	1091450090
110	2,7	100	1091450110
125	2,7	100	1091450125
150	2,7	100	1091450150
185	2,7	100	1091450185
240	2,7	100	1091450240
320	2,7	100	1091450320

Filter circles, Grade 52 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
90	7	100	1091452090
110	7	100	1091452110
125	7	100	1091452125
150	7	100	1091452150
240	7	100	1091452240

Filter circles, Grade 54 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
55	22	100	1091454055
70	22	100	1091454070
90	22	100	1091454090
110	22	100	1091454110
125	22	100	1091454125
150	22	100	1091454150
185	22	100	1091454185
240	22	100	1091454240
320	22	100	1091454320

Filter circles, Grade 540 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
55	8	100	1091540055
90	8	100	1091540090
110	8	100	1091540110
125	8	100	1091540125
150	8	100	1091540150
185	8	100	1091540185
240	8	100	1091540240

Filter circles, Grade 541 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	22	100	1091541047
55	22	100	1091541055
70	22	100	1091541070
90	22	100	1091541090
110	22	100	1091541110
125	22	100	1091541125
150	22	100	1091541150
185	22	100	1091541185
240	22	100	1091541240

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Filter circles, Grade 542 pure Cellulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
55	2,7	100	1091542055
70	2,7	100	1091542070
90	2,7	100	1091542090
110	2,7	100	1091542110
150	2,7	100	1091542150
185	2,7	100	1091542185
240	2,7	100	1091542240

Filter circles, Grade 589/1 pure Celulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
90	12-25	100	109-300009
110	12-25	100	109-300010
125	12-25	100	109-300011
150	12-25	100	109-300012
185	12-25	100	109-300014
150	12-25	100	109-300045

Filter circles, Grade 589/2 pure Celulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
50	4-12	100	109-300106
55	4-12	100	109-300107
70	4-12	100	109-300108
90	4-12	100	109-300109
110	4-12	100	109-300110
125	4-12	100	109-300111
150	4-12	100	0010300112
185	4-12	100	109-300114
240	4-12	100	109-300120

Filter circles, Grade 589/3 pure Celulose, ashless. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
110	<2	100	109-300210
125	<2	100	109-300211
150	<2	100	109-300212
185	<2	100	109-300214

Qualitative filter papers
WHATMAN

Plane paper discs for qualitative analytical techniques to determine and identify materials.



Whatman GE filters



Whatman GE, Grade 1

→ Continued on the next page

Filter circles, Grade 1 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
25	11	400	1091001025
47	11	100	1091001047
55	11	100	1091001055
70	11	100	1091001070
90	11	100	1091001090
110	11	100	1091001110
125	11	100	1091001125
150	11	100	1091001150
185	11	100	1091001185
240	11	100	1091001240
270	11	100	1091001270
320	11	100	1091001320

Filter circles, Grade 2 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	8	100	1091002047
55	8	100	1091002055
70	8	100	1091002070
90	8	100	1091002090
110	8	100	1091002110
125	8	100	1091002125
150	8	Certificates, 100	1091002147
150	8	100	1091002150
185	8	100	1091002185
240	8	100	1091002240
270	8	100	1091002270

Filter circles, Grade 3 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
55	6	100	1091003055
70	6	100	1091003070
90	6	100	1091003090
110	6	100	1091003110
125	6	100	1091003125
150	6	100	1091003150
185	6	100	1091003185
240	6	100	1091003240
320	6	100	1091003320

Filter circles, Grade 4 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	20-25	100	1091004047
55	20-25	100	1091004055
70	20-25	100	1091004070
90	20-25	100	1091004090
110	20-25	100	1091004110
125	20-25	100	1091004125
150	20-25	100	1091004150
185	20-25	100	1091004185
270	20-25	100	1091004270
320	20-25	100	1091004320

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For further information, please contact scharlab@scharlab.com

Filter circles, Grade 5 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	2,5	100	1091005047
55	2,5	100	1091005055
70	2,5	100	1091005070
90	2,5	100	1091005090
110	2,5	100	1091005110
125	2,5	100	1091005125
150	2,5	100	1091005150
185	2,5	100	1091005185
240	2,5	100	1091005240
320	2,5	100	1091005320

Filter circles, Grade 6 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
70	3	100	1091006070
90	3	100	1091006090
110	3	100	1091006110
125	3	100	1091006125
150	3	100	1091006150
185	3	100	1091006185
240	3	100	1091006240

Filter circles, 595 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
110	4-7	100	1090311610
125	4-7	100	1090311611
150	4-7	100	1090311612

Filter circles, 597 quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
45	4-7	100	1090311804
55	4-7	100	1090311807
70	4-7	100	1090311808
90	4-7	100	1090311809
110	4-7	100	1090311810
125	4-7	100	1090311811
150	4-7	100	1090311812
185	4-7	100	1090311814
240	4-7	100	1090311820

Filter circles, Grade 91 hard quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
150	10	1000	1091091150
185	10	1000	1091091185
240	10	1000	1091091240

Filter circles, Grade 113 hard quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
90	30	100	1091113090
110	30	100	1091113110
125	30	100	1091113125
150	30	100	1091113150
185	30	100	1091113185
240	30	100	1091113240
320	30	100	1091113320

→ Continued on the next page

Filter circles, Grade 114 hard quality. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
90	25	100	1091114090
125	25	100	1091114125
150	25	100	1091114150
185	25	100	1091114185
240	25	100	1091114240

Filter circles, Grade 2V pleated. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
125	8	100	1091202125
150	8	100	1091202150
185	8	100	1091202185
240	8	100	1091202240
270	8	100	1091202270
320	8	100	1091202320

Filter circles, Grade 113V pleated, hard. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
125	30	100	1091213125
150	30	100	1091213150
185	30	100	1091213185
240	30	100	1091213240
270	30	100	1091213270
320	30	100	1091213320

Filter circles, Grade 114V pleated, hard. WHATMAN

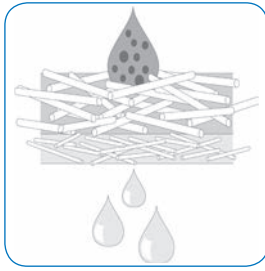
Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
125	25	100	1091214125
150	25	100	1091214150
185	25	100	1091214185
240	25	100	1091214240
320	25	100	1091214320

Electrochemical meters
in page 892
Water analysis
in page 1055



For further information, please contact scharlab@scharlab.com

FILTRATION: Glass microfiber and quartz microfiber



Graphical scheme of fibers filter

Glass microfiber filters SCHARLAU

Due to its high retention of very fine particles and high loading capacity, the borosilicate glass microfiber is very resistant to aggressive environments and temperatures up to 500°C. Commonly used for suspended solids in all types of water and effluent and filtration of particulates in water, algae and bacterial cultures, food and drink analyses.

GMFA, 0,2mm thickness, ≈ 52 g/m². SCHARLAU



Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
24	1,6	100	GMFA-50024
35	1,6	100	GMFA-50035
47	1,6	100	GMFA-50047
90	1,6	100	GMFA-50090
150	1,6	100	GMFA-50150

GMFB, 0,7mm thickness, ≈ 143 g/m². SCHARLAU

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
24	1,0	50	GMFB143024
47	1,0	50	GMFB143047
90	1,0	50	GMFB143090
150	1,0	50	GMFB143150

GMFC, 0,25mm thickness, ≈ 52 g/m². SCHARLAU

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
24	1,2	100	GMFC-52024
35	1,2	100	GMFC-52035
47	1,2	100	GMFC-52047
90	1,2	100	GMFC-52090
150	1,2	100	GMFC-52150

GMFD, 0,53mm thickness, ≈ 120 g/m². SCHARLAU

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
24	2,7	100	GMFD120024
47	2,7	100	GMFD120047
90	2,7	100	GMFD120090
150	2,7	100	GMFD-12150

GMFF, 0,45mm thickness, ≈ 75 g/m². SCHARLAU

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
24	0,7	100	GMFF-75024
37	0,7	100	GMFF-75037
47	0,7	100	GMFF-75047
90	0,7	100	GMFF-75090
150	0,7	100	GMFF-75150

→ Continued on the next page

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GMFG, 0,28mm thickness, ≈ 65 g/m². SCHARLAU

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
24	1,5	100	GMFG-65024
37	1,5	100	GMFG-65037
47	1,5	100	GMFG-65047
90	1,5	100	GMFG-65090
150	1,5	100	GMFG-65150

Quartz microfiber filters
SCHARLAU

MFQ quartz microfiber disc, resistant up to 900°C, ≈ 85 g/m². Suitable for air sampler PM10. 99,95% efficiency in retaining particles 1 to 3 microns. Trace element analysis available.



Filter support (Ti)

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
37	≈1,5	50	MFQ-85T037
47	≈1,5	50	MFQ-85T047
90	≈1,5	50	MFQ-85T090
150	≈1,5	50	MFQ-85T150

Glass microfiber filters
FILTER-LAB

They provide great chemical and thermal stability, permeability and resistance, they have a high loading capacity and particle retention.

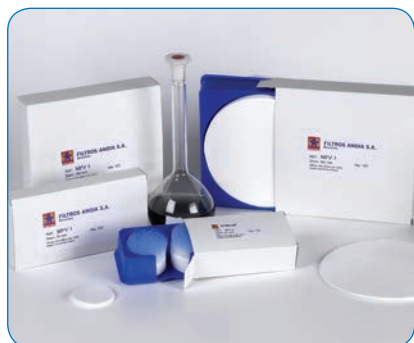
Gamma MFV


Glass microfiber filters

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	1,6	100	302MFV1047
90	1,6	100	302MFV1090
125	1,6	100	302MFV1125
150	1,6	100	302MFV1150
90	1,0	100	302MFV2090
125	1,0	100	302MFV2125
47	1,2	50	0000MFV347
100	1,2	50	302MFV3100
150	1,2	50	302MFV3150
90	2,7	50	302MFV4090
47	0,7	100	302-MFV547
90	1,5	100	302MFV6090

Quartz microfiber filters
FILTER-LAB

Quartz microfiber disc, type MFQ resistant up to 900°C, ≈ 85 g/m². Efficacy 0,3 micron DOP test: 99,999%.



Quartz microfiber filters

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
37	≈1,5	25	302-MFQ037
47	≈1,5	25	302-MFQ047
90	≈1,5	25	302-MFQ090
150	≈1,5	25	302-MFQ150

For further information, please contact scharlab@scharlab.com

**Glass microfiber filters
WHATMAN**

For general use, retention of very fine particles and high loading capacity. Suitable for water and effluent pollution control and filtration of particulates in water, algae and bacterial cultures, food control and protein filtration. Also widely used for air pollution monitoring.



Glass fiber filters



Glass microfiber disc, type GF/A



Glass microfiber disc, type GF/C

Glass microfiber disc, type GF/A. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	1,6	100	1091820047
50	1,6	100	1091820050
55	1,6	100	1091820055
60	1,6	100	1091820060
70	1,6	100	1091820070
90	1,6	100	1091820090
110	1,6	100	1091820110
125	1,6	100	1091820125
150	1,6	100	1091820150

Glass microfiber disc, type GF/B. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	1	100	1091821047
55	1	100	1091821055
70	1	100	1091821070
90	1	25	1091821090
110	1	25	1091821110
125	1	25	1091821125
150	1	25	1091821150
185	1	25	1091821185

Glass microfiber disc, type GF/C. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	1,2	100	1091822047
50	1,2	100	1091822050
55	1,2	100	1091822055
70	1,2	100	1091822070
90	1,2	100	1091822090
100	1,2	100	1091822100
110	1,2	100	1091822110
125	1,2	100	1091822125
150	1,2	100	1091822150

→ Continued on the next page

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Glass microfiber disc, type GF/D. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	2,7	100	1091823047
55	2,7	100	1091823055
70	2,7	100	1091823070
90	2,7	25	1091823090
110	2,7	25	1091823110
125	2,7	25	1091823125
142	2,7	25	1091823142
150	2,7	25	1091823150

Glass microfiber disc, type GF/F. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	0,7	100	1091825047
55	0,7	100	1091825055
70	0,7	100	1091825070
90	0,7	25	1091825090
110	0,7	25	1091825110
125	0,7	25	1091825125
142	0,7	25	1091825142
150	0,7	25	1091825150

Multilayer disc, GMF Multigrade. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	1 and 10	40	1091841047
90	1 and 10	20	1091841090
47	2 and 10	40	1091842047
90	2 and 10	20	1091842090

Glass microfiber disc, type 934AH. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	1,5	100	1091827047
55	1,5	100	1091827055
70	1,5	100	1091827070
90	1,5	100	1091827090
110	1,5	100	1091827110
125	1,5	100	1091827125
150	1,5	100	1091827150
185	1,5	100	1091827185
240	1,5	100	1091827240

Disc, type 934-AH RTU. WHATMAN



Filter and aluminium tray

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
42,5	1,5	100	1099907042
55	1,5	100	1099907055
90	1,5	100	1099907090

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For further information, please contact scharlab@scharlab.com

Discs, type GF 6. WHATMAN

Ø (mm)	Pack (u.)	Art. No.
25	200	0010370018
47	200	0010370019
50	200	0010370002
55	100	0010370003
70	100	0010370004
90	100	0010370005
110	100	0010370006
125	100	0010370007
150	100	0010370008
185	100	0010370010
200	100	0010370011
240	100	0010370012

Discs, type GF 10. WHATMAN

Ø (mm)	Pack (u.)	Art. No.
47	200	0010370319
90	100	0010370305
150	100	0010370308

Discs, type GF 92. WHATMAN

Ø (mm)	Pack (u.)	Art. No.
47	200	0010421026
142	100	0010421060

**EPM 2000
WHATMAN**

Recommended by the EPA for air sampling equipment that collects atmospheric particulates and aerosols. It is manufactured from 100% pure borosilicate glass. Serial numbered filter sheets.

Discs, type EPM2000

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
47	2	100	1091882047



Whatman GE quartz filters

**Quartz microfiber filters
WHATMAN**

Ideal for air sampling at high temperatures - up to 500°C and acidic gases. High-purity quartz. Suitable for PM-10. Very low level of alkaline earth metals and sequentially numbered according to EPA standards.

QM-A quartz discs. Resistant up to 500°C. WHATMAN

Ø (mm)	Particle retention in liquid (µm)	Pack (u.)	Art. No.
25	2,2	100	1091851025
47	2,2	100	1091851047
50	2,2	100	1091851050
55	2,2	100	1091851055
90	2,2	100	1091851090
110	2,2	100	1091851110
150	2,2	100	1091851150
6"x8"	Sheets numbered	100	1091851810

QM-H quartz discs. Resistant up to 900°C. WHATMAN

Ø (mm)	Pack (u.)	Art. No.
47	25	1091853047
50	25	1091853050
150	25	1091853150

FILTRATION: Büchner funnels



**Porcelain Büchner funnels
HALDENWANGER**

Porcelain funnels. Conforming to DIN 12905. Available in diameters up to 320mm.

Ø filter (mm)	Ø Plate (mm)	Cap. (ml)	Pack (u.)	Art. No.
18	19	3	1	00127C/000
27	29	10	1	011127C/00
40	42	25	1	011-127C/0
45	48	50	1	011127C/0A
55	59	75	1	011-127C/1
70	74	135	1	011-127C/2
90	94	290	1	011127C/2A



**Plastic Büchner funnels
KARTELL**

Plastic funnels. The diameters of the plate holes are 1, 1,5, 2, and 2,5mm.

Ø filter (mm)	Ø plate (mm)	Capacity (ml)	Pack (u.)	Art. No.
55	56	70	1	425-000438
70	72	180	1	425-000439
80	82	285	1	425-000440
90	92	390	1	425-000441
110	112	810	1	425-000442
160	163	2100	1	425-000443

For further information, please contact scharlab@scharlab.com

FILTRATION

**Scharlau Laboratory
Filtration range**



The wise choice

Quantitative and qualitative filter papers, extraction thimbles, quartz microfiber and glass microfiber filters, syringe filters, membrane filters for mobile phase and membrane filters for microbiology



FILTRATION: Extraction thimbles

Glass extraction thimbles
SCHARLAU

Average height \pm 1mm. Average wall thickness 2,0mm. Temperature resistant up to 500°C.

Microfiber thimbles, pure glass

Dim. Øxlength	Particle retention in liquid	Pack (u.)	Art. No.
10x50mm	Nom. 0,5 microns	25	MGT3210X50
16x50mm	Nom. 0,5 microns	25	MGT3216X50
22x80mm	Nom. 0,5 microns	25	MGT3222X80
25x100mm	Nom. 0,5 microns	25	MGT3225100
25x60mm	Nom. 0,5 microns	25	MGT3225X60
26x60mm	Nom. 0,5 microns	25	MGT3226X60
28x100mm	Nom. 0,5 microns	25	MGT3228100
28x60mm	Nom. 0,5 microns	25	MGT3228X60
30x70mm	Nom. 0,5 microns	25	MGT3230X70
30x77mm	Nom. 0,5 microns	25	MGT3230X77
30x100mm	Nom. 0,5 microns	25	MGT3230100
33x94mm	Nom. 0,5 microns	25	MGT3233X94
35x150mm	Nom. 0,5 microns	25	MGT3235150
40x150mm	Nom. 0,5 microns	25	MGT3240150
43x123mm	Nom. 0,5 microns	25	MGT3243123
53x145mm	Nom. 0,5 microns	25	MGT3253145



Cellulose thimbles gamma

Cellulose extraction thimbles
SCHARLAU

The extraction thimbles are made of high-purity alpha cellulose linters. Diameter tolerance \pm 3mm, and \pm 10mm height tolerance. Wall thickness of 1,5mm and ashes content less than 0,2%. The thimble range is completed with models fitted to automated Soxhlet extractor manufacturers.

Standard cellulose thimbles

Dim. Øxlength	Particle retention in liquid	Pack (u.)	Art. No.
10x50mm	Nom. 8-15 microns	25	CT32510X50
19x90mm	Nom. 8-15 microns	25	CT32519x90
20x80mm	Nom. 8-15 microns	25	CT32520X80
22x100mm	Nom. 8-15 microns	25	CT32522100
25x60mm	Nom. 8-15 microns	25	CT32525X60
25x80mm	Nom. 8-15 microns	25	CT32525X80
26x100mm	Nom. 8-15 microns	25	CT32526100
26x60mm	Nom. 8-15 microns	25	CT32526X60
28x100mm	Nom. 8-15 microns	25	CT32528100
28x120mm	Nom. 8-15 microns	25	CT32528120
30x100mm	Nom. 8-15 microns	25	CT32530100
30x80mm	Nom. 8-15 microns	25	CT32530X80
30x95mm	Nom. 8-15 microns	25	CT32530X95
33x100mm	Nom. 8-15 microns	25	CT32533100
33x118mm	Nom. 8-15 microns	25	CT32533118
35x120mm	Nom. 8-15 microns	25	CT32535120
35x150mm	Nom. 8-15 microns	25	CT32535150
40x150mm	Nom. 8-15 microns	25	CT32540150
48x145mm	Nom. 8-15 microns	25	CT32548145

→ Continued on the next page

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Cellulose thimbles for Soxhlet, automatic.

Dim. Øxlength	Particle retention in liquid	Pack (u.)	Art. No.
22x80mm	Nom. 8-15 microns	25	CT42522X80
25x100mm	Nom. 8-15 microns	25	CT42525100
28x22mm	Nom. 8-15 microns	25	CT42528X22
33x80mm	Nom. 8-15 microns	25	CT42533X80
33x94mm	Nom. 8-15 microns	25	CT42533X94
43x123mm	Nom. 8-15 microns	25	CT42543123



Pure quartz extraction thimbles SCHARLAU

Average height ± 1mm. Average wall thickness 2,0mm. Temperature resistant up to 900°C.

Quartz microfiber thimble

Dim. Øxlength	Particle retention in liquid	Pack (u.)	Art. No.
16x50mm	Nom. 0,5 microns	25	TMQ3216X50
22x80mm	Nom. 0,5 microns	25	TMQ3222X80
25x60mm	Nom. 0,5 microns	25	TMQ3225X60
26x60mm	Nom. 0,5 microns	25	TMQ3226X60
28x100mm	Nom. 0,5 microns	25	TMQ3228100
28x60mm	Nom. 0,5 microns	25	TMQ3228X60
30x70mm	Nom. 0,5 microns	25	TMQ3230X70
30x77mm	Nom. 0,5 microns	25	TMQ3230X77
30x100mm	Nom. 0,5 microns	25	TMQ3230100
33x94mm	Nom. 0,5 microns	25	TMQ3233X94
35x150mm	Nom. 0,5 microns	25	TMQ3235150
40x150mm	Nom. 0,5 microns	25	TMQ3240150
43x123mm	Nom. 0,5 microns	25	TMQ3243123
53x145mm	Nom. 0,5 microns	25	TMQ3253145

Soxhlet extraction thimbles

FILTER-LAB

Extraction thimbles made of noble cellulose linters free of impurities.

Standard cellulose thimbles



Extraction thimbles gamma

Dim. Øxlength	Particle retention in liquid	Pack (u.)	Art. No.
10x50mm	Nom. 8-15 microns	25	302CC01050
16x100mm	Nom. 8-15 microns	25	1391816100
22x80mm	Nom. 8-15 microns	25	1391822080
25x60mm	Nom. 8-15 microns	25	302-CC2560
26x60mm	Nom. 8-15 microns	25	302-CC2660
33x100mm	Nom. 8-15 microns	25	302CC33100
33x118mm	Nom. 8-15 microns	25	302CC33118
35x150mm	Nom. 8-15 microns	25	302CC35150
40x100mm	Nom. 8-15 microns	25	302CC40100
50x160mm	Nom. 8-15 microns	25	3021850160
53x145mm	Nom. 8-15 microns	25	1391853145

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Glass microfibr thimble

Dim. Ølength	Particle retention in liquid	Pack (u.)	Art. No.
19x90mm	Nom. 0,5 microns	25	302CB01090
26x60mm	Nom. 0,5 microns	25	1900CB2660
30x100mm	Nom. 0,5 microns	25	00CFV30100
33x94mm	Nom. 0,5 microns	25	302CB33094
35x150mm	Nom. 0,5 microns	25	302CB35150

Quartz microfibr thimble

Dim. Ølength	Particle retention in liquid	Pack (u.)	Art. No.
19x90mm	Nom. 0,5 microns	25	302CQ01990
25x100mm	Nom. 0,5 microns	25	302CQ25100



Whatman GE thimbles

Cellulose extraction thimbles
WHATMAN

The cellulose extraction thimbles are made from high quality alpha cellulose linters with excellent properties of mechanical resistance and retention.

Standard cellulose thimbles, 1mm wall thickness

Dim. Ølength	Particle retention in liquid	Pack (u.)	Art. No.
10x50mm	Nom. 10 microns	25	1092800105
18x55mm	Nom. 10 microns	25	1092800185
19x90mm	Nom. 10 microns	25	1092800199
22x65mm	Nom. 10 microns	25	1092800226
22x80mm	Nom. 10 microns	25	1092800228
25x100mm	Nom. 10 microns	25	1092800250
25x80mm	Nom. 10 microns	25	1092800258
25x90mm	Nom. 10 microns	25	1092800259
26x60mm	Nom. 10 microns	25	1092800266
26x100mm	Nom. 10 microns	25	1092800260
28x100mm	Nom. 10 microns	25	1092800280
28x120mm	Nom. 10 microns	25	1092800282
28x80mm	Nom. 10 microns	25	1092800288
30x100mm	Nom. 10 microns	25	1092800300
30x80mm	Nom. 10 microns	25	1092800308
33x100mm	Nom. 10 microns	25	1092800330
33x118mm	Nom. 10 microns	25	1092800331
33x80mm	Nom. 10 microns	25	1092800338
33x94mm	Nom. 10 microns	25	1092800339
37x130mm	Nom. 10 microns	25	1092800373
41x123mm	Nom. 10 microns	25	1092800412
43x123mm	Nom. 10 microns	25	1092800432
60x180mm	Nom. 10 microns	25	1092800608

Medium cellulose thimbles, 1,5mm wall thickness

Dim. Ølength	Particle retention in liquid	Pack (u.)	Art. No.
22x80mm	Nom. 8 microns	25	0010350211
25x60mm	Nom. 8 microns	25	0010350215
33x80mm	Nom. 8 microns	25	0010350240

Thick cellulose thimbles, 2mm wall thickness

Dim. Ølength	Particle retention in liquid	Pack (u.)	Art. No.
22x60mm	Nom. 6 microns	25	0010350306
33x100mm	Nom. 6 microns	25	0010350243
80x250mm	Nom. 6 microns	25	0010350324

High-purity glass microfiber thimbles

WHATMAN

The 100% borosilicate glass extraction thimbles withstand temperatures up to 500°C.

Microfiber thimble, pure glass, 1,7mm wall thickness.

Dim. Øxlength	Particle retention in liquid	Pack (u.)	Art. No.
19x90mm	Nom. 0,8 microns	25	1092814199
30x100mm	Nom. 0,8 microns	25	1092814300

FILTRATION: Reams

Absorbent and protective paper (reams)

Absorbent ream

Dim. HxW	g/m ²	Pack (u.)	Art. No.
20x13cm	73	500	0013052013
42x52cm	60	3x500	139250P252
42x52cm	50	4x500	139253P252
32x42cm	73	500	1393053242
42x52cm	73	1x500	1393054252
42x52cm	73	3x500	139305P252

Cellulose protection + polyethylene

Dim. HxW	Pack (u.)	Art. No.
42x52cm	500	0015054252
42x52cm	500	HJ15054252
50cmx50m	500	3021555050

Extractors in **page 901**



For further information, please contact scharlab@scharlab.com

FILTRATION: Membranes



Membranes for mobile phase filtration SCHARLAU

Scharlau's filtration line is expanded with newly added filtration membranes for mobile phase filtration. Nylon membranes and Nitrocellulose Mixed Ester membranes of the highest quality are available.

- We recommend using **Nylon membranes as the standard material for filtering eluents due to its chemical compatibility**. As Nylon is hydrophilic in nature, these membranes are appropriate for filtering aqueous solutions and for most of the organic solvents used in HPLC. The Nylon membrane has a uniform pore size, consistent flows and a very low level of extractables. They can be exposed to up to 180°C without damage and has a pH range from 3 to 12.

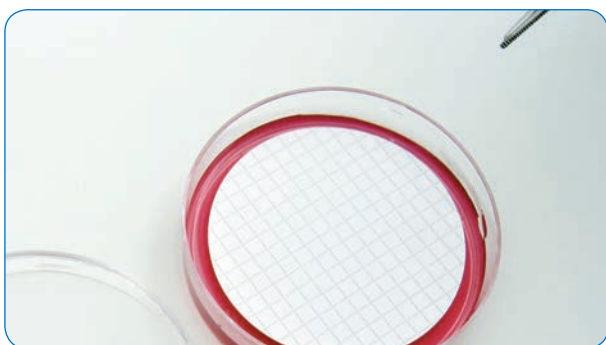
- Mixed Ester membranes are composed of a **mixture of inert cellulose** nitrate and cellulose acetate polymers. The uniform microporous structure of these filters provides the fastest flow rates and highest throughput available in a membrane filter. Its hydrophilic nature makes them ideal for **filtering aqueous solutions, including buffers**. These filters are autoclavable at 121°C (250°F) for 20 minutes. The pH range is from 4 to 10.

Nylon

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Nylon	47	0,22	No	No	White	100	NY47020100
Nylon	47	0,45	No	No	White	100	NY47045100

Mixed Ester membranes

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
EMC	47	0,22	No	No	White	100	EM47020100
EMC	47	0,45	No	No	White	100	EM47045100



Sterile membranes SCHARLAU

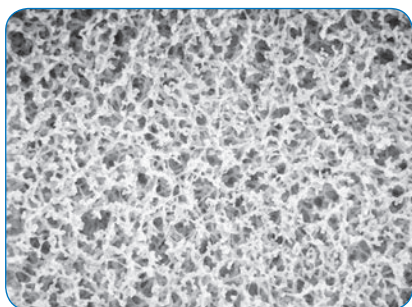
Cellulose nitrate filtration membrane high quality especially suitable for use in microbiological control. White membrane with grid to facilitate counting. Sterile, individually packed.

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Cellulose nitrate	47	0,45	Yes	Black	White	100	ES47045100

Filtration manifolds
in **page 474**



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Nitrocellulose mixed esters membranes GVS

These hydrophilic membranes are composed of a mixture of inert cellulose nitrate and cellulose acetate. The uniform microporous structure of these filters provide the fastest flow rates and highest throughputs available in a membrane filter. They are ideal for filtering aqueous solutions, including buffers. These filters are autoclavable at 121°C (250°F) for 20 minutes. The pH range is from 4 to 10.

ME membranes, nitrocellulose mixed esters, non-sterile. GVS

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
ME	25	0,22	No	No	White	100	E02WP02500
ME	47	0,22	No	No	White	100	E02WP04700
ME	90	0,22	No	No	White	25	E02WP09025
ME	142	0,22	No	No	White	25	E02WP14225
ME	13	0,45	No	No	White	100	E04WP01300
ME	25	0,45	No	No	White	100	E04WP02500
ME	47	0,45	No	No	White	100	E04WP04700
ME	90	0,45	No	No	White	25	E04WP09025
ME	142	0,45	No	No	White	25	E04WP14225
ME	25	0,65	No	No	White	100	E06WP02500
ME	47	0,65	No	No	White	100	E06WP04700
ME	47	0,8	No	Black	White	100	E08WG04700
ME	25	0,8	No	No	White	100	E08WP02500
ME	47	0,8	No	No	White	100	E08WP04700
ME	47	1,2	No	Black	White	100	E12WG04700
ME	25	1,2	No	No	White	100	E12WP02500
ME	47	1,2	No	No	White	100	E12WP04700
ME	47	5	No	No	White	100	E50WP04700
ME	47	8	No	No	White	100	E80WP04700

ME membranes, nitrocellulose mixed esters, sterile. GVS

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
ME	47	0,22	Yes	Black	White	200	E02WG047S1
ME	47	0,22	Yes	Black	White	100	E02WG047S2
ME	47	0,22	Yes	Black	White	1000	E02WG047S4
ME	47	0,45	Yes	White	Black	200	E04BG047S1
ME	47	0,45	Yes	White	Black	100	E04BG047S2
ME	47	0,45	Yes	White	Black	1000	E04BG047S4
ME	47	0,45	Yes	Black	White	200	E04WG047S1
ME	47	0,45	Yes	Black	White	100	E04WG047S2
ME	47	0,45	Yes	Black	White	1000	E04WG047S4
ME	47	0,45	Yes	Black	White	1000	E04WG047S5

Filtration systems
in **page 468**



For further information, please contact scharlab@scharlab.com



Nylon (NY) filtration membranes GVS

Magna Nylon membrane filters are the standard filter material for filtering eluents due to their wide chemical compatibility range and hydrophilic characteristics. Nylon filters can be used to filter all aqueous and the majority of organic solvent solutions used in HPLC. Magna Nylon filters are manufactured by GVS using a unique impregnation process that confers great resistance to its membranes. They can withstand temperatures up to 180°C (356°F) with no effects. The pH range is from 3 to 12. The result is a nylon filter with uniform pore size and consistent flow rates. Wetting agents are not used during manufacturing, resulting in a very low level of extractables. The most appropriate for filtering the mobile phase are those with a diameter of 47mm and 0,45µm pore size.

Nylon membranes, non-sterile. GVS

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Nylon	47	0,1	No	No	White	100	R01SP04700
Nylon	13	0,22	No	No	White	100	R02SP01300
Nylon	25	0,22	No	No	White	100	R02SP02500
Nylon	47	0,22	No	No	White	100	R02SP04700
Nylon	90	0,22	No	No	White	25	R02SP09025
Nylon	13	0,45	No	No	White	100	R04SP01300
Nylon	25	0,45	No	No	White	100	R04SP02500
Nylon	47	0,45	No	No	White	100	R04SP04700
Nylon	90	0,45	No	No	White	25	R04SP09025
Nylon	142	0,45	No	No	White	25	R04SP14225
Nylon	47	0,8	No	No	White	100	R08SP04700
Nylon	47	1,2	No	No	White	100	R12SP04700
Nylon	90	1,2	No	No	White	25	R12SP09025
Nylon	25	5	No	No	White	100	R50SP02500
Nylon	47	5	No	No	White	100	R50SP04700
Nylon	47	10	No	No	White	100	R99SP04700

Nylon membranes, sterile. GVS

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Nylon	47	0,45	Yes	Yes	White	200	R04SG047S1

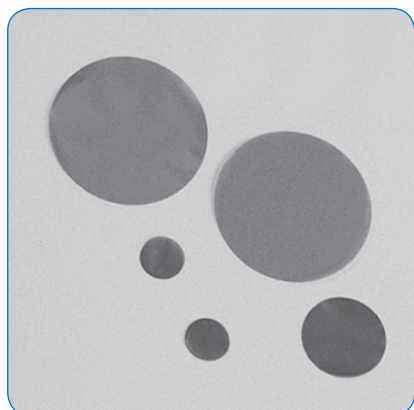
Scharlau Laboratory Filtration range



The wise choice

Quantitative and qualitative filter papers, extraction thimbles, quartz microfiber and glass microfiber filters, syringe filters, membrane filters for mobile phase and membrane filters for microbiology





PCTE Black

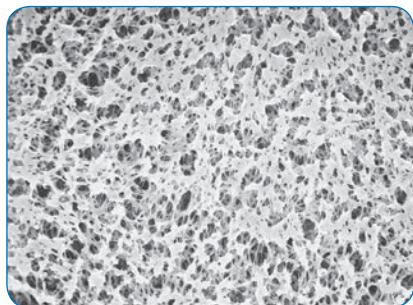
Polycarbonate Track Etched (PCTE) membranes GVS

Polycarbonate membranes are microporous filters with a smooth flat surface and precisely controlled cylindrical pores. The precise pore size of the filters is achieved by exposing polycarbonate film to charged particles in a nuclear reactor. The pore density is controlled by the duration of time that the polycarbonate film is exposed to the charged particles. The tracks on the polycarbonate film are then dissolved with a chemical solution to form cylindrical pores. Varying the temperature, strength and exposure time of the etching solution controls pore sizes. The membrane has a wetting agent, Polyvinylpyrrolidone (PVP) making it hydrophilic. This filter offers several benefits; for viewing surface samples with optical or electron microscopes, eliminating compensation measures necessary when using filters of mixed cellulose esters in microscopy. The unique manufacturing process results in an extremely narrow pore size distribution for accurate separation of samples by size. GVS polycarbonate filters do not stain, minimizing background interference. These filters are autoclavable with a maximum operating temperature of 140°C (284°F). The most common filters are detailed below. Contact us if you desire other diameters or pore sizes.

PCTE membranes, non-sterile polycarbonate. GVS

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
PCTE	25	0,2	No	No	Black	100	K02BP02500
PCTE	25	0,4	No	No	Black	100	K04BP02500
PCTE	25	0,6	No	No	Black	100	K06BP02500
PCTE	25	0,8	No	No	Black	100	K08BP02500
PCTE	25	1	No	No	Black	100	K10BP02500
PCTE	25	8	No	No	Black	100	K80BP02500
PCTE	47	0,4	No	No	Black	100	K04BP04700
PCTE	47	0,8	No	No	Black	100	K08BP04700
PCTE	25	0,2	No	No	White	100	K02CP02500
PCTE	47	0,2	No	No	White	100	K02CP04700
PCTE	25	0,4	No	No	White	100	K04CP02500
PCTE	47	0,4	No	No	White	100	K04CP04700
PCTE	25	0,6	No	No	White	100	K06CP02500
PCTE	47	0,6	No	No	White	100	K06CP04700
PCTE	25	0,8	No	No	White	100	K08CP02500
PCTE	47	0,8	No	No	White	100	K08CP04700
PCTE	25	1	No	No	White	100	K10CP02500
PCTE	47	1	No	No	White	100	K10CP04700
PCTE	25	12	No	No	White	100	K12CP02500
PCTE	47	12	No	No	White	100	K12CP04700
PCTE	25	14	No	No	White	100	K14CP02500
PCTE	47	14	No	No	White	100	K14CP04700
PCTE	25	2	No	No	White	100	K20CP02500
PCTE	47	2	No	No	White	100	K20CP04700
PCTE	25	20	No	No	White	100	K22CP02500
PCTE	47	20	No	No	White	100	K22CP04700
PCTE	25	3	No	No	White	100	K30CP02500
PCTE	47	3	No	No	White	100	K30CP04700
PCTE	25	5	No	No	White	100	K50CP02500
PCTE	47	5	No	No	White	100	K50CP04700
PCTE	25	8	No	No	White	100	K80CP02500
PCTE	47	8	No	No	White	100	K80CP04700
PCTE	25	10	No	No	White	100	K99CP02500
PCTE	47	10	No	No	White	100	K99CP04700

For further information, please contact scharlab@scharlab.com



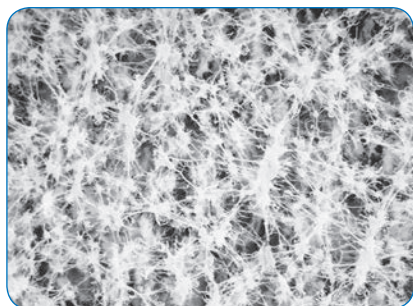
Polypropylene (PP) membrane filters

GVS

Polypropylene hydrophobic filters have extremely low extractable levels. Designed to provide accurate, consistent analysis results for sensitive ion chromatography applications whilst prolonging column life. The Polypropylene filter is the preferred filter membrane for HPLC applications where the detection levels are below 230nm. Its pH range is 1 to 14 and it has a broad chemical compatibility allowing its use with aqueous and organic solvent samples. It represents an alternative to PTFE membranes in most cases.

Polypropylene membranes, non-sterile

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
PP	47	0,22	No	No	White	100	M02WP04700
PP	142	0,22	No	No	White	25	M02WP14225
PP	47	0,45	No	No	White	100	M04WP04700
PP	142	0,45	No	No	White	25	M04WP14225



PTFE Membranes, laminated

GVS

PTFE filters are composed of laminated PTFE on a polypropylene support which provides durability and makes them easier to handle. They are compatible with strong acids and most aggressive solvents. Autoclavable up to 130°C. Thickness: 175µm. Hydrophobic.

PTFE membranes, non-sterile

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
PTFE	25	0,22	No	No	White	100	F02LP02500
PTFE	47	0,22	No	No	White	100	F02LP04700
PTFE	25	0,45	No	No	White	100	F04LP02500
PTFE	47	0,45	No	No	White	100	F04LP04700



Mixed cellulose ester membranes ME

WHATMAN

Also suitable for use in microbiology. Economical. Specific for aqueous solutions. Hydrophilic. Temperature resistant up to 125°C. Sterile, in individual packaging.

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Me 25/21 STL	47	0,45	Yes	Black	White	4x100	0010407312
Me 25/21 ST	47	0,45	Yes	Black	White	100	0010406870
Me 25/21 ST	47	0,45	Yes	Black	White	1000	0010406871
Me 25/21 ST	47	0,45	Yes	Black	Green	100	0010409472
Me 24/21 ST	47	0,2	Yes	Black	White	100	0010406970

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Nitrocellulose membrane filters for microbiological control

WHATMAN

Membrane filters made of cellulose nitrate especially developed for use in microbiological applications. Great mechanical resistance. High flow rate. Ideal for samples with a high content of particles or viscous samples. Sterile, individual container. With a high contrast grid (3,1mm). The STL filter is used with the Whatman membrane dispenser.

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Microplus-21STL	47	0,45	Yes	Black	White	4x100	0010407112
Microplus-21 ST	47	0,45	Yes	Black	White	1x100	0010407713
Microplus-21STL	47	0,45	Yes	White	Black	4x100	0010407132
Microplus-21 ST	50	0,45	Yes	White	Black	1x100	0010407734
Microplus-21STL	47	0,45	Yes	Black	Green	4x100	0010407170



Membrane filters for mobile phase filtration

WHATMAN

For filtering the mobile phase in HPLC/UHPLC and clarification.

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Regenerated cellulose	47	0,2	No	No	White	100	0010410312
Regenerated cellulose	47	0,45	No	No	White	100	0010410212
Cellulose mixed esters	47	0,2	No	No	White	100	0010401712
Cellulose mixed esters	47	0,45	No	No	White	100	0010401612
Cellulose nitrate	47	0,2	No	No	White	100	0010401312
Cellulose nitrate	47	0,45	No	No	White	100	0010401112
Nylon	47	0,2	No	No	White	100	0010414012
Nylon	47	0,45	No	No	White	100	0010414112
PTFE	47	0,2	No	No	White	50	0010411411
PTFE	47	0,45	No	No	White	50	0010411311



Polycarbonate filtration membranes

WHATMAN

Nucleopore® Track-Etched membranes. Recommended for use in water control, air analysis, parasitology, bio-analysis, cellular biology, environmental analysis, epifluorescence microscopy, Legionella culture. Autoclavable.

Cyclopore® Track-Etched membranes. Their high affinity for staining provides a great optical contrast that makes microscopical observations easier. Autoclavable. Useful in different applications: electron microscopy, epifluorescence microscopy and general microscopy; yeast, mould, Giardia, Legionella, coliform and canine microflora counting; in vitro diagnostics and general filtration: water analysis, environmental hygiene, blood and cell filtration, and DNA studies.

Material	Ø (mm)	Porus size (µm)	Sterile	Grid	Colour	Pack (u.)	Art. No.
Nucleopore® Track-Etched	47	0,2	Yes	No	White	100	0000111106
Nucleopore® Track-Etched	47	0,4	Yes	No	White	100	0000111107
Cyclopore® Track-Etched	47	0,2	Yes	No	White	100	0070604702
Cyclopore® Track-Etched	47	0,2	Yes	No	Black	100	0070634702

FILTRATION: Filtration systems

**Filtration assembly for HPLC
SCHARLAU**

Description	Pack (u.)	Art. No.
Complete equipment with 1 l flask	1	073-SS1001
Upper adapter with olive, cone 29/32	1	073-0TF001
Female funnel 29/32	1	073-SS1003
Porous plate filter holder, socket 40/38	1	073-001124
1l flask, male 40/38	1	073-001125
2l flask, male 40/38	1	073-1125/2
Metallic clamp	1	073-Q279-5


**Filtration assembly for HPLC, GL45 thread
SCHARLAU**

Description	Pack (u.)	Art. No.
Top piece with olive and stopcock	1	073-Q279-1
Porous plate holder	1	073-Q279-2
2l amber bottle with conical bottom	1	0222180663
2,5l amber bottle with conical bottom	1	073Q279-3A
4l amber bottle with conical bottom	1	073Q279-6A
Male Adapter 40/38 for bottle	1	073-Q279-4
Metal clip	1	073-Q279-5


**All-glass filtration assembly for 47mm membranes
SCHARLAU**

Description	Pack (u.)	Art. No.
Complete	1	073-001123
47mm filter support, femmale 40/38	1	073-001124
Support funnel 300ml	1	073-001121
1l filtering flask, male 40/38	1	073-001125
Metal clip	1	073-Q279-5


**Filtration assembly for 25mm membranes
SCHARLAU**

Description	Pack (u.)	Art. No.
Complete	1	073-0Q7724
25mm filter support	1	073Q2484/2
Support funnel 60ml	1	073Q7729/1
Metal clip	1	073Q2484/4
1000ml filtering flask	1	0733768104
Neoprene plug number 8	1	3661002508



Filtration assembly for 47mm membranes SCHARLAU

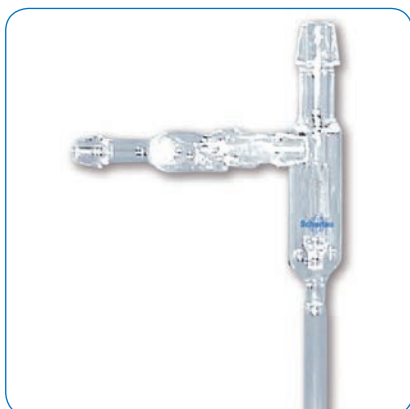
Includes 1000ml filtering flask.

Description	Pack (u.)	Art. No.
Complete	1	073-001119
47mm filter support	1	073-001120
Support funnel 300ml	1	073-001121
Metal clip	1	073-Q279-5
1000ml filtering flask	1	0733768104
Neoprene plug number 8	1	3661004708



Vacuum water pump SCHARLAU

Ø Lateral olive (mm)	Ø Central olive (mm)	Pack (u.)	Art. No.
10/11	15/16	1	073-001221



Vacuum water pump with non-return valve SCHARLAU

Ø Lateral olive (mm)	Ø Central olive (mm)	Pack (u.)	Art. No.
10/11	15/16	1	073-001222



Check valve SCHARLAU

Ø Olives (mm)	Pack (u.)	Art. No.
10/11	1	073-001224

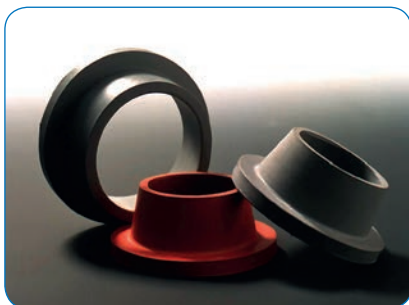
For further information, please contact scharlab@scharlab.com


Filtering flasks with ground socket and hose connector
SCHARLAU

Cap. (ml)	Socket	Pack (u.)	Art. No.
100	29/32	1	073-000161
250	29/32	1	073-000162
500	29/32	1	073-000163
1000	29/32	1	073-000164
2000	29/32	1	073-000165


Filtering flasks with hose connector
SCHARLAU

Cap. (ml)	Ø neck (mm)	Pack (u.)	Art. No.
100	24	1	0033768101
250	35	1	0033768102
500	35	1	0033768103
1000	45	1	0033768104
100	24	10	1033768101
250	35	10	1033768102
500	35	10	1033768103
1000	45	10	1033768104


Filter rings with flange
DEUTSCH & NEUMANN

Filter rings in natural rubber hardness 40 Shore A, in grey

Ø sup./Ø inf. (mm)	Height (mm)	Pack (u.)	Art. No.
41/24	20	1	0002350011
48/32	20	1	0002350021
56/42	20	1	0002350031


Rubber spacers for filtering (Guko)
DEUTSCH & NEUMANN

Rubber gaskets (Guko) natural rubber, hardness 40 Shore A.

Description	Pack (u.)	Art. No.
Set of 8 gaskets (Guko), grey	1	0002010181
Set of 8 gaskets (Guko), red	1	0002010182

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Sartolab® RF/BTvacuum filter units

SARTORIUS

Disposable sterile filter systems and bottle top Filters are designed for the vacuum filtration of tissue culture media and components, biological fluids, and other aqueous solutions. These products are for laboratory use only, not for human parenteral applications.

All units are sterilized by gamma irradiation.

The filter units contain membranes integrally sealed to a support grid designed to maximize flow and reduce foaming and protein denaturation. The membrane is compatible with most aqueous solutions and tested for use in cell culture applications.

The filter funnels, dust covers and receiver bottles are manufactured from virgin, heavy metal-free polystyrene.

The tubing adapters, filter adapters, and the plug seal caps are made from heavy metal-free polyethylene.

Sartolab® filter systems are available with polyethersulfone membranes. (0,22µm).

Individual and sterile packaged.

The bottles are single-use containers. They cannot withstand autoclaving or use at temperatures greater than 70°C.

BT (Bottle Top): Bottle Top Filters suitable for bottles with thread GL45

RF (Receiver Flask): Complete filtration unit with receptor, flexible vacuum tube adapter and cap.

Type	Volume (ml)	Area (cm ²)	Pack (u.)	Art. No.
RF 150	150	18	12	0000180C1E
RF 250	250	24	12	0000180C7E
RF 500	500	40	12	0000180C2E
RF 1000	1000	62	12	0000180C3E
BT 150	150	18	48	0000180C4K
BT 500	500	40	12	0000180C5E
BT 1000	1000	62	12	0000180C6E



Bottle Top Vacuum Filters

CORNING

Packaged separately, sterile and nonpyrogenic certificate.

PES membrane.

Neck diameter: 45mm.

Volume (ml)	Ø membrane (mm)	Porus size (µm)	Pack (u.)	Art. No.
150	50	0,22	48	00C0431161
500	70	0,22	12	00C0431118
1000	90	0,22	12	00C0431174



Vacuum filtration systems

CORNING

The angular hose connector simplifies the vacuum line device.

The collecting bottles have easy handling places for a better management.

Packaged separately, sterile and nonpyrogenic certificate.

Caps for collecting bottles are sterile and are packaged individually.

PES membrane.

Volume (ml)	Ø membrane (mm)	Porus size (µm)	Pack (u.)	Art. No.
250	50	0,22	12	00C0431096
500	70	0,22	12	0000431097
1000	90	0,22	12	00C0431098

For further information, please contact scharlab@scharlab.com



**Bottle Top Filters, MF75™ Series, PES membrane
NALGENE**

PS housing.
PES membrane.
Filters securely screw onto glass media bottles with 33 or 45mm neck diameter.
Allow direct filtration of liquid into sterile glass media bottles.
Side-arm with quick-disconnect tubing adapter.
Blue collar.
Certified, sterile and graduated.
500ml with molded-in graduations.
CAUTION: use only sterile bottles designed for use with vacuum. Always use safety shield during vacuum procedures.

Ø Stem (mm)	Volume (ml)	Porus size (µm)	Ø membrane (mm)	Pack (u.)	Art. No.
33	500	0,2	75	12	ONA5953320
33	500	0,45	75	12	ONA2953345
45	500	0,2	75	12	ONA5954520
45	500	0,45	75	12	ONA2954545
33	150	0,2	50	12	ONA5963320
33	150	0,45	50	12	ONA2963345
45	150	0,2	50	12	ONA5964520
45	150	0,45	50	12	ONA2964545



**Bottle Top Filters, MF75™ Series, SFCA membrane
NALGENE**

PS housing.
Sterile, disposable tissue culture filters.
Securely screw onto media bottles with 33 or 45mm neck diameter.
Allows vacuum filtration of liquid directly into sterile bottles.
Yellow collar.
Certified, sterile and graduated.

Ø Stem (mm)	Volume (ml)	Porus size (µm)	Ø membrane (mm)	Pack (u.)	Art. No.
33	150	0,2	50	12	ONA2903320
33	150	0,45	50	12	ONA2903345
45	150	0,2	50	12	ONA2904520
45	150	0,45	50	12	ONA2904545
33	500	0,2	75	12	ONA2913320
33	500	0,45	75	12	ONA2913345
45	500	0,2	75	12	ONA2914520
45	500	0,45	75	12	ONA2914545

**Vacuum pumps
in page 1046**



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Filter units, MF75™ Series, PES membrane NALGENE

PS housing.
 PES membrane.
 Ideal for biological and pharmaceutical sterilisation requirements.
 Graduations on both uppers and receivers.
 Side-arm with cellulosic vent plug and quick-disconnect tubing adapter.
 Blue collar.
 With leakproof threaded closure for receiver.
 Certified, sterile and graduated.

Volume (ml)	Ø membrane (mm)	Porus size (µm)	Pack (u.)	Art. No.
150	50	0,1	12	ONA5650010
150	50	0,2	12	ONA5650020
150	50	0,45	12	ONA1650045
250	50	0,1	12	ONA5680010
250	50	0,2	12	ONA5680020
250	50	0,45	12	ONA1680045
500	75	0,1	12	ONA5660010
500	75	0,2	12	ONA5660020
500	75	0,45	12	ONA1660045
500	90	0,2	12	ONA5690020
500	90	0,45	12	ONA1690045
1000	50	0,1	12	ONA5670010
1000	90	0,2	12	ONA5670020
1000	90	0,45	12	ONA1670045



Filter units, MF75™ Series, SFCA membrane NALGENE

PS. With SFCA membrane.
 Graduation of both uppers and receiver.
 Yellow, sterile.

Volume (ml)	Ø membrane (mm)	Porus size (µm)	Pack (u.)	Art. No.
1000	90	0,2	12	ONA1610020
1000	90	0,45	12	ONA1610045
150	50	0,2	12	ONA1550020
150	50	0,45	12	ONA1550045
250	50	0,2	12	ONA1570020
250	50	0,45	12	ONA1570045
500	75	0,2	12	ONA1564020
500	75	0,45	12	ONA1564045
500	75	0,2	12	ONA1580020
500	75	0,45	12	ONA1580045
115	50	0,2	12	ONA1220020
115	50	0,45	12	ONA1220045
500	90	0,2	12	ONA1620020
500	90	0,45	12	ONA1620045

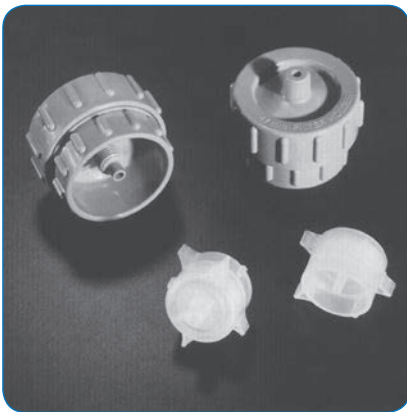
For further information, please contact scharlab@scharlab.com



Filter holder Gravi-Seal
GVS

Its unique gravity seal design allows the handling of its sole two pieces with a single hand, safely preventing the displacement of the membrane or sample leaks. Very stable, solid and without maintenance costs, (as it has no spare parts). Both the funnel and the base are made of PS, autoclavable material, with a wide chemical compatibility. It is graduated up to 350ml with 50ml increments. Autoclavable and chemically resistant for cell culture and microbiological applications.

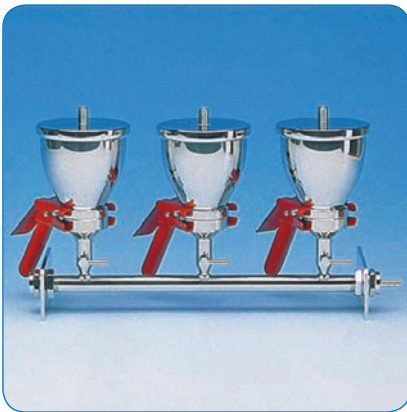
Description	Pack (u.)	Art. No.
PS analytical filter holder (complete unit): 47mm	3	PFC0004703



Filter housings
GVS

The 13mm housing (Celcon Acrylic) is resistant to alcohols, esters, ethers, glycols, aromatic hydrocarbons, halogenated hydrocarbons, acetones, oils... Compatible with most weak acids and bases. Maximum work pressure is 40psi and is autoclavable for 15min. at 121°C, 15psi. Optimum volume is 1-5ml. The 25 and 47mm housings are of PP and are usually used for filtration and/or sterilization under positive pressure. They are also useful for gas or liquid filtration at its point of use. Typically, the 25mm, is the one used for samples up to 50ml and the 47mm one can filter up to 1l of sample depending on its viscosity. Temperature resistant up to 121°C. Both can be autoclaved for 20min at 121 °C, 15psi.

Description	Pack (u.)	Art. No.
13mm Celcon housing (complete)	5	DDPC001305
25mm polypropylene housing (complete)	10	DDPP002510
47mm polypropylene housing (complete)	2	DDPP004702
47mm polypropylene housing (complete)	10	DDPP004710



Filtration manifold
WHATMAN

Manifold and funnels are made of stainless steel. Fritted (rack as an accessory, Art. No. 0010464103). Vacuum connection: tube of 9mm internal Ø. Funnels included.

Description	Pack (u.)	Art. No.
Filtration manifold, 3 funnels, 100ml	1	0010445850
Filtration manifold, 3 funnels, 500ml	1	0010445830
Filtration manifold, 3 funnels, 500ml. With strap clamp	1	0010445835
Filtration manifold, 6 funnels, 100ml	1	0010444850
Filtration manifold, 6 funnels, 500ml	1	0010444830
Filtration manifold, 6 funnels, 500ml. With strap clamp	1	0010444835



Filtration manifold for display units and analytical funnels
WHATMAN

Stainless steel 3-6 place manifold is recommended for monitors and analytical funnels (the manifold needs 3 perforated caps nº 8 not included).

Description	Pack (u.)	Art. No.
Manifold filtration, 3 places	1	0010498761
Manifold filtration, 6 places	1	0010498762

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Analytical funnels 100ml GVS

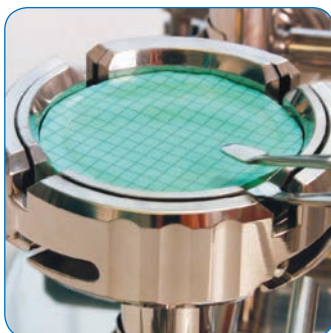
Ready-to-use filtration units for microbiology. For filtration of 100ml sample. Totally removable membrane for incubation later on plates. Prior sterilization or flaming is not required. Its use minimizes the risk of cross contamination. Unit bag. 47mm diameter membrane. Compatible with diverse filtration systems.

Porus (µm)	Ø (mm)	Grid	Colour	Pack (u.)	Art. No.
0,2	47	Black	White	50	0010497510
0,45	47	Black	White	50	0010497506
0,45	47	White	Black	50	0010497509



Microbiological filtration system MBS I WHATMAN

Facilitates large throughput volume of samples reducing the risk of cross contamination as flame sterilization is no longer required. Also the special seal system eliminates nearly all possibility of contamination. For 47mm and 50mm diameter membranes. The system combines a funnel dispenser, a manual membrane dispenser and a vacuum filter manifold.



Description	Pack (u.)	Art. No.
Filter manifold, 2 AS220 positions (they can be easily connected to each other by increasing the number of positions)	1	0010445890
Funnel dispenser	1	0010445870
Membrane dispenser	1	0010477100
Sterile 100ml PP Funnels (Autoclavables. Withstand 50 sterilizations by autoclave)	20	0010445861
100ml Funnels ABS (acetonitrile butadiene styrene) sterile (not autoclavable)	20	0010445865
Sterile 350ml PP Funnels (Autoclavables. Withstand 50 sterilizations by autoclave)	20	0010445866
Autoclave bags for PP funnels	20	0010445868

For further information, please contact scharlab@scharlab.com

FILTRATION: Syringe filters



Scharlau syringe filters SCHARLAU

Scharlau syringe filters are used mainly for filtering small aqueous and organic samples prior to chromatography injection. The filtered samples ensure column protection. The filter housing is made of pure PP. The result is a high quality syringe filter fulfilling the needs of the most demanding chromatographers.

Nylon: nylon syringe filters have become the **standard** material due to their wide chemical compatibility and their hydrophobic nature. **They can be used for filtering aqueous samples and most solvents.**

Regenerated cellulose: the regenerated syringe filters have a lower protein retention than those made of nylon and are less extractable than PVDF. Ideal for **aqueous solutions.**

PVDF: polyvinylidene fluoride syringe filters are indicated for the filtration of protein samples due to their very low retention.

PTFE: syringe filters made of PTFE and have the lowest extractables and the widest chemical compatibility. They are especially suitable for filtering solvents due to their hydrophobic nature. Designed for filtering the most aggressive solvents, and strongest acids and bases.

PP: filters of hydrophobic PP (polypropylene), great resistance to solvents, very low protein binding and good thermal compatibility. They are used for general filtration of biological samples, solvents, deionized water. Commonly used for UHPLC.

Nylon. SCHARLAU

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
Nylon	25	0,22	No	200	NY25020200
Nylon	25	0,22	No	1000	NY25021000
Nylon	25	0,45	No	200	NY25045200
Nylon	25	0,45	No	1000	NYL2541000
Nylon	13	0,22	No	500	NY13020500
Nylon	13	0,22	No	1000	NY13021000
Nylon	13	0,45	No	200	NY13045200
Nylon	13	0,45	No	1000	NY13041000

Regenerated Cellulose. SCHARLAU

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
CR	25	0,22	No	200	CR25020200
CR	25	0,22	No	1000	CR25021000
CR	25	0,45	No	200	CR25045200
CR	25	0,45	No	1000	CR25041000
CR	13	0,22	No	1000	CR13021000
CR	13	0,45	No	1000	CR13041000

PVDF. SCHARLAU

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PVDF	30	0,22	No	200	PV30020200
PVDF	30	0,22	No	1000	PV30021000
PVDF	30	0,45	No	200	PV30045200
PVDF	30	0,45	No	1000	PV30041000
PVDF	17	0,22	No	200	PV17020200
PVDF	17	0,22	No	1000	PV17021000
PVDF	17	0,45	No	200	PV17045200
PVDF	17	0,45	No	1000	PV17041000

→ Continued on the next page

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PTFE. SCHARLAU

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PTFE	30	0,22	No	200	TF30020200
PTFE	30	0,22	No	1000	TF30021000
PTFE	30	0,45	No	200	TF30045200
PTFE	30	0,45	No	1000	TF30041000
PTFE	17	0,22	No	200	TF17020200
PTFE	17	0,22	No	1000	TF17021000
PTFE	17	0,45	No	200	TF17045200
PTFE	17	0,45	No	1000	TF17041000
PTFE	13	0,22	No	1000	TL13021000

Polypropylene. SCHARLAU

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
Polypropylene	25	0,22	No	1000	PP25021000
Polypropylene	25	0,45	No	1000	PP25041000
Polypropylene	13	0,22	No	1000	PP13021000
Polypropylene	13	0,45	No	1000	PP13041000



Cameo syringe filters GVS

- Cameo N is a disposable syringe filter with a **universal Magna Nylon membrane**, designed for the sterilization and clarification of aqueous and organic samples. The polypropylene housing resists high temperatures, is autoclavable and has luer ends. The Magna Nylon membrane is hydrophilic and does not contain wetting agents, therefore, it does not release extractables when filtering. Temperature resistance up to 180°C. Also available on 1,2 and 5µm.

- Cameo F is a disposable syringe filter with a PTFE membrane designed for filtering the **most aggressive solvents and also acids and bases**. The PTFE membrane is hydrophobic and does not release any extractables. Autoclavable.

- Polyvinylidene fluoride syringe filters are designed for sterilizing and eliminating particles from protein samples. They demonstrate extremely low protein binding, a fact that makes them ideal for filtering **solutions rich in protein**.

- Cameo A is a disposable syringe filter with a cellulose acetate membrane used for filtering **aqueous and high protein content samples**. The 30mm syringe filter provides bidirectional support for the membrane allowing injection as well as aspiration of the sample.

- Cameo P is a disposable syringe filter with a membrane and outer housing made of the same material, polypropylene. The combination of the membrane and the outer housing made of

polypropylene allow its use for aqueous and organic samples. The polypropylene filter has a low protein binding capacity and a very low level of extractables which makes it the ideal filter for the analysis of protein samples and for ion chromatography applications (<230nm). **Commonly used in UHPLC.**

- The polyethersulfone Cameo S is indicated for maximum sample recovery as in the preparation of media, filtration and clarification of fluids, buffers, and other aqueous solutions where low protein binding and a low level of extractables is required. The sterile filters are delivered individually packaged providing fast flows when filtering or sterilizing protein samples.

- The sterile nitrocellulose mixed esters syringe filters, are pre-sterilized individually by gamma irradiation and are devised for **sterilization and clarification of aqueous solutions up to 100ml**. Delivered individually packaged. The uniform microporous structure provides very fast flow and high performance. The acrylic housing is modified and designed for bidirectional use.

Nylon. GVS

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
Nylon	Nylon	3	0,22	No	100	DDR0200300
Nylon	Nylon	3	0,45	No	100	DDR0400300
Nylon	PP	17	0,22	No	50	DDR02T1750
Nylon	PP	17	0,45	No	50	DDR04T1750
Nylon	PP	17	1,2	No	50	DDR12T1750
Nylon	PP	17	5	No	50	DDR50T1750
Nylon	PP	30	0,22	No	50	DDR02T3050
Nylon	PP	30	0,45	No	50	DDR04T3050
Nylon	PP	30	1,2	No	50	DDR12T3050
Nylon	PP	30	5	No	50	DDR50T3050
Nylon	PP	30	5	No	200	DDR50T30NM
Nylon	Acrylic	25	0,22	Yes	50	DDR02025S0
Nylon	Acrylic	25	0,45	Yes	50	DDR04025S0

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For further information, please contact scharlab@scharlab.com

PTFE. GVS

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PTFE	PP	17	0,22	No	50	DDF02T1750
PTFE	PP	30	0,22	No	50	DDF02T3050
PTFE	PP	17	0,45	No	50	DDF04T1750
PTFE	PP	30	0,45	No	50	DDF04T3050

PVDF. GVS

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PVDF	PP	17	0,22	No	50	DDV02T1750
PVDF	PP	30	0,22	No	50	DDV02T3050
PVDF	PP	17	0,45	No	50	DDV04T1750
PVDF	PP	30	0,45	No	50	DDV04T3050

Cellulose acetate. GVS

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
CA	Nylon	3	0,22	No	100	DDA0200300
CA	Nylon	3	0,45	No	100	DDA0400300
CA	PP	17	0,22	No	50	DDA02T1750
CA	PP	17	0,45	No	50	DDA04T1750
CA	PP	30	0,22	No	50	DDA02T3050
CA	PP	30	0,45	No	50	DDA04T3050
CA	PP	30	0,8	No	50	DDA08T3050
CA	Acrylic	25	0,22	Yes	50	DDA02025S0
CA	Acrylic	25	0,45	Yes	50	DDA04025S0

Polypropylene. GVS

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PP	PP	17	0,22	No	50	DDP02T1750
PP	PP	17	0,45	No	50	DDP04T1750
PP	PP	30	0,22	No	50	DDP02T3050
PP	PP	30	0,45	No	50	DDP04T3050

Polyethersulfone. GVS

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PES	PP	17	0,22	No	50	DDS02T1750
PES	PP	17	0,45	No	50	DDS04T1750
PES	PP	30	0,22	No	50	DDS02T3050
PES	PP	30	0,45	No	50	DDS04T3050
PES	Acrylic	25	0,22	Yes	50	DDS02025S0
PES	Acrylic	25	0,45	Yes	50	DDS04025S0

Cellulose nitrate. GVS

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
NC	Acrylic	25	0,22	Yes	50	DDE02025S0
NC	Acrylic	25	0,45	Yes	50	DDE04025S0

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Cameo syringe filters with glass fiber prefilter GVS

Syringe filters with a glass fiber prefilter include a glass fiber prefilter of 1,0µm over the filtration membrane. They are designed for sterilization and clarification of samples with high particle content which can not be filtered with a standard filter without prefiltering.

Filter	Case	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
GF/Nylon	PP	17	0,22	No	50	DGR02T1750
GF/Nylon	PP	17	0,45	No	50	DGR04T1750
GF/Nylon	PP	30	0,22	No	50	DGR02T3050
GF/Nylon	PP	30	0,45	No	50	DGR04T3050
GF/PTFE	PP	17	0,22	No	50	DGF02T1750
GF/PTFE	PP	17	0,45	No	50	DGF04T1750
GF/PTFE	PP	30	0,22	No	50	DGF02T3050
GF/PTFE	PP	30	0,45	No	50	DGF04T3050
GF/CA	PP	30	0,22	No	50	DGA02T3050
GF/CA	PP	30	0,45	No	50	DGA04T3050



Puradisc syringe filters WHATMAN

Puradisc syringe filters combine high quality with a good price. They are useful for fast and efficient filtrations of volume samples up to 100ml.

Cellulose acetate

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
AC	13	0,45	No	100	06771-1304
AC	30	0,2	Yes	50	0010462200
AC	30	0,45	Yes	50	0010462100
AC	30	0,2	No	50	0010462701
AC	30	0,45	No	50	0010462601

Regenerated Cellulose

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
CR	13	0,2	Yes	50	0010462945
CR	30	0,2	Yes	50	0010462960
CR	30	0,45	Yes	50	0010462950

Nylon

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
Nylon	13	0,2	No	100	06789-1302
Nylon	13	0,45	No	100	06789-1304
Nylon	25	0,2	No	50	06750-2502
Nylon	25	0,2	No	200	06751-2502
Nylon	25	0,45	No	50	06750-2504
Nylon	25	0,45	No	200	06751-2504

Polyethersulfone

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
Polyethersulfone	13	0,2	No	100	06782-1302
Polyethersulfone	13	0,45	No	100	06782-1304
Polyethersulfone	25	0,2	No	200	06781-2502
Polyethersulfone	25	0,45	No	200	06781-2504

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Polypropylene

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PP	13	0,2	No	100	06788-1302
PP	13	0,45	No	100	06788-1304
PP	25	0,2	No	50	06786-2502
PP	25	0,2	No	200	06788-2502
PP	25	0,45	No	50	06786-2504

PTFE

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PTFE	13	0,2	No	100	06784-1302
PTFE	13	0,45	No	100	06784-1304
PTFE	25	0,2	No	50	06784-2502
PTFE	25	0,2	No	200	06785-2502
PTFE	25	0,45	No	50	06784-2504
PTFE	25	0,45	No	200	06785-2504

PVDF

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PVDF	13	0,2	No	100	06779-1302
PVDF	13	0,45	No	100	06779-1304
PVDF	25	0,2	No	50	06746-2502
PVDF	25	0,2	No	200	06747-2502
PVDF	25	0,45	No	50	06746-2504
PVDF	25	0,45	No	200	06747-2504



Spartan syringe filters

WHATMAN

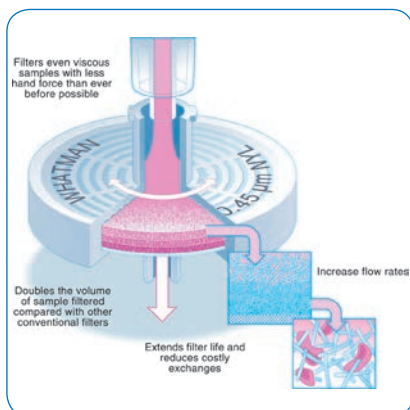
SPARTAN syringe filters ensure reproducible filtration results of organic and aqueous solutions in HPLC. For maximum reproducibility batch by batch, the SPARTAN filtration range is tested and certified regarding the absence of UV absorbent substances in wavelengths of 210 and 254nm with water, methanol and acetonitrile.

Spartan RC

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
CR	13	0,2	No	100	0010463100
CR	13	0,45	No	100	0010463110
CR	30	0,2	No	100	0010463060
CR	30	0,45	No	100	0010463050

Spartan RC with mini-tip out

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
CR	13	0,2	No	100	0010463040
CR	13	0,45	No	100	0010463030

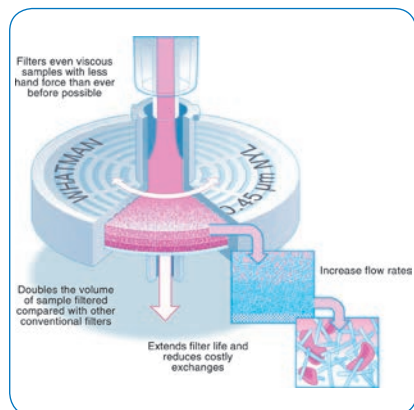


GD/XP syringe filters

WHATMAN

Whatman GD/XP syringe filters are ideal for use with samples which require the analysis of organic ions, the level of ionic extractables is reduced to the minimum. They are also an alternative for users requiring a filter with a low protein binding capacity.

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
Nylon	25	0,45	No	150	06970-2504
PES	25	0,45	No	150	06994-2504
PP	25	0,45	No	150	06978-2504
PTFE	25	0,45	No	150	06974-2504
PVDF	25	0,45	No	150	06972-2504



GD/X syringe filters WHATMAN

GD/X gamma is designed specifically for filtering samples with a high load of particles. With a polypropylene housing free of pigments and with a Whatman GMF150 and GF/F glass microfiber prefilter. These filters eliminate or reduce largely the need for prefiltration of samples difficult to filter and allow for filtering difficult samples using less pressure. The GD/X syringe filters can process 3 to 7 times more volume of sample than standard syringe filters.

Cellulose acetate

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
AC	13	0,2	No	150	06880-1302
AC	13	0,45	No	150	06880-1304
AC	25	0,2	No	50	06901-2502
AC	25	0,2	No	150	06880-2502
AC	25	0,45	No	50	06901-2504
AC	25	0,45	No	150	06880-2504

Regenerated cellulose

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
CR	25	0,2	No	150	06887-2502
CR	25	0,45	No	150	06882-2504

Glass microfiber

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
GF/A	13	1,6	No	150	06882-1316
GF/A	25	1,6	No	150	06882-2516
GF/B	13	1	No	150	06884-1310
GF/B	25	1	No	150	06884-2510
GF/C	13	1,2	No	150	06886-1312
GF/C	25	1,2	No	150	06886-2512
GF/D	13	2,7	No	150	06888-1327
GF/D	25	2,7	No	150	06888-2527
GF/F	13	0,7	No	150	06890-1307
GF/F	25	0,7	No	150	06890-2507

Nylon

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
Nylon	13	0,2	No	150	06870-1302
Nylon	13	0,45	No	150	06870-1304
Nylon	25	0,2	No	150	06870-2502
Nylon	25	0,45	No	150	06870-2504
Nylon	25	5	No	150	06870-2550

Polypropylene

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PP	13	0,2	No	150	06878-1302
PP	13	0,45	No	150	06878-1304
PP	25	0,2	No	150	06878-2502
PP	25	0,45	No	150	06878-2504

Polysulfone

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PS	13	0,2	No	150	06876-1302
PS	13	0,45	No	150	06876-1304
PS	25	0,2	No	150	06876-2502
PS	25	0,45	No	150	06876-2504

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

PTFE

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PTFE	13	0,2	No	150	06874-1302
PTFE	13	0,45	No	150	06874-1304
PTFE	25	0,2	No	150	06874-2502
PTFE	25	0,45	No	150	06874-2504

PVDF

Filter	Ø (mm)	Porus size (µm)	Sterile	Pack (u.)	Art. No.
PVDF	13	0,2	No	150	06872-1302
PVDF	13	0,45	No	150	06872-1304
PVDF	25	0,2	No	150	06872-2502
PVDF	25	0,45	No	150	06872-2504


Mini-UniPrep G2 syringeless filters
WHATMAN

The Mini-UniPrep G2 filters without syringe, provide a fast and easy way to eliminate particles from UHPLC/HPLC samples. Mini-UniPrep G2 has a sample throughput three times faster than a syringe filter. Due to its next generation design, the filtered sample is stored within a borosilicate glass vial, minimizing sample contamination risk. It standardizes sample preparation prior to UHPLV/HPLC. Mini-UniPrep G2 ensures that each sample is filtered before analysis and, therefore, the instrumental inactivity time is minimized resulting in cost and time saving for the laboratory. Available with a wide range of membranes, septum and amber versions (for light sensitive samples).

Mini-UniPrep G2 (compressor requires Art. No. 0MUPG2PWC1)

Filter	Vial	Septum	Porus size (µm)	Pack (u.)	Art. No.
PVDF	Glass, transparent	PTFE/Silicone	0,2	100	N203NPEAQU
PVDF	Glass, transparent	PTFE/Silicone	0,45	100	N203NPUAQU
PTFE	Glass, transparent	PTFE/Silicone	0,2	100	N203NPEORG
PTFE	Glass, transparent	PTFE/Silicone	0,45	100	N203NPUORG
PP	Glass, transparent	PTFE/Silicone	0,2	100	GN203NPEPP

Mini-UniPrep G2 with manual compressor included

Filter	Vial	Septum	Porus size (µm)	Pack (u.)	Art. No.
PVDF	Glass, transparent	PTFE/Silicone	0,2	100	N203NPEAQZ
PVDF	Glass, transparent	PTFE/Silicone	0,45	100	N203NPUAQZ
PTFE	Glass, transparent	PTFE/Silicone	0,2	100	N203NPEORX
PTFE	Glass, transparent	PTFE/Silicone	0,45	100	N203NPUORX
PTFE	Glass, transparent	Slit, PTFE/Silicone	0,2	100	S203NPEORX
PTFE	Glass, transparent	Slit, PTFE/Silicone	0,45	100	S203NPUORX
PP	Glass, transparent	PTFE/Silicone	0,2	100	N203NPEPPX
Nylon	Glass, transparent	PTFE/Silicone	0,2	100	N203NPEPYA
PTFE	Glass, amber	PTFE/Silicone	0,2	100	N203APEORX
PVDF	Glass, amber	PTFE/Silicone	0,2	100	N203APEAQZ

Compressor MUP G2

Description	Pack (u.)	Art. No.
MUP G2 Compressor, 1 position	1	0MUPG2PWC1

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Mini-UniPrep syringeless filters WHATMAN

Mini-UniPrep filters without syringe provide a faster and easier way of eliminating sample particles which are being prepared for HPLC/UHPLC. Mini-UniPrep allows the preparation of samples within a third of the time required by other methods. The filtered sample is stored within a polypropylene vial. Take into account the time and money saved and you will see great advantages for your laboratory.

Mini-UniPrep

Filter	Vial	Septum	Porus size (µm)	Pack (u.)	Art. No.
CR	Polypropylene, transparent	PTFE/Silicone	0,2	100	UN203NPERC
CR	Polypropylene, transparent	PTFE/Silicone	0,45	100	UN203NPURC
Nylon	Polypropylene, transparent	PTFE/Silicone	0,2	100	UN203NPENY
Nylon	Polypropylene, transparent	Slit, PTFE/Silicone	0,2	100	US203NPENY
Nylon	Polypropylene, transparent	PTFE/Silicone	0,45	100	UN203NPUNY
Nylon	Polypropylene, transparent	Slit, PTFE/Silicone	0,45	100	US203NPUNY
Nylon	Polypropylene, transparent	Slit, PTFE/Silicone	0,45	100	US203APUNY
PES	Polypropylene, transparent	PTFE/Silicone	0,2	100	UN203NPEPE
PES	Polypropylene, transparent	Slit, PTFE/Silicone	0,2	100	US203NPEPE
PES	Polypropylene, transparent	PTFE/Silicone	0,45	100	UN203NPUPE
PES	Polypropylene, transparent	Slit, PTFE/Silicone	0,45	100	US203NPUPE
PP	Polypropylene, transparent	PTFE/Silicone	0,2	100	UN203NPEPP
PP	Polypropylene, transparent	Slit, PTFE/Silicone	0,2	100	US203NPEPP
PP D	Polypropylene, transparent	PTFE/Silicone	0,45	100	UN203NPUDP
PP	Polypropylene, transparent	PTFE/Silicone	0,45	100	UN203NPUPP
PP D	Polypropylene, transparent	Slit, PTFE/Silicone	0,45	100	US203NPUDP
PP	Polypropylene, transparent	Slit, PTFE/Silicone	0,45	100	US203NPUPP
PTFE	Polypropylene, transparent	PTFE/Silicone	0,2	100	UN203NPEOR
PTFE	Polypropylene, transparent	Slit, PTFE/Silicone	0,2	100	US203NPEOR
PTFE	Polypropylene, transparent	PTFE/Silicone	0,45	100	UN203NPUOR
PTFE	Polypropylene, transparent	Slit, PTFE/Silicone	0,45	100	US203NPUOR
PVDF	Polypropylene, transparent	PTFE/Silicone	0,2	100	UN203NPEAQ
PVDF	Polypropylene, transparent	Slit, PTFE/Silicone	0,2	100	US203NPEAQ
PVDF	Polypropylene, transparent	PTFE/Silicone	0,45	100	UN203NPUAQ
PVDF	Polypropylene, transparent	Slit, PTFE/Silicone	0,45	100	US203NPUAQ
Nylon	Polypropylene, amber	PTFE/Silicone	0,2	100	UN203APENY
Nylon	Polypropylene, amber	PTFE/Silicone	0,45	100	UN203APUNY
PES	Polypropylene, amber	PTFE/Silicone	0,2	100	UN203APEPE
PES	Polypropylene, amber	PTFE/Silicone	0,45	100	UN203APUPE
PP	Polypropylene, amber	PTFE/Silicone	0,2	100	UN203APEPP
PP D	Polypropylene, amber	PTFE/Silicone	0,45	100	UN203APUDP
PP	Polypropylene, amber	PTFE/Silicone	0,45	100	UN203APUPP
PTFE	Polypropylene, amber	PTFE/Silicone	0,2	100	UN203APEOR
PTFE	Polypropylene, amber	PTFE/Silicone	0,45	100	UN203APUOR
PVDF	Polypropylene, amber	PTFE/Silicone	0,2	100	UN203APEAQ
PVDF	Polypropylene, amber	PTFE/Silicone	0,45	100	UN203APUAQ

MUP Compressor

Description	Pack (u.)	Art. No.
MUP Compressor 6 positions	1	OCR0000006

For further information, please contact scharlab@scharlab.com

FLASH CHROMATOGRAPHY

ExtraBond Flash cartridges SCHARLAU

The Flash chromatography technique is increasingly used for synthesis and purification. Universal ExtraBond® Flash cartridges are available from Scharlab.

- Ultra-clean Polypropylene Cartridges
- Guaranteed no leaks at 100psi (6,9bar)
- Bundled with ExtraBond® ultrapure silica (40-63µm, 60Å)
- Narrow particle size distribution
- pH neutral
- Water content controlled
- Variety of available phases: C18, Amino, Cyano, Diol, SCX...
- Variety of formats (4, 12, 25, 40, 80, 120, 220 and 330g)
- Innovative packaging
- Very good resolution, no tails
- Lot to lot reproducibility
- Also available high efficiency silica (20-40µm)

Compatible with the following equipment:

- Teledyne Isco: CombiFlash® (Rf, Companion®, Retrieve™, Optix™)
- Biotage: Isolera™, SP™, Flash+™, FlashMater II
- Analogix (Varian): IntelliFlash 310 and 280, SimpliFlash, F12/40
- Interchim (PuriFlash™ 430evo)
- Armen (Spot Flash System)
- Moritex: Purif-α2, Purif-compact
- Yamazen (W-Prep 2XY)
- Buchi (Sepacore®)
- Grace Reveleris

→ Contact scharlab@scharlab.com indicating your Flash equipment model and we will confirm the compatibility. Ask for samples!

ExtraBond® Flash. Luer lock input. Luer output



Phase	Mass (g)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
Silica	4	60	40-63	20	FLASIL04GA
Silica	12	60	40-63	20	FLASIL12GA
Silica	25	60	40-63	15	FLASIL25GE
Silica	40	60	40-63	15	FLASIL40GE
Silica	80	60	40-63	12	FLASIL80GF
Silica	120	60	40-63	10	FLASIL120X
Silica	220	60	40-63	4	FLASIL220G
Silica	330	60	40-63	4	FLASIL330G
C18	4	60	40-63	20	FLAC1804GA
C18	12	60	40-63	20	FLAC1812GA
C18	25	60	40-63	15	FLAC1825GE
C18	40	60	40-63	15	FLAC1840GE
C18	80	60	40-63	12	FLAC1880GF
C18	120	60	40-63	10	FLAC18120X
C18	220	60	40-63	4	FLAC18220G
C18	330	60	40-63	4	FLAC18330G

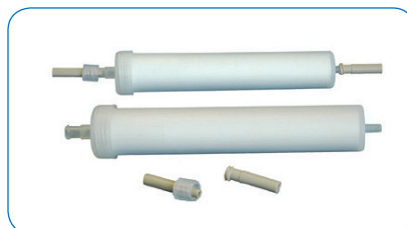
Adapters. ExtraBond® Flash fits virtually any unit directly. However, for some models adapters are required. Contact scharlab@scharlab.com indicating your Flash computer model and we will confirm the compatibility.



New-line (Art. No. SOLVBBIOTAG)



New-line (Art. No. SOLVBBIOTAG)



Adapters (Art. No. ADAPBIOTAG)

Description	Pack (u.)	Art. No.
New-line adapters, Biotage SP1 and SP4	1	SOLVBBIOTAG
Adapters for compression module, Biotage SP1 and SP4	2	ADAPBIOTAG
Adapter for Flash Master™	1	ADAPFLASMA

→ Continued on the next page

Guard columns/chargers. For both loading solid samples and dry load a plunger is used and a cartridge for load (empty or filled) connected to ExtraBond® Flash as shown in Figure A.

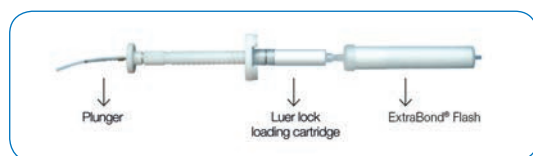


Figure A

Description	Pack (u.)	Art. No.
Plunger for 10ml cartridges (16mm)	1	PLUNGER-10
Plunger for 60ml cartridges (27mm)	1	PLUNGER-60
10ml empty load cartridge with 2 frits	100	CHAREMP-10
60ml empty load cartridge with 2 frits	100	CHAREMP-60
10ml cartridge, 5g SI	20	CHARSIL05G
60ml cartridge, 25g SI	16	CHARSIL25G

ExtraBond® Flash SLL - Screw Luer Lock SCHARLAU

Hand screw-on head cap columns with luer lock design at both top and bottom. These are universal cartridges compatible with most of flash equipment including Biotage and Isco. Designed to be used with or without a spacer inside for solid sample method.

ExtraBond® Flash SLL without spacer



ExtraBond® Flash SLL without spacer

Phase	Mass (g)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
Silica	12	60	40-60	20	FLLNSI12GA
Silica	20	60	40-60	20	FLLNSI20GA
Silica	40	60	40-60	10	FLLNSI40GX
Silica	80	60	40-60	5	FLLNSI80GV
Silica	120	60	40-60	5	FLLNSI120V
C18	12	60	40-60	20	FLLN1812GA
C18	20	60	40-60	20	FLLN1820GA
C18	40	60	40-60	10	FLLN1840GX
C18	80	60	40-60	5	FLLN1880GV
C18	120	60	40-60	5	FLLN18120V

ExtraBond® Flash SLLS - Screw Luer Lock with spacer. Spacer must be purchased separately.

Phase	Mass (g)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
Silica	12	60	40-60	20	FLLSSI12GA
Silica	20	60	40-60	20	FLLSSI20GA
Silica	40	60	40-60	10	FLLSSI40GX
Silica	80	60	40-60	5	FLLSSI80GV
Silica	120	60	40-60	5	FLLSSI120V
C18	12	60	40-60	20	FLLS1812GA
C18	20	60	40-60	20	FLLS1820GA
C18	40	60	40-60	10	FLLS1840GX
C18	80	60	40-60	5	FLLS1880GV
C18	120	60	40-60	5	FLLS18120V

Spacers

Phase	Mass (g)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
Silica	1	60	40-60	20	FLLSPA12GA
Silica	3	60	40-60	20	FLLSPA20GA
Silica	4	60	40-60	10	FLLSPA40GX
Silica	7	60	40-60	5	FLLSPA80GV
Silica	10	60	40-60	5	FLLSPA120V
C18	1	60	40-60	20	FLLSP812GA
C18	3	60	40-60	20	FLLSP820GA
C18	4	60	40-60	10	FLLSP840GX
C18	7	60	40-60	5	FLLSP880GV
C18	10	60	40-60	5	FLLSP8120V

For further information, please contact scharlab@scharlab.com

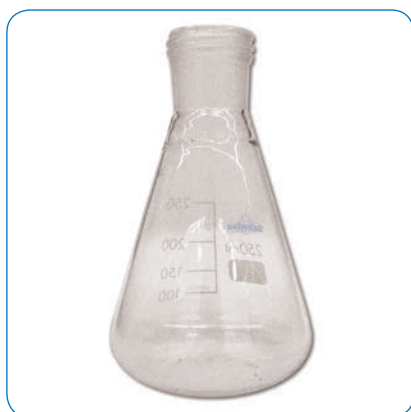
FLASKS

- Erlenmeyer flasks, *page 486*
- Spherical flasks, *page 488*
- Volumetric flasks, *page 492*
- Other flasks, *page 498*

FLASKS: Erlenmeyer flasks

Erlenmeyer flask with ground socket
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
25	14/23	1	073-000134
50	14/23	1	073-000135
50	29/32	1	073-013529
100	14/23	1	073-000136
100	19/26	1	073-000137
100	29/32	1	073-000138
250	14/23	1	073-000139
250	29/32	1	073-000140
500	29/32	1	073-000142
1000	29/32	1	073-000144
25	14/23	10	073-100134
50	14/23	10	073-100135
50	29/32	10	073-113529
100	14/23	10	073-100136
100	19/26	10	073-100137
100	29/32	10	073-100138
250	14/23	10	073-100139
250	29/32	10	073-100140
500	29/32	10	073-100142
1000	29/32	10	073-100144


Erlenmeyer flasks with screw thread joint
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
100	14/23	1	073S000136
100	29/32	1	073S000138
250	29/32	1	073S000140
500	29/32	1	073S000142
100	14/23	1	073S100136
100	29/32	1	073S100138
250	29/32	1	073S100140
500	29/32	1	073S100142

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Erlenmeyer flasks with SVL screw cap SCHARLAU

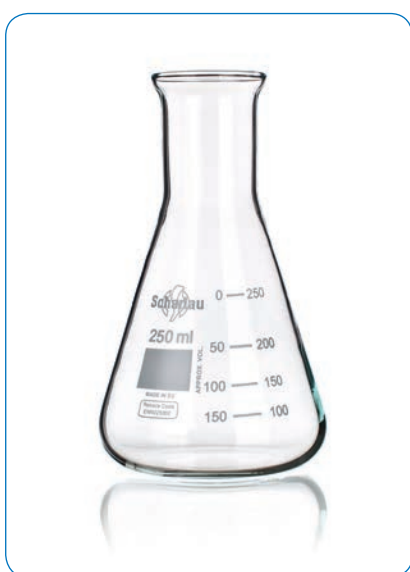
Capacity (ml)	Thread SVL	Pack (u.)	Art. No.
25	22	1	073-000150
50	22	1	073-000151
100	30	1	073-000152
250	42	1	073-000153
500	42	1	073-000154
1000	30	1	073-000155
1000	42	1	073-000156



Erlenmeyer flasks wide neck DIN 1773 SCHARLAU

*It includes retrace code and double graduated scale.

Capacity (ml)	Ø neck (mm)	Height (mm)	Pack (u.)	Art. No.
50	34	85	1	0033567504
100	34	105	1	0033527505*
200	50	131	1	0033527507
250	50	140	1	0033527508*
300	50	156	1	0033527509
500	50	175	1	0033527511*
1000	50	220	1	0033527514
50	34	85	10	1033567504
100	34	105	10	1033527505*
200	50	131	10	1033527507
250	50	140	10	1033527508*
300	50	156	10	1033527509
500	50	175	10	1033527511*
1000	50	220	10	1033527514



Erlenmeyer flasks narrow neck DIN 1773 SCHARLAU

*It includes retrace code and double graduated scale.

Capacity (ml)	Ø neck (mm)	Height (mm)	Pack (u.)	Art. No.
50	22	90	1	0033567304
100	22	105	1	0033527305
200	34	135	1	0033527307
250	34	145	1	0033527308*
300	34	160	1	0033527309
500	34	180	1	0033527311*
1000	42	220	1	0033527314*
50	22	90	10	1033567304
100	22	105	10	1033527305
200	34	135	10	1033527307
250	34	145	10	1033527308*
300	34	160	10	1033527309
500	34	180	10	1033527311*
1000	42	220	10	1033527314*

For further information, please contact scharlab@scharlab.com

Erlenmeyer flasks
KARTELL

Material: polypropylene. Suitable for foodstuff. Autoclavable.
 For general laboratory use. Have standardized neck. Autoclavable.

Description	Capacity (ml)	Closure	Pack (u.)	Art. No.
Graduation 10ml	50	NS/DIN 14/23	1	425-001460
Graduation 25ml	125	NS/DIN 14/23	1	425-001461
Graduation 25ml	250	NS/DIN 19/26	1	425-001462
Graduation 50ml	500	NS/DIN 24/29	1	425-001463
Graduation 50ml	1000	NS/DIN 29/32	1	425-001464
Graduation 100ml	2000	NS/DIN 34/35	1	425-001465

FLASKS: Spherical flasks

Flasks, ground socket, round bottom, short neck, transparent glass
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
10	14/23	1	073-000002
25	14/23	1	073-000003
50	14/23	1	073-000004
100	14/23	1	073-000005
100	29/32	1	073-000006
250	14/23	1	073-000007
250	29/32	1	073-000008
500	29/32	1	073-000009
1000	29/32	1	073-000010
10	14/23	10	073-100002
25	14/23	10	073-100003
50	14/23	10	073-100004
100	14/23	10	073-100005
100	29/32	10	073-100006
250	14/23	10	073-100007
250	29/32	10	073-100008
500	29/32	10	073-100009
1000	29/32	10	073-100010


Flasks, ground socket, round bottom, short neck, amber glass
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
50	14/23	1	073A000004
100	14/23	1	073A000005
100	29/32	1	073A000006
250	14/23	1	073A000007
250	29/32	1	073A000008
500	29/32	1	073A000009
1000	29/32	1	073A000010
50	14/23	10	073A100004
100	14/23	10	073A100005
100	29/32	10	073A100006
250	14/23	10	073A100007
250	29/32	10	073A100008
500	29/32	10	073A100009
1000	29/32	10	073A100010

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Flasks, round bottom, short neck, screw thread joint
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
100	14/23	1	073S000005
100	29/32	1	073S000006
250	29/32	1	073S000008
500	29/32	1	073S000009
100	14/23	10	073S100005
100	29/32	10	073S100006
250	29/32	10	073S100008
500	29/32	10	073S100009


Flasks, ground socket, round bottom, long neck
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
100	14/23	1	073-000032
250	29/32	1	073-000033
500	29/32	1	073-000034
1000	29/32	1	073-000035


Flasks, ground socket, flat bottom, short neck
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
50	14/23	1	073-000036
100	14/23	1	073-000037
100	19/26	1	073-000038
100	29/32	1	073-000039
250	14/23	1	073-000040
250	19/26	1	073-000041
250	29/32	1	073-000042
500	29/32	1	073-000043
1000	29/32	1	073-000044
50	14/23	10	073-100036
100	14/23	10	073-100037
100	19/26	10	073-100038
100	29/32	10	073-100039
250	14/23	10	073-100040
250	19/26	10	073-100041
250	29/32	10	073-100042
500	29/32	10	073-100043
1000	29/32	10	073-100044

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Flasks, flat bottom, short neck, screw thread joint
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
100	14/23	1	073S000037
100	29/32	1	073S000039
250	29/32	1	073S000042
500	29/32	1	073S000043
100	14/23	10	073S100037
100	29/32	10	073S100039
250	29/32	10	073S100042
500	29/32	10	073S100043



Flasks, ground socket, flat bottom, long neck
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
250	29/32	1	073-000047
500	29/32	1	073-000048
1000	29/32	1	073-000049



Flasks, ground sockets, round bottom, two necks, central neck and angled side neck
SCHARLAU

Capacity (ml)	Central cone	Lat. socket	Pack (u.)	Art. No.
100	14/23	14/23	1	073-000068
100	29/32	14/23	1	073-000069
250	14/23	14/23	1	073-000070
250	29/32	14/23	1	073-000071
500	29/32	14/23	1	073-000072
1000	29/32	14/23	1	073-000073
1000	29/32	29/32	1	073-000074
2000	29/32	14/23	1	073-000075
2000	29/32	29/32	1	073-000076



Flasks, ground sockets, round bottom, three necks, central neck and two angled side necks
SCHARLAU

Capacity (ml)	Lat. cone	Cent. socket	Lat. socket	Pack (u.)	Art. No.
50	14/23	14/23	14/23	1	073-311128
100	14/23	14/23	14/23	1	073-311137
100	14/23	29/32	14/23	1	073-314137
250	14/23	29/32	14/23	1	073-314149
500	14/23	29/32	14/23	1	073-314158
1000	29/32	29/32	29/32	1	073-314470
1000	29/32	29/32	14/23	1	073-314414
2000	29/32	29/32	29/32	1	073-314473
6.000	29/32	29/32	29/32	1	073-314485

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Flasks, ground sockets, round bottom, two necks, parallel central and side necks
SCHARLAU

Capacity (ml)	Lat. cone	Cent. socket	Lat. socket	Pack (u.)	Art. No.
250	14/23	14/23	14/23	1	073-000091
500	14/23	14/23	14/23	1	073-000092
1000	29/32	14/23	14/23	1	073-000093
2000	29/32	29/32	29/32	1	073-000094



Flasks, ground sockets, round bottom, two necks, parallel central and one side neck, one angled side neck
SCHARLAU

Capacity (ml)	Lat. cone	Cent. socket	Lat. socket	Pack (u.)	Art. No.
500	14/23	29/32	29/32	1	073-000100
1000	14/23	29/32	29/32	1	073-000101
1000	29/32	29/32	29/32	1	073-000102
2000	29/32	29/32	29/32	1	073-000103



Flasks, flat bottom, short neck DIN 1773
SCHARLAU

Capacity (ml)	Ø neck (mm)	Pack (u.)	Art. No.
50	26	1	0033562304
100	26	1	0033522305
250	34	1	0033522308
500	34	1	0033522311
1000	42	1	0033562314
50	26	10	1033562304
100	26	10	1033522305
250	34	10	1033522308
500	34	10	1033522311
1000	42	10	1033562314



Flasks, round bottom, short neck DIN 1773
SCHARLAU

Capacity (ml)	Ø neck (mm)	Pack (u.)	Art. No.
50	26	1	0033561304
100	26	1	0033521305
250	34	1	0033521308
500	34	1	0033521311
1000	42	1	0033521314
50	26	10	1033561304
100	26	10	1033521305
250	34	10	1033521308
500	34	10	1033521311
1000	42	10	1033521314

FLASKS: Volumetric flasks



**Volumetric flasks, class A, PE stopper, serial number and conformity certified
SCHARLAU**

Borosilicate glass 3,3.
Blue printed.
Lot number.
Complies with norm ISO 1042.

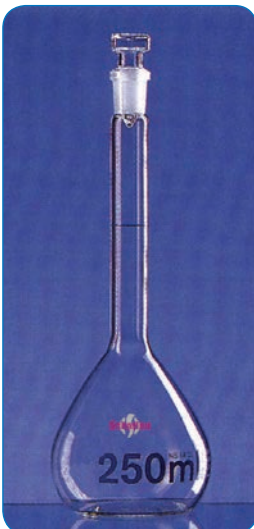
Borosilicate glass

Capacity (ml)	Socket	Pack (u.)	Art. No.
5	10/19	1	073-001629
10	10/19	1	073-001630
20	10/19	2	0732163120
25	12/21	2	073-201631
50	12/21	2	073-201632
100	14/23	2	073-201633
200	14/23	2	073-201634
250	14/23	2	073-201635
500	19/26	2	073-201636
1000	24/29	2	073-201637
2000	29/32	2	073-001638



Amber glass

Capacity (ml)	Socket	Pack (u.)	Art. No.
5	10/19	1	073A001629
10	10/19	1	073A001630
20	10/19	2	073A163120
25	12/21	2	073A201631
50	12/21	2	073A201632
100	14/23	2	073A201633
200	14/23	2	073A201634
250	14/23	2	073A201635
500	19/26	2	073A201636
1000	24/29	2	073A201637
2000	29/32	2	073A001638



**Volumetric flasks, class A, glass stopper, serial number and conformity certified
SCHARLAU**

Borosilicate glass 3,3.
Blue printed.
Lot number.
Complies with norm ISO 1042.

Capacity (ml)	Socket	Pack (u.)	Art. No.
5	10/19	1	073-001639
10	10/19	1	073-001640
20	10/19	1	073-164120
25	12/21	2	073-201641
50	12/21	2	073-201642
100	14/23	2	073-201643
200	14/23	2	073-201644
250	14/23	2	073-201645
500	19/26	2	073-201646
1000	24/29	1	073-001647
2000	29/32	1	073-001648



The wise choice

Laboratory Glassware Scharlau



High Quality
According to ISO Standards
Made in European Union



**Volumetric flasks, class A, PP stopper, serial number and conformity certified
BRAND**

Capacity (ml)	Socket	Pack (u.)	Art. No.
5	10/19	2	022-037238
10	10/19	2	022-037243
20	10/19	2	022-037246
25	10/19	2	022-037247
25	12/21	2	022-037293
50	12/21	2	022-037248
50	14/23	2	022-037290
100	12/21	2	022-037249
100	14/23	2	022-037291
200	14/23	2	022-037250
250	14/23	2	022-037251
500	19/26	2	022-037252
1000	24/29	2	022-037253
1000	29/32	2	022-037234
2000	29/32	2	022-037254
5000	34/35	2	022-037255
10000	45/40	2	022-037236



**Volumetric flasks, class A, glass stopper, serial number and conformity certified
BRAND**

Capacity (ml)	Socket	Pack (u.)	Art. No.
5	10/19	2	022-037256
10	10/19	2	022-037267
20	10/19	2	022-037257
25	10/19	2	022-037258
25	12/21	2	022-037294
50	12/21	2	022-037259
50	14/23	2	022-037288
100	12/21	2	022-037260
100	14/23	2	022-037289
200	14/23	2	022-037261
250	14/23	2	022-037262
1000	24/29	2	022-037264
5000	34/35	2	022-037266

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Volumetric flasks of polypropylene with cap KARTELL

Material: polypropylene / polyethylene. Autoclavable. Food quality. These flasks create no meniscus so final readings are easy. Calibrated gravimetrically at 20°C. Translucency of polypropylene enhanced when in contact with liquid. Thick walls eliminate distortion. Thin neck make final reading precise. Chemically non-absorbant. No wetting. Stoppers included. Suitable for foodstuff.

Description	Capacity (ml)	Height (mm)	O.D. Ø (mm)	NS/DIN	Pack (u.)	Art. No.
PP, with conical stopper	25	121	36	12/21	1	425-001484
PP, with conical stopper	50	143	46	14/23	1	425-001485
PP, with conical stopper	100	174	58	14/23	1	425-001486
PP, with conical stopper	250	225	82	19/26	1	425-001487
PP, with conical stopper	500	265	100	19/26	1	425-001488
PP, with conical stopper	1000	325	120	19/26	1	425-001489



Volumetric flasks of PMP with cap KARTELL

Material: PMP (TPX®) / polyethylene. Autoclavable. Food quality. These crystal clear volumetric flasks create no meniscus so final readings are easy. They are individually calibrated at 20°C. Thick walls eliminate distortion. Thin neck make final measurement precise. Autoclavable to 170°C. Chemically cleaner than glass and chemically non-absorbant. No wetting. Stoppers included. Suitable for foodstuff.

Description	Capacity (ml)	Height (mm)	O.D. Ø (mm)	NS/DIN	Pack (u.)	Art. No.
PMP, with conical stopper	50	143	46	14/23	1	425-002485
PMP, with conical stopper	100	174	58	14/23	1	425-002486
PMP, with conical stopper	250	225	82	19/26	1	425-002487
PMP, with conical stopper	500	265	100	19/26	1	425-002488
PMP, with conical stopper	1000	325	120	19/26	1	425-002489

For further information, please contact scharlab@scharlab.com

Volumetric flasks with screw cap
KARTELL

Material: polypropylene. Autoclavable. Food quality. These flasks create no meniscus so final readings are easy. Calibrated gravimetrically at 20°C. Translucency of polypropylene enhanced when in contact with liquid. Thick walls eliminate distortion. Thin neck make final reading precise. Chemically non-absorbant. No wetting. Stoppers included. Suitable for foodstuff.

Description	Capacity (ml)	Height (mm)	E.D. Ø (mm)	NS/DIN	Pack (u.)	Art. No.
PP, with screw cap	25	121	36	GL18	1	425-001430
PP, with screw cap	50	143	46	GL18	1	425-001431
PP, with screw cap	100	174	58	GL18	1	425-001432
PP, with screw cap	250	225	82	GL25	1	425-001433
PP, with screw cap	500	265	100	GL25	1	425-001434
PP, with screw cap	1000	325	120	GL25	1	425-001435
PMP, with screw cap	50	143	46	GL18	1	425-002490
PMP, with screw cap	100	174	58	GL18	1	425-002491
PMP, with screw cap	250	225	82	GL25	1	425-002492
PMP, with screw cap	500	265	100	GL25	1	425-002493
PMP, with screw cap	1000	325	120	GL25	1	425-002494


Volumetric flasks, polypropylene, NS stopper
VITLAB

Polypropylene. With NS stopper. Tolerances class B according to DIN EN ISO 1042. High transparency, individually adjusted ring-mark. Cleaning above 60°C can damage marks and inscriptions.

Description	Capacity (ml)	Height (mm)	Neck (NS)/Thread (GL)	Pack (u.)	Art. No.
With NS stopper	10	90	NS 10/19	1	309-677941
With NS stopper	25	115	NS 10/19	1	309-671941
With NS stopper	50	150	NS 12/21	1	309-672941
With NS stopper	100	180	NS 14/23	1	309-673941
With NS stopper	250	235	NS 19/26	1	309-674941
With NS stopper	500	270	NS 19/26	1	309-675941
With NS stopper	1000	310	NS 24/29	1	309-676941
With screw cap GL	10	90	GL18	6	309-677891
With screw cap GL	25	115	GL18	1	309-671891
With screw cap GL	50	150	GL18	6	309-672891
With screw cap GL	100	180	GL18	1	309-673891
With screw cap GL	250	235	GL25	1	309-674891
With screw cap GL	500	270	GL25	1	309-675891
With screw cap GL	1000	310	GL32	1	309-676891


Volumetric flasks, PMP, screw cap
VITLAB

PMP. With screw cap made of PP. Tolerances class B according to DIN EN ISO 1042. Exposure to temperatures up to 121°C (autoclaving) will not cause permanent exceeding of tolerance limits. Cleaning up to max. 60°C is recommended to preserve marks and inscriptions.

Description	Capacity (ml)	Height (mm)	Thread (GL)	Pack (u.)	Art. No.
With screw cap GL	10	90	GL18	6	309-677895
With screw cap GL	25	115	GL18	1	309-671895
With screw cap GL	50	150	GL18	1	309-672895
With screw cap GL	100	180	GL18	1	309-673895
With screw cap GL	250	235	GL25	1	309-674895
With screw cap GL	500	270	GL25	1	309-675895
With screw cap GL	1000	310	GL32	1	309-676895

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Volumetric flasks, PMP, NS stopper VITLAB

PMP. Tolerances class A according to DIN EN ISO 1042, glass clear, individually adjusted ring-mark, with standard NS stopper made of PP. With imprinted lot number and certificate. Exposure to temperatures up to 121°C (autoclaving) will not cause permanent exceeding of tolerance limits. Cleaning up to max. 60°C is recommended to preserve marks and inscriptions.

Description	Capacity (ml)	Height (mm)	Neck (NS)	Pack (u.)	Art. No.
With NS stopper	10	90	10/19	1	309-67704A
With NS stopper	25	115	10/19	1	309-67104A
With NS stopper	50	150	12/21	1	309-67204A
With NS stopper	100	180	14/23	1	309-67304A
With NS stopper	250	235	19/26	1	309-67404A
With NS stopper	500	270	19/26	1	309-67504A
With NS stopper	1000	310	24/29	1	309-67604A



Opaque volumetric flasks VITLAB

VITLAB volumetric flasks made of a pigmented PMP special plastic. With screw cap made of polypropylene. Tolerances class A according to DIN EN ISO 1042. Samples stay protected from UV light. Flasks are very resistant to breaking and are made of light materials.

Special features: transparent, extreme duration, autoclavable, sterilizable with β rays (25kGy), suitable for microwave. Chemical resistance: at room temperature (+20°C) is resistant to mineral acids and alcohols. Cleaning up to max. 60°C is recommended to preserve marks and inscriptions.

Description	Capacity (ml)	Height (mm)	Thread (GL)	Pack (u.)	Art. No.
With screw cap GL	10	90	GL18	2	309-670040
With screw cap GL	25	115	GL18	2	309-671040
With screw cap GL	50	150	GL18	2	309-672040
With screw cap GL	100	180	GL18	2	309-673040
With screw cap GL	250	235	GL25	2	309-674040
With screw cap GL	500	270	GL25	2	309-675040
With screw cap GL	1000	310	GL32	1	309-676040



Volumetric flasks, PFA VITLAB

PFA. Tolerances class A according to DIN EN ISO 1042. High transparency, individually calibrated ring-mark. Supplied with PFA screw cap. Screw caps provide hermetic seals and high safety from outside contamination. Withstand high temperatures and chemical attack. Exposure to temperatures up to 121°C (autoclaving) will not cause permanent exceeding of tolerance limits. Cleaning up to max. 60°C is recommended to preserve marks and inscriptions.

Description	Capacity (ml)	Height (mm)	Thread (GL)	Pack (u.)	Art. No.
With screw cap GL	10	90	GL18	1	309-107097
With screw cap GL	25	115	GL18	1	309-107197
With screw cap GL	50	150	GL18	1	309-107297
With screw cap GL	100	180	GL18	1	309-107397
With screw cap GL	250	235	GL25	1	309-107497
With screw cap GL	500	270	GL25	1	309-107597

For further information, please contact scharlab@scharlab.com

FLASKS: Other flasks



Pear shaped flasks, single neck
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
5	14/23	1	073-125005
10	14/23	1	073-125010
25	14/23	1	073-000125
50	14/23	1	073-000126
100	14/23	1	073-000127
250	14/23	1	073-000128
250	29/32	1	073-000129



Pear shaped flasks with two necks
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
50	2x14/23	1	073-000130
100	2x14/23	1	073-000131



Pear shaped flasks with three necks
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
50	3x14/23	1	073-000132
100	3x14/23	1	073-000133

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Kjeldahl flasks, long neck
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
100	29/32	1	073-000058
250	29/32	1	073-250059
300	29/32	1	073-000060
500	29/32	1	073-000061
800	29/32	1	073-000062
1000	29/32	1	073-000063


Schlenck nitrogen flasks
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
25	14/23	1	073-360122
50	14/23	1	073-360128
100	14/23	1	073-360137
250	14/23	1	073-360149
50	29/32	1	073-360428
100	29/32	1	073-360437
250	29/32	1	073-360449
500	29/32	1	073-360458
1000	29/32	1	073-360470


Schlenck tubes, ground socket and glass stopcock
SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
10	14/23	1	073-370113
25	14/23	1	073-370122
50	14/23	1	073-370128
100	14/23	1	073-370137
250	14/23	1	073-370149


Schlenck tubes, ground cone and glass stopcock
SCHARLAU

Capacity (ml)	Cone	Pack (u.)	Art. No.
10	14/23	1	073-370213
25	14/23	1	073-370222
50	14/23	1	073-370228
100	14/23	1	073-370237
250	14/23	1	073-370249

For further information, please contact scharlab@scharlab.com


Iodine flask
SCHARLAU

Description	Pack (u.)	Art. No.
Complete	1	073-000964
Erlenmeyer flask 250ml	1	073-000965
Stopper	1	073-000966


Stabilization rings

Rings for stabilize erlenmeyers flasks in double boiler.

Flask cap. (ml)	I.D. (mm)	Ring weight (g)	Pack (u.)	Art. No.
50-250	50	650	1	00LD5-C000
125-500	43	227	1	004-0CY811
200-500	70	900	1	00LD7-C000
250-1000	51	450	1	004-0CY821
500-2000	56	680	1	027-192472
750-1000	100	1.200	1	0LD10-C000
1000-4000	71	900	1	F183084000

FUNNELS

Funnels with equalising arm, PTFE needle stopcock
SCHARLAU

Cap. (ml)	Cone	Socket	Pack (u.)	Art. No.
50	14/23	14/23	1	073-000373
100	29/32	29/32	1	073-000374
250	29/32	29/32	1	073-000375
500	29/32	29/32	1	073-000376

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Funnels with equalising arm, glass stopcock
SCHARLAU

Cap. (ml)	Cone	Socket	Pack (u.)	Art. No.
50	14/23	14/23	1	073-000368
100	29/32	29/32	1	073-000369
250	29/32	29/32	1	073-000370
500	29/32	29/32	1	073-000371


Funnels with equalising arm, PTFE needle stopcock
SCHARLAU

Cap. (ml)	Division	Cone	Socket	Pack (u.)	Art. No.
50	1/2	14/23	14/23	1	073-00364G
100	1/1	29/32	29/32	1	073-00365G
250	5/1	29/32	29/32	1	073-00366G
500	5/1	29/32	29/32	1	073-00367G


Dropping funnels, glass stopcock
SCHARLAU

Capacity (ml)	Graduation	Division	Cone	Socket	Pack (u.)	Art. No.
20	Yes	1/2	14/23	14/23	1	073-000344
50	Yes	1/1	19/26	19/26	1	073-000345
50	No	-	14/23	14/23	1	073-000337
100	Yes	1/1	29/32	29/32	1	073-000346
250	Yes	5/1	29/32	29/32	1	073-000347
500	No	-	29/32	29/32	1	073-000341


Dropping funnels, conical PTFE stopcock
SCHARLAU

Cap. (ml)	Graduation	Division	Cone	Socket	Pack (u.)	Art. No.
20	Yes	1/2	14/23	14/23	1	073-344PTF
50	Yes	1/1	19/26	19/26	1	073-345PTF
50	No	-	14/23	14/23	1	073-337PTF
100	Yes	1/1	29/32	29/32	1	073-346PTF
250	Yes	5/1	29/32	29/32	1	073-347PTF
500	No	-	29/32	29/32	1	073-341PTF

For further information, please contact scharlab@scharlab.com



Separating funnel, ground joint and PTFE needle stopcock
SCHARLAU

Cap. (ml)	Cone	Socket	Pack (u.)	Art. No.
50	14/23	14/23	1	073-000318
100	14/23	14/23	1	073-000319
250	29/32	29/32	1	073-000320
500	29/32	29/32	1	073-000321
1000	29/32	29/32	1	073-000322



Separating funnel, ground joints and conical PTFE stopcock
SCHARLAU

Cap. (ml)	Cone	Socket	Pack (u.)	Art. No.
50	14/23	14/23	1	073-000323
100	14/23	14/23	1	073-000324
250	29/32	29/32	1	073-000325
500	29/32	29/32	1	073-000326
1000	29/32	29/32	1	073-000327



Separating funnel, ground joints and glass stopcock
SCHARLAU

Cap. (ml)	Cone	Socket	Pack (u.)	Art. No.
50	14/23	14/23	1	073-000301
100	14/23	14/23	1	073-000302
250	29/32	29/32	1	073-000303
500	29/32	29/32	1	073-000304
1000	29/32	29/32	1	073-000305



Separating funnel, conical PTFE stopcock, with stopper
SCHARLAU

Cap. (ml)	Socket	Pack (u.)	Art. No.
50	19/26	1	073-000313
100	19/26	1	073-000314
250	29/32	1	073-000315
500	29/32	1	073-000316
1000	29/32	1	073-000317

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Separating funnel, glass stopcock, with stopper
SCHARLAU

Cap. (ml)	Socket	Pack (u.)	Art. No.
50	19/26	1	073-000294
100	19/26	1	073-000295
125	14/23	1	073-000296
250	29/32	1	073-000297
500	29/32	1	073-000298
1000	29/32	1	073-000299


Separating funnel, PTFE needle stopcock with stopper
SCHARLAU

Cap. (ml)	Socket	Pack (u.)	Art. No.
50	14/23	1	073-000307
100	19/26	1	073-000308
250	29/32	1	073-000309
500	29/32	1	073-000310
1000	29/32	1	073-000311


Funnels for powdered products
SCHARLAU

Ø Outer (mm)	Ø Stem (mm)	Stem length (mm)	Pack (u.)	Art. No.
60	14	25	1	0033793307
70	16	30	1	0033793308
80	17	30	1	0033793309
100	22	35	1	0033793310
60	14	25	10	1033793307
70	16	30	10	1033793308
80	17	30	10	1033793309
100	22	35	10	1033793310


Funnels short stem, borosilicate glass
SCHARLAU

Borosilicate 3.3 glass. Opening angle 60°, fused edge. Flat inner surface.

Ø Outer (mm)	Ø Stem (mm)	Stem length (mm)	Pack (u.)	Art. No.
45	6	45	1	0033793104
50	8	50	1	0033793105
55	8	55	1	0033793106
60	8	60	1	0033793107
75	8	70	1	0033793108
80	8	80	1	0033793109
45	6	45	10	1033793104
50	8	50	10	1033793105
55	8	55	10	1033793106
60	8	60	10	1033793107
75	8	70	10	1033793108
80	8	80	10	1033793109



Funnels long stem, borosilicate glass

SCHARLAU

Borosilicate 3.3 glass. Opening angle 60°, fused edge. Flat inner surface.

Ø Outer (mm)	Ø Stem (mm)	Stem length (mm)	Pack (u.)	Art. No.
40	6	150	1	0033793203
45	6	150	1	0033793204
55	8	150	1	0033793206
60	8	150	1	0033793207
75	8	150	1	0033793208
80	8	150	1	0033793209
40	6	150	10	1033793203
45	6	150	10	1033793204
55	8	150	10	1033793206
60	8	150	10	1033793207
75	8	150	10	1033793208
80	8	150	10	1033793209



Funnels with ground joint

SCHARLAU

Borosilicate 3.3 glass.

Ø Outer (mm)	Cone	Pack (u.)	Art. No.
50	14/23	1	073-000282
80	29/32	1	073-000283
100	29/32	1	073-000284
120	29/32	1	073-000285



Cylindrical funnels with porous plate and ground joint

SCHARLAU

Cylindrical funnels with porous plates (n° 0, 1, 2, 3 and 4) and ground joint.

IMPORTANT: Enter the number corresponding to the porous plate at the end of the reference, replacing "X".

Cap. (ml)	Ø Plate (mm)	Cone	Pack (u.)	Art. No.
30	30	29/32	1	073-1126-X
60	40	29/32	1	073-1128-X
140	65	29/32	1	073-1130-X
450	90	29/32	1	073-1132-X

Safety funnels with ball valve

SCAT

Made of aggressive chemical products resistant PEHD.



Description	Ø Outer (mm)	Pack (u.)	Art. No.
Black funnel, plastic sieve, with soil	S50	1	0323117629
White funnel, plastic sieve	S50	1	0323117649
Red funnel, steel sieve, with lid	S60/S61	1	0323107670
Red funnel, steel sieve, with lid	2"	1	0323108670



Glass filter funnels DURAN

IMPORTANT: Enter the number corresponding to the porous plate at the end of the reference, replacing "X".

Cap. (ml)	Porosity	Ø (mm)	Pack (u.)	Art. No.
50	1 to 3	35	1	022258520X
50	4	35	1	0222585204
50	5	35	1	0222585205
75	1 to 3	45	1	022258521X
75	4	45	1	0222585214
75	5	45	1	0222585215
125	1 to 3	60	1	022258522X
125	4	60	1	0222585224
125	5	60	1	0222585225
500	1 to 3	95	1	022258523X
500	4	95	1	0222585234
500	5	95	1	0222585235
1000	1 to 3	120	1	022258524X
1000	4	120	1	0222585244
1000	5	120	1	0222585245
4000	1 to 3	175	1	022258526X
4000	4	175	1	0222585264

Plastic funnels KARTELL

Polypropylene with ribs, each size takes a standard filter size. Autoclavable. Suitable for food-staff. With grommet for hanging.

Analytical funnels



Description	Ø Outer (mm)	Ø Stem (mm)	Stem length (mm)	Cap. (ml)	Pack (u.)	Art. No.
Analytical funnel	27	4	37	3,5	1	425-000145
Analytical funnel	37	5	37	10	1	425-000146
Analytical funnel	46	5	43	20	1	425-000147
Analytical funnel	66	10	62	50	1	425-000148
Analytical funnel	81	11	70	100	1	425-000150
Analytical funnel	100	11	82	200	1	425-000152
Analytical funnel	120	11	86	350	1	425-000153
Funnel short steam	150	14	115	700	1	425-000155
Funnel short steam	183	14	140	1250	1	425-000156

Long-stem funnels



Description	Ø Outer (mm)	Ø Stem (mm)	Stem length (mm)	Cap. (ml)	Pack (u.)	Art. No.
Funnel long steam	65	8	150	50	1	425-000162
Funnel long steam	78,5	8	143	100	1	425-000164
Funnel long steam	103,5	8	145	225	1	425-000165

→ Continued on the next page

Powder funnels (polypropylene) and industrial funnels (HDPE)



Description	Ø Outer (mm)	Ø Stem (mm)	Stem length (mm)	Cap. (ml)	Pack (u.)	Art. No.
Powder funnel 60mm Ø	60	15	18	45	1	425-000171
Powder funnel 80mm Ø	80	15	22,2	94	1	425-000167
Powder funnel 100mm Ø	100	25	24,8	200	1	425-000168
Powder funnel 120mm Ø	120	30	27,1	360	1	425-000169
Powder funnel 150mm Ø	150	36	39,9	730	1	425-000170
Powder funnel 180mm Ø	180	43	48,8	1290	1	425-000166
High speed industrial funnel, 100mm Ø	100	40	38	300	1	425-000172
High speed industrial funnel, 120mm Ø	120	50	43	450	1	425-000173
High speed industrial funnel, 140mm Ø	140	55	52	750	1	425-000174
High speed industrial funnel, 180mm Ø	180	67	68	1500	1	425-000175
Industrial funnel, 250mm Ø	260	85	75	4000	1	425-000177

Graduated separating funnel

Description	Pack (u.)	Art. No.
Separating funnel 500ml. Graduated. Top unscrews and valve can be detached for thorough cleaning. Autoclavable. Needle control	1	425-000978

Accessories



Closed supports

Description	Pack (u.)	Art. No.
Support for 25 to 170mm funnel, with screw clamps for 8 to 14mm rods	1	425-000268
Support for two funnels of 25 to 170mm, with screw clamps for 8 to 14mm rods	1	425-000269
Horseshoe support for a funnel greater than 75mm in diameter, with a screw clamp for 8 to 14mm rods	1	425-000970
Manual polypropylene piston pump for viscous liquids, 2" thread and suction tube	1	425-MP2004

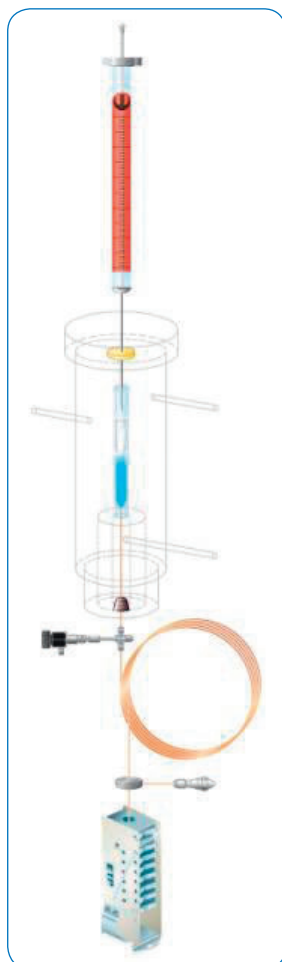
Drums and containers
in **page 420**



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GC: COLUMNS AND ACCESSORIES

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Your chromatography analysis does not end with the selection of the GC column. The combination of components selected for your instrument also make an important contribution to successful separations. SGE brings technology and chromatography expertise to improve your chromatography.

SGE Supplies for Sample Preparation, Sample Introduction and Separation

Syringes

All syringes, both manual and autosampler, incorporate SGE's Diamond Syringe Technology offering significantly improved levels of durability, clarity and accuracy. SGE has a comprehensive range of syringe options including plunger protection, removable or fixed needles, a range of needle gauge and length options as well as needle-tip style alternatives.

Septa

The role of septa for GC analysis is key as many chromatographic problems are caused as a result of inappropriate septa material or inappropriate handling of the septa.

Desired septa attributes:

- Reliably seal against the carrier gas pressure in the inlet.
- Capable of being pierced and resealed time after time.
- Capable of being pierced by the syringe needle without pieces of the septa being deposited in the GC inlet system.
- Must not contaminate or bleed material into the chromatographic system.

GC Inlet Liners

The GC Inlet liner is where the sample is introduced and vaporized into the gaseous phase. The design of the liner is crucial, as is liner deactivation, to ensure reproducible and accurate chromatography.

GC Connections (ferrules and fittings)

SGE manufactures an array of connection types for GC use. Poorly defined or selected connections can lead to an increase in dead volume, leaks from cycled temperatures and mismatched tubing sizes.

For further information, please contact scharlab@scharlab.com

GC: COLUMNS AND ACCESSORIES: GC Columns

SGE offers a wide range of GC capillary columns for almost all chromatographic applications, providing the best combination of performance, robustness, reproducibility, low bleed and inactivity. Advanced technology ensures brilliant results every time. The columns of more general use are detailed. For advice regarding your choice of the column do not hesitate to contact our Consultation Service at scharlab@scharlab.com.

SGE Phase	Description	Alternative to:
BP1	100% Dimethyl polysiloxane	DB-1, DB-Petro, HP-1, Rtx-1, Ultra-1, SPB-1, SPB-1 Sulfur, Petrocol DH, CP-Sil 5CB, VB-1, ZB-1
BP1-PONA	100% Dimethyl polysiloxane	Petrocol DH, DB-Petro, HP-PONA, AT-Petro, Elite-PONA, ZB-1, 007-1-100-0,5F, Rtx-1PONA, CP Sil PONA
BPX1	100% Dimethyl polysiloxane	DB-2887, DB-HT Sim Dis, HP-1, Petrocol 2887, Petrocol EX2887, Rtx-2887
SolGel-1ms™	SolGel + 100% dimethyl polysiloxane	DB-1, DB-Petro, HP-1, HP-1MS, Rtx-1, Ultra-1, SPB-1, SPB-1 Sulfur, Petrocol DH, CP-Sil 5CB, VB-1, ZB-1, VF 1ms
BP5	5% Phenyl Polysiloxane	DB-5, Rtx-5, HP-5, Ultra-2, PTE-5, SPB-5, MDN-5, CP-Sil 8cb, VB-5, ZB-5
BP5MS	5% Phenyl-siloxane Polisisilfenilen optimized MS	DB-5ms, Rtx-5ms, HP-5MS, Rxt-Sil 5MS, AT-5ms, VF-5ms
BPX5	5% Phenyl siloxane Polisisilfenilen	DB-5ms, DB-5625, XT1-5, Rtx-5ms, Ultra-2, HP-5, HP-5MS, HP5-TA, SPB-5, MDN-5S, CP-Sil8CB, Rxt-Sil 5MS, AT -5ms, VB-5, ZB-5 VF-5ms
BPX35	35% Phenyl siloxane Polisisilfenilen	DB-35, DB-35ms, Rtx-35, HP-35, HP-35MS, SPB-35, MDN-35, VB-50, ZB-35
BPX608	35% Phenyl siloxane Polisisilfenilen	DB-608, Rtx-35, SPB-608, HP-35, ZB-35
BPX50	50% Phenyl siloxane Polisisilfenilen	OV-17, SP-2250, DB-17, DB-17ms, DB-17ht, Rtx-50, SPB-50, HP-50 +, HP-17
HT5	5% Phenyl siloxane Policarboran	SIMDIST MXT-1, HT-SIMDIST, DistCB, MXT-500
HT8	8% Phenyl siloxane Policarboran	Single phase, high temperature (PCB)
BP225	50% Polysiloxane CianopropilFenil	HP-225, DB-225, Rtx-225
BP10 (1701)	14% Polysiloxane CianopropilFenil	DB-1701, Rtx-1701, HP-1701, SPB-7, CP-Sil 19CB, VB-1701, ZB-1701
BP624, BPX-Volatile	Polysiloxane CianopropilFenil	DB-624, OV-624, AT-624, HP-VOC, CP-Select624CB, 007-624, Rtx-Volatiles, VOCOL, ZB-624
BPX70	70% cyanopropyl siloxane Polisisilphenilen	DB-23, CP-Sil 88, VF-23ms, SP-2330, SP-2380, Rtx®-2330, 007-23, AT-Silar, PE-23
BPX90	90% siloxane Polisisilphenilen Cynopropyl	Single phase
BP21 (FFAP)	Polyethylene glycol (TPA)	DB-FFAP, HP-FFAP, Stabilwax-DA, CP Wax 58CB, VB-FFAP, ZB-FFAP
BP20 (Wax)	polyethylene glycol	DB-Wax, Rtx-Wax, Stabilwax, HP20M, HP-Wax, HP-INNOWax, Supelcowax-10, AT-Wax, Nukol, CP Wax 52CB, VB-WAX, ZB-WAX.
SolGel-WAX™	SolGel + Polyethylene	Single phase bound, alt. DB-Wax, Rtx-Wax, Stabilwax, HP20M, HP-Wax, HP-INNOWax, Supelcowax-10, AT-Wax, Nukol, CP Wax 52CB, VB-WAX, ZB-WAX
CYDEX-B	Permethyated cyclodextrin Beta	Cyclodex-B, RT-BDEXm

Biodiesel Columns

SGE

SGE has evaluated each ASTM and EN biodiesel method to demonstrate the suitability of BPX-BIOD GC columns to achieve optimal separation. Each BPX-BIOD GC column is tested at the maximum operating temperature for the column, and specific tests are undertaken to ensure the column meets inertness specifications and separation performance. This means you can be confident of a reliable separation, column after column. Please ask for Biodiesel Analysis Toolkit guide.

ASTM D6584 Columns

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX-BIOD6584	0,32	0,1	10	-40 a 360/370	1	541180SG53
BPX-BIOD6584	0,32	0,1	15	-40 a 360/370	1	541181SG53
HT5 Biodiesel	0,32	0,1	12	10 a 380/400	1	032-054640

EN14110 Columns

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX-BIOD1	0,32	3	30	-60 a 300/320	1	0320540731
BPX-BIOD WAX	0,32	0,25	30	-	1	0320544332
BPX-BIOD WAX	0,32	1	30	-	1	0320544441

EN14105 Columns

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX BIOD5	0,32	0,1	10	-40 a 360/370	1	5411801X53

EN14103 Columns

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX-BIOD20	0,32	0,25	30	-	1	0320544331

Providing Confidence in Your Analysis

SGE Analytical Science for your instrument and laboratory since 1960.

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BP1 Columns
SGE

Phase: 100% Dimethyl Polysiloxane

- Classic dimethyl polysiloxane technology with high temperature cross-linking
- Excellent general purpose GC column
- Low Bleed
- Non-polar
- Suitable for all routine analyses

Application areas: suitable for analysis of hydrocarbons, aromatics, pesticides, phenol, herbicides, amines.

Suitable replacement for: DB-1, DB-Petro, HP-1, HP-1MS, Rtx-1, Ultra-1, SPB-1, SPB-1 Sulfur, Petrocol DH, CP-Sil 5CB, VB-1, ZB-1, VF-1ms.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP1	0,15	0,25	10	-60 a 340/360	1	032-054022
BP1	0,15	0,25	12	-60 a 340/360	1	032-054028
BP1	0,15	0,25	25	-60 a 340/360	1	032-054029
BP1	0,25	0,1	15	-60 a 340/360	1	032-054039
BP1	0,22	0,1	12	-60 a 340/360	1	032-054040
BP1	0,22	0,1	25	-60 a 340/360	1	032-054041
BP1	0,22	0,1	50	-60 a 340/360	1	032-054042
BP1	0,25	0,25	15	-60 a 340/360	1	032-054043
BP1	0,25	0,25	30	-60 a 340/360	1	032-054044
BP1	0,25	0,25	60	-60 a 340/360	1	032-054045
BP1	0,22	0,25	12	-60 a 340/360	1	032-054046
BP1	0,22	0,25	25	-60 a 340/360	1	032-054047
BP1	0,22	0,25	50	-60 a 340/360	1	032-054048
BP1	0,22	0,25	15	-60 a 340/360	1	032-054049
BP1	0,22	0,25	30	-60 a 340/360	1	032-054050
BP1	0,22	0,25	60	-60 a 340/360	1	032-054051
BP1	0,22	1	12	-60 a 340/360	1	032-054052
BP1	0,22	1	25	-60 a 340/360	1	032-054053
BP1	0,22	1	50	-60 a 340/360	1	032-054054
BP1	0,25	1	30	-60 a 340/360	1	032-054056
BP1	0,32	0,25	12	-60 a 340/360	1	032-054058
BP1	0,32	0,25	25	-60 a 340/360	1	032-054059
BP1	0,32	0,25	50	-60 a 340/360	1	032-054060
BP1	0,32	0,25	15	-60 a 340/360	1	032-054061
BP1	0,32	0,25	30	-60 a 340/360	1	032-054062
BP1	0,32	0,5	12	-60 a 340/360	1	032-054064
BP1	0,32	0,5	25	-60 a 340/360	1	032-054065
BP1	0,32	0,5	50	-60 a 340/360	1	032-054066
BP1	0,32	0,25	60	-60 a 340/360	1	032-054067
BP1	0,32	0,5	30	-60 a 340/360	1	032-054068
BP1	0,32	0,5	60	-60 a 340/360	1	032-054069

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Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP1	0,32	1	12	-60 a 340/360	1	032-054070
BP1	0,32	1	25	-60 a 340/360	1	032-054071
BP1	0,32	1	50	-60 a 340/360	1	032-054072
BP1	0,32	3	30	-60 a 300/320	1	032-054073
BP1	0,32	4	25	-60 a 280/300	1	032-054076
BP1	0,32	4	30	-60 a 280/300	1	032-054077
BP1	0,32	5	25	-60 a 280/300	1	032-054081
BP1	0,32	5	50	-60 a 280/300	1	032-054082
BP1	0,32	5	60	-60 a 280/300	1	032-054085
BP1	0,53	1	12	-60 a 340/360	1	032-054086
BP1	0,53	1	25	-60 a 340/360	1	032-054087
BP1	0,53	1	50	-60 a 340/360	1	032-054088
BP1	0,53	1	15	-60 a 340/360	1	032-054089
BP1	0,53	1	30	-60 a 340/360	1	032-054090
BP1	0,53	0,5	30	-60 a 340/360	1	032-054092
BP1	0,53	5	25	-60 a 280/300	1	032-054095
BP1	0,53	5	50	-60 a 280/300	1	032-054096
BP1	0,53	3	12	-60 a 300/320	1	032-054097
BP1	0,53	3	25	-60 a 300/320	1	032-054098
BP1	0,53	2,6	30	-60 a 300/320	1	032-054819
BP1	0,25	0,5	30	-60 a 340/360	1	032-054820
BP1	0,53	0,5	15	-60 a 340/360	1	032-054870
BP1	0,53	0,5	60	-60 a 280/300	1	032-054871

BP1-PONA Columns

SGE

Phase: 100% Dimethyl Polysiloxane

- Designed for the analysis of petroleum products

- Non-polar phase for PONA analysis

- Specifically designed for PONA analysis

Application areas: petroleum hydrocarbons, gasoline range hydrocarbons, MTBE.

Suitable replacement for: petrocol DH, DB-Petro, HP-PONA, AT-Petro, Elite-PONA, ZB-1, 007-1-100-0.5F, Rtx-1PONA, CP Sil PONA.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP1-PONA	0,25	0,5	100	-60 a 340/360	1	032-054818
BP1-PONA	0,15	0,5	50	-60 a 340/360	1	032-054950

For further information, please contact scharlab@scharlab.com

Vials for GC-headspace



Scharlau

The wise choice




BP10 (1701) Columns
SGE

Phase: 14% Cyanopropylphenyl Polysiloxane
 - Ideal for organochlorine pesticides analysis
 - Highly Inert
 - Low bleed

Application areas: environmental analyses (EPA methods 608 and 8081), pesticides/herbicides, drugs of abuse, pharmaceuticals.

Suitable replacement for: DB-1701, Rtx-1701, SPB-7, HP-1701, CP-Sil 19CB, 007-1701, PE-1701, SP-1701.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP10	0,22	0,25	12	-20 a 280/300	1	032-054252
BP10	0,22	0,25	25	-20 a 280/300	1	032-054253
BP10	0,22	0,25	50	-20 a 280/300	1	032-054254
BP10	0,25	0,25	15	-20 a 280/300	1	032-054255
BP10	0,25	0,25	30	-20 a 280/300	1	032-054256
BP10	0,32	0,25	60	-20 a 280/300	1	032-054257
BP10	0,32	0,25	15	-20 a 280/300	1	032-054258
BP10	0,32	0,25	30	-20 a 280/300	1	032-054259
BP10	0,32	0,25	60	-20 a 280/300	1	032-054260
BP10	0,32	0,25	25	-20 a 280/300	1	032-054262
BP10	0,32	0,5	15	-20 a 280/300	1	032-054264
BP10	0,32	0,5	30	-20 a 280/300	1	032-054265
BP10	0,32	0,5	60	-20 a 280/300	1	032-054266
BP10	0,32	0,5	25	-20 a 280/300	1	032-054268
BP10	0,32	0,5	50	-20 a 280/300	1	032-054269
BP10	0,32	1	30	-20 a 280/300	1	032-054270
BP10	0,25	1	30	-20 a 280/300	1	032-054271
BP10	0,53	1	25	-20 a 280/300	1	032-054280
BP10	0,53	1	15	-20 a 280/300	1	032-054282
BP10	0,53	1	30	-20 a 280/300	1	032-054283



Problems with your chromatography column?

Contact Scharlab's Chromatography Helpdesk:
scharlab@scharlab.com

- ✓ What sample is being tested?
- ✓ What type of analysis is being carried out?
- ✓ What detectors/equipment is being used?
- ✓ Has there been a previous test with a column that did not work?

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BP20 (WAX) Columns

SGE

Phase: Polyethylene Glycol (PEG)

- Industry standard wax column
- Polar phase
- Cross-linked for stability and washing

Application areas: alcohol, free acids, fatty acid methyl esters, aromatics, solvents, essential oils.

Suitable replacement for: DB-Wax, HP-20M, Supelcowax 10, CB-Wax, Stabilwax, Carbowax, HP-Innowax, Rtx-WAX, PE-WAX, RH-WAX, ZB-WAX, TRWAX.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP20	0,1	0,1	10	20 a 260/280	1	032-054405
BP20	0,25	0,5	30	20 a 260/280	1	032-054415
BP20	0,22	0,25	12	20 a 260/280	1	032-054420
BP20	0,22	0,25	25	20 a 260/280	1	032-054421
BP20	0,22	0,25	50	20 a 260/280	1	032-054422
BP20	0,22	0,25	30	20 a 260/280	1	032-054424
BP20	0,25	0,25	60	20 a 260/280	1	032-054425
BP20	0,25	0,25	15	20 a 260/280	1	032-054426
BP20	0,25	0,25	30	20 a 260/280	1	032-054427
BP20	0,25	0,25	60	20 a 260/280	1	032-054428
BP20	0,32	0,25	25	20 a 260/280	1	032-054430
BP20	0,32	0,25	50	20 a 260/280	1	032-054431
BP20	0,32	0,25	15	20 a 260/280	1	032-054432
BP20	0,32	0,25	30	20 a 260/280	1	032-054433
BP20	0,32	0,25	60	20 a 260/280	1	032-054434
BP20	0,32	0,5	25	20 a 260/280	1	032-054436
BP20	0,32	0,5	50	20 a 260/280	1	032-054437
BP20	0,32	0,5	30	20 a 260/280	1	032-054438
BP20	0,25	1	30	20 a 260/280	1	032-054439
BP20	0,53	0,5	30	20 a 260/280	1	032-054440
BP20	0,32	1	25	20 a 260/280	1	032-054442
BP20	0,32	1	50	20 a 260/280	1	032-054443
BP20	0,32	1	30	20 a 260/280	1	032-054444
BP20	0,32	1	60	20 a 260/280	1	032-054445
BP20	0,53	1	12	20 a 260/280	1	032-054447
BP20	0,53	1	25	20 a 260/280	1	032-054448
BP20	0,53	1	15	20 a 260/280	1	032-054450
BP20	0,53	1	30	20 a 260/280	1	032-054451
BP20	0,53	1	60	20 a 260/280	1	0320544515
BP20	0,53	2	12	20 a 240/260	1	032-054455
BP20	0,53	2	25	20 a 240/260	1	032-054456
BP20	0,32	0,5	60	20 a 260/280	1	032-054457
BP20	0,25	0,5	60	20 a 260/280	1	032-054458
BP20	0,53	0,5	15	20 a 260/280	1	032-054961
BP20	0,53	0,5	60	20 a 260/280	1	032-054963

For further information, please contact scharlab@scharlab.com

Scharlau syringe filters




Scharlau
The wise choice



BP21 (FFAP) Columns

SGE

Phase: Polyethylene Glycol (PEG) - TPA Treated
 - Nitroterephthalic acid modified PEG
 - Polar Phase

- Ideal for low molecular weight acids

Application areas: Volatile free acids, fatty acid methyl esters, alcohols, aldehydes, acrylates, ketones.

Suitable replacement for: DB-FFAP, HP-FFAP, Stabilwax-DA, CPWax-58CB.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP21	0,22	0,25	25	35 a 240/250	1	032-054462
BP21	0,22	0,25	50	35 a 240/250	1	032-054463
BP21	0,25	0,25	15	35 a 240/250	1	032-054464
BP21	0,25	0,25	30	35 a 240/250	1	032-054465
BP21	0,25	0,25	60	35 a 240/250	1	032-054466
BP21	0,32	0,25	12	35 a 240/250	1	032-054467
BP21	0,32	0,25	25	35 a 240/250	1	032-054468
BP21	0,32	0,25	50	35 a 240/250	1	032-054469
BP21	0,32	0,25	15	35 a 240/250	1	032-054470
BP21	0,32	0,25	30	35 a 240/250	1	032-054471
BP21	0,32	0,25	60	35 a 240/250	1	032-054472
BP21	0,53	0,5	12	35 a 240/250	1	032-054473
BP21	0,53	0,5	25	35 a 240/250	1	032-054474
BP21	0,53	0,5	15	35 a 240/250	1	032-054476
BP21	0,53	0,5	30	35 a 240/250	1	032-054477
BP21	0,53	1	30	35 a 240/250	1	032-054478
BP21	0,32	0,5	50	35 a 240/250	1	032-054480



BP225 Columns

SGE

Phase: 50% Cyanopropylphenyl Polysiloxane

- Mid to high polarity
 - Bonded and cross-linked phase
 - Low bleed

Application areas: Fatty Acid Methyl Esters (FAMES), carbohydrates, neutral sterols.

Suitable replacement for: DB-225, HP-225 and RTX-225.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP225	0,22	0,25	25	40 a 230/250	1	032-054352
BP225	0,22	0,25	50	40 a 230/250	1	032-054353
BP225	0,32	0,25	25	40 a 230/250	1	032-054358
BP225	0,53	0,5	25	40 a 230/250	1	032-054364

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BP5 Columns

SGE

Phase: 5% Phenyl / 95% Dimethyl Polysiloxane

- Excellent general purpose GC column
- High temperature
- Low bleed
- Non-polar

Application areas: aromatics, pesticides, herbicides, drugs of abuse, hydrocarbons, GC/MS applications.

Suitable replacement for: DB-5, Rtx-5, HP-5, Ultra-2, PTE-5, SPB-5, MDN-5, CP-Sil 8CB, VB-5, ZB-5, VF-5ms.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP5	0,22	0,25	12	-60 a 320/340	1	032-054167
BP5	0,22	0,25	25	-60 a 320/340	1	032-054168
BP5	0,22	0,25	50	-60 a 320/340	1	032-054169
BP5	0,22	0,25	30	-60 a 320/340	1	032-054171
BP5	0,22	1	50	-60 a 320/340	1	032-054175
BP5	0,32	0,25	15	-60 a 320/340	1	032-054176
BP5	0,32	0,25	30	-60 a 320/340	1	032-054177
BP5	0,32	0,25	60	-60 a 320/340	1	032-054178
BP5	0,32	0,25	12	-60 a 320/340	1	032-054179
BP5	0,32	0,25	25	-60 a 320/340	1	032-054180
BP5	0,25	0,25	15	-60 a 320/340	1	032-054182
BP5	0,25	0,25	30	-60 a 320/340	1	032-054183
BP5	0,25	0,25	60	-60 a 320/340	1	032-054184
BP5	0,32	0,5	25	-60 a 320/340	1	032-054186
BP5	0,32	0,5	50	-60 a 320/340	1	032-054187
BP5	0,32	1	60	-60 a 320/340	1	032-054188
BP5	0,32	1	30	-60 a 320/340	1	032-054189
BP5	0,32	1	25	-60 a 320/340	1	032-054192
BP5	0,32	1	50	-60 a 320/340	1	032-054193
BP5	0,53	0,5	30	-60 a 320/340	1	0320541935
BP5	0,53	1	15	-60 a 320/340	1	032-054194
BP5	0,53	1	30	-60 a 320/340	1	032-054195
BP5	0,53	5	30	-60 a 280/300	1	032-054196
BP5	0,53	1	12	-60 a 320/340	1	032-054197
BP5	0,53	1	25	-60 a 320/340	1	032-054198
BP5	0,53	1,5	15	-60 a 320/340	1	032-054199
BP5	0,25	0,5	30	-60 a 320/340	1	032-054202
BP5	0,25	1	30	-60 a 320/340	1	032-054203
BP5	0,53	1,5	60	-60 a 320/340	1	032-054204
BP5	0,25	1	60	-60 a 320/340	1	032-054215
BP5	0,32	0,5	30	-60 a 320/340	1	032-054216

BP5MS Columns

SGE

Phase: 5% Phenyl Polysilphenylene-siloxane

- New optimized phase! Optimized Silphenylene content for general purpose MS analyses
- Perfect for your 5% MS analysis
- Low bleed
- Non-Polar
- Ideal for GC-MS
- Extremely inert

Application areas: ultra trace analyses, pesticides/herbicides, hydrocarbons, solvents, phenols, amines, GC/MS and other specific detector applications.

Suitable replacement for: DB-5ms, Rtx-5ms, HP-5MS, Rxt-Sil 5MS, AT-5ms, VF-5ms.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP5MS	0,25	0,25	30	-40 a 330/350	1	032-054310
BP5MS	0,18	0,18	20	-40 a 330/350	1	032-054301
BP5MS	0,25	0,25	15	-40 a 330/350	1	032-054308
BP5MS	0,32	0,25	30	-40 a 330/350	1	032-054320
BP5MS	0,32	0,25	60	-40 a 330/350	1	032-054321



BP624 Columns

SGE

Phase: Cyanopropylphenyl Polysiloxane
 - US EPA 624 optimized column
 - Designed for volatiles analysis
 - Ideal for EPA624, SW-846 and 8240/8260 methods
 - Ideal for USP G43 method

Application areas: EPA method 624, drinking water volatiles, chlorinated hydrocarbons, solvents.
 Suitable replacement for: DB-624, OV-624, AT-624, HP-VOC, CP-Select624CB, 007-624, Rtx-Volatiles, VOCOL, ZB-624.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BP624	0,22	1,2	30	0 a 230/240	1	032-054827
BP624	0,32	1,8	25	0 a 230/240	1	032-054830
BP624	0,32	1,8	50	0 a 230/240	1	032-054831
BP624	0,32	1,8	30	0 a 230/240	1	032-054832
BP624	0,53	3	25	0 a 230/240	1	032-054834
BP624	0,53	3	50	0 a 230/240	1	032-054835
BP624	0,53	3	30	0 a 230/240	1	032-054836
BP624	0,53	3	60	0 a 230/240	1	032-054838
BP624	0,25	1,4	15	0 a 230/240	1	032-054839
BP624	0,25	1,4	30	0 a 230/240	1	032-054840
BP624	0,32	1,8	60	0 a 230/240	1	032-054841
BP624	0,25	1,4	60	0 a 230/240	1	032-054842



BPX-Volatiles Columns

SGE

Phase: Cyanopropylphenyl Polysiloxane
 - Polar phase
 - EPA volatile organics analysis (EPA 624, 502.2, SW-846 8240/8260)

Application areas: environmental analyses, volatile organics, alcohol analysis, USP G43.
 Suitable replacement for: DB-VRX, HP-624, OPTIMA 624, ELITE-624, 007-624, RTX-VOLATILES, SPB-624, TRV1, CPSIL 13 CB, VOCOL, VB-624, CP-624.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX-Volatiles	0,18	1	20	0 a 290/300	1	032-054978
BPX-Volatiles	0,18	1	40	0 a 290/300	1	032-054979
BPX-Volatiles	0,25	1,4	30	0 a 290/300	1	032-054980
BPX-Volatiles	0,25	1,4	60	0 a 290/300	1	032-054981
BPX-Volatiles	0,32	1,8	30	0 a 290/300	1	032-054982
BPX-Volatiles	0,32	1,8	60	0 a 290/300	1	032-054983
BPX-Volatiles	0,53	3	30	0 a 290/300	1	032-054984
BPX-Volatiles	0,53	3	60	0 a 290/300	1	032-054985

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BPX1 Columns

SGE

Phase: 100% Dimethyl Polysiloxane

- Non-polar column
- Dimensionally stabilized phase
- Low bleed
- Specifically designed for high temperature hydrocarbon analysis
- Ideal for simulated distillation

Application areas: ASTM methods D2887 and D6532.

Suitable replacement for: DB-2887, DB-HT Sim Dis, HP-1, Petrocol 2887, Petrocol EX2887, Rtx-2887.

Polyimide Coating

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX1	0,1	0,1	10	-30 a 400/400	1	032-054777
BPX1	0,53	2,65	6	-30 a 370/370	1	0320548025
BPX1	0,53	0,1	10	-30 a 400/400	1	032-054803
BPX1	0,53	0,9	10	-30 a 400/400	1	032-054801
BPX1	0,53	2,65	10	-30 a 370/370	1	032-054802

Aluminium Coating

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX1	0,53	0,1	5	-30 a 430/430	1	032-054800
BPX1	0,53	0,17	5	-30 a 430/430	1	032-054782
BPX1	0,53	0,1	10	-30 a 430/430	1	032-054779

BPX35 Columns

SGE

Phase: 35% Phenyl Polysilphenylene-siloxane

- Mid polarity column
- Inert
- Ideal for confirmational analysis
- Equivalent to USP phase G42
- High temperature
- Low bleed
- Pharmaceutical specialist

Application areas: environmental analyses, pesticides/herbicides, drugs of abuse, pharmaceuticals, polynuclear aromatic hydrocarbons, GC/MS applications.
Suitable replacement for: DB-35, DB-35ms, Rtx-35, HP-35, HP-35MS, SPB-35, MDN-35.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX35	0,1	0,1	10	10 a 330/360	1	032-054699
BPX35	0,25	0,25	15	10 a 330/360	1	032-054700
BPX35	0,25	0,25	30	10 a 330/360	1	032-054701
BPX35	0,25	0,25	60	10 a 330/360	1	032-054702
BPX35	0,25	0,5	30	10 a 330/360	1	0320547025
BPX35	0,25	1	15	10 a 330/360	1	032-054703
BPX35	0,25	1	30	10 a 330/360	1	032-054704
BPX35	0,25	1	60	10 a 330/360	1	032-054705
BPX35	0,22	0,25	25	10 a 330/360	1	032-054711
BPX35	0,22	0,25	50	10 a 330/360	1	032-054712
BPX35	0,22	0,25	15	10 a 330/360	1	032-054713
BPX35	0,22	0,25	30	10 a 330/360	1	032-054714
BPX35	0,32	0,5	30	10 a 330/360	1	0320547158
BPX35	0,32	1	15	10 a 330/360	1	032-054716
BPX35	0,32	1	30	10 a 330/360	1	032-054717
BPX35	0,32	0,5	15	10 a 330/360	1	032-054718
BPX35	0,32	0,25	25	10 a 330/360	1	032-054721
BPX35	0,32	0,25	50	10 a 330/360	1	032-054722
BPX35	0,32	0,25	15	10 a 330/360	1	032-054723
BPX35	0,32	0,25	30	10 a 330/360	1	032-054724
BPX35	0,32	0,25	60	10 a 330/360	1	032-054725
BPX35	0,53	0,5	15	10 a 330/360	1	032-054734
BPX35	0,53	0,5	30	10 a 330/360	1	032-054735
BPX35	0,53	1	15	10 a 330/360	1	032-054736
BPX35	0,53	1	30	10 a 330/360	1	032-054737

BPX5 Columns
SGE

Phase: 5% Phenyl Polysilphenylene-siloxane

- General Purpose GC column - suitable for over 80% of all routine analyses performed by gas chromatography

- High temperature

- Low Bleed

- Non-Polar

- Ideal for GC-MS

- Extremely inert

Application areas: ultra trace analyses, pesticides/herbicides, hydrocarbons, solvents, phenols, amines, GC/MS and other specific detector applications.

Suitable replacement for: DB-5, DB-5ms, DB-5.625, XT1-5, Rtx-5ms, Ultra-2, HP-5, HP-5MS, HP5-TA, SPB-5, MDN-5S, CP-Sil8CB, Rxt-Sil 5MS, AT-5ms, VB-5, ZB-5, VF-5ms.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX5	0,1	0,1	10	-40 a 360/370	1	032-054099
BPX5	0,25	0,25	15	-40 a 360/370	1	032-054100
BPX5	0,25	0,25	30	-40 a 360/370	1	032-054101
BPX5	0,25	0,1	30	-40 a 360/370	1	0320541011
BPX5	0,25	0,25	60	-40 a 360/370	1	032-054102
BPX5	0,25	0,5	30	-40 a 360/370	1	0320541025
BPX5	0,15	0,25	12	-40 a 360/370	1	032-054103
BPX5	0,15	0,25	25	-40 a 360/370	1	032-054104
BPX5	0,15	1,2	10	-40 a 360/370	1	032-054106
BPX5	0,15	0,4	12	-40 a 360/370	1	032-054107
BPX5	0,15	0,4	25	-40 a 360/370	1	032-054108
BPX5	0,15	0,15	30	-40 a 360/370	1	032-054110
BPX5	0,22	0,25	12	-40 a 360/370	1	032-054112
BPX5	0,22	0,25	25	-40 a 360/370	1	032-054113
BPX5	0,22	0,25	50	-40 a 360/370	1	032-054114
BPX5	0,22	1	25	-40 a 360/370	1	032-054116
BPX5	0,22	1	50	-40 a 360/370	1	032-054117
BPX5	0,32	0,25	12	-40 a 360/370	1	032-054118
BPX5	0,32	0,25	25	-40 a 360/370	1	032-054119
BPX5	0,32	0,25	50	-40 a 360/370	1	032-054120
BPX5	0,32	0,5	30	-40 a 360/370	1	0320541205
BPX5	0,25	1	15	-40 a 360/370	1	032-054121
BPX5	0,25	1	30	-40 a 360/370	1	032-054122
BPX5	0,25	1	60	-40 a 360/370	1	032-054123
BPX5	0,32	0,5	12	-40 a 360/370	1	032-054124
BPX5	0,32	0,5	25	-40 a 360/370	1	032-054125
BPX5	0,32	0,5	50	-40 a 360/370	1	032-054126
BPX5	0,32	1	6	-40 a 360/370	1	0320541261
BPX5	0,32	1	12	-40 a 360/370	1	032-054127
BPX5	0,32	1	25	-40 a 360/370	1	032-054128
BPX5	0,32	1	50	-40 a 360/370	1	032-054129
BPX5	0,53	1	12	-40 a 360/370	1	032-054130
BPX5	0,53	1	25	-40 a 360/370	1	032-054131
BPX5	0,53	1	50	-40 a 360/370	1	032-054132
BPX5	0,53	0,25	12	-40 a 360/370	1	032-054133
BPX5	0,53	0,25	25	-40 a 360/370	1	032-054134
BPX5	0,53	0,5	15	-40 a 360/370	1	0320541344
BPX5	0,53	0,5	30	-40 a 360/370	1	0320541345
BPX5	0,53	1,5	15	-40 a 360/370	1	0320541347
BPX5	0,53	1,5	30	-40 a 360/370	1	0320541348
BPX5	0,32	3	25	-40 a 360/370	1	032-054136
BPX5	0,53	3	12	-40 a 360/370	1	032-054138
BPX5	0,53	3	25	-40 a 360/370	1	032-054139
BPX5	0,22	0,25	30	-40 a 360/370	1	032-054142
BPX5	0,32	0,25	15	-40 a 360/370	1	032-054144
BPX5	0,32	0,25	30	-40 a 360/370	1	032-054145
BPX5	0,32	0,25	60	-40 a 360/370	1	032-054146

→ Continued on the next page

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Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX5	0,53	1	15	-40 a 360/370	1	032-054147
BPX5	0,53	1	30	-40 a 360/370	1	032-054148
BPX5	0,32	1	15	-40 a 360/370	1	032-054152
BPX5	0,32	1	30	-40 a 360/370	1	032-054153
BPX5	0,32	1	60	-40 a 360/370	1	032-054154
BPX5	0,53	1	60	-40 a 360/370	1	032-054158
BPX5	0,53	3	15	-40 a 360/370	1	032-054159
BPX5	0,53	3	30	-40 a 360/370	1	032-054160
BPX5	0,25	0,1	15	-40 a 360/370	1	0320542170
BPX5DX	0,18	0,18	40	-40 a 360/370	1	032-054229



BPX50 Columns SGE

Phase: 50% Phenyl Polysilphenylene-siloxane

- Mid polarity
- Inert
- Ideal for a range of EPA methods and pharmaceutical applications
- High temperature
- Low bleed

Application areas: EPA methods 604, 608, 8060, 8081, triazines/herbicides, drug screening, steroids and a variety of pharmaceutical applications.

Suitable replacement for: OV-17, SP-2250, DB-17, DB-17ms, DB-17ht, Rtx-50, SPB-50, HP-50+, HP-17.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX50	0,1	0,07	10	80 a 360/370	1	032-054738
BPX50	0,1	0,05	10	80 a 360/370	1	032-054739
BPX50	0,1	0,1	10	80 a 360/370	1	032-054740
BPX50	0,15	0,15	30	80 a 360/370	1	032-054741
BPX50	0,25	0,25	15	80 a 360/370	1	032-054750
BPX50	0,25	0,25	30	80 a 360/370	1	032-054751
BPX50	0,25	0,25	60	80 a 360/370	1	032-054752
BPX50	0,32	0,25	15	80 a 360/370	1	032-054760
BPX50	0,32	0,25	30	80 a 360/370	1	032-054761
BPX50	0,32	0,25	60	80 a 360/370	1	032-054762
BPX50	0,53	0,5	15	80 a 360/370	1	032-054770
BPX50	0,53	0,5	30	80 a 360/370	1	032-054771
BPX50	0,53	1	30	80 a 360/370	1	032-054772

BPX608 Column SGE

Phase: 35% Phenyl Polysilphenylene-siloxane

- Optimized for ECD
- Ideal for organochlorine, pesticides and herbicides analysis
- Maximum temperature 370°C

Application areas: environmental analyses, EPA 608, pesticides/herbicides.

Suitable replacement for: DB-608, Rtx-35, SPB-608, HP-35, ZB-35.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX608	0,32	0,4	25	10 a 360/370	1	032-054823

For further information, please contact scharlab@scharlab.com

BPX70 Columns
SGE

Phase: 70% Cyanopropyl Polysilphenylene-siloxane

- High temperature
- Custom designed for separation of Fatty Acid Methyl Esters (FAMES)
- Ideal for cis/trans isomer separation
- Polar phase
- Long operating life

Application areas: fatty acid methyl esters, carbohydrates, pharmaceuticals, GC/MS applications.

Suitable replacement for: DB-23, Rtx-2330, SP-2330, CP-Sil 88, SP2380, HP-23.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX70	0,1	0,2	10	50 a 250/260	1	032-054600
BPX70	0,22	0,25	12	50 a 250/260	1	032-054601
BPX70	0,22	0,25	25	50 a 250/260	1	032-054602
BPX70	0,22	0,25	50	50 a 250/260	1	032-054603
BPX70	0,32	0,25	12	50 a 250/260	1	032-054605
BPX70	0,32	0,25	25	50 a 250/260	1	032-054606
BPX70	0,32	0,25	50	50 a 250/260	1	032-054607
BPX70	0,53	0,5	25	50 a 250/260	1	032-054610
BPX70	0,22	0,25	30	50 a 250/260	1	032-054612
BPX70	0,22	0,25	60	50 a 250/260	1	032-054613
BPX70	0,32	0,25	30	50 a 250/260	1	032-054616
BPX70	0,32	0,25	60	50 a 250/260	1	032-054617
BPX70	0,53	0,5	15	50 a 250/260	1	032-054619
BPX70	0,53	0,5	30	50 a 250/260	1	032-054620
BPX70	0,25	0,25	15	50 a 250/260	1	032-054621
BPX70	0,25	0,25	30	50 a 250/260	1	032-054622
BPX70	0,25	0,25	60	50 a 250/260	1	032-054623
BPX70	0,25	0,25	120	50 a 250/260	1	032-054624


BPX90 Columns
SGE

Phase: 90% Cyanopropyl Polysilphenylene-siloxane

- Unique bonded phase
- Highly Polar
- Thermally Stable

Application areas: ideal for fast separation of fragrances, aromatics, petrochemical, pesticides, PCBs and isomers of Fatty Acid Methyl Esters (FAMES).

Suitable replacement for: Unique to SGE.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
BPX90	0,25	0,25	15	80 a 280	1	032-054570
BPX90	0,32	0,5	15	80 a 280	1	032-054573
BPX90	0,25	0,25	30	80 a 280	1	032-054580
BPX90	0,32	0,5	30	80 a 280	1	032-054583
BPX90	0,25	0,25	60	80 a 280	1	032-054590
BPX90	0,32	0,5	60	80 a 280	1	032-054593
BPX90	0,25	0,25	100	80 a 280	1	032-054596
BPX90	0,25	0,25	15	80 a 280	1	032-054570
BPX90	0,32	0,5	15	80 a 280	1	032-054573
BPX90	0,25	0,25	30	80 a 280	1	032-054580
BPX90	0,32	0,5	30	80 a 280	1	032-054583
BPX90	0,25	0,25	60	80 a 280	1	032-054590
BPX90	0,32	0,5	60	80 a 280	1	032-054593
BPX90	0,25	0,25	100	80 a 280	1	032-054596

Cydex-B Columns

SGE

Phase: Permethylated Beta Cyclodextrin (Chiral)

- Separation of Chiral Compounds

Application areas: separation of enantiomeric compounds found in natural products.

Suitable replacement for: Cyclodex-B, Rt-BDEXm.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
Cydex-B	0,22	0,25	25	30 a 220/240	1	032-054900
Cydex-B	0,22	0,25	50	30 a 220/240	1	032-054901
Cydex-B	0,32	0,25	25	30 a 220/240	1	032-054902



HT5 Columns

SGE

Unique high temperature phase equivalent to 5% Phenyl Polycarborane-siloxane

- Ultra High temperature column range

- Ideal for simulated distillation applications (petroleum industry)

- Available with aluminium clad (Alum.) and polyimide clad (Pol.)

Application areas: simulated distillation, general hydrocarbon profiles, pesticides/herbicides, GC/MS applications.

Suitable replacement for: MXT-1 Sim Dist, HT-Sim, DistCB, MXT-500.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
HT5, Pol.	0,22	0,1	12	10 a 380/400	1	032-054631
HT5, Pol.	0,22	0,1	25	10 a 380/400	1	032-054632
HT5, Pol.	0,25	0,1	15	10 a 380/400	1	032-054633
HT5, Pol.	0,25	0,1	30	10 a 380/400	1	032-054634
HT5, Alum.	0,22	0,1	12	10 a 460/480	1	032-054635
HT5, Alum.	0,22	0,1	25	10 a 460/480	1	032-054636
HT5, Pol.	0,32	0,1	12	10 a 380/400	1	032-054641
HT5, Pol.	0,32	0,1	25	10 a 380/400	1	032-054642
HT5, Alum.	0,32	0,1	12	10 a 460/480	1	032-054651
HT5, Alum.	0,32	0,1	25	10 a 460/480	1	032-054652
HT5, Alum.	0,32	0,1	50	10 a 460/480	1	032-054653
HT5, Pol.	0,53	0,1	6	10 a 380/400	1	032-054655
HT5, Pol.	0,53	0,15	12	10 a 380/400	1	032-054657
HT5, Pol.	0,53	0,15	25	10 a 380/400	1	032-054658
HT5, Alum.	0,53	0,1	6	10 a 460/480	1	032-054661
HT5, Alum.	0,53	0,15	12	10 a 460/480	1	032-054662
HT5, Alum.	0,53	0,15	25	10 a 460/480	1	032-054665
HT5, Pol.	0,32	0,5	15	10 a 380/400	1	032-054667
HT5, Pol.	0,32	0,5	30	10 a 380/400	1	032-054668
HT5, Pol.	0,53	0,5	10	10 a 380/400	1	032-054670
HT5, Pol.	0,53	0,5	15	10 a 380/400	1	032-054671
HT5, Pol.	0,53	0,5	30	10 a 380/400	1	032-054672
HT5, Alum.	0,53	0,075	5	10 a 460/480	1	032-054673

For further information, please contact scharlab@scharlab.com

HT8 Columns

SGE

Unique high temperature phase equivalent to 8% Phenyl Polycarborane-siloxane

- Ultra High temperature column range
- Low bleed
- Ideal for environmental analysis
- Preferred column for polychlorinated biphenyl (PCB) compounds

Application areas: PCB congener analyses, nitro-substituted aromatics, polynuclear aromatic hydrocarbons, pesticides/herbicides.

Suitable replacement for: no equivalents, unique ultra high temperature column for PCB.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
HT8	0,22	0,25	12	-20 a 360/370	1	032-054674
HT8	0,22	0,25	25	-20 a 360/370	1	032-054675
HT8	0,22	0,25	50	-20 a 360/370	1	032-054676
HT8	0,25	0,25	30	-20 a 360/370	1	032-054677
HT8	0,32	0,25	12	-20 a 360/370	1	032-054679
HT8	0,32	0,25	25	-20 a 360/370	1	032-054680
HT8	0,32	0,25	50	-20 a 360/370	1	032-054681
HT8	0,32	0,25	60	-20 a 360/370	1	032-054682
HT8	0,25	0,25	60	-20 a 360/370	1	032-054683
HT8	0,53	0,5	12	-20 a 360/370	1	032-054684
HT8	0,53	0,5	25	-20 a 360/370	1	032-054685
FAST PCB	0,1	0,1	10	-20 a 360/370	1	032-054690

SolGel-1ms

SGE

Phase: 100% Dimethyl Polysiloxane in a Sol-Gel matrix

A robust, inert, high temperature, non-polar phase for use with mass spectrometers.

- Highly Inert
- Less Bleed - Better MS library identification
- Less bleed - Less ion source maintenance
- Less Bleed - Better sensitivity
- Can also be used for all non-MS detectors

Application areas: recommended for highly active compounds.

Suitable replacement for: DB-1, DB-Petro, HP-1, HP-1MS, Rtx-1, Ultra-1, SPB-1, SPB-1 Sulfur, Petrocol DH, CP-Sil 5CB, VB-1, ZB-1, VF-1ms.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
SolGel-1ms	0,25	0,25	60	0 a 340/360	1	032-054793
SolGel-1ms	0,32	0,25	60	0 a 340/360	1	032-054794
SolGel-1ms	0,25	0,25	30	0 a 340/360	1	032-054795
SolGel-1ms	0,32	0,25	30	0 a 340/360	1	032-054798

SolGel-Wax Columns

SGE

Phase: Polyethylene Glycol (PEG) in a Sol-Gel matrix

- The world's highest temperature wax phase
- Bonded polyethylene glycol
- Very robust high-temperature column
- Less susceptible to damage by oxygen than conventional wax phases
- Polar phase
- Low bleed and inert

Application areas: recommended for highly active compounds.

Suitable replacement for: DB-Wax, Rtx-Wax, Stabilwax, HP20M, HP-Wax, HP-INNOWax, Supelcowax-10, AT-Wax, Nukol, CP Wax 52CB, VB-WAX, ZB-WAX.

Phase	Ø int. (mm)	Thickness film (µm)	Length (m)	Limit T (°C)	Pack (u.)	Art. No.
SolGel-Wax	0,1	0,1	10	30 a 260/280	1	0320547100
SolGel-Wax	0,53	1	30	30 a 260/280	1	032-054785
SolGel-Wax	0,53	0,5	30	30 a 260/280	1	032-054786
SolGel-Wax	0,25	1	30	30 a 260/280	1	032-054787
SolGel-Wax	0,32	0,25	30	30 a 260/280	1	032-054788
SolGel-Wax	0,32	0,25	60	30 a 260/280	1	032-054789
SolGel-Wax	0,25	0,25	60	30 a 260/280	1	032-054791
SolGel-Wax	0,32	0,5	60	30 a 260/280	1	032-054792
SolGel-Wax	0,25	0,25	30	30 a 260/280	1	032-054796
SolGel-Wax	0,32	0,5	30	30 a 260/280	1	032-054797



The wise choice

Consumables and reagents for pesticide residue analysis



QuEChERS kits · GC columns · HPLC columns
Syringes · Standards · Solvents for GC residue analysis

GC: Accessories for Agilent chromatographs

Agilent Technologies chromatography ferrules SGE

- Starter kit A: 10 ferrules, 2 SilTite™ cones
- Starter kit B: 10 ferrules, 2 SilTite™ cones and 2 SilTite™ Inlet Base Seals

15% Graphite ferrules, 85% Vespel®



032-073109

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
Injectors/detectors at atmospheric pressure (FID)	0,1-0,25mm	0,4mm	10	032-073109
Injectors/detectors at atmospheric pressure (FID)	0,32mm	0,5mm	10	032-073111
Injectors/detectors at atmospheric pressure (FID)	0,53mm	0,8mm	10	032-073113
For GC-MS connection	1/8" ED packed	1/8"	10	032-072669
For GC-MS connection	1/4" ED packed	1/4"	10	032-072667
For GC-MS connection	0,1-0,25mm	0,4mm	10	032-072663
For GC-MS connection	0,32mm	0,5mm	10	032-072654
For GC-MS connection	0,53mm	0,8mm	10	032-072655

100% Graphite ferrules

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
Injectors/detectors at atmospheric pressure (FID) (not GC-MS)	0,1-0,32mm	0,5mm	10	032-072635
Injectors/detectors at atmospheric pressure (FID) (not GC-MS)	0,45-0,53mm	0,8mm	10	032-072636
Injectors/detectors at atmospheric pressure (FID) (not GC-MS)	1/4" ED packed	1/8"	10	032-072602
Injectors/detectors at atmospheric pressure (FID) (not GC-MS)	1/4" ED packed	1/4"	10	032-072601

SilTite™ Metal Ferrulas



SilTite and column



032-073270

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS connection (Starter Kit A)	0,1-0,25mm	0,4mm	10	032-073200
For GC-MS connection (Starter Kit A)	0,32mm	0,5mm	10	032-073201
For GC-MS connection (Starter Kit A)	0,53mm	0,8mm	10	032-073202
For Split/Splitless Injectors (Starter Kit B)	0,1-0,25mm	0,4mm	10	032-073270
For Split/Splitless Injectors (Starter Kit B)	0,32mm	0,5mm	10	032-073271
For Split/Splitless Injectors (Starter Kit B)	0,45-0,53mm	0,8mm	10	032-073272
For Split/Splitless Injectors (Starter Kit B)	1/32"	0,81mm	10	032-073273

SilTite™ Metal Replacement Ferrules

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For all connections	0,1-0,25mm	0,4mm	10	032-073220
For all connections	0,32mm	0,5mm	10	032-073221
For all connections	0,53mm	0,8mm	10	032-073222
For all connections	1/32"	0,81mm	10	032-073219

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SilTite™ Replacement Cones



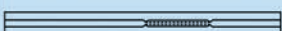







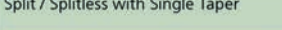
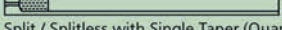

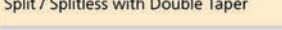
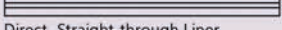

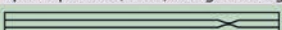


032-073224

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS connection	-	-	5	032-073224
For Split/Splitless Injectors	-	-	5	032-073226

SilTite™ Base Replacement Seals

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For Split/Splitless Injectors	-	-	2	032-073400
For Split/Splitless Injectors	-	-	10	032-073401

Description and Geometry Sketch	
For Agilent 5890, 6850, 6890, 7890 and HP4890	
 1	Split / Splitless FocusLiner™
 2	Split / Splitless Tapered FocusLiner™
 3	Split / Splitless FAST FocusLiner™
 4	Split / Splitless Tapered FAST FocusLiner™
 5	ConnectTite Liner Standard
 6	ConnectTite Liner Top Hole
 7	ConnectTite Liner Bottom Hole
 8	Split, Straight-through Liner
 9	Split, with Quartz Wool
 10	Split / Splitless with Single Taper
 11	Split / Splitless with Single Taper (Quartz Wool)
 12	Split / Splitless with Double Taper
 13	Direct, Straight-through Liner
 14	Split / Splitless Quartz, Straight-through Liner
 15	Splitless with Recessed Gooseneck
 16	Split / Splitless Recessed Gooseneck (Quartz Wool)
 17	1.8 mm ID Packed Column Liner

Liners Agilent

Agilent Technologies chromatography inlet liners SGE

Only packs of 5 liners are detailed below. Packs of 1 and 25 liners are also available. See each liner geometry on Agilent Liners figure.

Liners

Description	On fig.	Instrument	Ø ext (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
Split/Splitless FocusLiner™	1	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092002
Split/Splitless Tapered FocusLiner™	2	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092003
Split/Splitless FAST FocusLiner™	3	5890, 6850, 6890, 7890 and HP4890	6,3	2,3	78,5	5	032-092005
Split/Splitless Tapered FAST FocusLiner™	4	5890, 6850, 6890, 7890 and HP4890	6,3	2,3	78,5	5	032-092111
ConnectTite Liner Standard	5	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092324
ConnectTite Liner Top Hole	6	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092325
ConnectTite Liner Bottom Hole	7	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092326
Split, Straight-through Liner	8	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092007
Split, with Quartz Wool	9	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092001
Split/Splitless with Single Taper	10	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092017
Split/Splitless with Single Taper (Quartz Wool)	11	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092019
Split/Splitless with Double Taper	12	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092018
Direct, Straight-through Liner	13	5890, 6850, 6890, 7890 and HP4890	6,3	1,2	78,5	5	032-092016
Split/Splitless Quartz, Straight-through Liner	14	5890, 6850, 6890, 7890 and HP4890	6,1	2	78,5	5	032-092004
Splitless with Recessed Gooseneck	15	5890, 6850, 6890, 7890 and HP4890	6,3	2	78,5	5	032-092013
Split/Splitless Recessed Gooseneck (Quartz Wool)	16	5890, 6850, 6890, 7890 and HP4890	6,3	4	78,5	5	032-092010
1.8mm ID Packed Column Liner	17	5880, 5890, 6890 (Packed col.)	3	1,8	92	5	032-092234
Sim Dist Liner for Programmed Injector	-	AC Control Injector	3	1,6	73	5	032-092210
Sintered Glass. Large Volume Injection (LVI)	-	Injector Gerstel CIS 4	3	1,8	71	5	032-092243
Single Baffle	-	Injector Gerstel CIS 4	3	1,8	71	5	032-092246

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

O-Rings

Description	Use	Pack (u.)	Art. No.
Viton O-Ring	Temperature up to 300°C, for liners with Ext Ø 6,3mm	10	0320726532
Graphite ring	Temperature up to 450°C. Suitable for detailed liners except 032-092004 and 0009200401	10	0320726005
Graphite ring	Temperature up to 450°C. Suitable for liners 032-092004 and 0009200401	10	0320726006

Agilent Technologies chromatography septa SGE

- CS: PTFE/silicone, septa max. T 200°C. Excellent solvent resistance. Low temperature applications.
- TCS: PTFE/triple layer silicone, septa max. T 280°C. Excellent solvent resistance. Mid/high temperature applications.
- Auto-Sep™: silicone, septa max. T 320°C. Excellent solvent resistance, durability and resealing. Great volume or manual injection applications.
- Auto-SepT™: PTFE/silicone, septa max. T 350°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or programmable temperature septa applications.
- HT: BTO silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. High temperature and low bleed applications.
- EC: silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or low temperature applications.

Instrument	Ø (mm)	Type	Pack (u.)	Art. No.
7890, 6890, 5890, 5880, 4890, 6850	11	CS	50	032-041826
7890, 6890, 5890, 5880, 4890, 6850	11	TCS	50	032-041846
7890, 6890, 5890, 5880, 4890, 6850	11	TCS Pre-drilled	50	032-041856
7890, 6890, 5890, 5880, 4890, 6850	11	Auto-Sep™	25	032-041872
7890, 6890, 5890, 5880, 4890, 6850	11	Auto-Sep T™	25	032-041882
7890, 6890, 5890, 5880, 4890, 6850	11	Auto-Sep T™	100	032-041883
7890, 6890, 5890, 5880, 4890, 6850	11	HT	25	032-041898
7890, 6890, 5890, 5880, 4890, 6850	11	EC	25	032-041902
7620, 5790, 5880, 5890	5	CS	50	032-041820
7620, 5790, 5880, 5890	5	TCS Pre-drilled	50	032-041850
7620, 5790, 5880, 5890	5	HT Pre-drilled	25	0320418991
5750, 710, 720, 810, 7610	12,5	CS	50	032-041828
5750, 710, 720, 810, 7610	12,5	TCS	50	032-041848
5750, 710, 720, 810, 7610	12,5	Auto-Sep T™	25	032-041884
5750, 710, 720, 810, 7610	12,5	HT Pre-drilled	25	0320418992
5750, 710, 720, 810, 7610	12,5	EC	25	032-041906
5700, 5800, 5900	9,5	CS	50	0320418240
5700, 5800, 5900	9,5	TCS	50	0320418440
5700, 5800, 5900	9,5	TCS Pre-drilled	50	0320418540
5700, 5800, 5900	9,5	Auto-Sep™	25	032-041871
5700, 5800, 5900	9,5	Auto-Sep T™	25	032-041880
5700, 5800, 5900	9,5	HT	25	032-041897
5700, 5800, 5900	9,5	EC	25	032-041901

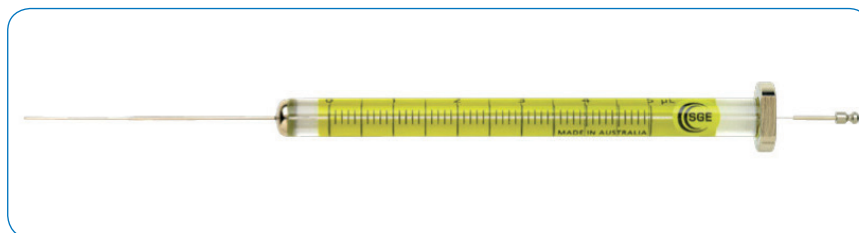
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ExtraBond® QuEChERS

Extraction and dispersive kits according to the European (EN 15662) and American (AOAC 2007.01) methods, as well as Scharlau's variant of the European method, EN-A



Scharlau
The wise choice



Agilent Technologies chromatography syringes SGE

Syringes for Agilent autosamplers models 7673, 7683 & 6850 ALS. All needles are 42mm long with cone tip.
(M) For Merlin Microseal™ septa
(AE) Needle and plunger kit

Enlarge fixed needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
5	23-26s (0,63/0,47)	5F-AG-0,63/0,47C	–	–	1	032-001821
10	23-26s (0,63/0,47)	10F-AG-0,63/0,47C	–	–	1	032-002821
10 Gas Tight	23-26s (0,63/0,47)	10F-AG-GT-0,63/0,47C	–	032-031808 (2u.)	1	032-002826

Straight fixed needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
5	26 (0,47)	5F-AG-0,47C	–	–	1	032-001800
5 (M)	23 (0,63)	5F-AG-0,63C	–	–	1	032-001810
10	26 (0,47)	10F-AG-0,47C	–	–	1	032-002800
10 (M)	23 (0,63)	10F-AG-0,63C	–	–	1	032-002810
10 (M) Gas Tight	23 (0,63)	10F-AG-GT-0,63C	–	032-031808 (2u.)	1	032-002812

Enlarge replacement needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
0,5	23-26s (0,63/0,47)	0,5BR-AG-0,63/0,47C	032-033730 (u. AE)	–	1	032-000415
10 Gas Tight	23-26s (0,63/0,47)	10R-AG-GT-0,63/0,47C	032-037730 (2u.)	032-031809 (2u.)	1	032-002829

Straight replacement needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
0,5	26 (0,47)	0,5BR-AG-0,47C	032-033708 (u. AE)	–	1	032-000400
0,5 (M)	23 (0,63)	0,5BR-AG-0,63C	032-033715 (u. AE)	–	1	032-000410
1	23 (0,63)	1BR-AG-0,63C	032-034715 (u. AE)	–	1	032-000610
5	26 (0,47)	5R-AG-0,47C	032-036710 (2u.)	–	1	032-001805
5 (M)	23 (0,63)	5R-AG-0,63C	032-036720 (2u.)	–	1	032-001815
10	26 (0,47)	10R-AG-0,47C	032-037715 (2u.)	–	1	032-002805
10 (M)	23 (0,63)	10R-AG-0,63C	032-037717 (2u.)	–	1	032-002815
10 Gas Tight	26 (0,47)	10R-AG-GT-0,47C	032-037715 (2u.)	032-031809 (2u.)	1	032-002817
10 (M) Gas Tight	23 (0,63)	10R-AG-GT-0,63C	032-037717 (2u.)	032-031809 (2u.)	1	032-002818

For further information, please contact scharlab@scharlab.com

GC: Accessories for Thermo Scientific/CE Instruments/Fisons chromatographs
Thermo Scientific/CE Instruments/Fisons chromatography ferrules
SGE

(A): For being used with brass cone (Art. No. 0321034085)

(B): Includes 10 ferrules, 2 SilTite™ cones

15% Graphite ferrules, 85% Vespel®


032-072696

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For all but 8000 Series, Focus, Trace/ Ultra GC	0,1-0,25mm	0,4mm	10	0320726549
For all but 8000 Series, Focus, Trace / Ultra GC	0,32mm	0,5mm	10	0320726557
For all but 8000 Series, Focus, Trace / Ultra GC	0,53mm	0,8mm	10	0320726548
For all but 8000 Series, Focus, Trace / Ultra GC	1/8" ED packed	1/8"	10	032-072669
For all but 8000 Series, Focus, Trace / Ultra GC	1/4" ED packed	1/4"	10	032-072667
For Focus, Trace/Ultra at atmospheric pressure e.g. FID (not GC-MS)	0,1-0,25mm	0,4mm	10 (A)	032-072696
For Focus, Trace/Ultra at atmospheric pressure e.g. FID (not GC-MS)	0,32mm	0,5mm	11 (A)	032-072697
For Focus, Trace/Ultra at atmospheric pressure e.g. FID (not GC-MS)	0,53mm	0,8mm	12 (A)	032-072698
Brass Cone for Focus, Trace/Ultra GC Injectors & Detectors not MS	-	-	2	0321034085

100% Graphite ferrules


032-072619

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For detectors and injectors at atmospheric pressure e.g. FID (not GC-MS)	0,1-0,32mm	0,5mm	10	032-072619
For detectors and injectors at atmospheric pressure e.g. FID (not GC-MS)	0,45-0,53mm	0,8mm	10	032-072614
For detectors and injectors at atmospheric pressure e.g. FID (not GC-MS)	1/8" ED packed	1/8"	10	032-072622
For detectors and injectors at atmospheric pressure e.g. FID (not GC-MS)	1/4" ED packed	1/4"	10	032-072621

SilTite™ Metal Ferrules.

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS connection (Starter Kit)	0,1-0,25mm	0,4mm	10 (B)	032-073450
For GC-MS connection (Starter Kit)	0,32mm	0,5mm	10 (B)	032-073451
For GC-MS connection (Starter Kit)	0,53mm	0,8mm	10 (B)	032-073452
For GC-MS connection (Starter Kit)	1/32"	0,81mm	10 (B)	032-073453

SilTite™ Metal Replacement Ferrules

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS connection	0,1-0,25mm	0,4mm	10	032-073330
For GC-MS connection	0,32mm	0,5mm	10	032-073331
For GC-MS connection	0,53mm	0,8mm	10	032-073332
For GC-MS connection	1/32"	0,81mm	10	032-073333

SilTite™ Replacement Cones

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
SilTite™ replacement cones	-	-	5	032-073230

Thermo Scientific/CE Instruments/Fisons chromatography inlet liners

SGE

Only packs of 5 liners are detailed below. Packs of 1 and 25 liners are also available. Liners for Finnigan 9001 and GCQ GCs, see Agilent liners described previously. See each liner geometry on Thermo Scientific Liners A and Thermo Scientific Liners B figures. Véase geometría de cada uno de los liners en las figuras 1 and 2.

Inlet liners

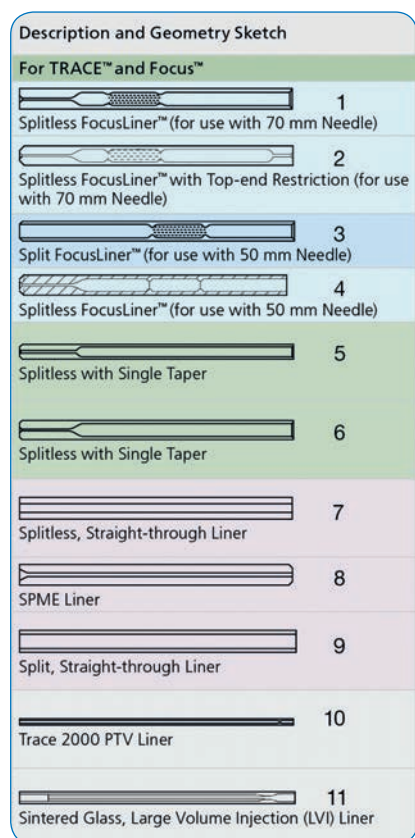


Figure 1

Inlet liners

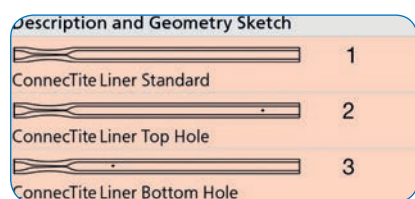


Figure 2

Description	Photo nr. (Fig.1)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
Splitless FocusLiner™ (for 70mm needle)	1	TRACE and Focus	8	5	105	5	032-092045
Splitless FocusLiner™ with Top-end Restriction (for 70mm needle)	2	TRACE and Focus	8	5	105	5	032-092046
Split FocusLiner™ (for 50mm needle)	3	TRACE and Focus	8	5	105	5	032-092048
Splitless FocusLiner™ (for 70mm needle)	4	TRACE and Focus	8	5	105	5	032-092049
Splitless with Single Taper	5	TRACE and Focus	8	3	105	5	032-092141
Splitless with Single Taper	6	TRACE and Focus	8	5	105	5	032-092144
Splitless, Straight-through Liner	7	TRACE and Focus	8	3	105	5	032-092147
SPME Liner	8	TRACE and Focus	8	0,8	105	5	032-092148
Split, Straight-through Liner	9	TRACE and Focus	8	5	105	5	032-092150
Trace 2000 PTV Liner	10	TRACE and Focus	2,75	1,75	120	5	032-092142
Sintered Glass, Large Volume Injection (LVI) Liner	11	TRACE and Focus	2,75	0,78 /1,8	120	5	032-092155

Description	Photo nr. (Fig.2)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
ConnectTite Liner Standard	1	TRACE and Focus	8	5	105	5	032-092334
ConnectTite Liner Top Hole	2	TRACE and Focus	8	5	105	5	032-092335
ConnectTite Liner Bottom Hole	3	TRACE and Focus	8	5	105	5	032-092336

Thermo Scientific/CE Instruments/Fisons chromatography septa

SGE

- TCS: PTFE/triple layer silicone, septa max. T 280°C. Excellent solvent resistance. Mid/high temperature applications.
- Auto-SepT™: PTFE/silicone, septa max. T 350°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or programmable temperature septa applications.
- HT: BTO silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. High temperature and low bleed applications.
- EC: silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or low temperature applications.

Instrument	Ø (mm)	Type	Pack (u.)	Art. No.
8000 Series, FOCUS, Trace/ULTRA GC™	17	TCS	50	0320418491
8000 Series, FOCUS, Trace/ULTRA GC™	17	Auto-Sep T™	25	032-041886
8000 Series, FOCUS, Trace/ULTRA GC™	17	HT	25	0320418990
8000 Series, FOCUS, Trace/ULTRA GC™	17	EC	25	032-041903

Thermo Scientific/CE Instruments/Fisons chromatography syringes
SGE

All needles have conical tip.

Fixe needle

Volume (µl)	Gauge (E.D.mm)	Model	For	Replacement needle	Pack (u.)	Art. No.
5	26 (0,47)	5FX-5C	TriPlus	-	1	032-001105
10	23 (0,63)	10F-C/T-GT-5/0,63C	TriPlus, AS2000	-	1	032-002987
10	23 (0,63)	10F-C/T-8/0,63C	TriPlus, AS2000	-	1	032-002989
10	26 (0,47)	10F-C/T-8/0,47C	TriPlus, AS2000	-	1	032-002992
10	25 (0,50)	10F-C/T-5/0,50C	TriPlus, AS2000, AS3000, AS200/800	-	1	032-002967
10	23 (0,63)	10F-C/T-5/0,63C	TriPlus, AS2000, AS3000, AS200/800	-	1	032-002981
10	26 (0,47)	10F-C/T-5/0,47C	TriPlus, AS2000, AS3000, AS200/800	-	1	032-002980

Replacement needle

Volume (µl)	Gauge (E.D.mm)	Model	For	Replacement needle	Pack (u.)	Art. No.
10	26 (0,47)	10R-C/T-5/0,47C	TriPlus, AS2000, AS3000	032-037785 (2u.)	1	032-002982
10	23 (0,63)	10R-C/T-5/0,63C	TriPlus, AS2000, AS3000, AS200/800	032-037787 (2u.)	1	032-002984
10	26 (0,47)	10R-C/T-8/0,47C	TriPlus, AS2000, AS200/800	032-031535 (3u.)	1	032-002993
0,5	26 (0,47)	0,5BNR-C/T-5/0,47C	TriPlus, AS3000	032-033770	1	032-000490
0,5	23 (0,63)	0,5BNR-C/T-5/0,63C	TriPlus, AS3000	032-033772	1	032-000492

GC: Accessories for Perkin Elmer chromatographs
Perkin Elmer chromatography ferrules
SGE
15% Graphite ferrules, 85% Vespel®

Instrument	Ø int. column	Ø int. ferrule	Cone	Pack (u.)	Art. No.
Injectors/detectors at atmospheric pressure (FID)	0,1-0,25mm	0,4mm	1/16"	10	032-072663
Injectors/detectors at atmospheric pressure (FID)	0,1-0,25mm	0,4mm	1/8"	10	0320726703
Injectors/detectors at atmospheric pressure (FID)	0,32mm	0,5mm	1/16"	10	032-072654
Injectors/detectors at atmospheric pressure (FID)	0,32mm	0,5mm	1/8"	10	0320726702
Injectors/detectors at atmospheric pressure (FID)	0,45-0,53mm	0,8mm	1/16"	10	032-072655
Injectors/detectors at atmospheric pressure (FID)	0,45-0,53mm	0,8mm	1/8"	10	032-072671
Injectors/detectors at atmospheric pressure (FID)	1/8" ED packed	1/8"	1/8"	10	032-072669
Injectors/detectors at atmospheric pressure (FID)	1/4" ED packed	1/4"	1/4"	10	032-072667

100% Graphite ferrules

Instrument	Ø int. column	Ø int. ferrule	Cone	Pack (u.)	Art. No.
Injectors/detectors at atmospheric pressure (FID) (not for GC-MS)	0,1-0,32mm	0,5mm	1/16"	10	032-072627
Injectors/detectors at atmospheric pressure (FID) (not for GC-MS)	0,1-0,32mm	0,5mm	1/8"	10	032-072624
Injectors/detectors at atmospheric pressure (FID) (not for GC-MS)	0,45-0,53mm	0,8mm	1/16"	10	032-072626
Injectors/detectors at atmospheric pressure (FID) (not for GC-MS)	0,45-0,53mm	0,8mm	1/8"	10	0320726280
Injectors/detectors at atmospheric pressure (FID) (not for GC-MS)	1/8" ED packed	1/8"	1/8"	10	032-072622
Injectors/detectors at atmospheric pressure (FID) (not for GC-MS)	1/4" ED packed	1/4"	1/4"	10	032-072621

SilTite™ Metal Ferrules. Starter Kit contains 10 ferrules and 2 cones SilTite™

Instrument	Ø int. column	Ø int. ferrule	Cone	Pack (u.)	Art. No.
For GC-MS connection (Starter Kit)	0,1-0,25mm	0,4mm	-	10	032-073200
For GC-MS connection (Starter Kit)	0,32mm	0,5mm	-	10	032-073201
For GC-MS connection (Starter Kit)	0,53mm	0,8mm	-	10	032-073202

→ Continued on the next page

SilTite™ Replacement Ferrules

Instrument	Ø int. column	Ø int. ferrule	Cone	Pack (u.)	Art. No.
For GC-MS connection	0,1-0,25mm	0,4mm	–	10	032-073220
For GC-MS connection	0,32mm	0,5mm	–	10	032-073221
For GC-MS connection	0,53mm	0,8mm	–	10	032-073222
For GC-MS connection	1/32"	0,81mm	–	10	032-073219

SilTite™ Replacement Cones

Instrument	Ø int. column	Ø int. ferrule	Cone	Pack (u.)	Art. No.
For GC-MS connection	–	-	–	5	032-073224

Perkin Elmer chromatography inlet liners

SGE

Only packs of 5 liners are detailed below. Packs of 1 and 25 liners are also available. See each liner geometry on Perkin Elmer Liners and Perkin Elmer AutoSystem Liners figures.

Inlet liners


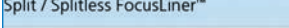

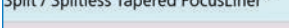


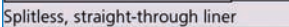
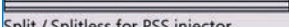

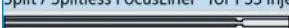
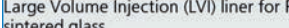

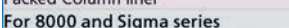
Description and Geometry Sketch	
For AutoSystem™ & Clarus 500, 600	
 1	Split / Splitless Single Taper liner
 2	Split / Splitless FocusLiner™
 3	Split / Splitless Tapered FocusLiner™
 4	Split, straight-through liner
 5	Splitless, straight-through liner
 6	Split / Splitless for PSS injector
 7	Split / Splitless FocusLiner™ for PSS injector
 8	Large Volume Injection (LVI) liner for PSS injector, sintered glass
 9	Packed Column liner
For 8000 and Sigma series	
 10	Split / Splitless
 11	Splitless with single taper
 12	PTV Liner
 12	PTV liner with 0.25 mm ID restriction (recessed gooseneck)

Figure 1

Inlet liners


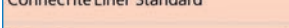
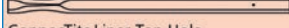
Description and Geometry Sketch	
For AutoSystem Injectors	
 1	ConnectTite Liner Standard
 2	ConnectTite Liner Top Hole
 3	ConnectTite Liner Bottom Hole

Figure 2

Description	Photo nr. (Fig.1)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
Split/Splitless Single Taper liner	1	AutoSystem™ & Clarus 500, 600	6,2	4	92	5	0320920990
Split/Splitless FocusLiner™	2	AutoSystem™ & Clarus 500, 600	6,2	4	92	5	032-092092
Split/Splitless Tapered FocusLiner™	3	AutoSystem™ & Clarus 500, 600	6,2	4	92	5	032-092095
Split, straight-through liner	4	AutoSystem™ & Clarus 500, 600	6,2	4	92	5	032-092100
Splitless, straight-through liner	5	AutoSystem™ & Clarus 500, 600	6,2	2	92	5	032-092103
Split/Splitless for PSS injector	6	AutoSystem™ & Clarus 500, 600	4	2	86,2	5	032-092098
Split/Splitless FocusLiner™ for PSS injector	7	AutoSystem™ & Clarus 500, 600	4	2	86,2	5	032-092101
Large Volume Injection (LVI) liner for PSS injector, sintered glass	8	AutoSystem™ & Clarus 500, 600	4	2	86,2	5	032-092244
Packed Column liner	9	AutoSystem™ & Clarus 500, 600	6	3	112	5	032-092236
Split/Splitless	10	AutoSystem™ & Clarus 500, 600	5	3	100	5	032-092091
Splitless with single taper	11	AutoSystem™ & Clarus 500, 600	5	2	100	5	032-092094
PTV liner with 0.25mm ID restriction (recessed gooseneck)	12	AutoSystem™ & Clarus 500, 600	2	1	88	5	032-092097

Description	Photo nr. (Fig.2)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
ConnectTite Liner Standard	1	For Autosystem Injectors	6,2	4	92	5	032-092344
ConnectTite Liner Top Hole	2	For Autosystem Injectors	6,2	4	92	5	032-092345
ConnectTite Liner Bottom Hole	3	For Autosystem Injectors	6,2	4	92	5	032-092346

→ Continued on the next page

O-Rings

Description	Use	Pack (u.)	Art. No.
O-Ring Viton	Temperature up to 300°C, for liners with Ext Ø 6,2mm	10	0320726536
Vespel graphite ring for PSS	Temperature up to 325°C, for liners with Ext Ø 4mm	10	0320726522

Perkin Elmer chromatography septa SGE

- CS: PTFE/silicone, septa max. T 200°C. Excellent solvent resistance. Low temperature applications.
- TCS: PTFE/triple layer silicone, septa max. T 280°C. Excellent solvent resistance. Mid/high temperature applications.
- Auto-Sep™: silicone, septa max. T 320°C. Excellent solvent resistance, durability and resealing. Great volume or manual injection applications.
- Auto-SepT™: PTFE/silicone, septa max. T 350°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or programmable temperature septa applications.
- HT: BTO silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. High temperature and low bleed applications.
- EC: silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or low temperature applications.

Instrument	Ø (mm)	Type	Pack (u.)	Art. No.
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	CS	50	032-041826
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	TCS	50	032-041846
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	TCS Pre-drilled	50	032-041856
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	Auto-Sep™	25	032-041872
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	Auto-Sep T™	25	032-041882
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	Auto-Sep T™	100	032-041883
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	HT	25	032-041898
Sigma, 900, 990, 8000series, AutoSystem and Clarus	11	EC	25	032-041902

Perkin Elmer chromatography syringes SGE

Syringes for PerkinElmer AutoSystem autosampler models. All needles are 70mm long with cone tip.
(AE) Needle and plunger kit

Fixe needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
5	26 (0,47)	5F-PE-0,47C	-	-	1	032-001953
5	23 (0,63)	5F-PE-0,63C	-	-	1	032-001954
5 Gas Tight	26 (0,47)	5F-PE-GT-0,47C	-	032-031807 (2u.)	1	032-001955
5 Gas Tight	23 (0,63)	5F-PE-GT-0,63C	-	032-031807 (2u.)	1	032-001957
50	23 (0,63)	50F-PE-0,63C	-	-	1	032-004670

Replacement needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
0,5	26 (0,47)	0,5BR-PE-0,47C	032-033750 (u. AE)	-	1	032-000475
0,5	23 (0,63)	0,5BR-PE-0,63C	032-033765 (u. AE)	-	1	032-000478

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GC: COLUMNS AND ACCESSORIES: Accessories for Shimadzu chromatographs

Shimadzu chromatography ferrules SGE

(A): includes 10 ferrules and 2 SilTite™ cones

For GC14A, GC17A, GC2010 and GC2014 Detectors/Injectors (Not for MS or QP2010 injector)

Ø int. column	Description	Pack (u.)	Art. No.
0,10-0,32mm	100% Graphite	10	0320726080
0,45-0,53mm	100% Graphite	10	0320726082
5mm OD packed	100% Graphite	10	0320726001
0,10-0,25mm	SilTite™ Metal-Incial	10 (A)	032-073350
0,10-0,25mm	SilTite™ Ferrules	10	032-073227
0,32mm	SilTite™ Metal-Incial	10 (A)	032-073351
0,32mm	SilTite™ Ferrules	10	032-073228
0,45-0,53mm	SilTite™ Metal-Incial	10 (A)	032-073352
0,53mm	SilTite™ Ferrules	10	032-073229
-	SilTite™ Metal-Slotted Cones	5	032-073232

For QP5000/5050 Standard MS Interface

Ø int. column	Description	Pack (u.)	Art. No.
QP5000-I 0,10-0,25mm	15% Graphite ferrules, 85% Vespel®	10	0320726563
QP5000-I 0,32mm	15% Graphite ferrules, 85% Vespel®	10	0320726564
QP5000-II & QP5050 0,10-0,25mm	15% Graphite ferrules, 85% Vespel®	10	0320726561
QP5000-II & QP5050 0,32mm	15% Graphite ferrules, 85% Vespel®	10	0320726562
0,10-0,25mm	SilTite™ Metal-Incial	10 (A)	032-073204
0,10-0,25mm	SilTite™ Ferrules	10	032-073227
0,32mm	SilTite™ Metal-Incial	10 (A)	032-073205
0,32mm	SilTite™ Ferrules	10	032-073228
0,53mm	SilTite™ Metal-Incial	10 (A)	032-073206
0,53mm	SilTite™ Ferrules	10	032-073229
-	SilTite™Metal-QP5000/5050 Cones Std MS interface	5	032-073233

For QP5000/5050 Interfase MS Wide Bore, QP2010 Injector and MS QP2010 Standard Interface

Ø int. column	Description	Pack (u.)	Art. No.
0,10-0,25mm	15% Graphite ferrules, 85% Vespel®	10	032-072663
0,32mm	15% Graphite ferrules, 85% Vespel®	10	032-072654
0,45-0,53mm	15% Graphite ferrules, 85% Vespel®	10	032-072655
0,10-0,25mm	SilTite™ Metal-Incial	10 (A)	032-073200
0,10-0,25mm	SilTite™ Ferrules	10	032-073220
0,32mm	SilTite™ Metal-Incial	10 (A)	032-073201
0,32mm	SilTite™ Ferrules	10	032-073221
0,45-0,53mm	SilTite™ Metal-Incial	10 (A)	032-073202
0,45-0,53mm	SilTite™ Ferrules	10	032-073222
-	SilTite™ Metal Nuts	5	032-073224

For further information, please contact scharlab@scharlab.com

Shimadzu chromatography inlet liners

SGE

Only packs of 5 liners are detailed below. Packs of 1 and 25 liners are also available. See each liner geometry on Shimadzu Liners A and Shimadzu Liners B figures.

Inlet liners

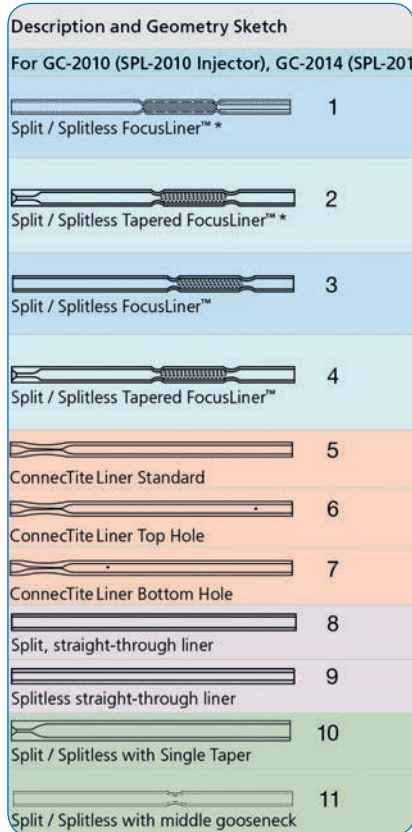


Figure 1

Inlet liners

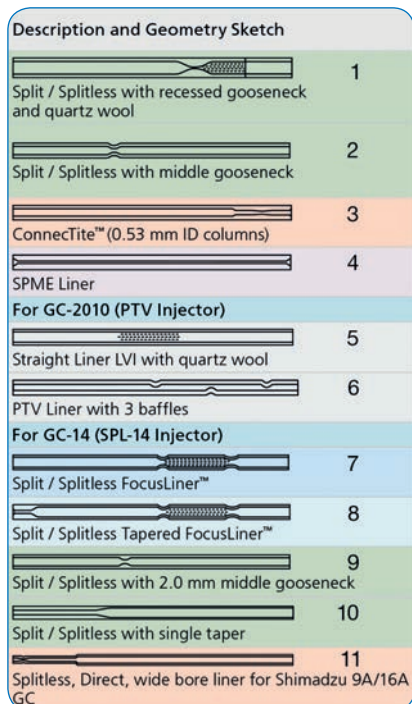


Figure 2

Description	Photo nr. (Fig.1)	Instrument	Ø ext (mm)	Ø Int. (mm)	Length (mm)	Pack (u.)	Art. No.
Split / Splitless FocusLiner™ (I)	1	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092059
Split / Splitless Tapered FocusLiner™ (I)	2	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092058
Split / Splitless FocusLiner™	3	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092062
Split / Splitless Tapered FocusLiner™	4	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092068
ConnecTite Liner Standard	5	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092329
ConnecTite Liner Top Hole	6	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092330
ConnecTite Liner Bottom Hole	7	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092331
Split, straight-through liner	8	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092064
Splitless straight-through liner	9	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	0320920861
Split / Splitless with Single Taper	10	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092071
Split / Splitless with middle gooseneck	11	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092077

Description	Photo nr. (Fig.2)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
Split/Splitless with recessed gooseneck and quartz wool	1	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092061
Split/Splitless with recessed gooseneck	2	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	3,4	95	5	032-092085
ConnecTite™ (0,53mm ID columns)	3	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	2,6	95	5	032-092087
SPME Liner	4	GC-2010 (inj. SPL-2010), GC-2014 (inj. SPL-2014) and GC-17A (inj. SPL-17)	5	0,75	95	5	032-092089
Straight Liner LVI with quartz wool	5	GC-2010 (PTV Injector)	3,1	1,5	95	5	032-092292
PTV Liner with 3 baffles	6	GC-2010 (PTV Injector)	3,1	1,5	95	5	0320920425
Split/Splitless FocusLiner™	7	GC-14 (SPL-14 Injector)	5	3,4	99	5	032-092065
Split/Splitless Tapered FocusLiner™	8	GC-14 (SPL-14 Injector)	5	3,4	99	5	032-092066
Split/Splitless with 2,0mm middle gooseneck	9	GC-14 (SPL-14 Injector)	5	3,4	99	5	032-092082
Split/Splitless with single taper	10	GC-14 (SPL-14 Injector)	5	3,4	99	5	0320920831
Splitless, Direct, wide bore liner for Shimadzu 9A/16A GC	11	GC-14 (SPL-14 Injector)	5	3,4	139	5	032-092084

→ Continued on the next page

O-Rings and Sealing Rings

Description	Use	Pack (u.)	Art. No.
Graphite ring	Temperature up to 450°C. For 14, 15A & 16 (SPL-14 injector).	10	0320726001
Graphite ring	Temperature up to 450°C. For 17A (SPL-17 injector).	10	0320726007
O-Ring Viton	Temperature up to 300°C. For 2010 & 2014 (SPL-2010 Injector & SPL-2014 Injector).	10	0320726533

Shimadzu chromatography septa

SGE

- Enduro Blue: only for Shimadzu, high temperature silicone, septa max. T 350°C. Excellent solvent resistance, durability and resealing.
- HT: BTO silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. High temperature and low bleed applications.
- EC: silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers and low temperature applications.



032-041890

Instrument	Ø (mm)	Type	Pack (u.)	Art. No.
9A, 14, 15A, 16, 17A, 2010 & 2014	-	Enduro Blue	50	032-041890
9A, 14, 15A, 16, 17A, 2010 & 2014	-	HT	50	032-041895
9A, 14, 15A, 16, 17A, 2010 & 2014	-	EC	50	032-041905

Shimadzu chromatography syringes

SGE

Syringes for Shimadzu autosamplers models AOC14, AOC17 and AOC20. All needles are 42mm long with cone tip.
(AE) Needle and plunger kit

Fixe needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
5	26 (0,47)	5F-S-0,47C	-	-	1	032-001987
5	23 (0,63)	5F-S-0,63C	-	-	1	032-001988

Replacement needle

Volume (µl)	Gauge (E.D.mm)	Model	Replacement needle	Replacement plunger	Pack (u.)	Art. No.
0,5	26 (0,47)	0,5BR-S-0,47C	032-033738 (u. AE)	-	1	032-000440
0,5	23 (0,63)	0,5BR-S-0,63C	032-033745 (u. AE)	-	1	032-000445
0,5	23-26s (0,63/0,47)	0,5BNR-S-0,63/0,47C	032-033730 (u. AE)	-	1	032-000450
10	26 (0,47)	10R-S-0,47C	032-037745 (2u.)	-	1	032-002897
10	23 (0,63)	10R-S-0,63C	032-037747 (2u.)	-	1	032-002898
10 Gas Tight	23 (0,63)	10R-S-GT-0,63C	032-037747 (2u.)	032-031798 (2u.)	1	032-002902

For further information, please contact scharlab@scharlab.com

GC: Accessories for Varian/Bruker chromatographs
Varian/Bruker chromatography ferrules
SGE
15% Graphite ferrules, 85% Vespel®

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS and detectors at atmospheric pressure e.g. FID	0,1-0,25mm	0,4mm	10	032-072663
For GC-MS and detectors at atmospheric pressure e.g. FID	0,32mm	0,5mm	10	032-072654
For GC-MS and detectors at atmospheric pressure e.g. FID	0,53mm	0,8mm	10	032-072655
Packed Columns	1/8" DO Packed Column	1/8"	10	032-072669
Packed Columns	1/4" DO Packed Column	1/4"	10	032-072667

100% Graphite ferrules

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS and detectors at atmospheric pressure e.g. FID	0,1-0,32mm	0,5mm	10	032-072627
For GC-MS and detectors at atmospheric pressure e.g. FID	0,45-0,53mm	0,8mm	10	032-072626
For GC-MS and detectors at atmospheric pressure e.g. FID	1/8" DO Packed Column	1/8"	10	032-072622
For GC-MS and detectors at atmospheric pressure e.g. FID	1/4" DO Packed Column	1/4"	10	032-072621

SilTite™ Metal Ferrules. Starter Kit contains 10 ferrules and 10 cones


032-073300

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS (starter kit)	0,1-0,25mm	0,4mm	10	032-073300
For GC-MS (starter kit)	0,32mm	0,5mm	10	032-073301
For GC-MS (starter kit)	0,53mm	0,8mm	10	032-073302
For GC-MS (starter kit)	1/32"	0,81mm	10	032-073303

Cones for Varian Injector

Description	Use	Pack (u.)	Art. No.
Cones for Varian Injector	-	2	0001034060

SilTite™ Replacement Ferrules

Instrument	Ø int. column	Ø int. ferrule	Pack (u.)	Art. No.
For GC-MS interface	0,1-0,25mm	0,4mm	10	032-073220
For GC-MS interface	0,32mm	0,5mm	10	032-073221
For GC-MS interface	0,53mm	0,8mm	10	032-073222
For GC-MS interface	1/32"	0,81mm	10	032-073219

SilTite™ Replacement Cones

Description	Use	Pack (u.)	Art. No.
SilTite™ replacement cones	-	5	032-073231

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Varian/Bruker chromatography inlet liners SGE

Only packs of 5 liners are detailed below. Packs of 1 and 25 liners are also available. See each liner geometry on Varian Bruker Liners A, Varian Bruker Liners B and Varian Bruker Liners C figures.

Inlet liners

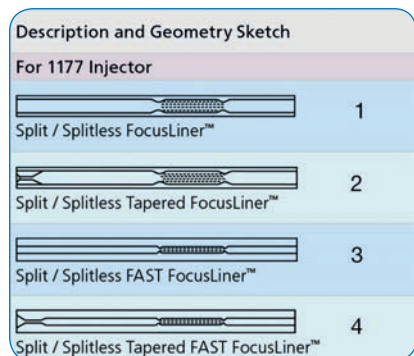


Figure 1

Description	Photo nr. Fig.1)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
Split/Splitless FocusLiner™	1	1177 Injector	6,3	4	78,5	5	032-092002
Split/Splitless Tapered FocusLiner™	2	1177 Injector	6,3	4	78,5	5	032-092003
Split/Splitless FAST FocusLiner™	3	1177 Injector	6,3	4	78,5	5	032-092005
Split/Splitless Tapered FAST FocusLiner™	4	1177 Injector	6,3	4	78,5	5	032-092111

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

GC: COLUMNS AND ACCESSORIES

ExtraBond® QuEChERS



Extraction and dispersive kits according to the European (EN 15662) and American (AOAC 2007.01) methods, as well as Scharlau's variant of the European method, EN-A









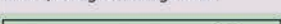

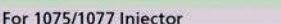

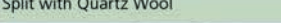


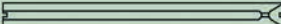

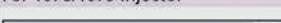
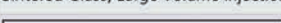





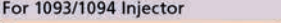
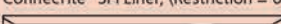
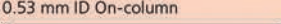
Description and Geometry Sketch	
	1
Split, straight-through liner	
	2
Split, with quartz wool	
	3
Split / Splitless with single taper	
	4
Split / Splitless with single taper (quartz wool)	
	5
Split / Splitless with double taper	
	6
Direct, straight-through liner	
	7
Splitless with Recessed Gooseneck	
	8
Split / Splitless Recessed Gooseneck (quartz wool)	
For 1075/1077 Injector	
	9
Split, FAST FocusLiner™	
	10
Split with Quartz Wool	
	11
Split FocusLiner™ with Top-end Restriction	
	12
Splitless FocusLiner™ with Top-end Restriction	
	13
Split, Tapered FocusLiner™	
	14
Splitless, Slots at Both Ends	
	15
Split FocusLiner™	
For 1078/1079 Injector	
	16
Sintered Glass, Large Volume Injection (LVI) Liner	
	17
Straight-through Liner	
	18
SPME liner	
	19
Splitless with Single Taper	
	20
Split / Splitless with single taper	
	21
Split / Splitless FocusLiner™	
	22
Split / Splitless Tapered FocusLiner™	
For 1093/1094 Injector	
	23
ConnecTite™ SPI Liner, (Restriction = 0.25 mm)	
	24
ConnecTite™ SPI Liner, (Restriction = 0.5 mm) for 0.53 mm ID On-column	
	25
ConnecTite™ SPI Liner, (Restriction = 0.25 mm)	

Figura 2

Description	Photo nr. (Fig.2)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
Split, straight-through liner	1	1177 Injector	6,3	4	78,5	5	032-092007
Split, with quartz wool	2	1177 Injector	6,3	4	78,5	5	032-092001
Split/Splitless with single taper	3	1177 Injector	6,3	4	78,5	5	032-092017
Split/Splitless with single taper (quartz wool)	4	1177 Injector	6,3	4	78,5	5	032-092019
Split/Splitless with double taper	5	1177 Injector	6,3	4	78,5	5	032-092018
Direct, straight-through liner	6	1177 Injector	6,3	1,2	78,5	5	032-092016
Splitless with Recessed Gooseneck	7	1177 Injector	6,3	2	78,5	5	032-092013
Split/Splitless Recessed Gooseneck (quartz wool)	8	1177 Injector	6,3	4	78,5	5	032-092010
Split, FAST FocusLiner™	9	1075/1077 Injector	6,3	2,3	72	5	032-092113
Split with Quartz Wool	10	1075/1077 Injector	6,3	4	72	5	032-092021
Split FocusLiner™ with Top-end Restriction	11	1075/1077 Injector	6,3	4	72	5	032-092028
Splitless FocusLiner™ with Top-end Restriction	12	1075/1077 Injector	6,3	4	74	5	032-092026
Split, Tapered FocusLiner™	13	1075/1077 Injector	6,3	4	72	5	032-092025
Splitless, Slots at Both Ends	14	1075/1077 Injector	6,3	2	74	5	032-092024
Split FocusLiner™	15	1075/1077 Injector	6,3	4	72	5	032-092022
Sintered Glass, Large Volume Injection (LVI) Liner	16	1075/1077 Injector	6,3	1,8 /3,4	54	5	032-092245
Straight-through Liner	17	1075/1077 Injector	6,3	0,5	54	5	032-092031
SPME liner	18	1075/1077 Injector	6,3	0,75	54	5	032-092117
Splitless with Single Taper	19	1075/1077 Injector	6,3	2	54	5	032-092039
Split/Splitless with single taper	20	1075/1077 Injector	6,3	3,4	54	5	032-092038
Split/Splitless FocusLiner™	21	1075/1077 Injector	6,3	3,4	54	5	032-092037
Split/Splitless Tapered FocusLiner™	22	1075/1077 Injector	6,3	3,4	54	5	032-092036
ConnecTite™ SPI Liner, (Restriction = 0,25mm)	23	1093/1094 Injector	4,6	0,5	54	5	032-092027
ConnecTite™ SPI Liner, (Restriction = 0,5mm) for 0,53mm ID On-column	24	1093/1094 Injector	4,6	0,8	54	5	032-092034
ConnecTite™ SPI Liner, (Restriction = 0,25mm)	25	1093/1094 Injector	4,6	0,8	54	5	032-092030

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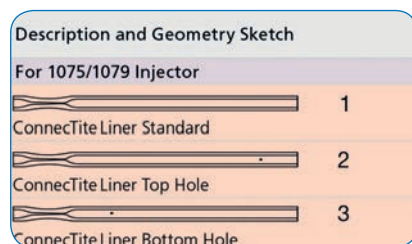


Figura 3

Description	Photo nr. (Fig.3)	Instrument	Ø ext. (mm)	Ø int. (mm)	Length (mm)	Pack (u.)	Art. No.
ConnectTite Liner Standard	1	1075/1079 Injector	6,3	4	72	5	032-092339
ConnectTite Liner Top Hole	2	1075/1079 Injector	6,3	4	72	5	032-092340
ConnectTite Liner Bottom Hole	3	1075/1079 Injector	6,3	4	72	5	032-092341

O-Rings and Sealing Rings

Description	Use	Pack (u.)	Art. No.
O-Ring Viton	1177 Injector	10	0320726532
Graphite Ring	1075 & 1077 Injectors	10	032-072601
Graphite Ring	1078 & 1079 Injectors	10	0320726217

Varian/Bruker chromatography septa

SGE

- CS: PTFE/silicone, septa max. T 200°C. Excellent solvent resistance. Low temperature applications.
- TCS: PTFE/triple layer silicone, septa max. T 280°C. Excellent solvent resistance. Mid/high temperature applications.
- Auto-Sep™: silicone, septa max. T 320°C. Excellent solvent resistance, durability and resealing. Great volume or manual injection applications.
- Auto-SepT™: PTFE/silicone, septa max. T 350°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or programmable temperature septa applications.
- HT: BTO silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. High temperature and low bleed applications.
- EC: silicone, septa max. T 400°C. Excellent solvent resistance, durability and resealing. Great volume autosamplers or low temperature applications.



032-041898



032-041902

Instrument	Ø (mm)	Type	Pack (u.)	Art. No.
1177 Injector	9	CS	50	032-041824
1178 Injector	9	TCS	50	032-041844
1179 Injector	9	TCS Pre-drilled	50	032-041854
1180 Injector	9	Auto-Sep T™	25	032-041879
1181 Injector	9	HT	25	032-041897
1182 Injector	9	EC	25	032-041900
1040, 1041, 1060 & 1061 Injectors	9,5	CS	50	032-418240
1040, 1041, 1060 & 1061 Injectors	9,5	TCS Pre-drilled	50	032-418540
1040, 1041, 1060 & 1061 Injectors	9,5	Auto-Sep™	25	032-041871
1040, 1041, 1060 & 1061 Injectors	9,5	Auto-Sep T™	25	032-041880
1040, 1041, 1060 & 1061 Injectors	9,5	HT	25	032-041897
1040, 1041, 1060 & 1061 Injectors	9,5	EC	25	032-041901
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	CS	50	032-041826
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	TCS	50	032-041846
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	TCS Pre-drilled	50	032-041856
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	Auto-Sep™	25	032-041872
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	Auto-Sep T™	25	032-041882
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	Auto-Sep T™	100	032-041883
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	HT	25	032-041898
1075, 1077, 1078, 1079 & 1093, 1094 SPI Injectors	11	EC	25	032-041902

For further information, please contact scharlab@scharlab.com

Varian/Bruker chromatography syringes
SGE

For Varian/Bruker 8035, 8100 and 8200. (AE: contains needle and plunger)

Volume (µl)	Needle	Length (mm)	Gauge (E.D.mm)	Tip	Model	Replacement needle	Needle pack	Replacement plunger (u.)	Pack (u.)	Art. No.
1 (no para 8200)	Replacement	51	26 (0,47)	Conical	1BR-VA8X	032-034720	1 (AE)	-	1	032-000655
10 Gas Tight	Replacement	53	25 (0,5)	Needle	10R-GT-VA8X-II	032-037777	1	032-031218	1	032-002924
100 Gas Tight	Replacement	53	25 (0,5)	Needle	100R-GT-VA8X	032-038745	1	032-031824	1	032-005921

Needle for syringe 032-002924

Length (mm)	Gauge (D.E.mm)	Tip	Model	Pack (u.)	Art. No.
50	25 (0,5)	Beveled	N10-VA8035-II	2	032-037776
105	-	Conical	N10-VA8035-0,17-II	2	032-037778
53	23 (0,63)	Needle	N10-VA8X00H-0,63-II	2	032-037779
53	25 (0,5)	Needle	N10-VA800H-II(0,2)	1	032-037780

For Varian/Bruker CP-8400/8410, CP-9010/9050, Fixe needle

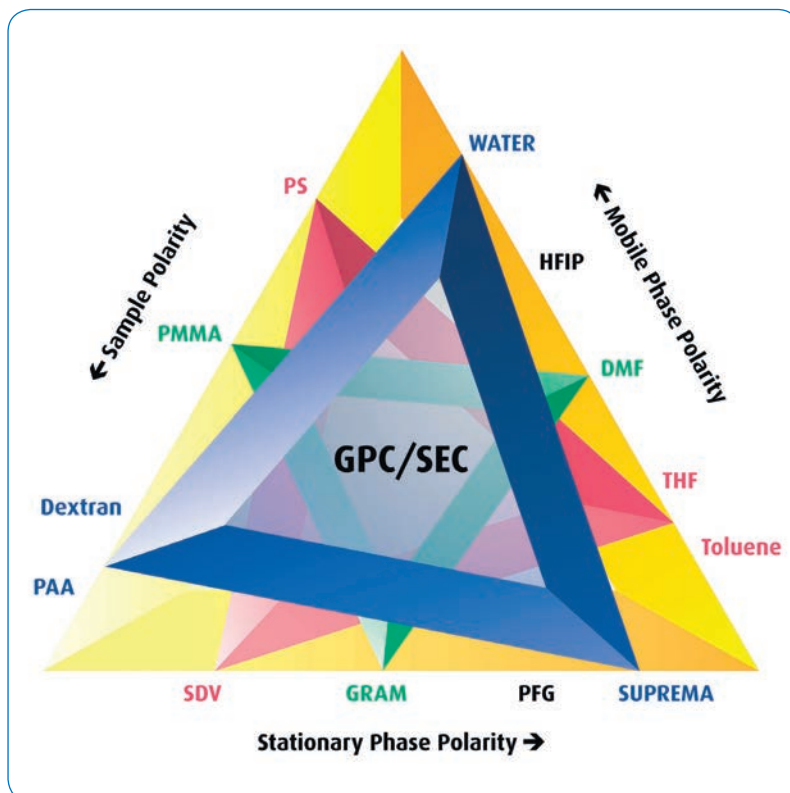
Volume (µl)	Needle	Length (mm)	Gauge (E.D.mm)	Tip	Model	Replacement needle	Needle pack	Replacement plunger (u.)	Pack (u.)	Art. No.
10	Fixe	50	26 (0,47)	Beveled	10F-VA8400-5/0,47	-	-	-	1	032-002950
10	Fixe	50	23 (0,63)	Conical	10F-C/T-5/0,63C	-	-	-	1	032-002981
10	Replacement	50	26 (0,47)	Conical	10R-C/T-5/0,47C	032-037785	2	-	1	032-002982

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GPC/SEC: COLUMNS AND STANDARDS

- GPC/SEC Columns, *page 541*
- Standards for GPC/SEC, *page 550*

GPC/SEC: COLUMNS AND STANDARDS: GPC/SEC Columns



PSS

PSS GmbH was founded in 1985 by two PhD students from the Chemistry Department in the University of Mainz, Germany, producing polymer standards on the University campus. Over the following years PSS expanded in personnel and products, including made to order polymer standards, organic and aqueous columns for GPC/SEC, and GPC/SEC software. They moved in 2001 to their own offices in Mainz, Germany. Today, PSS is a leader in the GPC/SEC market, making innovative contributions. PSS is certified (ISO DIN EN 9001: 2008) to manufacture reference polymers of high quality, columns and software for GPC / SEC.

The PSS concept is to minimize interactions between polymers and stationary phases. Generally, the sample is a factor: the polarity of the sample determines the polarity of the solvent and, therefore, also of the stationary phase. To ensure chromatography with no interaction the choice of stationary phase is crucial.

PSS allows selection of stationary phases of different polarity. The PSS magic triangle provides a quick visual aid for the selection of columns, where the three sides represent sample, mobile phase and stationary phase (see figure). **Contact our Chromatographic Consultation Service and they will advise you on the column best suited to your determination.**

Detailed below are the phases and dimensions most commonly used. Other phases are available as well as the following dimensions 20x300mm, 4,6x250mm and 8x150mm.



Problems with your chromatography column?

Contact Scharlab's Chromatography Helpdesk:
scharlab@scharlab.com

- ✓ What sample is being tested?
- ✓ What type of analysis is being carried out?
- ✓ What detectors/equipment is being used?
- ✓ Has there been a previous test with a column that did not work?

For further information, please contact scharlab@scharlab.com

GRAM columns for GPC with polar organic solvents

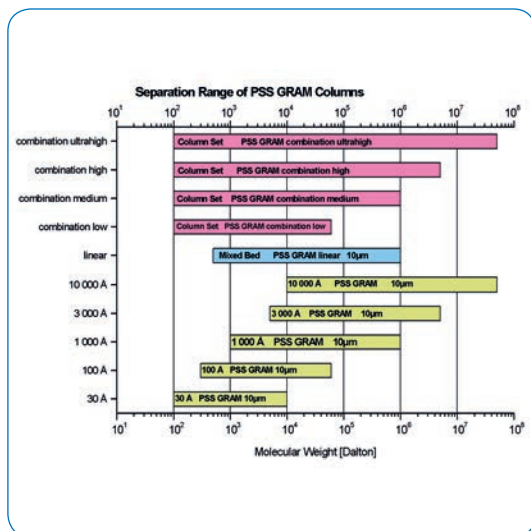
PSS

GRAM columns are conceived for polymers in **non-polar organic solvents or mid polarity**. Available with one unique pore for a maximum resolution and also linear for a fast screening.

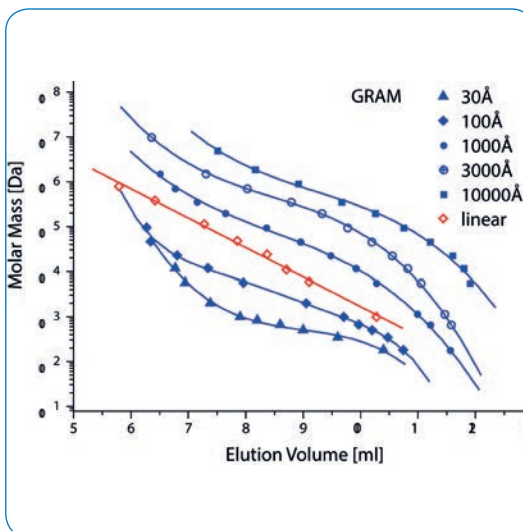
- **Applicability:** Polyurethane, Polyimide, Starches, Celluloses, certain Polyamide, other polar polymers
- **Eluents:** DMF, DMAc, NMP, DMSO

Specifications:

- Material: polyester copolymer network
- Maximum Pressure: 50 -120bar (725 - 1740psi), depending on porosity
- Maximum Temperature: 90°C
- Maximum Flow Rate: 2ml/min (I.D.: 8mm)
- Molecular Weight Range: 100 to 50.000.000Da
- Incompatibility: drying and freezing



GRAM separation range



GRAM Calibration curves

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
GRAM	10	Precolumn	50	8	-	1	000Y080510
GRAM	10	30	300	8	100-10.000	1	Y0830103E1
GRAM	10	100	300	8	300-60.000	1	Y0830101E2
GRAM	10	1.000	300	8	1.000-1.000.000	1	Y0830101E3
GRAM	10	3.000	300	8	5.000-5.000.000	1	Y0830103E3
GRAM	10	10.000	300	8	10.000-50.000.000	1	Y0830101E4
GRAM linear	10	Linear	300	8	500-1.000.000	1	Y083010LIN

Single pore GRAM columns sets

Type	Range	Preconfigured set	Pack (u.)	Art. No.
Medium	100-1.000.000 Da	10µ Precolumn + 30Å+1.000Å+1.000Å	1	00208-0002
High	1.000-5.000.000 Da	10µ Precolumn + 100Å+3.000Å+3.000Å	1	00208-0003
Ultra high	1.000-50.000.000 Da	10µ Precolumn + 100Å+10.000Å+10.000Å	1	00208-0004

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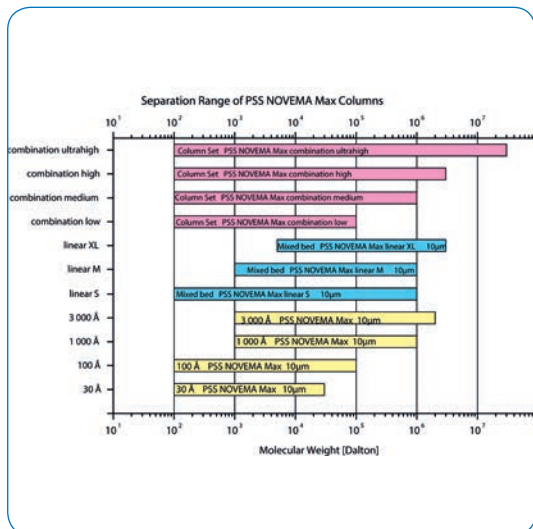
NOVEMA Max columns for aqueous GPC/SEC of polycations PSS

NOVEMA Max columns are used for aqueous GPC of **cationic polymers**. Available with one unique pore for a maximum resolution and also linear for a fast screening.

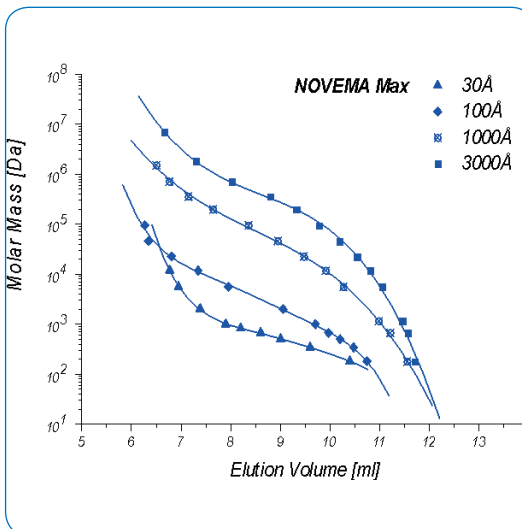
- **Applicability:** cationic polymers, Polymeric Quarternary Ammonium Compounds, Poly (DADMAC), Polyvinylpyridine, Chitosan, Polyethyleneimine, etc.
- **Eluents:** water, water with salt/buffer, MeOH, ACN, TFA); pH: 1.5-7.0

Specifications:

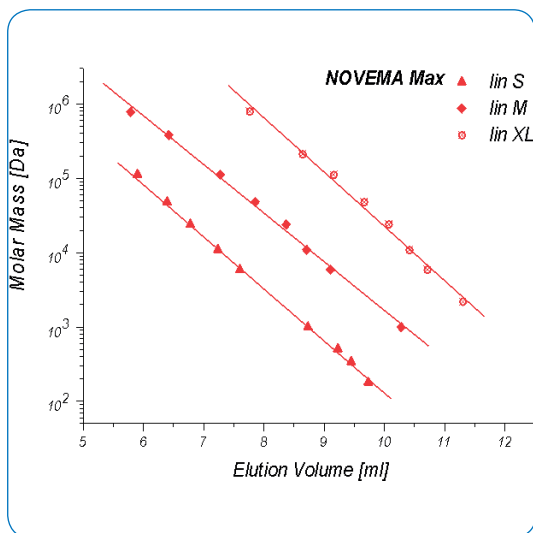
- Material: NH-functionalized acrylate copolymer network
- Maximum Pressure: 50-80bar (725-1160psi), depending on porosity
- Maximum Temperature: 80°C
- Maximum Flow Rate: 2ml/min (8mm I.D.)
- Molecular Weight Range: 100 to > 30.000.000Da
- Incompatibility: drying and freezing



NOVEMA Max separated range



NOVEMA Max calibrated curves



NOVEMA Max Linear calibrated curves

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
NOVEMA Max	10	Precolumn	50	8	-	1	000W080510
NOVEMA Max	10	30	300	8	100-30.000	1	W0830103E1
NOVEMA Max	10	100	300	8	100-100.000	1	W0830103E2
NOVEMA Max	10	1000	300	8	100-1.000.000	1	W0830101E3
NOVEMA Max	10	3000	300	8	1.000-2.000.000	1	W0830103E3
NOVEMA Max linear	10	Linear S	300	8	100-1.000.000	1	W083010LIS
NOVEMA Max linear	10	Linear M	300	8	1.000-1.000.000	1	W083010LIM
NOVEMA Max linear	10	Linear XL	300	8	5.000-3.000.000	1	W083010LXL
NOVEMA Max linear	10	Ultra high	300	8	100-30.000.000	1	W083010LUH

POLEFIN columns for polyolefins HT-GPC

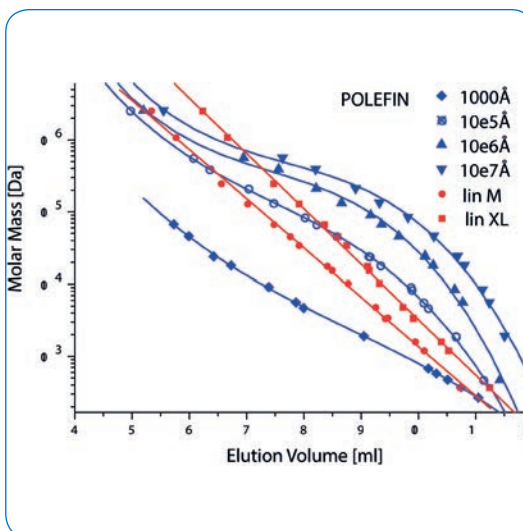
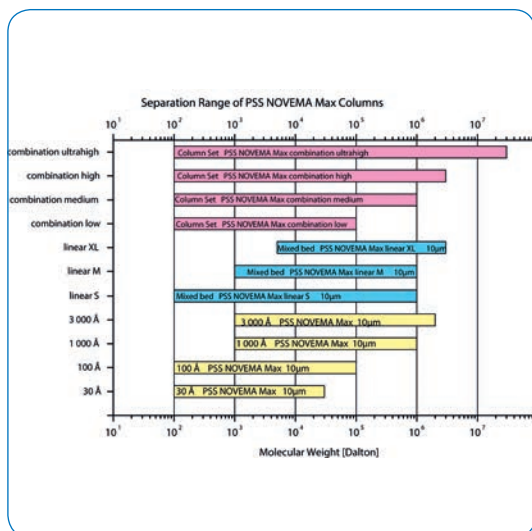
PSS

POLEFIN columns are ideal for **polyolefins HT-GPC**. Available with one unique pore for a maximum resolution and also linear for a fast screening.

- **Applicability:** Poly(ethylene), Poly(propylene), other Polyolefins
- **Eluents:** TCB, o-DCB, Decalin

Specifications:

- Material: modified styrene-divinylbenzene copolymer network
- Maximum Pressure: 100 - 150bar (1450-2180psi), depending on porosity
- Maximum Temperature: 200°C
- Maximum Flow Rate: 2ml/min (I.D.: 8mm)
- Molecular Weight Range: 100 to 30.000.000Da
- Incompatibility: water, alcohol, drying, and freezing



POLEFIN separation range

POLEFIN Calibration curves

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
POLEFIN	10	Precolumna	50	8	-	1	000X080510
POLEFIN	10	100	300	8	100-10.000	1	X0830101E2
POLEFIN	10	1.000	300	8	100-60.000	1	X0830101E3
POLEFIN	10	100.000	300	8	1.000-1.000.000	1	X0830101E5
POLEFIN	10	1.000.000	300	8	1.000-4.000.000	1	X0830101E6
POLEFIN	10	10.000.000	300	8	5.000-30.000.000	1	X0830101E7
POLEFIN linear	10	Linear M	300	8	100-1.000.000	1	X083010LIM
POLEFIN linear	10	Linear XL	300	8	1.000-4.000.000	1	X083010LXL
POLEFIN	20	Precolumn	50	8	-	1	000X080520
POLEFIN linear	20	Linear UH	300	8	1.000-30.000.000	1	X083020LUH

Single pore POLEFIN columns sets

Type	Range	Preconfigured set	Pack (u.)	Art. No.
Low	100-60.000 Da	10µ Precolumna + 1.000Å+1.000Å+1.000Å	1	00210-0001
Medium	100-1.000.000 Da	10µ Precolumna + 1.000Å+100.000Å	1	00210-0002
High	1.000-3.000.000 Da	10µ Precolumna + 1.000Å+100.000Å+1.000.000Å	1	00210-0003
Ultra high	1.000-30.000.000 Da	20µ Precolumna + tres ultra alto	1	00210-0004

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PROTEEMA columns for aqueous GPC/SEC separation of proteins PSS

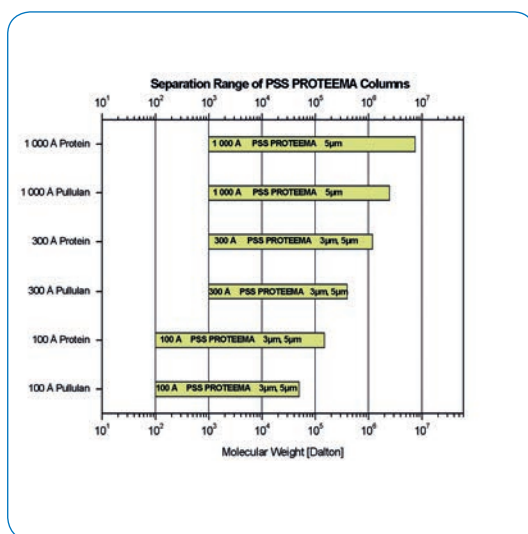
PROTEEMA columns are ideal for **protein aqueous GPC**. Available with one unique pore for a maximum resolution and also linear for a fast screening.

- **Applicability:** natural and synthetic Proteins, Peptides, Enzymes, Gelatins/Collagens
- **Eluents:** water, water with salt/buffer; pH: 2-9

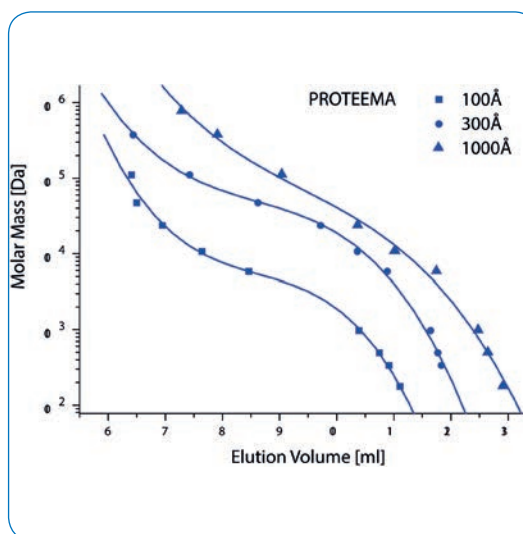
Specifications:

- Material: special modified silica
- Maximum Pressure: 150-200bar (2180-2900psi), depending on porosity
- Maximum Temperature: 70°C
- Maximum Flow Rate: (8mm I.D.) 3ml/min
- Molecular Weight Range: 100 to 7.500.000Da
- Incompatibility: drying, and freezing

Analytic Columns



PROTEEMA separation range



PROTEEMA calibration curves

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
PROTEEMA	5	Precolumn	50	8	-	1	000U080505
PROTEEMA	5	100	300	8	100-150.000	1	U0830051E2
PROTEEMA	5	300	300	8	1.000-1.200.000	1	U0830053E2
PROTEEMA	5	1000	300	8	1.000-7.500.000	1	U0830051E3

Micro Columns

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
PROTEEMA	3	Precolumn	30	4,6	-	1	000T050303
PROTEEMA	3	100	250	4,6	100-150.000	1	T0525031E2
PROTEEMA	3	300	250	4,6	1.000-1.200.000	1	T0525033E2

For further information, please contact scharlab@scharlab.com

SDV columns for polymers in unpolar and medium polar organic solvents

PSS

SDV columns are conceived for polymers in **non-polar organic solvents or mid polarity**. Available with one unique pore for a maximum resolution and also linear for a fast screening.

- **Applicability:** Polystyrene, Polyvinyl chloride, Polycarbonate, Elastomers, Resins and others
- **Eluents:** THF, Toluene, TCM, DCM

Specifications:

- Material: Styrene-divinylbenzene copolymer network
- Maximum Pressure: 45 - 150bar (650-2180psi), depending on porosity
- Maximum Temperature: 100°C
- Maximum Flow Rate: 3ml/min (I.D.: 8mm, 5µm resp. 10µm)
- Molecular Weight Range: 100 to 30.000.000Da
- Incompatibility: water, alcohol, drying, and freezing

Single pore guard columns, SDV



Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
SDV	3	-	50	8	-	1	000Z080503
SDV	5	-	50	8	-	1	000Z080505
SDV	10	-	50	8	-	1	000Z080510

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Multisolvant®

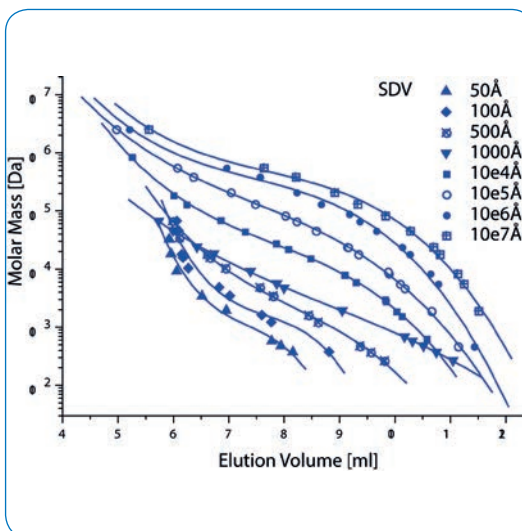
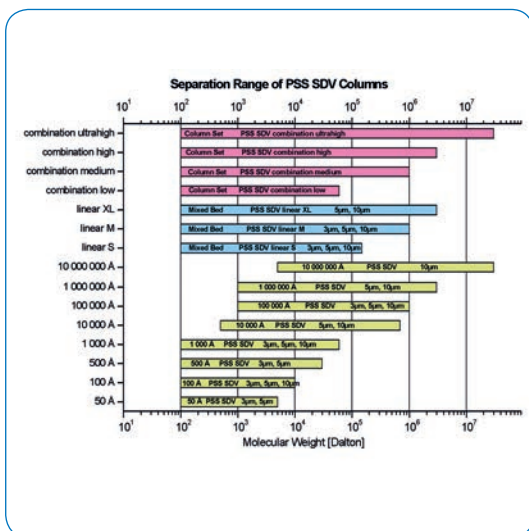
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Guaranteed your results · It avoids errors in your laboratory
Increases the safety in your laboratory

Single pore columns, SDV



SDV separation range

SDV Calibration curves

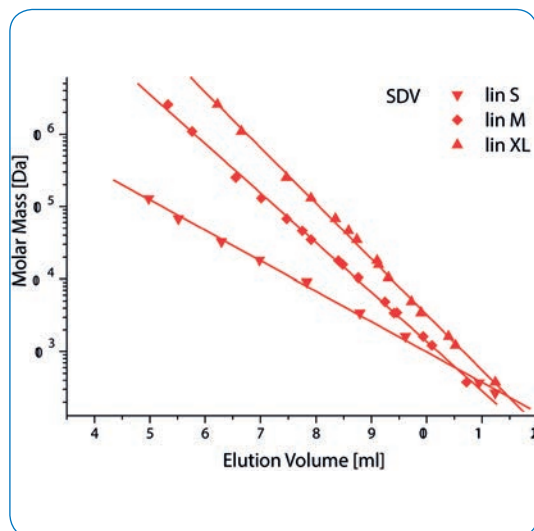
Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
SDV	3	50	300	8	100-5.000	1	Z0830035E1
SDV	3	100	300	8	100-10.000	1	Z0830031E2
SDV	3	500	300	8	100-30.000	1	Z0830035E2
SDV	3	1.000	300	8	100-60.000	1	Z0830031E3
SDV	3	10.000	300	8	500-700.000	1	Z0830031E4
SDV	3	100.000	300	8	100-1.000.000	1	Z0830031E5
SDV	5	50	300	8	100-5.000	1	Z0830055E1
SDV	5	100	300	8	100-10.000	1	Z0830051E2
SDV	5	500	300	8	100-30.000	1	Z0830055E2
SDV	5	1.000	300	8	100-60.000	1	Z0830051E3
SDV	5	10.000	300	8	500-700.000	1	Z0830051E4
SDV	5	100.000	300	8	100-1.000.000	1	Z0830051E5
SDV	5	1.000.000	300	8	100-3.000.000	1	Z0830051E6
SDV	10	50	300	8	100-5.000	1	Z0830105E1
SDV	10	100	300	8	100-10.000	1	Z0830101E2
SDV	10	500	300	8	100-30.000	1	Z0830105E2
SDV	10	1.000	300	8	100-60.000	1	Z0830101E3
SDV	10	10.000	300	8	500-700.000	1	Z0830101E4
SDV	10	100.000	300	8	100-1.000.000	1	Z0830101E5
SDV	10	1.000.000	300	8	100-3.000.000	1	Z0830101E6
SDV	10	10.000.000	300	8	500-30.000.000	1	Z0830101E7

Single pore SDV columns sets

Type	Range	Preconfigured set	Pack (u.)	Art. No.
Low	100-60.000 Da	3µm Precolumn + 1.000Å+1.000Å	1	00201-0001
Medium	100-700.000 Da	5µm Precolumn + 1.000Å+100.000Å	1	00201-0002
High	1.000-3.000.000 Da	5µm Precolumn + 1.000Å+100.000Å+10.000.000Å	1	00201-0003
Ultra high	1.000-30.000.000 Da	10µm Precolumn + 1.000Å+100.000Å+10.000.000Å	1	00202-0004

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Linear guard columns, mixed, SDV


Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
SDV linear	3	-	50	8	-	1	000Z080503
SDV linear	5	-	50	8	-	1	000Z080505
SDV linear	10	-	50	8	-	1	000Z080510

Linear columns, mixed, SDV

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
SDV linear	3	Linear S	300	8	100-150.000	1	Z083003LIS
SDV linear	3	Linear M	300	8	100-1.000.000	1	Z083003LIM
SDV linear	5	Linear S	300	8	100-150.000	1	Z083005LIS
SDV linear	5	Linear M	300	8	100-1.000.000	1	Z083005LIM
SDV linear	5	Linear XL	300	8	100-3.000.000	1	Z083005LXL
SDV linear	10	Linear S	300	8	100-150.000	1	Z083010LIS
SDV linear	10	Linear M	300	8	100-1.000.000	1	Z083010LIM
SDV linear	10	Linear XL	300	8	100-150.000	1	Z083010LXL

SUPREMA columns for aqueous GPC/SEC of neutral and anionic polymers
PSS

SUPREMA columns are designed for **aqueous GPC of neutral and anionic polymers**. Available with one unique pore for a maximum resolution and also linear for a fast screening.

- **Applicability:** Neutral and anionic polymers, (PEO, PEG, Pullulan, Dextran, Poly(acrylamide), Hyaluronic acid, Poly(acrylic acid), Carboxymethylcellulose, etc.)

- **Eluents:** water (with salts/buffers, MeOH, ACN) pH: 1.5 – 13

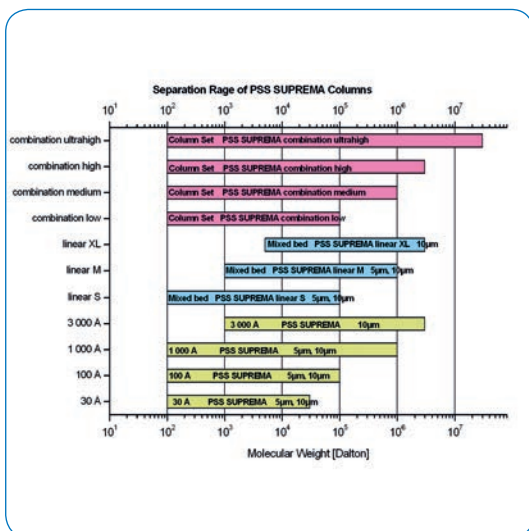
Specifications:

- Material: Polyhydroxymethacrylate copolymer network
- Maximum Pressure: 50-80bar (725-1160psi), depending on porosity
- Maximum Temperature: 80°C
- Maximum Flow Rate: 2ml/min (I.D.: 8mm)
- Molecular Weight Range: 100 to > 30.000.000Da
- Incompatibility: drying and freezing

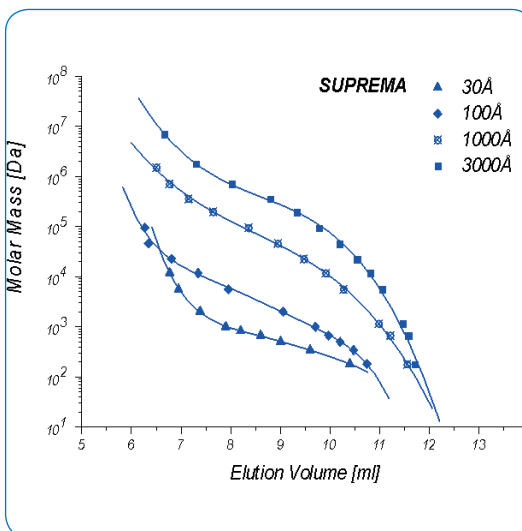
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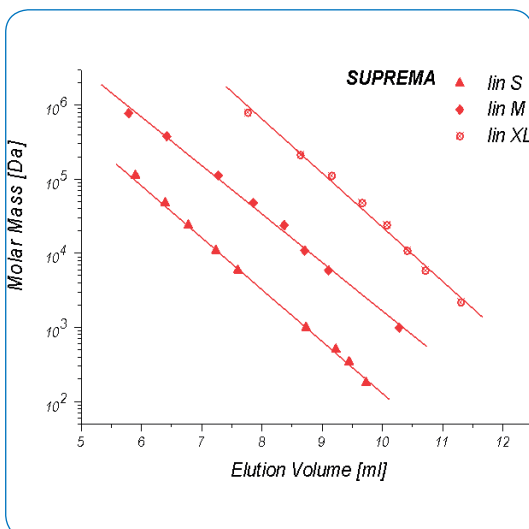
Single pore columns



SUPREMA separation range



SUPREMA calibration range



SUPREMA Linear calibration curves

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
SUPREMA	10	30	300	8	100-30.000	1	V0830103E1
SUPREMA	10	100	300	8	100-100.000	1	V0830101E2
SUPREMA	10	1.000	300	8	100-1.000.000	1	V0830101E3
SUPREMA	10	3.000	300	8	1000-3.000.000	1	V0830103E3

Single pore SUPREMA columns sets

Type	Range	Preconfigured set	Pack (u.)	Art. No.
Low	100-100.000 Da	5µ Precolumn + 100Å+100Å+100Å	1	00206-0001
Medium	100-1.000.000 Da	5µ Precolumn + 30Å+1.000Å+1.000Å	1	00206-0002
High	1.000-3.000.000 Da	10µ Precolumn + 100Å + 3.000Å+ 3.000Å	1	00206-0003
Ultra high	1.000-30.000.000 Da	10µ Precolumn + three ultra high	1	00206-0004

Linear columns, mixed

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø int. (mm)	Separation range (Da)	Pack (u.)	Art. No.
SUPREMA linear	10	Linear S	300	8	100-100.000	1	V083010LIS
SUPREMA linear	10	Linear M	300	8	1.000-1.000.000	1	V083010LIM
SUPREMA linear	10	Linear XL	300	8	5.000-3.000.000	1	V083010LXL
SUPREMA linear	10	Linear UH	300	8	1.000-30.000.000	1	V083010LUH

GPC/SEC: COLUMNS AND STANDARDS: Standards for GPC/SEC

GPC individual standards
PSS

PSS manufactures reference polymers for applications in aqueous and organic solvents on a wide variety of presentations: individual, narrow or broad distribution standards, GPC/SEC calibration standard kits and ReadyCal kits.

The most common standards are detailed below. Do not doubt in contacting us on scharlab@scharlab.com for any standard non included. PDI is the polydispersity index $PDI = M_w/M_n$.

Polystyrene individual "narrow" standards. Soluble in THF, DMF, DMAc, toluene, chloroform. Polystyrene is suitable for SDV, GRAM, PFG and POLEFIN columns.

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Polystyrene	162	1,00	1	0000PSP1-3
Polystyrene	266	1,00	1	0000PSP2-3
Polystyrene	360	<1,50	1	00PS230910
Polystyrene	370	1,00	1	0000PSP3-6
Polystyrene	560	<1,50	1	00PS270710
Polystyrene	750	<1,50	1	000PS11124
Polystyrene	1.000	<1,50	1	000PS19120
Polystyrene	1.800	<1,50	1	00PS200504
Polystyrene	3.200	<1,15	1	00PS010410
Polystyrene	4.000	<1,15	1	00PS290708
Polystyrene	5.600	<1,15	1	00PS140410
Polystyrene	10.000	<1,15	1	000PS11102
Polystyrene	12.000	<1,15	1	0000PS5019
Polystyrene	25.000	<1,15	1	000PS21116
Polystyrene	33.000	<1,15	1	000PS9029N
Polystyrene	56.000	<1,15	1	000PS15017
Polystyrene	100.000	<1,15	1	000PS10068
Polystyrene	120.000	<1,15	1	000PS10065
Polystyrene	136.000	<1,15	1	000PS23091
Polystyrene	180.000	<1,15	1	000PS30604
Polystyrene	238.000	<1,15	1	0000PS1125
Polystyrene	320.000	<1,15	1	0000PS1082
Polystyrene	560.000	<1,15	1	000PS10128
Polystyrene	820.000	<1,15	1	0000PS3128
Polystyrene	900.000	<1,15	1	000PS5087N
Polystyrene	1.000.000	<1,50	1	00PS060910
Polystyrene	1.400.000	<1,50	1	0000PS8020
Polystyrene	1.500.000	<1,50	1	0000PS8097
Polystyrene	1.800.000	<1,50	1	00PS070705
Polystyrene	3.200.000	<1,50	1	00PS160312
Polystyrene	5.000.000	<1,50	1	000PS22025
Polystyrene	10.000.000	<1,50	1	000PS70203
Polystyrene	20.000.000	<1,50	1	00PS290103

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Polystyrene individual "broad" standards

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Broad Polystyrene	25.000	<1,50	1	00PSBR20K
Broad Polystyrene	45.000	<1,50	1	00PSBR47K
Broad Polystyrene	60.000	<1,50	1	00PSBR60K
Broad Polystyrene	100.000	<1,50	1	00PSBR88K
Broad Polystyrene	145.000	<1,50	1	00PSBR130K
Broad Polystyrene	200.000	<1,50	1	00PSBR190K
Broad Polystyrene	250.000	<1,50	1	00PSBR240K
Broad Polystyrene	350.000	<1,50	1	00PSBR331K
Broad Polystyrene	450.000	<1,50	1	00PSBR460K
Broad Polystyrene	550.000	<1,50	1	00PSBR560K
Broad Polystyrene	700.000	<1,50	1	00PSBR700K

Polymethylmethacrylate individual "narrow" standards. Soluble in THF, DMF, DMAc, chloroform, toluene. They can be used for SDV, GRAM and PFG columns.

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Polymethylmethacrylate	102	1	1	00000MMP1
Polymethylmethacrylate	202	1	1	00000MMP2
Polymethylmethacrylate cycl. P3	270	1	1	00000MMP3C
Polymethylmethacrylate	302	1	1	000MMGP3-2
Polymethylmethacrylate	402	1	1	000MMGP4-2
Polymethylmethacrylate	600	<1,50	1	0MMG160908
Polymethylmethacrylate	1.000	<1,50	1	0MMG20804N
Polymethylmethacrylate	2.100	<1,15	1	0MMG270704
Polymethylmethacrylate	4.700	<1,15	1	0MMG190908
Polymethylmethacrylate	10.000	<1,15	1	0MMG260704
Polymethylmethacrylate	14.000	<1,15	1	00MMG29069
Polymethylmethacrylate	21.000	<1,15	1	0MMG270603
Polymethylmethacrylate	40.000	<1,15	1	0MMG130603
Polymethylmethacrylate	47.000	<1,15	1	0MMG221102
Polymethylmethacrylate	55.000	<1,15	1	00MMG31202
Polymethylmethacrylate	85.000	<1,15	1	000MM15033
Polymethylmethacrylate	100.000	<1,15	1	0MMG070808
Polymethylmethacrylate	190.000	<1,15	1	0000MM9016
Polymethylmethacrylate	210.000	<1,15	1	0000MM5011
Polymethylmethacrylate	250.000	<1,15	1	00MML16111
Polymethylmethacrylate	470.000	<1,15	1	00MM310805
Polymethylmethacrylate	615.000	<1,15	1	000MM16120
Polymethylmethacrylate	1.000.000	<1,15	1	000MM10503
Polymethylmethacrylate	1.300.000	<1,50	1	000MM20120
Polymethylmethacrylate	2.000.000	<1,50	1	00MM100503

Polymethylmethacrylate individual "broad" standards

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Broad Polymethylmethacrylate	20.000	<1,50	1	000MMBR20K
Broad Polymethylmethacrylate	60.000	<1,50	1	0MMB040996
Broad Polymethylmethacrylate	100.000	<1,50	1	0MMBR25072
Broad Polymethylmethacrylate	250.000	<1,50	1	00MMBR4089
Broad Polymethylmethacrylate	2.200.000	<1,50	1	00MMBR5091

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For further information, please contact scharlab@scharlab.com

Dextran individual “narrow” standards. Water soluble (+ additive). Recommended for SUPREME, NOVEMA Max, MCX and PROTEEMA columns.

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Dextran	180	1	1	0000DXTP1
Dextran	342	1	1	000DXTP2-2
Dextran	504	1	1	0000DXTP3
Dextran	1.300	1	1	0000DXT1-3
Dextran	5.000	<2	1	000000DXT5
Dextran	12.000	<1,50	1	00000DXT12
Dextran	25.000	<1,50	1	00000DXT25
Dextran	50.000	<1,50	1	00000DXT50
Dextran	80.000	<1,50	1	00000DXT80
Dextran	150.000	<1,50	1	0000DXT150
Dextran	270.000	<2	1	0000DXT270
Dextran	410.000	<2	1	0000DXT410
Dextran	670.000	<2	1	0000DXT670

Dextran individual broad/branched standards

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Broad/branched Dextran	4.000	>1,50	1	000DXTB4-2
Broad/branched Dextran	10.000	>1,50	1	0000DXTB10
Broad/branched Dextran	40.000	>1,50	1	0000DXTB40
Broad/branched Dextran	70.000	>1,50	1	000DXTB70-2
Broad/branched Dextran	500.000	>1,70	1	000DXTB500
Broad/branched Dextran	1.500.000	>1,70	1	DXTB2000-3
Broad/branched Dextran	3.000.000	>1,70	1	DXTB3800-3
Broad/branched Dextran	17.000.000	>1,70	1	0DXTB10000

Polyethylene oxide individual standards. Soluble in water, DMF, DMAc. Recommended for SUPREME columns

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Polyethylene oxide	42.000	<1,30	1	OPE0130810
Polyethylene oxide	55.000	<1,20	1	OPE0040411
Polyethylene oxide	110.000	<1,15	1	OPE0251011
Polyethylene oxide	180.000	<1,15	1	OPE0040810
Polyethylene oxide	220.000	<1,35	1	OPE0040808
Polyethylene oxide	500.000	<1,30	1	OPE0240412
Polyethylene oxide	1.000.000	<1,50	1	OPE0140307

Polyethylene glycol individual standards. Soluble in water, DMF, DMAc. Recommended for SUPREME columns

Polymer	Molar mass (Da)	PDI	Pack (g)	Art. No.
Polyethylene glycol	62	1	1	000PEGP1-2
Polyethylene glycol P2	106	1	1	000PEGP2-3
Polyethylene glycol P3	150	1	1	000PEGP3-2
Polyethylene glycol P4	194	1	1	000PEGP4-3
Polyethylene glycol P5	232	1	1	000PEGP5-3
Polyethylene glycol P6	282	1	1	000PEGP6-2
Polyethylene glycol	330	<1,25	1	000PEG03-2
Polyethylene glycol	400	<1,25	1	000PEG04-4
Polyethylene glycol	600	<1,25	1	000PEG06-4
Polyethylene glycol	1.000	<1,25	1	00PEG10-4N
Polyethylene glycol	1.500	<1,25	1	000PEG15-3
Polyethylene glycol	2.000	<1,25	1	000PEG20-3
Polyethylene glycol	3.000	<1,25	1	000PEG30-2
Polyethylene glycol	4.000	<1,25	1	000PEG40-3
Polyethylene glycol	6.000	<1,25	1	000PEG60-3
Polyethylene glycol	10.000	<1,25	1	000PEG80-2
Polyethylene glycol	12.000	<1,25	1	00PEG120-2
Polyethylene glycol	18.000	<1,25	1	00PEG160-2
Polyethylene glycol	26.000	<1,25	1	00PEG230-2
Polyethylene glycol	42.000	<1,30	1	00PEG400-3



GPC/SEC calibration kits

PSS

Standard kits include a calibration report using the individual standards, as well as the analytical conditions to create the calibration curve. A quality certificate accompanies each standard with all pertinent analytical parameters and molar mass distribution obtained by GPC. A calibration kit consists of 8 to 12 well-characterized standards of one polymer type.

ReadyCal Standards are polymer cocktails preweighted into auto-sampler vials. Each vial has three or four polymers of the same type with different molar masses. Carefully selected molar masses are placed into each vial so that the polymer traces are baseline separated. A ReadyCal Kit allows you to prepare fast and reproducible 8 to 12 point calibration curve without the mess of weighing the samples. Just add solvent directly into the autosampler vial, let it stand for two hours, shake gently and load into your auto sampler for analysis. Each kit contains 30 autosampler vials (for at least 10 calibration curves) that are color Art. No.d for your convenience. Available in 1,5ml and 4,0ml vials.

Standard Kits



Description	Range (Da)	Pack (u.)	Art. No.
High Polystyrene Kit 12x1,0g	Mp 682-2.520.000	1	OPSKITH-07
Low Polystyrene Kit 8x1,0g	Mp 162-17.600	1	OPSKITL-06
High polymethylmethacrylate Kit 12x0,5g	Mp 102-1.190.000	1	OMMKITH-07
Low polymethylmethacrylate Kit 8x0,5g	Mp 102-18.700	1	OMMKITL-06
Dextran Kit 10x0,5g	Mp 180-277.000	1	ODXTKIT-05
Polyethylene oxide Kit 8x0,5g	Mp 26.100-1.015.000	1	OPEOKIT-07
Polyethylene glycol Kit 10x0,5g	Mp 106-44.000	1	OPEGKIT-05
Protein Kit 10x0,1g	Mw 243-670.000	1	OPROKIT-03

ReadyCal

Description	Range (Da)	Pack (u.)	Art. No.
ReadyCal-Kit PEO/PEG 3x10 Vials-1,5ml	Mp 232-1.015.000	1	PEOKITR110
ReadyCal-Kit PEO/PEG 3x10 Vials-4,0ml	Mp 232-1.015.000	1	PEOKITR409
ReadyCal-Kit Polyethylene glycol 3x10 Vials-1,5ml	Mp 232-44.000	1	PEGKITR105
ReadyCal-Kit Polymethylmethacrylate 3x10 Vials-1,5ml	Mp 800-1.600.000	1	MMKITR106N
ReadyCal-Kit Polymethylmethacrylate 3x10 Vials-4,0ml	Mp 800-1.600.000	1	MMKITR405T
ReadyCal-Kit polystyrene 3x10 Vials-1,5ml	Mp 266-2.520.000	1	PSKITR1-06
ReadyCal-Kit high polystyrene 3x10 Vials-1,5ml	Mp 1.620-7.520.000	1	PSKITR1H04
ReadyCal-Kit high polystyrene 3x10 Vials-4,0ml	Mp 1.620-7.520.000	1	PSKITR4H04
ReadyCal-Kit low polystyrene 3x10 Vials-4,0ml	Mp 266-67.500	1	PSKITR4L02
ReadyCal-Kit low polystyrene 3x10 Vials-1,5ml	Mp 266-66.000	1	PSKITR1L04

For further information, please contact scharlab@scharlab.com

GRADUATED CYLINDERS

Borosilicate glass graduated cylinders, class A, with PE stopper, serialized and certified SCHARLAU

Capacity (ml)	Division (ml)	Tolerance \pm (ml)	Socket	Pack (u.)	Art. No.
10	1/5	0,10	10/19	2	073-201765
25	1/2	0,25	14/23	2	073-201766
50	1/1	0,5	14/26	2	073-201767
100	1/1	0,5	24/29	2	073-201768
250	2/1	1	29/32	2	073-201769
500	5/1	2,5	34/35	1	073-001770
1.000	10/1	5	45/42	1	073-001771

Borosilicate glass graduated cylinders, class A, with pour spout, serialized and certified SCHARLAU


Clear glass

Cap. (ml)	Division (ml)	Tolerance \pm (ml)	Colour grad.	Pack (u.)	Art. No.
10	1/5	0,10	Blue	2	073-201750
25	1/2	0,25	Blue	2	073-201751
50	1/1	0,5	Blue	2	073-201752
100	1/1	0,5	Blue	2	073-201753
250	2/1	1	Blue	2	073-201754
500	5/1	2,5	Blue	1	073-001755
1.000	10/1	5	Blue	1	073-001756



Amber glass

Cap. (ml)	Division (ml)	Tolerance \pm (ml)	Colour grad.	Pack (u.)	Art. No.
10	1/5	0,10	Amber	2	073-201743
25	1/2	0,25	Amber	2	073-201744
50	1/1	0,5	Amber	2	073-201745
100	1/1	0,5	Amber	2	073-201746
250	2/1	1	Amber	2	073-201747
1.000	10/1	5	Amber	1	073-001749

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Blue graduated measuring cylinders, tall form, PMP KARTELL

Material: PMP (TPX®). Crystal clear and resistance up to 170°C. Conforms to ISO 6706 - 1981 (E) and BS 5404 Part 2 1977; totally clear; autoclavable; can be used for liquids up to 170°C.. No wetting; no meniscus; permanent graduations are moulded in for reproducibility. Excellent chemical resistance; pentagonal base for added stability.

Capacity (ml)	Graduation (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	2	0,2	± 0,2	13,5	139	PMP (TPX®)	1	425-002570
25	5	0,5	± 0,5	18,5	195	PMP (TPX®)	1	425-002571
50	10	1	± 1,0	26	199	PMP (TPX®)	1	425-002572
100	10	1	± 1,0	31	249	PMP (TPX®)	1	425-002573
250	20	2	± 2,0	41,5	315	PMP (TPX®)	1	425-002574
500	50	5	± 5,0	55	361	PMP (TPX®)	1	425-002575
1.000	100	10	± 10,0	66	439	PMP (TPX®)	1	425-002576
2.000	200	20	± 20,0	84	531	PMP (TPX®)	1	425-002577



Blue graduated measuring cylinders, tall form, polypropylene KARTELL

Material: clear polypropylene. Pentagonal base. Conforms to ISO 6706 - 1981 (E) and BS 5404 Part 2 1977 with special polypropylene giving very high translucency; autoclavable to 121°C for 20 min; continuous work at 100°C. Permanent graduations are moulded in for reproducibility; no wetting; no meniscus. Excellent chemical resistance; pentagonal base for added stability.

Capacity (ml)	Graduation (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	2	0,2	± 0,2	13,5	140	PP	1	425-002560
25	5	0,5	± 0,5	18	195	PP	1	425-002561
50	10	1	± 1,0	25,5	199	PP	1	425-002562
100	10	1	± 1,0	30,5	249	PP	1	425-002563
250	20	2	± 2,0	41,5	315	PP	1	425-002564
500	50	5	± 5,0	55	361	PP	1	425-002565
1.000	100	10	± 10,0	66	439	PP	1	425-002566
2.000	200	20	± 20,0	84	531	PP	1	425-002567

For further information, please contact scharlab@scharlab.com



Graduated measuring cylinders, low form, PMP KARTELL

Material: PMP (TPX®). Crystal clear and resistance up to 170°C. Conforms to ISO 6706 - 1981 (E) and BS 5404 Part 2 1977; totally clear; autoclavable; can be used for liquids up to 170°C. No wetting; no meniscus; permanent graduations are moulded in for reproducibility. Excellent chemical resistance; pentagonal base for added stability.

Capacity (ml)	Graduation (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	2	0,2	± 0,2	16	87	PMP (TPX®)	1	425-001332
25	5	0,5	± 0,5	22	107	PMP (TPX®)	1	425-001333
50	10	1	± 1,0	29	143	PMP (TPX®)	1	425-001334
100	10	1	± 1,0	34,5	177	PMP (TPX®)	1	425-001335
250	20	2	± 2,0	46	263	PMP (TPX®)	1	425-001336
500	50	5	± 5,0	56	302	PMP (TPX®)	1	425-001337
1.000	100	10	± 10,0	71	331	PMP (TPX®)	1	425-001338
2.000	200	20	± 20,0	92	369	PMP (TPX®)	1	425-001339



Graduated measuring cylinders, low form, polypropylene KARTELL

Material: clear polypropylene. Pentagonal base. Conforms to ISO 6706 - 1981 (E) and BS 5404 Part 2 1977 with special polypropylene giving very high translucency; autoclavable to 121°C for 20 min; continuous work at 100°C. Permanent graduations are moulded in for reproducibility; no wetting; no meniscus. Excellent chemical resistance; pentagonal base for added stability.

Capacity (ml)	Graduation (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	2	0,2	± 0,2	16	88	PP	1	425-000814
25	5	0,5	± 0,5	22	107	PP	1	425-000815
50	10	1	± 1,0	29	143	PP	1	425-000816
100	10	1	± 1,0	34	178	PP	1	425-000817
250	20	2	± 2,0	45,5	264	PP	1	425-000820
500	50	5	± 5,0	55,5	305	PP	1	425-000821
1.000	100	10	± 10,0	70	332	PP	1	425-000822
2.000	200	20	± 20,0	92	370	PP	1	425-000823

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Graduated measuring cylinders, tall form, PMP KARTELL

Material: PMP (TPX®). Crystal clear and resistance up to 170°C. Conforms to ISO 6706 - 1981 (E) and BS 5404 Part 2 1977; totally clear; autoclavable; can be used for liquids up to 170°C.. No wetting; no meniscus; permanent graduations are moulded in for reproducibility. Excellent chemical resistance; pentagonal base for added stability.

Capacity (ml)	Graduation (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	2	0,2	± 0,2	13,5	139	PMP (TPX®)	1	425-001570
25	5	0,5	± 0,5	18,5	195	PMP (TPX®)	1	425-001571
50	10	1	± 1,0	26	199	PMP (TPX®)	1	425-001572
100	10	1	± 1,0	31	249	PMP (TPX®)	1	425-001573
250	20	2	± 2,0	41,5	315	PMP (TPX®)	1	425-001574
500	50	5	± 5,0	55	361	PMP (TPX®)	1	425-001575
1.000	100	10	± 10,0	66	439	PMP (TPX®)	1	425-001576
2.000	200	20	± 20,0	84	531	PMP (TPX®)	1	425-001577



Graduated measuring cylinders, tall form, polypropylene KARTELL

Material: clear polypropylene. Pentagonal base. Conforms to ISO 6706 - 1981 (E) and BS 5404 Part 2 1977. Special polypropylene giving very high translucency; autoclavable to 121°C for 20 min; continuous work at 100°C. Permanent graduations are moulded in for reproducibility; no wetting; no meniscus. Excellent chemical resistance; pentagonal base for added stability.

Capacity (ml)	Graduation (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	2	0,2	± 0,2	13,5	140	PP	1	425-001075
25	5	0,5	± 0,5	18	195	PP	1	425-001077
50	10	1	± 1,0	25,5	199	PP	1	425-001078
100	10	1	± 1,0	30,5	249	PP	1	425-001079
250	20	2	± 2,0	41,5	315	PP	1	425-001080
500	50	5	± 5,0	55	361	PP	1	425-001081
1.000	100	10	± 10,0	66	439	PP	1	425-001082
2.000	200	20	± 20,0	84	531	PP	1	425-001094

For further information, please contact scharlab@scharlab.com



Graduated cylinders, low form, SAN VITLAB

SAN. Low form, transparent, moulded graduations. Class B. Ring marks at the primary scale points, round base, calibrated to contain 'in'. Suitable for contact with foodstuff in accordance with Regulation (EC) No. 10/2011.

Capacity (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
25	0,5	0,5	22	122	SAN	1	309-064091
50	1	1	27	142	SAN	1	309-064191
100	2	2	37	163	SAN	1	309-064291
250	5	5	51	192	SAN	1	309-064391
500	10	10	67	218	SAN	1	309-064491
1.000	20	20	78	285	SAN	1	309-064591



Graduated cylinders, low form, PP VITLAB

Polypropylene (PP). Low form, translucent, moulded graduations. Class B. Ring marks at the primary scale points, round base, calibrated to contain 'in'. Suitable for contact with foodstuff in accordance with Regulation (EC) No. 10/2011.

Capacity (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
25	0,5	0,5	22	122	PP	1	309-640941
50	1	1	27	142	PP	1	309-641941
100	2	2	37	163	PP	1	309-642941
250	5	5	51	192	PP	1	309-643941
500	10	10	67	218	PP	1	309-644941
1.000	20	20	78	285	PP	1	309-645941

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Graduated cylinders, tall form with blue graduations, polypropylene VITLAB

Polypropylene (PP). Tall form. Class B acc. to DIN 12681 / ISO 6706, highly translucent, with ring-moulded graduations, overprinted in blue colour, hexagonal base. Suitable for contact with foodstuff in accordance with Regulation (EC) No. 10/2011.

Capacity (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
10	0,2	0,2	16	140	1	309-646081
25	0,5	0,5	21	169	1	309-647081
50	1,0	1,0	28	199	1	309-648081
100	1,0	1,0	34	260	1	309-649081
250	2,0	2,0	47	315	1	309-650081
500	5,0	5,0	61	350	1	309-651081
1.000	10	10	76	415	1	309-652081
2.000	20	20	97	482	1	309-653081

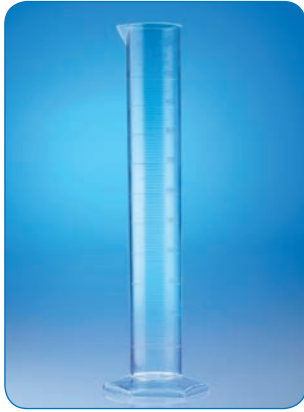


Graduated cylinders, tall form, certified VITLAB

PMP. Tall form, class A acc. to DIN 12681 and ISO 6706, conformity certified, transparent, with hexagonal base and ring-moulded graduations. Accuracy is checked individually and marked with 'H'. With test certificate indicating lot number and year of production, also on the measuring cylinder. Exposure to temperatures up to 121°C (autoclaving) will not cause permanent exceeding to tolerance limits.

Capacity (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	0,2	0,1	15	140	PMP	2	309-064604
25	0,5	0,25	22	169	PMP	2	309-064704
50	1	0,5	27	199	PMP	2	309-064804
100	1	0,5	33	260	PMP	2	309-064904
250	2	1	44	315	PMP	2	309-065004
500	5	2,5	58	350	PMP	1	309-065104
1.000	10	5	69	415	PMP	1	309-065204
2.000	20	10	97	482	PMP	1	309-065304

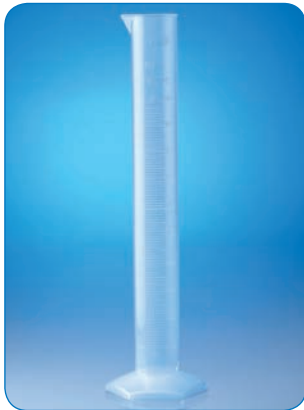
For further information, please contact scharlab@scharlab.com



Graduated cylinders, tall form, PMP VITLAB

PMP. Class A acc. to DIN 12681 and ISO 6706, glass-clear, ring-moulded graduations, hexagonal base. Exposure to temperatures up to 121°C (autoclaving) will not cause permanent exceeding to tolerance limits.

Capacity (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Material	Pack (u.)	Art. No.
10	0,2	0,1	16	140	PMP	1	309-064695
25	0,5	0,25	21	169	PMP	1	309-064795
50	1	0,5	28	199	PMP	1	309-064895
1.000	10	5	76	415	PMP	1	309-065295
2.000	20	10	97	482	PMP	1	309-065395



Graduated cylinders, tall form, polypropylene VITLAB

Polypropylene (PP). Tall form. Class B acc. to DIN 12681 / ISO 6706, translucent, ring-moulded graduations, hexagonal base. Suitable for contact with foodstuff in accordance with Regulation (EC) No. 10/2011.

Capacity (ml)	Subdivision (ml)	Tolerance (ml)	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
10	0,2	0,2	16	140	1	309-646941
25	0,5	0,5	21	169	1	309-647941
50	1	1	28	199	1	309-648941
100	1	1	34	260	1	309-649941
250	2	2	47	315	1	309-650941
500	5	5	61	350	1	309-651941
1.000	10	10	76	415	1	309-652941
2.000	20	20	97	482	1	309-653941

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GROUND JOINT GLASSWARE

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GROUND JOINT GLASSWARE: Adapters



75° adapter cone/cone
SCHARLAU

Cone	Pack (u.)	Art. No.
2x14/23	1	073-000698
2x29/32	1	073-000699



Straight adapter for cone/stirrer guide
SCHARLAU

Cone	Pack (u.)	Art. No.
19/26	1	073-000405
29/32	1	073-000406

For further information, please contact scharlab@scharlab.com



Receiver adapter angled at 105°
SCHARLAU

Socket	Pack (u.)	Art. No.
14/23	1	073-000214
29/32	1	073-000215
45/40	1	073-000216



75° distillation adapter with thread for a thermometer
SCHARLAU

Cone	Cone	Thread GL	Pack (u.)	Art. No.
14/23	14/23	GL14	1	073-000235
29/32	29/32	GL14	1	073-000236



Still head angled for distillation at 75°
SCHARLAU

Cone	Socket	Cone	Pack (u.)	Art. No.
14/23	14/23	14/23	1	073-000229
29/32	14/23	29/32	1	073-000230
29/32	29/32	29/32	1	073-000231
19/26	14/23	19/26	1	073-000232



Adapter with two necks angled at 105°
SCHARLAU

Cone	Socket	Cone	Pack (u.)	Art. No.
14/23	14/23	14/23	1	073-000240
29/32	29/32	29/32	1	073-000241

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Still head, plain, sloping
SCHARLAU

Cone	Socket	Cone	Pack (u.)	Art. No.
14/23	14/23	14/23	1	073-000244
29/32	14/23	29/32	1	073-000245


Parallel neck adapter
SCHARLAU

Cone	Central socket	Socket	Pack (u.)	Art. No.
14/23	14/23	14/23	1	073-000219
29/32	14/23	29/32	1	073-000220
29/32	29/32	29/32	1	073-000221


Claisen still head
SCHARLAU

Cone	Central cone	Socket	Pack (u.)	Art. No.
2-14/23	14/23	14/23	1	073-000248
2-19/26	14/23	19/26	1	073-000249
2-29/32	29/32	29/32	1	073-000250


Vertical recovery still head
SCHARLAU

Cone	Length (mm)	Pack (u.)	Art. No.
2-14/23	160	1	073-000193
2-29/32	235	1	073-000194

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Adapters socket/cone
SCHARLAU


Cone	Socket	Pack (u.)	Art. No.
29/32	29/32	1	073-000694



Cone	Socket	Pack (u.)	Art. No.
14/23	14/23	1	073-000695



Cone	Socket	Pack (u.)	Art. No.
14/23	19/26	1	073-000585
14/23	29/32	1	073-000587
19/26	29/32	1	073-000591
24/29	29/32	1	073-000593
29/32	45/40	1	073-000596
19/26	14/23	1	073-000598
29/32	14/23	1	073-000600
45/40	14/23	1	073-000602
29/32	19/26	1	073-000604
45/40	29/32	1	073-000609
55/44	45/40	1	073-000610



Cone	Socket	Pack (u.)	Art. No.
29/32	29/32	1	073-000252
14/23	14/23	1	073-140252



Cone	Socket	Pack (u.)	Art. No.
14/23	14/23	1	073-000206
29/32	29/32	1	073-000207



Cone	Socket	Pack (u.)	Art. No.
19/26	19/26	1	073-000199
14/23	14/23	1	073-000200
29/32	29/32	1	073-000201

→ Continued on the next page

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Cone	Socket	Pack (u.)	Art. No.
14/23	14/23	1	073-000197
29/32	29/32	1	073-000198

Adapters socket/tubing SCHARLAU



Art. No. 073-000664
to 073-000668



Art. No. 073-000654
to 073-000658



Art. No. 073-000217
to 073-000218

Socket	Olive (mm)	Pack (u.)	Art. No.
14/23	8	1	073-000664
19/26	8	1	073-000665
29/32	10	1	073-000667
45/40	12	1	073-000668
14/23	8	1	073-000654
19/26	8	1	073-000655
29/32	10	1	073-000657
45/40	12	1	073-000658
14/23	8	1	073-000217
29/32	10	1	073-000218



Adapters with glass stopcock and hose connection SCHARLAU

Ground joint	Bore (mm)	Pack (u.)	Art. No.
14/23 socket	2/3	1	073-000674
19/26 socket	4/5	1	073-000675
29/32 socket	6/7	1	073-000677
29/32 socket	7/8	1	073-000678
14/23 cone	2/3	1	073-000669
19/26 cone	4/5	1	073-000670
29/32 cone	6/7	1	073-000672
29/32 cone	7/8	1	073-000673

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GROUND JOINT GLASSWARE



Angled adapters cone/tubing
SCHARLAU

Cone	Olive (mm)	Pack (u.)	Art. No.
14/23	8	1	073-000649
19/26	8	1	073-000650
29/32	10	1	073-000652
24/29	8	1	073-000646
45/40	12	1	073-000653
14/23	8	1	073-000639
19/26	8	1	073-000640
29/32	10	1	073-000642
45/40	12	1	073-000643



Cone adapters with GL thread, for thermometers, complete
SCHARLAU

Cone	Ø (mm)	Pack (u.)	Art. No.
14/23	GL 14 from 5,5 to 7mm	1	073-000619
19/26	GL 14 from 5,5 to 7mm	1	073-000620
29/32	GL 18 from 7,5 to 9mm	1	073-000622
29/32	GL 25 from 9,5 to 11mm	1	073-000623
45/40	GL 25 from 11,5 to 13mm	1	073-000624



Straight adapters without stopper with screw thread
SCHARLAU

Cone	Ø (mm)	Pack (u.)	Art. No.
14/23	GL14	1	073-000626
19/26	GL14	1	073-000627
29/32	GL18	1	073-000629
29/32	GL25	1	073-000630
45/40	GL25	1	073-000631



Straight adapter cone/cup joint
SCHARLAU

Ground joints	Spherical socket	Pack (u.)	Art. No.
14/23 C	19/09	1	073-000611
14/23 C	29/15	1	073-000612
29/32 C	35/21	1	073-000613
45/40 C	51/31	1	073-000614

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Straight adapters socket/ball joint SCHARLAU

Ground joints	Spherical cone	Pack (u.)	Art. No.
14/23 S	19/09	1	073-000615
14/23 S	29/15	1	073-000616
29/32 S	35/21	1	073-000617
45/40 S	51/31	1	073-000618



Kjeldahl trap splash head adapter with bent stem SCHARLAU

Ground joints	Spherical socket	Pack (u.)	Art. No.
29/32 C	29/15	1	073-000258

GROUND JOINT GLASSWARE: Bottles



Cylindrical bottles with socket SCHARLAU

Capacity (ml)	Socket	Pack (u.)	Art. No.
50	14/23	1	073-000856
100	14/23	1	073-000857
100	29/32	1	073-000858
250	14/23	1	073-000859
250	29/32	1	073-000860
500	29/32	1	073-000861
1.000	29/32	1	073-000862
2.000	29/32	1	073-000863
2.000	45/40	1	073-000864
3.000	45/40	1	073-000865
5.000	45/40	1	073-000866
10.000	45/40	1	073-000867

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**Winkler bottles for chemical oxygen demand determination
SCHARLAU**

Cap. (ml)	Socket	Pack (u.)	Art. No.
250	29/32	1	073-000877
300	29/32	1	073-000878



**Gas washing bottles of 125ml with SVL thread and porosity no. 1
SCHARLAU**

Description	Thread	Pack (u.)	Art. No.
Complete	-	1	073-000916
Bottle of 125ml	SVL 30	1	073-887SVL
Head	-	1	073-917S/1
SVL 30 stopper	SVL 30	1	073-701-43
SVL 30 washer	-	1	073-701-26



**Gas washing bottles of 250ml with SVL thread and porosity no. 1
SCHARLAU**

Description	Thread	Pack (u.)	Art. No.
Complete	-	1	073-000918
Bottle of 250ml	SVL 30	1	073-890SVL
Head	-	1	073-917S/2
SVL 30 stopper	SVL 30	1	073-701-43
SVL 30 washer	-	1	073-701-26



**Gas washing bottles of 500ml with SVL thread and porosity no. 1
SCHARLAU**

Description	Thread	Pack (u.)	Art. No.
Complete	-	1	073-000908
Bottle of 500ml	SVL 30	1	073-873SVL
Head	-	1	073-000909
SVL 30 stopper	SVL 30	1	073-701-43
SVL 30 washer	-	1	073-701-26

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Gas washing bottles of 125ml with SVL thread SCHARLAU

Description	Thread	Pack (u.)	Art. No.
Complete	-	1	073-000904
Bottle of 125ml	SVL 30	1	073-887SVL
Head	-	1	073-000905
SVL 30 stopper	SVL 30	1	073-701-43
SVL 30 washer	-	1	073-701-26



Gas washing bottles of 250ml with SVL thread SCHARLAU

Description	Thread	Pack (u.)	Art. No.
Complete	-	1	073-000906
Bottle of 250ml	SVL 30	1	073-890SVL
Head	-	1	073-000907
SVL 30 stopper	SVL 30	1	073-701-43
SVL 30 washer	-	1	073-701-26



Gas washing bottles of 125ml jointed glass connections SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000886
Bottle of 125ml	-	29/32	1	073-000887
Head with nozzles of 19mm	29/32	-	1	073-000888



Gas washing bottles of 250ml jointed glass connections SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000889
Bottle of 250ml	-	29/32	1	073-000890
Head with nozzles of 19mm	29/32	-	1	073-000891

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Gas washing bottles of 500ml jointed glass connections
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000892
Bottle of 500ml	-	29/32	1	073-000893
Head with nozzles of 19mm	29/32	-	1	073-000894



Gas washing bottles (flasks) of 500ml
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000945
Flat bottom flask 500ml	-	29/32	1	073-000048
Head	29/32	-	1	073-000946



Gas washing bottles (flasks) of 1000ml
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000947
Flat bottom flask 1.000ml	-	29/32	1	073-000049
Head	29/32	-	1	073-000948



Muencke gas washing bottle with jointed glass connections
SCHARLAU

Description	Pack (u.)	Art. No.
Bottle of 100ml	1	073-000936

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GROUND JOINT GLASSWARE: Condensers

Allihn condenser with ground cone and socket
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C/S-14/23	200	1	073-000446
C/S-29/32	200	1	073-000447
C/S-29/32	300	1	073-000449
C/S-29/32	500	1	073-000451


Condenser with spherical joint for Kjeldahl assembly
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
S-29/15	250	1	073-000436


Air condenser, socket
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
S-14/23	500	1	073-000413
S-14/23	1.000	1	073-000414
S-29/32	1.000	1	073-000415

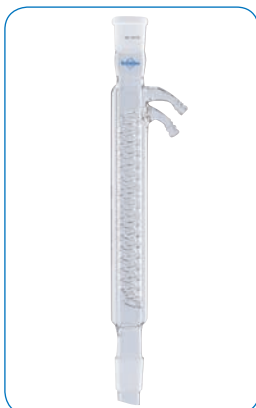

Air condenser, cone
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C-14/23	500	1	073-000410
C-14/23	1.000	1	073-000411
C-29/32	1.000	1	073-000412



Liebig condenser for Dean Stark apparatus
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C-29/33	400	1	073-000434



Dimroth coated condenser
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C/S-29/32	300	1	073-000481



Dimroth condensers for Soxhlet extractor
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C-29/32	150	1	073-000478
C-45/40	200	1	073-000479
C-55/50	200	1	073-000480



Dimroth condensers with cone and socket
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C/S-14/23	150	1	073-000473
C/S-14/23	200	1	073-000474
C/S-29/32	200	1	073-000475
C/S-29/32	250	1	073-000476
C/S-29/32	300	1	073-000477
C/S-29/32	400	1	073-0162/4

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Graham coil condenser with cone and socket
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C/S-14/23	200	1	073-000466
C/S-14/23	250	1	073-000467
C/S-14/23	300	1	073-000468
C/S-29/32	300	1	073-000469
C/S-14/23	300	1	073-00469R


Liebig West condensers with ground joints
SCHARLAU

Ground joints	Usable length (mm)	Pack (u.)	Art. No.
C/S-14/23	120	1	073-000425
C/S-14/23	200	1	073-000426
C/S-14/23	250	1	073-000427
C/S-14/23	300	1	073-000428
C/S-29/32	250	1	073-000429
C/S-29/32	300	1	073-000430
C/S-29/32	400	1	073-000431
C/S-29/32	500	1	073-000432
C/S-29/32	600	1	073-000433

GROUND JOINT GLASSWARE: Glassware apparatus

Dean-Stark glass apparatus 10ml
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete equipment	-	-	1	073-000714
10ml collector 1-10	29/32	29/32	1	073-0714/1
Refrig. Dean-Stark 40cm	29/32	-	1	073-000434
Spherical flask 500ml	-	29/32	1	073-000009


Dean-Stark glass apparatus with glass stopcock 25ml
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete equipment	-	-	1	073-000715
Manifold with glass stopcock 25ml	29/32	29/32	1	073-0715/1
Refrig. Dean-Stark 40cm	29/32	-	1	073-000434
Spherical flask 500ml	-	29/32	1	073-000009



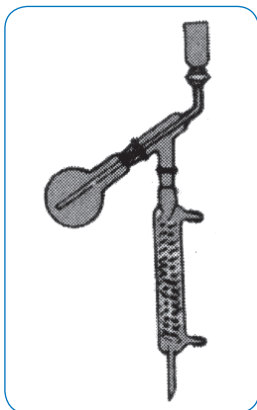
Dean-Stark glass apparatus with needle stopcock 25ml
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete equipment	-	-	1	073-000716
Manifold with key punch 25ml	29/32	29/32	1	073-0716/1
Refrig. Dean-Stark 40cm	29/32	-	1	073-000434
Spherical flask 500ml	-	29/32	1	073-000009



Kuderna-Danish glass apparatus (condenser-evaporator)
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-001167
Collector grad. 10ml	-	19/26	1	073-1167/1
Flask pear shaped	19/26	19/26	1	073-001168
Snyder Column	19/26	19/26	1	073-001169



Ledeburg glass apparatus for arsenic determination in iron
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000797
Spherical flask 500ml	29/32	-	1	073-000009
Coil condenser	-	14/23	1	073-0460/1
Piece with charge funnel	29/32-14/23	-	1	073-000798



Glass apparatus for arsenic determination
SCHARLAU

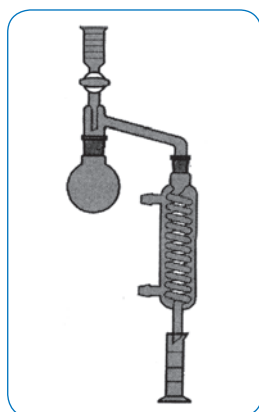
Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000960
Erlenmeyer flask 100ml	-	24/29	1	073-000961
U tube	R-13/15	-	1	073-000962
Central piece	24/29	R-13/15	1	073-000963
Swivel clamp 13/5	13/5	-	1	0191040913

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Glass apparatus for arsenic determination by Gutzeit method
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-001190
Erlenmeyer flask 250ml	-	29/32	1	073-000140
Central piece	29/32	-	1	073-001191
Upper deck	-	-	1	073-001192



Glass apparatus for volatile acidity determination in wines
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-001171
Spherical flask 60ml	-	14/23	1	073-001172
Piece with funnel 24ml	2x14/23	-	1	073-001173
Coolant 10cm useful	-	14/23	1	073-001174
24ml measuring cylinder with 4 gauging	-	-	1	073-001175

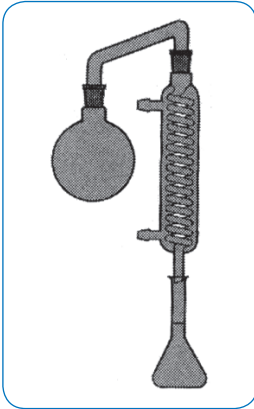
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GROUND JOINT GLASSWARE

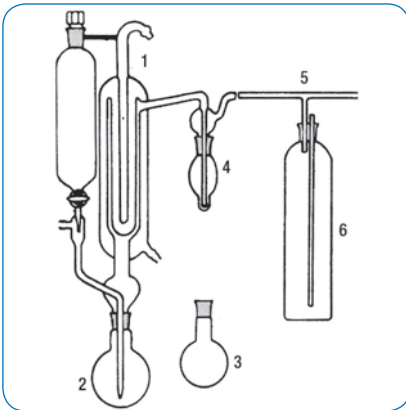
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Glass apparatus for determination of alcoholic grade in wines
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-001170
Spherical flask 1.000ml	-	29/32	1	073-000010
Double elbow	2x29/32	-	1	073-000194
Coolant 30cm	-	29/32	1	073-0460/1
200ml volumetric flask	-	-	1	073-001616


Paul glass apparatus for determination of dioxides in wines and musts
SCHARLAU

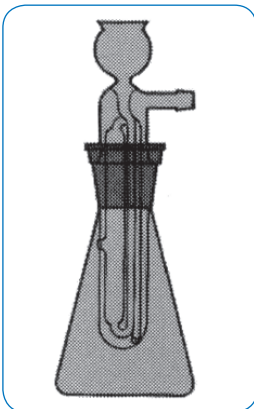
Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-0Q2626

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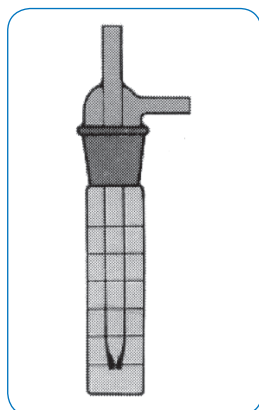
Description	Cone	Socket	Pack (u.)	Art. No.
Central piece (fig.1)	29/32	-	1	073Q2626/1
Round bottom flask 250ml (fig.2)	-	29/32	1	073Q2626/2
Round bottom flask 100ml (fig.3)3	-	29/32	1	073Q2626/3
Oval flask (fig.4)	-	-	1	073Q2626/4
T tube and straight tube (fig.5)	-	-	1	073Q2626/5
90mm bottle, Øx250mm height and cap (fig.6)	-	-	1	073Q2626/6


Glass apparatus for saponification indices
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000969
Flat bottom flask 250ml	-	29/32	1	073-000042
Air cooler 1.000ml	29/32	-	1	073-000412

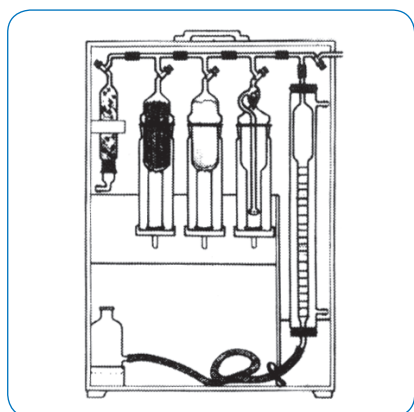

Strohlein glass apparatus for sulfur in iron
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-001177
Load piece	45/40	-	1	073-001178
Erlenmeyer flask 1.000ml	-	45/40	1	073-000145



Impinger glass apparatus SCHARLAU

Description	Capacity (ml)	Cone	Socket	Pack (u.)	Art. No.
Complete	30	-	-	1	073-001196
Graduated tube	30	-	24/29	1	073-001197
Head	30	24/29	-	1	073-001198
Complete	275	-	-	1	073-001199
Graduated tube	275	-	45/40	1	073-001200
Head	275	45/40	-	1	073-001201



Orsat glass apparatus SCHARLAU

Description	Pack (u.)	Art. No.
Complete	1	073-001179
Burette 0,50-100ml class A	1	073-001180
Burette casing	1	073-001181
Piece for exterior gas expulsion	1	073-001182
Tube filter with tap for taking samples	1	073-001183
Metal support	1	073-001184
Contact chamber with copper coils	1	073-001185
Bubbling chamber	1	073-001186
Contacted chamber	1	073-001187
Level flask + latex tube + Mohr Clamp	1	073-001188
Adapter tapered fit to olive	1	073-000644
Lower glass (3 units)	1	073-001189



Schroedter glass apparatus for carbonic acid determination SCHARLAU

Description	Pack (u.)	Art. No.
Complete	1	073-001176

For further information, please contact scharlab@scharlab.com

GROUND JOINT GLASSWARE: Homogenizers
Cylindrical glass homogenizer, PTFE piston and glass tube
SCHARLAU


Tube



Piston

Cap. (ml)	Total length (mm)	Piston	Pack (u.)	Art. No.
2	230	8x120	1	073-000970
5	235	12x135	1	073-000971


Cylindrical glass homogenizer, piston and glass tube
SCHARLAU

Cap. (ml)	Total length (mm)	Piston	Pack (u.)	Art. No.
1	95	5x145	1	073-000972
5	140	6x205	1	073-000973
45	220	10x315	1	073-000974

GROUND JOINT GLASSWARE: Pycnometers

Glass pycnometer with thermometer scale 10-35°C
SCHARLAU

- According to ISO 3507.
- Capacity adjustment recorded in the pycnometer.
- Frosted thermometer 10/19.
- Frosted lateral capillary 7/16.
- Conformity certified.
- 3.3 borosilicate glass material.

Cap. (ml)	Pack (u.)	Art. No.
25	1	073-000998
50	1	073-640028
100	1	073-640037

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Gay-Lussac glass pycnometers for liquids SCHARLAU

- According to ISO 3507.
- Capacity adjustment recorded in the pycnometer.
- Conformity certified.
- Frosted plug 10/19 with capillary.
- 3.3 borosilicate glass material.

Cap. (ml)	Pack (u.)	Art. No.
10	1	073-000986
25	1	073-000987
50	1	073-000988
100	1	073-000989



Renault glass pycnometers for solids SCHARLAU

Cap. (ml)	Ground joints	Pack (u.)	Art. No.
10	14/15	1	073-000990
25	14/15	1	073-000991
50	19/26	1	073-000992
100	19/26	1	073-000993

GROUND JOINT GLASSWARE: Rotary evaporator spare parts



Pear-shaped evaporator flasks SCHARLAU

Cap. (ml)	Socket	Equiv. to Büchi	Equiv. to Heidolph	Pack (u.)	Art. No.
50	NS 29/32	000431	-	1	073-000053
100	NS 29/32	000432	514-71000-00	1	073-000054
250	NS 29/32	000433	514-72000-00	1	073-000055
500	NS 29/32	000434	514-73000-00	1	073-000056
1.000	NS 29/32	000435	514-74000-00	1	073-000057
2.000	NS 29/32	000436	514-75000-00	1	073-572000



Receiving flasks, round bottom, spherical joint SCHARLAU

Cap. (ml)	Socket	Equiv. to Büchi	Equiv. to Heidolph	Pack (u.)	Art. No.
500	S 35/20	000424	514-83000-00	1	073-000025
1.000	S 35/20	000425	514-84000-00	1	073-000027
2.000	S 35/20	000426	514-85000-00	1	073-102000
3.000	S 35/20	000427	514-86000-00	1	073-103000


Pear-shaped evaporator flasks for Pauly multiflask receiver adapter
SCHARLAU

Cap. (ml)	Socket	Equiv. to Büchi	Pack (u.)	Art. No.
50	NS 24/29	000472	1	073-BH0007
100	NS 24/29	000473	1	073-BH0008


Cylindrical flasks for multiflask receiver adapter
SCHARLAU

Cap. (ml)	Socket	Equiv. to Büchi	Pack (u.)	Art. No.
20	NS 14,5/23	000477	1	073-BH0015


Vapor ducts for Büchi R-210/215
SCHARLAU

Cone	Equiv. to Büchi	Pack (u.)	Art. No.
NS24/29	46964	1	073-B00001


Pauly multiflask receiver adapters, complete with 5 flasks
SCHARLAU

Cap. (ml)	Cone	Socket	Equiv. to Büchi	Equiv. to Heidolph	Pack (u.)	Art. No.
50	5xNS 24/29	NS 29/32	001332	15-300-005-04	1	073-BH0003
100	5xNS 24/29	NS 29/32	001333	15-300-005-07	1	073-BH0004

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Multiflask receiver adapter for cylindrical flasks, complete
SCHARLAU

Cap. (ml)	Cone	Socket	Equiv. to Büchi	Equiv. to Heidolph	Pack (u.)	Art. No.
6x20	6xNS 14,5/23	NS 29/32	001334	15-300-005-09	1	073-BH0009
12x20	12xNS 14,5/23	NS 29/32	001335	15-300-005-10	1	073-BH0010
20x20	20xNS 14,5/23	NS 29/32	001336	15-300-005-11	1	073-BH0011


Pauly multiflask receiver adapter for 5 flasks
SCHARLAU

Cone	Socket	Pack (u.)	Art. No.
5xNS 24/29	NS 29/32	1	073-BH0005


Multiflask receiver adapter for cylindrical flasks
SCHARLAU

Cone	Socket	Pack (u.)	Art. No.
6xNS 14,5/23	NS 29/32	1	073-BH0012
12xNS 14,5/23	NS 29/32	1	073-BH0013
20xNS 14,5/23	NS 29/32	1	073-BH0014


Vacuum stopcock for Büchi and Heidolph
SCHARLAU

Cone	Equiv. to Büchi	Equiv. to Heidolph	Pack (u.)	Art. No.
NS 18,8/38	40627	514.51000.01	1	073-BH0021

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Receiver adapter for 4 flasks
SCHARLAU

Cone	Socket	Pack (u.)	Art. No.
4x14/23	29/32	1	073-000494



Pig receiver adapter for 2 flasks, with vacuum connection
SCHARLAU

Cone	Socket	Pack (u.)	Art. No.
2x14/23	14/23	1	073-000490
2x14/23	29/32	1	073-000491



Pig receiver adapter for 3 flasks, with vacuum connection
SCHARLAU

Cone	Socket	Pack (u.)	Art. No.
3x14/23	14/23	1	073-000492
3x14/23	29/32	1	073-000493

GROUND JOINT GLASSWARE: Soxhlet extractors



Complete Soxhlet extractor of 50ml
SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000727
Extractor piece 50ml	19/26	29/32	1	073-000728
Dimroth condenser 150mm useable height	29/32	14/23	1	073-000478
Flat bottom flask 100ml	-	19/26	1	073-000038



Complete Soxhlet extractor of 125ml SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000729
Extractor piece 125ml	29/32	45/40	1	073-000730
Dimroth condenser 200mm useable height	45/40	14/23	1	073-000479
Flat bottom flask 250ml	-	29/32	1	073-000042



Complete Soxhlet extractor of 250ml SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000731
Extractor piece 250ml	29/32	55/50	1	073-000732
Dimroth condenser 200mm useable height	55/50	14/23	1	073-000480
Flat bottom flask 500ml	-	29/32	1	073-000043



Complete Soxhlet extractor of 500ml SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-731500
Extractor piece 500ml	29/32	55/50	1	073-005732
Dimroth condenser 150mm useable height	55/50	14/23	1	073-000480
Flat bottom flask 1.000ml	-	-	1	073-000044



Complete Soxhlet extractor of 2000ml SCHARLAU

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000736
Extractor piece 2000ml	45/40	-	1	073-000737
Double coil coolant, 60cm length	45/40	45/40	1	073-000472
Round bottom flask 4000ml	-	45/40	1	073-000016
Clamp	-	-	1	073-000192
Lid with flat ground joint	-	45/40	1	073-000738

For further information, please contact scharlab@scharlab.com


**Universal extractor
SCHARLAU**

Description	Cone	Socket	Pack (u.)	Art. No.
Complete	-	-	1	073-000745
Flat bottom flask 250ml	-	29/32	1	073-000042
Dimroth condenser 200mm length	45/40	14/23	1	073-000479
Central body capsule holder	29/32	45/40	1	073-000746
50ml capsule. Constant level	-	-	1	073-000747
50ml capsule. Lower output	-	-	1	073-000748
50ml capsule. With siphon	-	-	1	073-000749
50ml capsule. With diffusor funnel	-	-	1	073-000750


**Filter crucibles with sintered disk porosity 2
SCHARLAU**

Description	Ø ext.xH (mm)	Cap. (ml)	Pack (u.)	Art. No.
Filter crucibles 50ml	24x70	20	1	073-000733
Filter crucibles 125ml	40x90	75	1	073-000734
Filter crucibles 250ml	44x130	170	1	073-000735

GROUND JOINT GLASSWARE: Stopcocks

**Conical glass stopcocks with cone and socket
SCHARLAU**

Socket	Cone	Ø bore (mm)	Pack (u.)	Art. No.
14/23	14/23	2,5	1	073-000260
19/26	19/26	4	1	073-000261
29/32	29/32	6	1	073-000262


**Glass stopcocks for flasks (barrel type)
SCHARLAU**

Ø bore (mm)	Ø external stem (mm)	Pack (u.)	Art. No.
2	8	1	073-001010
4	10	1	073-001011
6	12	1	073-001012
8	13	1	073-001013
10	14	1	073-001014

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Two way glass stopcocks
 SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Pack (u.)	Art. No.
2	7	1	073-001015
4	9	1	073-001016


Two way PTFE conical stopcocks
 SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Pack (u.)	Art. No.
2,5	7	1	073-1015TF
4	9	1	073-1016TF


Three way glass stopcocks with hose connections
 SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Pack (u.)	Art. No.
2	7	1	073-001019
4	10	1	073-001020


Three way glass stopcocks
 SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Pack (u.)	Art. No.
2	7	1	073-001017
4	9	1	073-001018


Three way PTFE stopcocks
 SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Pack (u.)	Art. No.
2	14,5	1	073-1017TF
4	24	1	073-1018TF


Glass stopcocks with two hose connections
 SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Stem length (mm)	Pack (u.)	Art. No.
2	8	60	1	073-001006
4	10	60	1	073-001007
6	10	70	1	073-001008
8	12	70	1	073-001009

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Conical glass stopcocks
SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Stem length (mm)	Pack (u.)	Art. No.
2	8	70	1	073-001001
4	10	70	1	073-001002
6	12	100	1	073-001003
8	13	100	1	073-001004
10	14	110	1	073-001005



PTFE conical stopcocks
SCHARLAU

Ø bore (mm)	Ø external stem (mm)	Stem length (mm)	Pack (u.)	Art. No.
2	8	70	1	073-1001TF
4	10	90	1	073-1002TF
6	12	100	1	073-1003TF
8	13	100	1	073-1004TF
10	14	110	1	073-1005TF



Stopcock, high vacuum, right angle, lower limb vertical, hollow glass plug
SCHARLAU

Ø bore (mm)	Ø external olives (mm)	Pack (u.)	Art. No.
6	10	1	073-001027
8	12	1	073-001028



Stopcock with vacuum chamber, right or left angle, lower limb vertical, hollow glass plug
SCHARLAU

Ø bore (mm)	Ø external olives (mm)	Pack (u.)	Art. No.
6	10	1	073-001023
8	12	1	073-001024



Stopcock, high vacuum, right or left angle, lower limb vertical, hollow glass plug
SCHARLAU

Ø bore (mm)	Ø external olives (mm)	Pack (u.)	Art. No.
6	10	1	073-001025
8	12	1	073-001026

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Stopcock, high vacuum, straight bore
SCHARLAU

Ø bore (mm)	Ø external olives (mm)	Pack (u.)	Art. No.
5	8/9	1	073-001033
8	12/13	1	073-001032

GROUND JOINT GLASSWARE: Stoppers

Hexagonal glass stoppers
SCHARLAU

Cone	Pack (u.)	Art. No.
7/16	1	073-007/16
10/19	1	073-001043
12/21	1	073-001044
14/23	1	073-001045
19/26	1	073-001046
24/29	1	073-001047
29/32	1	073-001048
34/35	1	073-001049
45/40	1	073-001050
7/16	10	073-107/16
10/19	10	073-101043
12/21	10	073-101044
14/23	10	073-101045
19/26	10	073-101046
24/29	10	073-101047
29/32	10	073-101048
34/35	10	073-101049
45/40	10	073-101050


Hexagonal glass stoppers with drip tip
SCHARLAU

Cone	Pack (u.)	Art. No.
14/23	1	073-001051
19/26	1	073-001052
24/29	1	073-001053
29/32	1	073-001054
40/45	1	073-001055

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Hexagonal polyethylene stoppers
SCHARLAU

Cone	Pack (u.)	Art. No.
7/16	1	073-0716P
10/19	1	073-001064
12/21	1	073-001065
14/23	1	073-001066
19/26	1	073-001067
24/29	1	073-001068
29/32	1	073-001069
45/40	1	073-001075
7/16	10	073-10716P
10/19	10	073-101064
12/21	10	073-101065
14/23	10	073-101066
19/26	10	073-101067
24/29	10	073-101068
29/32	10	073-101069
45/40	10	073-101075



Socket hollow cap style glass stoppers
SCHARLAU

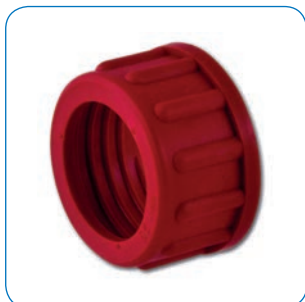
Socket	Pack (u.)	Art. No.
10/19	1	073-001056
12/21	1	073-001057
14/23	1	073-001058
19/26	1	073-001059
24/29	1	073-001060
29/32	1	073-001061



Bell-shaped glass stopper for Tecator tube
SCHARLAU

Description	Pack (u.)	Art. No.
Bell-shaped glass stopper for Tecator tube	1	073-001363

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Connecting caps SCHARLAU

Screw joints.

Thread	Pack (u.)	Art. No.
NS 14	10	0028621500
NS 19	10	0028621520
NS 24	10	0028621530
NS 29	10	0028621540
NS 45	10	0028621570



Sealing caps with PTFE disk SCHARLAU

Thread	Pack (u.)	Art. No.
NS 14	10	0028621420
NS 19	10	0028621430
NS 24	10	0028621440
NS 29	10	0028621450
NS 45	10	0028621470



Loosening ring SCHARLAU

Thread	Pack (u.)	Art. No.
NS 14	10	0028621640
NS 19	10	0028621690
NS 24	10	0028621710
NS 29	10	0028621660
NS 45	10	0028621670



Nitrile O-Ring SCHARLAU

Thread	Pack (u.)	Art. No.
NS 14	10	0028621680
NS 19	10	0028621700
NS 24	10	0028621720
NS 29	10	0028621740
NS 45	10	0028621770

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Rubber stoppers meeting DIN 12 871 2 DEUTSCH & NEUMANN

Stoppers according to DIN 12 871 2.

Solid black rubber stoppers, hardness 50 Shore A

Ø inf. (mm)	Ø sup. (mm)	Height (mm)	Pack (u.)	Art. No.
5	9	20	100	0001010305
8	12	20	100	0001010308
10,5	14,5	20	100	0001010310
12,5	16,5	20	100	0001010312
14	18	20	100	0001010314
17	22	25	100	0001010317
18	24	30	100	0001010318
21	27	30	100	0001010321
23	29	30	100	0001010323
26	32	30	100	0001010326
29	35	30	100	0001010329
31	38	35	100	0001010331
36	44	40	100	0001010336

Solid silicone stoppers (VMQ), transparent, hardness 50 Shore A

Ø inf. (mm)	Ø sup. (mm)	Height (mm)	Pack (u.)	Art. No.
5	9	20	1	1010505DAN
8	12	20	1	1010508DAN
10,5	14,5	20	1	1010510DAN
12,5	16,5	20	1	1010512DAN
14	18	20	1	1010514DAN
17	22	25	1	1010517DAN
18	24	30	1	1010518DAN
21	27	30	1	1010521DAN
23	29	30	1	1010523DAN
26	32	30	1	1010526DAN
29	35	30	1	1010529DAN
31	38	35	1	1010531DAN
36	44	40	1	1010536DAN

Grey solid rubber stoppers, hardness 40 Shore A

Ø inf. (mm)	Ø sup. (mm)	Height (mm)	Pack (u.)	Art. No.
5	9	20	1	1010105DAN
8	12	20	1	1010108DAN
10,5	14,5	20	1	1010110DAN
12,5	16,5	20	1	1010112DAN
14	18	20	1	1010114DAN
17	22	25	1	1010117DAN
18	24	30	1	1010118DAN
21	27	30	1	1010121DAN
23	29	30	1	1010123DAN
26	32	30	1	1010126DAN
29	35	30	1	1010129DAN
31	38	35	1	1010131DAN

GROUND JOINT GLASSWARE: Traps

Jacketed cold trap with PTFE needle stopcock
SCHARLAU

Cone	Socket		Pack (u.)	Art. No.
29/32	29/32	With jacketed	1	073-001231
29/32	29/32	Without jacketed	1	073-001232


Cold trap jacketed
SCHARLAU

Cone	Socket	Usable measurement (mm)	Pack (u.)	Art. No.
29/32	29/32	1.200x80 (extern Ø) x 44mm (intern Ø)	1	073-1231/1


Cold traps with hose connections
SCHARLAU

Length (mm)	Ø External (mm)	Pack (u.)	Art. No.
125	24	1	073-001225
175	40	1	073-001226

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HPLC: COLUMNS AND ACCESSORIES

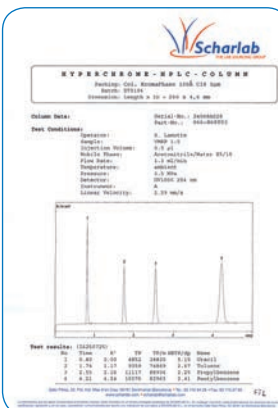
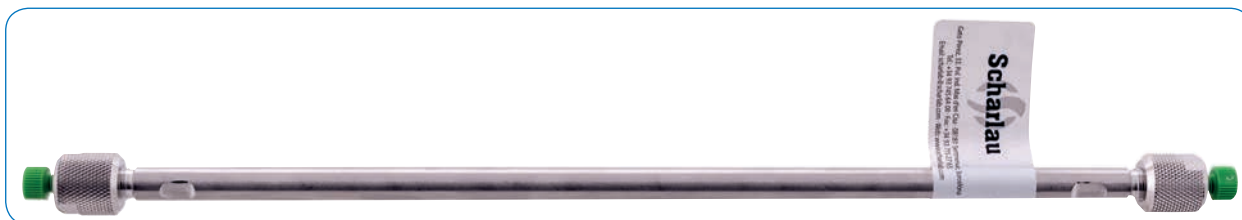
- Columns for HPLC and LC/MS Scharlau, *page 593*
- Columns for HPLC and LC/MS Bischoff, *page 603*
- Columns for UHPLC Bischoff, *page 609*

HPLC: COLUMNS AND ACCESSORIES: Columns for HPLC and LC/MS Scharlau

SCHARLAU

Scharlau columns have been used in Spain for over 30 years for their reliability and reproducibility. Each column is tested after manufacture for efficiency, capacity, selectivity and peak symmetry. The results of this test are shown in the test Chromatogram, which is included with each column. We can pack columns from 2mm to 50mm I.D. having an extensive experience in semi- preparative and preparative columns, in 2mm columns for LC-MS, and also in the standard columns of 4 and 4,6mm I.D. We are especially proud of our own phase columns, the KromaPhase line.

HPLC Scharlau columns KromaPhase SCHARLAU



Control chromatogram

KromaPhase is based on **ultra pure spherical silica of high quality** that provides **high reproducibility and chemical stability** using monofunctional silanes and **total end-capping**. KromaSil can be perfectly substituted for KromaPhase without changing the method. To ensure lot-to-lot reproducibility each lot is subject to specific controls. KromaPhase resolves the vast majority of analytical problems.

For further information, please contact scharlab@scharlab.com

Scharlau syringe filters



Scharlau
The wise choice

HPLC: COLUMNS AND ACCESSORIES

KromaPhase specifications C18:

- USP Art. No.: L1
- Particle sizes: 3, 5, 5, 10µm
- Pore size: 100Å
- Surface Area: 300m²/g
- pH range: 1 to 10
- Carbon Load: 20%
- Pore volume: 0,8ml/g
- Particle size distribution (D10/D90): < 1,6

KromaPhase specifications C8:

- USP Art. No.: L7
- Particle sizes: 3, 5, 5, 10µm
- Pore size: 100Å
- Surface Area: 300m²/g
- pH range: 2 to 9
- Carbon Load: 12%
- Pore volume: 0,8ml/g
- Particle size distribution (D10/D90): < 1,6

KromaPhase specifications SIL:

- USP Art. No.: L13
- Particle sizes: 3, 5, 5, 10µm
- Pore size: 100Å
- Surface Area: 300m²/g
- pH range: 1 to 8
- Pore volume: 0,8ml/g
- Particle size distribution (D10/D90): < 1,6

KromaPhase specifications NH2:

- USP Art. No.: L8
- Particle sizes: 5/10µm
- Pore size: 100Å
- Surface Area: 300m²/g
- pH range: 2 to 8
- Carbon Load: 4,5%
- Pore volume: 0,8ml/g
- Particle size distribution (D10/D90): < 1,6

KromaPhase specifications C4:

- USP Art. No.: L26
- Particle sizes: 5/10µm
- Pore size: 100Å
- Surface Area: 300m²/g
- pH range: 2 to 8
- Carbon Load: 8%
- Pore volume: 0,8ml/g
- Particle size distribution (D10/D90): < 1,6

KromaPhase Columns 2mm I.D. SCHARLAU

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	3,5	100	50	2	1	070B35Y811
C18	5	100	50	2	1	070B35Y803
C8	3,5	100	50	2	1	070B35Y809
C8	5	100	50	2	1	070B35Y802
SIL	3,5	100	50	2	1	070B35Y814
SIL	5	100	50	2	1	070B35Y801
NH2	5	100	50	2	1	070B35Y807
C4	5	100	50	2	1	070B35Y817
C18	3	100	100	2	1	070B36Y812
C18	3,5	100	100	2	1	070B36Y811
C18	5	100	100	2	1	070B36Y803
C8	3,5	100	100	2	1	070B36Y809
C8	5	100	100	2	1	070B36Y802
SIL	3,5	100	100	2	1	070B36Y814
SIL	5	100	100	2	1	070B36Y801
NH2	5	100	100	2	1	070B36Y807
C4	5	100	100	2	1	070B36Y817
C18	3,5	100	125	2	1	070B39Y811
C18	5	100	125	2	1	070B39Y803
C8	3,5	100	125	2	1	070B39Y809
C8	5	100	125	2	1	070B39Y802
SIL	3,5	100	125	2	1	070B39Y814
SIL	5	100	125	2	1	070B39Y801
NH2	5	100	125	2	1	070B39Y807
C4	5	100	125	2	1	070B39Y817
C18	3,5	100	150	2	1	070B40Y811
C18	5	100	150	2	1	070B40Y803
C8	3,5	100	150	2	1	070B40Y809
C8	5	100	150	2	1	070B40Y802
SIL	3,5	100	150	2	1	070B40Y814
SIL	5	100	150	2	1	070B40Y801
NH2	5	100	150	2	1	070B40Y807
C4	5	100	150	2	1	070B40Y817
C18	3,5	100	250	2	1	070B43Y811
C18	5	100	250	2	1	070B43Y803
C8	3,5	100	250	2	1	070B43Y809
C8	5	100	250	2	1	070B43Y802
SIL	3,5	100	250	2	1	070B43Y814
SIL	5	100	250	2	1	070B43Y801
NH2	5	100	250	2	1	070B43Y807
C4	5	100	250	2	1	070B43Y817

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KromaPhase Columns 3mm I.D. SCHARLAU

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	3,5	100	50	3	1	070B58Y811
C18	5	100	50	3	1	070B58Y803
C8	3,5	100	50	3	1	070B58Y809
C8	5	100	50	3	1	070B58Y802
SIL	3,5	100	50	3	1	070B58Y814
SIL	5	100	50	3	1	070B58Y801
NH2	5	100	50	3	1	070B58Y807
C4	5	100	50	3	1	070B58Y817
C18	3,5	100	100	3	1	070B52Y811
C18	5	100	100	3	1	070B52Y803
C8	3,5	100	100	3	1	070B52Y809
C8	5	100	100	3	1	070B52Y802
SIL	3,5	100	100	3	1	070B52Y814
SIL	5	100	100	3	1	070B52Y801
NH2	5	100	100	3	1	070B52Y807
C4	5	100	100	3	1	070B52Y817
C18	3,5	100	125	3	1	070B56Y811
C18	5	100	125	3	1	070B56Y803
C8	3,5	100	125	3	1	070B56Y809
C8	5	100	125	3	1	070B56Y802
SIL	3,5	100	125	3	1	070B56Y814
SIL	5	100	125	3	1	070B56Y801
NH2	5	100	125	3	1	070B56Y807
C4	5	100	125	3	1	070B56Y817
C18	3,5	100	150	3	1	070B53Y811
C18	5	100	150	3	1	070B53Y803
C8	3,5	100	150	3	1	070B53Y809
C8	5	100	150	3	1	070B53Y802
SIL	3,5	100	150	3	1	070B53Y814
SIL	5	100	150	3	1	070B53Y801
NH2	5	100	150	3	1	070B53Y807
C4	5	100	150	3	1	070B53Y817
C18	3,5	100	250	3	1	070B54Y811
C18	5	100	250	3	1	070B54Y803
C8	3,5	100	250	3	1	070B54Y809
C8	5	100	250	3	1	070B54Y802
SIL	3,5	100	250	3	1	070B54Y814
SIL	5	100	250	3	1	070B54Y801
NH2	5	100	250	3	1	070B54Y807
C4	5	100	250	3	1	070B54Y817

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Scharlau chromatography vials


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KromaPhase Columns 4mm I.D. SCHARLAU

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	3,5	100	50	4	1	070-B3Y811
C18	5	100	50	4	1	070-B3Y803
C18	10	100	50	4	1	070-B3Y805
C8	3,5	100	50	4	1	070-B3Y809
C8	5	100	50	4	1	070-B3Y802
C8	10	100	50	4	1	070-B3Y804
SIL	3,5	100	50	4	1	070-B3Y814
SIL	5	100	50	4	1	070-B3Y801
SIL	10	100	50	4	1	070-B3Y810
NH2	5	100	50	4	1	070-B3Y807
C4	5	100	50	4	1	070-B3Y817
C18	3,5	100	100	4	1	070-B1Y811
C18	5	100	100	4	1	070-B1Y803
C18	10	100	100	4	1	070-B1Y805
C8	3,5	100	100	4	1	070-B1Y809
C8	5	100	100	4	1	070-B1Y802
C8	10	100	100	4	1	070-B1Y804
SIL	3,5	100	100	4	1	070-B1Y814
SIL	5	100	100	4	1	070-B1Y801
SIL	10	100	100	4	1	070-B1Y810
NH2	5	100	100	4	1	070-B1Y807
C4	5	100	100	4	1	070-B1Y817
C18	3,5	100	125	4	1	070-B7Y811
C18	5	100	125	4	1	070-B7Y803
C18	10	100	125	4	1	070-B7Y805
C8	3,5	100	125	4	1	070-B7Y809
C8	5	100	125	4	1	070-B7Y802
C8	10	100	125	4	1	070-B7Y804
SIL	3,5	100	125	4	1	070-B7Y814
SIL	5	100	125	4	1	070-B7Y801
SIL	10	100	125	4	1	070-B7Y810
NH2	5	100	125	4	1	070-B7Y807
C4	5	100	125	4	1	070-B7Y817
C18	3,5	100	150	4	1	070-B2Y811
C18	5	100	150	4	1	070-B2Y803
C18	10	100	150	4	1	070-B2Y805
C8	3,5	100	150	4	1	070-B2Y809
C8	5	100	150	4	1	070-B2Y802
C8	10	100	150	4	1	070-B2Y804
SIL	3,5	100	150	4	1	070-B2Y814
SIL	5	100	150	4	1	070-B2Y801
SIL	10	100	150	4	1	070-B2Y810
NH2	5	100	150	4	1	070-B2Y807
C4	5	100	150	4	1	070-B2Y817
C18	3,5	100	250	4	1	070-B6Y811
C18	5	100	250	4	1	070-B6Y803
C18	10	100	250	4	1	070-B6Y805
C8	3,5	100	250	4	1	070-B6Y809
C8	5	100	250	4	1	070-B6Y802
C8	10	100	250	4	1	070-B6Y804
SIL	3,5	100	250	4	1	070-B6Y814
SIL	5	100	250	4	1	070-B6Y801
SIL	10	100	250	4	1	070-B6Y810
NH2	5	100	250	4	1	070-B6Y807
C4	5	100	250	4	1	070-B6Y817

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KromaPhase Columns 4,6mm I.D. SCHARLAU

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	3,5	100	50	4,6	1	066-B3Y811
C18	5	100	50	4,6	1	066-B3Y803
C18	10	100	50	4,6	1	066-B3Y805
C8	3,5	100	50	4,6	1	066-B3Y809
C8	5	100	50	4,6	1	066-B3Y802
C8	10	100	50	4,6	1	066-B3Y804
SIL	3,5	100	50	4,6	1	066-B3Y814
SIL	5	100	50	4,6	1	066-B3Y801
SIL	10	100	50	4,6	1	066-B3Y810
NH2	5	100	50	4,6	1	066-B3Y807
C4	5	100	50	4,6	1	066-B3Y817
C18	3,5	100	100	4,6	1	066-B1Y811
C18	5	100	100	4,6	1	066-B1Y803
C18	10	100	100	4,6	1	066-B1Y805
C8	3,5	100	100	4,6	1	066-B1Y809
C8	5	100	100	4,6	1	066-B1Y802
C8	10	100	100	4,6	1	066-B1Y804
SIL	3,5	100	100	4,6	1	066-B1Y814
SIL	5	100	100	4,6	1	066-B1Y801
SIL	10	100	100	4,6	1	066-B1Y810
NH2	5	100	100	4,6	1	066-B1Y807
C4	5	100	100	4,6	1	066-B1Y817
C18	3,5	100	125	4,6	1	066-B7Y811
C18	5	100	125	4,6	1	066-B7Y803
C18	10	100	125	4,6	1	066-B7Y805
C8	3,5	100	125	4,6	1	066-B7Y809
C8	5	100	125	4,6	1	066-B7Y802
C8	10	100	125	4,6	1	066-B7Y804
SIL	3,5	100	125	4,6	1	066-B7Y814
SIL	5	100	125	4,6	1	066-B7Y801
SIL	10	100	125	4,6	1	066-B7Y810
NH2	5	100	125	4,6	1	066-B7Y807
C4	5	100	125	4,6	1	066-B7Y817
C18	3,5	100	150	4,6	1	066-B2Y811
C18	5	100	150	4,6	1	066-B2Y803
C18	10	100	150	4,6	1	066-B2Y805
C8	3,5	100	150	4,6	1	066-B2Y809
C8	5	100	150	4,6	1	066-B2Y802
C8	10	100	150	4,6	1	066-B2Y804
SIL	3,5	100	150	4,6	1	066-B2Y814
SIL	5	100	150	4,6	1	066-B2Y801
SIL	10	100	150	4,6	1	066-B2Y810
NH2	5	100	150	4,6	1	066-B2Y807
C4	5	100	150	4,6	1	066-B2Y817
C18	3,5	100	250	4,6	1	066-B6Y811
C18	5	100	250	4,6	1	066-B6Y803
C18	10	100	250	4,6	1	066-B6Y805
C8	3,5	100	250	4,6	1	066-B6Y809
C8	5	100	250	4,6	1	066-B6Y802
C8	10	100	250	4,6	1	066-B6Y804
SIL	3,5	100	250	4,6	1	066-B6Y814
SIL	5	100	250	4,6	1	066-B6Y801
SIL	10	100	250	4,6	1	066-B6Y810
NH2	5	100	250	4,6	1	066-B6Y807
C4	5	100	250	4,6	1	066-B6Y817

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KromaPhase Columns 8mm I.D. SCHARLAU

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	5	100	100	8	1	070B32Y803
C18	10	100	100	8	1	070B32Y805
C8	5	100	100	8	1	070B32Y802
C8	10	100	100	8	1	070B32Y804
SIL	5	100	100	8	1	070B32Y801
SIL	10	100	100	8	1	070B32Y810
NH2	5	100	100	8	1	070B32Y807
C4	5	100	100	8	1	070B32Y817
C18	5	100	150	8	1	070B22Y803
C18	10	100	150	8	1	070B22Y805
C8	5	100	150	8	1	070B22Y802
C8	10	100	150	8	1	070B22Y804
SIL	5	100	150	8	1	070B22Y801
SIL	10	100	150	8	1	070B22Y810
NH2	5	100	150	8	1	070B22Y807
C4	5	100	150	8	1	070B22Y817
C18	5	100	250	8	1	070B23Y803
C18	10	100	250	8	1	070B23Y805
C8	5	100	250	8	1	070B23Y802
C8	10	100	250	8	1	070B23Y804
SIL	5	100	250	8	1	070B23Y801
SIL	10	100	250	8	1	070B23Y810
NH2	5	100	250	8	1	070B23Y807
C4	5	100	250	8	1	070B23Y817

KromaPhase Columns 16mm I.D. SCHARLAU

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	5	100	150	16	1	070B44Y803
C18	10	100	150	16	1	070B44Y805
C8	5	100	150	16	1	070B44Y802
C8	10	100	150	16	1	070B44Y804
SIL	5	100	150	16	1	070B44Y801
SIL	10	100	150	16	1	070B44Y810
NH2	5	100	150	16	1	070B44Y807
C4	5	100	150	16	1	070B44Y817
C18	5	100	250	16	1	070B27Y803
C18	10	100	250	16	1	070B27Y805
C8	5	100	250	16	1	070B27Y802
C8	10	100	250	16	1	070B27Y804
SIL	5	100	250	16	1	070B27Y801
SIL	10	100	250	16	1	070B27Y810
NH2	5	100	250	16	1	070B27Y807
C4	5	100	250	16	1	070B27Y817

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KromaPhase Columns 20mm I.D. SCHARLAU

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	5	100	150	20	1	070B11Y803
C18	10	100	150	20	1	070B11Y805
C8	5	100	150	20	1	070B11Y802
C8	10	100	150	20	1	070B11Y804
SIL	5	100	150	20	1	070B11Y801
SIL	10	100	150	20	1	070B11Y810
NH2	5	100	150	20	1	070B11Y807
C4	5	100	150	20	1	070B11Y817
C18	5	100	250	20	1	070B10Y803
C18	10	100	250	20	1	070B10Y805
C8	5	100	250	20	1	070B10Y802
C8	10	100	250	20	1	070B10Y804
SIL	5	100	250	20	1	070B10Y801
SIL	10	100	250	20	1	070B10Y810
NH2	5	100	250	20	1	070B10Y807
C4	5	100	250	20	1	070B10Y817

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KromaPhase guard columns, column type. They require no holder. SCHARLAU


Precolumna tipo columna

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
SIL	5	100	30	2	1	070B1PY801
C8	5	100	30	2	1	070B1PY802
C18	5	100	30	2	1	070B1PY803
NH2	5	100	30	2	1	070B1PY807
C4	5	100	30	2	1	070B1PY817
C8	3,5	100	30	2	1	070B1PY809
C18	3,5	100	30	2	1	070B1PY811
SIL	3,5	100	30	2	1	070B1PY814
SIL	5	100	30	8	1	070B2PY801
C8	5	100	30	8	1	070B2PY802
C18	5	100	30	8	1	070B2PY803
NH2	5	100	30	8	1	070B2PY807
C4	5	100	30	8	1	070B2PY817
C8	10	100	30	8	1	070B2PY804
C18	10	100	30	8	1	070B2PY805
SIL	10	100	30	8	1	070B2PY810
SIL	5	100	30	16	1	070B3PY801
C8	5	100	30	16	1	070B3PY802
C18	5	100	30	16	1	070B3PY803
NH2	5	100	30	16	1	070B3PY807
C4	5	100	30	16	1	070B3PY817
C8	10	100	30	16	1	070B3PY804
C18	10	100	30	16	1	070B3PY805
SIL	10	100	30	16	1	070B3PY810
SIL	5	100	30	3	1	070B4PY801
C8	5	100	30	3	1	070B4PY802
C18	5	100	30	3	1	070B4PY803
NH2	5	100	30	3	1	070B4PY807
C4	5	100	30	3	1	070B4PY817
C8	3,5	100	30	3	1	070B4PY809
C18	3,5	100	30	3	1	070B4PY811
SIL	3,5	100	30	3	1	070B4PY814
SIL	5	100	30	20	1	070B5PY801
C8	5	100	30	20	1	070B5PY802
C18	5	100	30	20	1	070B5PY803
NH2	5	100	30	20	1	070B5PY807
C4	5	100	30	20	1	070B5PY817
C8	10	100	30	20	1	070B5PY804
C18	10	100	30	20	1	070B5PY805
SIL	10	100	30	20	1	070B5PY810
SIL	5	100	30	4	1	070B9PY801
C8	5	100	30	4	1	070B9PY802
C18	5	100	30	4	1	070B9PY803
NH2	5	100	30	4	1	070B9PY807
C4	5	100	30	4	1	070B9PY817
C8	10	100	30	4	1	070B9PY804
C18	10	100	30	4	1	070B9PY805
C8	3,5	100	30	4	1	070B9PY809
SIL	10	100	30	4	1	070B9PY810
C18	3,5	100	30	4	1	070B9PY811
C18	3	100	30	4	1	070B9PY812
SIL	3,5	100	30	4	1	070B9PY814

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Holder for guard columns, cartridge type. SCHARLAU



Holder for guard columns, cartridge type

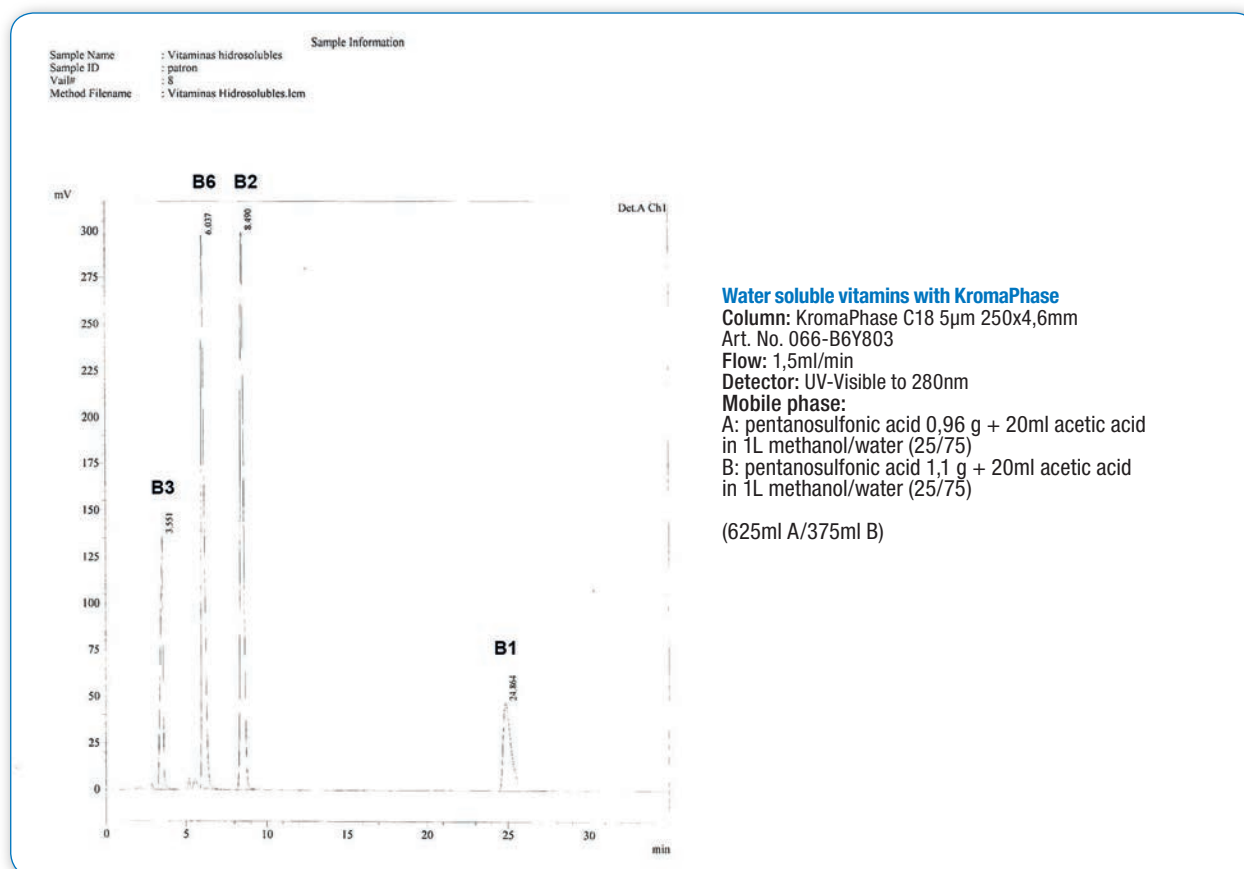
Description	Pack (u.)	Art. No.
Holder for guard columns, cartridge type	1	070HOLDER2

KromaPhase guard columns, cartridge type. They require holder, Art. No. 070HOLDER2

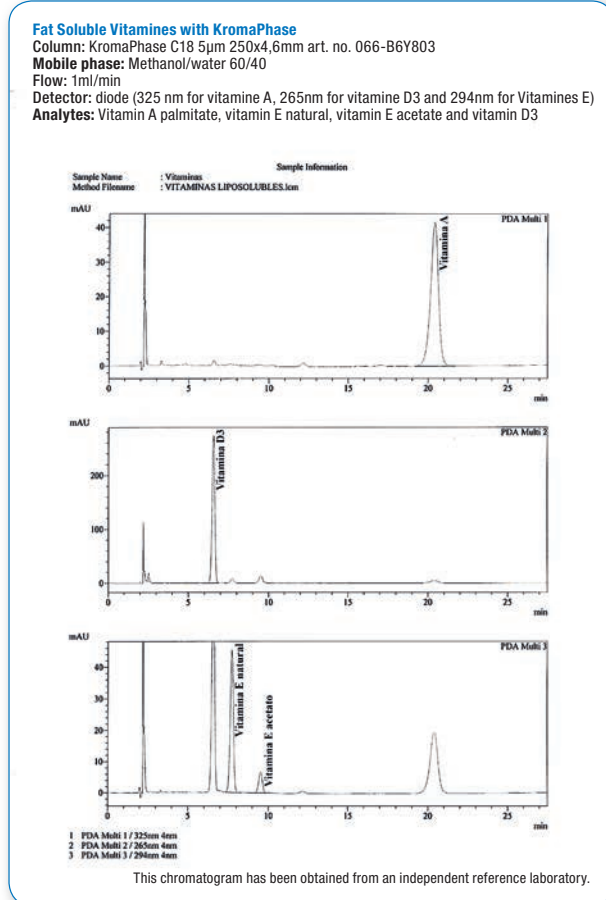
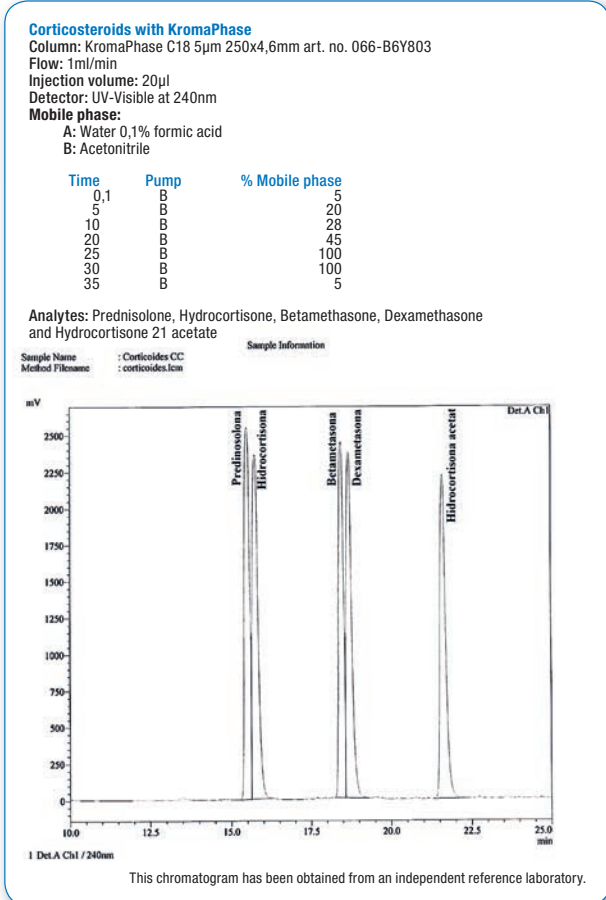
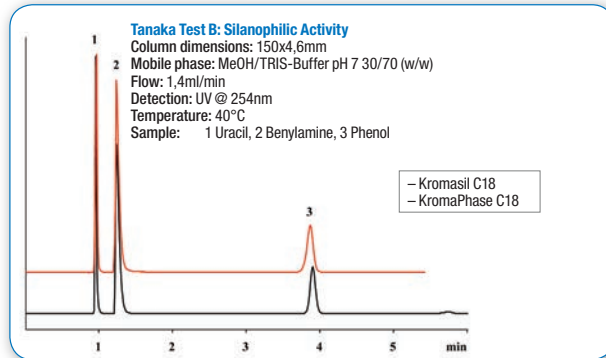
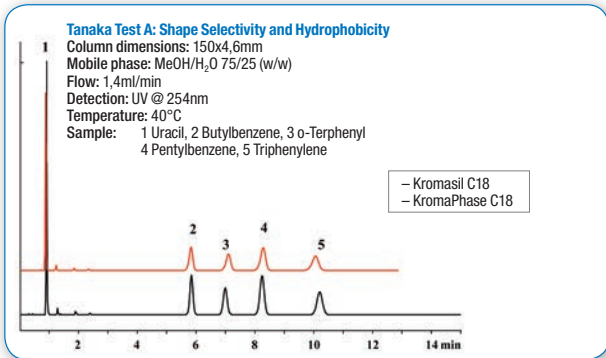
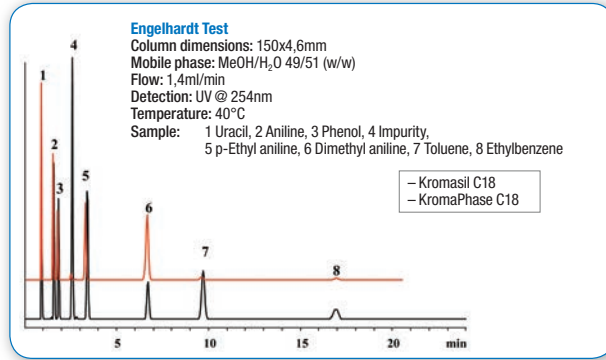
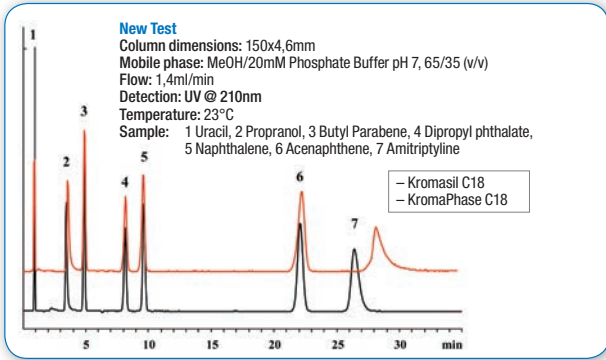


Guard columns cartridge type

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	10	100	10	4	5	070-BGY805
C18	3,5	100	10	4	5	070-BGY811
C18	5	100	10	4	5	070-BGY803
C8	10	100	10	4	5	070-BGY804
C8	3,5	100	10	4	5	070-BGY809
C8	5	100	10	4	5	070-BGY802
SIL	10	100	10	4	5	070-BGY810
SIL	3,5	100	10	4	5	070-BGY814
SIL	5	100	10	4	5	070-BGY801
NH2	5	100	10	4	5	070-BGY807
C4	5	100	10	4	5	070-BGY817



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Prontosil columns BISCHOFF CHROMATOGRAPHY

Scharlab has available the original ProntoSIL columns manufactured by BISCHOFF Chromatography. It is made of an ultrapure spherical silica (99.999%). Stringent manufacturing controls ensure consistency in: distribution of particles and pores, the size and volume of the pore, and the surface area. It is an extremely reproducible, reliable and high performance material.

ProntoSIL Si

Ultrapure silica that can be used both in normal phase and in hydrophilic interaction liquid chromatography (HiLiC) and is the support for most of ProntoSIL bonded phases.

ProntoSIL C18 ace-EPS

Deactivated phase ("endcapped"). Stable over a wide pH range (pH 1-10). With a high hydrophobicity combined with high polar selectivity. The silanophilic activity is very low. Very basic compounds such as amitriptyline can be eluted in neutral mobile phases with excellent peak symmetry. Typical applications are in the pharmaceutical industry in the separation of acidic or basic compounds. It offers an alternative selectivity to the classic general C18 column (like ProntoSIL C18 AQ or ProntoSIL C18 H).

ProntoSIL C18 AQ

It is the most universal of the ProntoSIL C18 line. Unique bonding technology allows it to be used successfully with aqueous phases without organic modifier, yielding excellent peak symmetry as well as high selectivity. Completely deactivated packing ("endcapped"). Especially suitable for hydrophilic polar compounds.

ProntoSIL C18 AQ PLUS

Can also be used with aqueous phases without an organic modifier. Very stable at pH 1. Completely deactivated phase ("endcapped") by polar groups with a strong carbon load. The typical field of application for this support is combinatorial chemistry where work with fast gradients of 0-100% organic solvent with 0.1% TFA is carried out. It offers an alternative selectivity to C18 AQ ProntoSIL.

ProntoSIL C18 SH

Completely deactivated packing ("endcapped"). It is the ProntoSIL C18 with maximum carbon loading and thus has excellent selectivity and stability even at pH 1. It can be used in the separation of some cis / trans isomers.

ProntoSIL C18 H

Totally deactivated phase ("endcapped"). Applicable for most reversed phase separations, especially with hydrophobic compounds. Very good separation of peptides and proteins (200 and 300Å).

ProntoSIL Eurobond C18

Offers intermediate selectivity between ProntoSIL C18 SH and ProntoSIL C18 H Totally deactivated.

ProntoSIL Hypersorb ODS

It is Bischoff's alternative to and most like Hypersil ODS. It's Silanophilic activity is somewhat less than Hypersil ODS silica being somewhat less acidic. It's polarity is comparable. Bischoff ensures the same selectivity but with better peak symmetry for basic compounds.

ProntoSIL Spheribond ODS1

It is Bischoff's alternative to Spherisorb ODS1, ensuring identical physical and chemical properties and the same packing density. This is a classic packing with low carbon content and high silanophilic activity. One typical application area is the separation of hydrophobic compounds such as fat soluble vitamins.

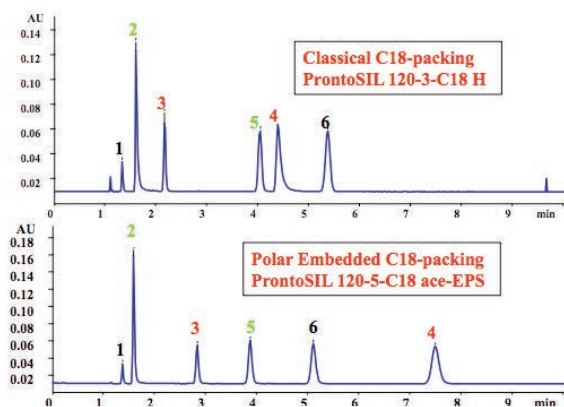
ProntoSIL Spheribond ODS2

Is Bischoff's alternative to Spherisorb ODS2, offering the same selectivity. The physical and chemical properties as well as the density of the packing are the same as those of the original packing. Moderate silanophilic activity. The typical area of application of this classic phase is the separation of pharmaceutical analytes.

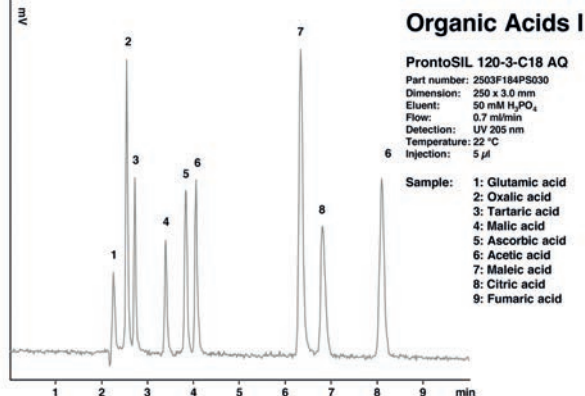
→ Continued on the next page

For further information, please contact scharlab@scharlab.com

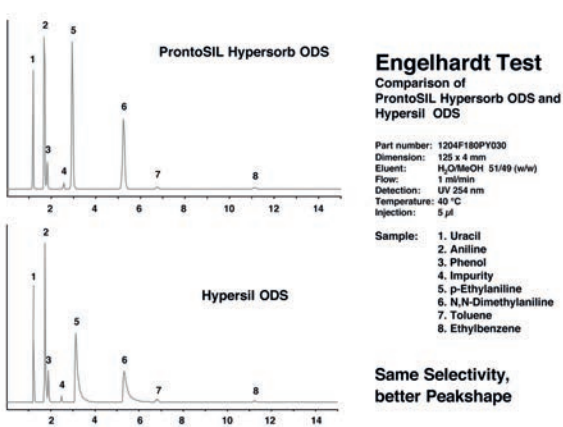
ProntoSIL C18H and ProntoSIL C18 ace-EPS: Selectivity comparison (acidic, basic and neutral compounds)



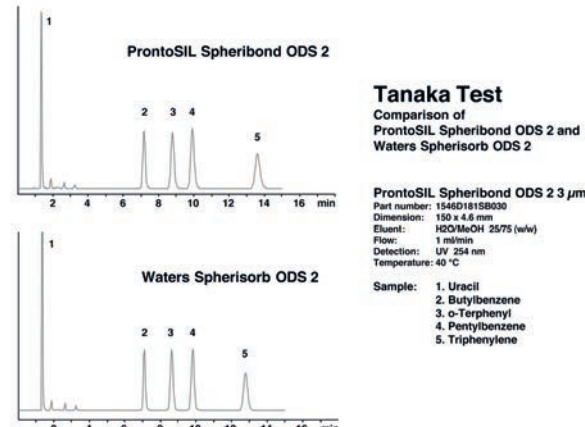
ProntoSIL C18 ace-EPS



ProntoSIL C18 AQ



ProntoSIL Hypersorb ODS



ProntoSIL Spheribond ODS 2

ProntoSIL C8 SH

Totally deactivated Phase C8. Excellent peak symmetry, selectivity and stability to pH 1. With the option of 300Å very good separations of peptides and proteins are achieved. The 5µ and 60 Å support can be used as an alternative to the LiChrospher Select B.

ProntoSIL C8 ace-EPS

Stable over a wide pH range (pH 1-10). It is more selective for polar compounds than ProntoSIL C18 ace-EPS. Deactivated phase ("endcapped"). Low silanophilic activity. Very basic compounds with a pKa greater than 9 may be eluted under neutral pH conditions with excellent peak symmetry. The typical application area is the pharmaceutical industry for the separation of compounds having acidic or basic groups.

ProntoSIL C4

Very stable even at pH 1. It allows good separation of large biomolecules and peptides.

ProntoSIL C1

It is the ProntoSIL phase of least retention. Its application area is non-polar solutes (eg. Lipids). It can also be used for proteins in HIC (Hydrophobic Interaction Chromatography). Stable at pH 1.

→ Continued on the next page

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ProntoSIL Phenyl

Offers an alternative selectivity to C18 or C8 through p-p interaction. Totally deactivated. Very stable even at pH 1. Hydrophobicity comparable to C8.

ProntoSIL Amino

Can be used in “NP” (normal phase), “RP” (reverse phase), “IC” (ionic) and HiLiC (hydrophilic interaction liquid chromatography).
In “NP” it is an alternative to silica packing with different selectivity.
In “RP” it is used especially for carbohydrates.
In “IC” it is a weak anion exchanger for anions and organic acids.

ProntoSIL Amino E

It is different from ProntoSIL Amino in that ProntoSIL Amino E is fully deactivated. Excellent in SFC (Supercritical Fluid Chromatography) for the analysis of basic compounds. It can be used in hydrophilic interaction liquid chromatography (HiLiC).

ProntoSIL Amino H

The difference with the other two ProntoSILs is that ProntoSIL Amino has a high hydrophobicity and different selectivity. Due to a special bonding technology it offers long lasting carbohydrate analysis. It can be used in hydrophilic interaction liquid chromatography (HiLiC).

ProntoSIL CN

Can be used in normal or reverse phase. In reversed phase, the typical application is the separation of very basic solutes. In normal phase, it has a complementary selectivity to Silica, Amino and Diol phases. Due to its rapid equilibration, it is the packing of choice for normal phase gradients.

ProntoSIL CN E

The difference between it and ProntoSIL is that ProntoSIL CNE is fully deactivated.

ProntoSIL OH

It is an alternative to silica packing. Compared to ProntoSIL Si, the selectivity is similar but the equilibration time is less. Because of low surface activity it can be used in “SEC” applications. It can be used in hydrophilic interaction liquid chromatography (HiLiC).

ProntoSIL C30

It has an extremely large carbon load that gives a very dense bond, excellent selectivity and stability even at pH 1. A typical application is the separation of isomers of carotenoids and other solutes with long alkyl chains are not separated in classic C18 columns.

ProntoSIL Enviro PTL

Designed for the determination of non-aromatic hydrocarbons, mono-, di- and polyaromatics in petroleum products according to the European norm prEN12916 requirements (June 1997).

ProntoSIL Enviro PHE

It allows the determination of phenols in environmental analysis following the EPA Method 604/625.

ProntoSIL Enviro PES

Designed for the analysis of pesticides in environmental samples according to the German standard DIN38407F12 (separating 17 pesticides in less than 45 minutes).

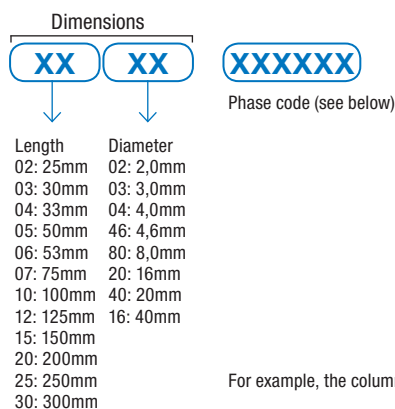
ProntoSIL Enviro PAH

It allows the determination of polycyclic aromatic hydrocarbons in environmental samples according to the EPA Method 610.

For further information, please contact scharlab@scharlab.com

How to build the column catalogue number

The Art. No. of a ProntoSIL column consists of two parts: the first four digits refer to the dimensions of the column. The other six refer to the column filling.



Phase	Code	Porus size	Particle size	Surface area	%C	end capping
ProntoSIL 60-3 Si	C000P3	60Å	3µm	450m ² /g	–	–
ProntoSIL 120-3-Si	F000P3	120Å	3µm	300m ² /g	–	–
ProntoSIL 200-3-Si	H000P3	200Å	3µm	200m ² /g	–	–
ProntoSIL 300-3-Si	K000P3	300Å	3µm	100m ² /g	–	–
ProntoSIL 60-5-Si	C000P5	60Å	5µm	450m ² /g	–	–
ProntoSIL 120-5-Si	F000P5	120Å	5µm	300m ² /g	–	–
ProntoSIL 200-5-Si	H000P5	200Å	5µm	200m ² /g	–	–
ProntoSIL 300-5-Si	K000P5	300Å	5µm	100m ² /g	–	–
ProntoSIL 120-10-Si	F000P0	120Å	10µm	300m ² /g	–	–
ProntoSIL 120-3-C18 ace-EPS	F18AP3	120Å	3µm	300m ² /g	18,5	Yes
ProntoSIL 300-3-C18 ace-EPS	K18AP3	300Å	3µm	100m ² /g	8,5	Yes
ProntoSIL 120-5-C18 ace-EPS	F18AP5	120Å	5µm	300m ² /g	18,5	Yes
ProntoSIL 200-5-C18 ace-EPS	H18AP5	200Å	5µm	200m ² /g	12,5	Yes
ProntoSIL 300-5-C18 ace-EPS	K18AP5	300Å	5µm	100m ² /g	8,5	Yes
ProntoSIL 120-10-C18 ace-EPS	F18AP0	120Å	10µm	300m ² /g	18,5	Yes
ProntoSIL 120-3-C18 AQ	F184P3	120Å	3µm	300m ² /g	14	Yes
ProntoSIL 200-3-C18 AQ	H184P3	200Å	3µm	200m ² /g	9	Yes
ProntoSIL 120-5-C18 AQ	F184P5	120Å	5µm	300m ² /g	14	Yes
ProntoSIL 200-5-C18 AQ	H184P5	200Å	5µm	200m ² /g	9	Yes
ProntoSIL 120-10-C18 AQ	F184P0	120Å	10µm	300m ² /g	14	Yes
ProntoSIL 120-5-C18 AQ PLUS	F183P5	120Å	5µm	300m ² /g	17	Yes
ProntoSIL 120-3-C18 SH	F180P3	120Å	3µm	300m ² /g	17	Yes
ProntoSIL 120-5-C18 SH	F180P5	120Å	5µm	300m ² /g	17	Yes
ProntoSIL 120-10-C18 SH	F180P0	120Å	10µm	300m ² /g	17	Yes
ProntoSIL 60-3-C18 H	C185P3	60Å	3µm	450m ² /g	18,5	Yes
ProntoSIL 120-3-C18 H	F185P3	120Å	3µm	300m ² /g	17,5	Yes
ProntoSIL 200-3-C18 H	H185P3	200Å	3µm	200m ² /g	11	Yes
ProntoSIL 300-3-C18 H	K185P3	300Å	3µm	100m ² /g	7	Yes
ProntoSIL 60-5-C18 H	C185P5	60Å	5µm	450m ² /g	18,5	Yes
ProntoSIL 120-5-C18 H	F185P5	120Å	5µm	300m ² /g	17,5	Yes
ProntoSIL 200-5-C18 H	H185P5	200Å	5µm	200m ² /g	11	Yes
ProntoSIL 300-5-C18 H	K185P5	300Å	5µm	100m ² /g	7	Yes
ProntoSIL 120-10-C18 H	F185P0	120Å	10µm	300m ² /g	17,5	Yes
ProntoSIL Hypersorb ODS	F180Y5	120Å	5µm	170m ² /g	9,5	No
ProntoSIL Hypersorb ODS	F180Y3	120Å	3µm	170m ² /g	9,5	No

→ Continued on the next page

Phase	Code	Porus size	Particle size	Surface area	%C	end capping
ProntoSIL Hypersorb MOS	F080Y0	120Å	10µm	170m ² /g	6,5	No
ProntoSIL Hypersorb MOS	F080Y5	120Å	5µm	170m ² /g	6,5	No
ProntoSIL Hypersorb MOS	F080Y3	120Å	3µm	170m ² /g	6,5	No
ProntoSIL Hypersorb SAS	F010Y0	120Å	10µm	170m ² /g	2,4	Yes
ProntoSIL Hypersorb SAS	F010Y5	120Å	5µm	170m ² /g	2,4	Yes
ProntoSIL Hypersorb SAS	F010Y3	120Å	3µm	170m ² /g	2,4	Yes
ProntoSIL Hypersorb CN	F200Y0	120Å	10µm	170m ² /g	4%	No
ProntoSIL Hypersorb CN	F200Y5	120Å	5µm	170m ² /g	4%	No
ProntoSIL Hypersorb CN	F200Y3	120Å	3µm	170m ² /g	4%	No
ProntoSIL Hypersorb APS-1	F190Y0	120Å	10µm	170m ² /g	1,70%	No
ProntoSIL Hypersorb APS-1	F190Y5	120Å	5µm	170m ² /g	1,70%	No
ProntoSIL Hypersorb APS-1	F190Y3	120Å	3µm	170m ² /g	1,70%	No
ProntoSIL Hypersorb APS-2	F198Y0	120Å	10µm	170m ² /g	1,50%	No
ProntoSIL Hypersorb APS-2	F198Y5	120Å	5µm	170m ² /g	1,50%	No
ProntoSIL Hypersorb APS-2	F198Y3	120Å	3µm	170m ² /g	1,50%	No
ProntoSIL Spheribond ODS 1	D180S0	80Å	10µm	220m ² /g	7	No
ProntoSIL Spheribond ODS 1	D180S5	80Å	5µm	220m ² /g	7	No
ProntoSIL Spheribond ODS 1	D180S3	80Å	3µm	220m ² /g	7	No
ProntoSIL Spheribond ODS 2	D181S0	80Å	10µm	220m ² /g	12	Yes
ProntoSIL Spheribond ODS 2	D181S5	80Å	5µm	220m ² /g	12	Yes
ProntoSIL Spheribond ODS 2	D181S3	80Å	3µm	220m ² /g	12	Yes
ProntoSIL Spheribond C8	D080S0	80Å	10µm	220m ² /g	6	Yes
ProntoSIL Spheribond C8	D080S5	80Å	5µm	220m ² /g	6	Yes
ProntoSIL Spheribond C8	D080S3	80Å	3µm	220m ² /g	6	Yes
ProntoSIL Spheribond C6	D060S0	80Å	10µm	220m ² /g	6	Yes
ProntoSIL Spheribond C6	D060S5	80Å	5µm	220m ² /g	6	Yes
ProntoSIL Spheribond C6	D060S3	80Å	3µm	220m ² /g	6	Yes
ProntoSIL Spheribond C1	D010S0	80Å	10µm	220m ² /g	2	Yes
ProntoSIL Spheribond C1	D010S5	80Å	5µm	220m ² /g	2	Yes
ProntoSIL Spheribond C1	D010S3	80Å	3µm	220m ² /g	2	Yes
ProntoSIL Spheribond NH2	D190S0	80Å	10µm	220m ² /g	2	No
ProntoSIL Spheribond NH2	D190S5	80Å	5µm	220m ² /g	2	No
ProntoSIL Spheribond NH2	D190S3	80Å	3µm	220m ² /g	2	No
ProntoSIL Spheribond CN	D200S0	80Å	10µm	220m ² /g	3,5	No
ProntoSIL Spheribond CN	D200S5	80Å	5µm	220m ² /g	3,5	No
ProntoSIL Spheribond CN	D200S3	80Å	3µm	220m ² /g	3,5	No
ProntoSIL 120-3-C8 SH	F080P3	120Å	3µm	300m ² /g	10	Yes
ProntoSIL 200-3-C8 SH	H080P3	200Å	3µm	200m ² /g	7	Yes
ProntoSIL 300-3-C8 SH	K080P3	300Å	3µm	100m ² /g	4	Yes
ProntoSIL 60-5-C8 SH	C080P5	60Å	5µm	450m ² /g	12	Yes
ProntoSIL 120-5-C8 SH	F080P5	120Å	5µm	300m ² /g	10	Yes
ProntoSIL 200-5-C8 SH	H080P5	200Å	5µm	200m ² /g	7	Yes
ProntoSIL 300-5-C8 SH	K080P5	300Å	5µm	100m ² /g	4	Yes
ProntoSIL 120-10-C8 SH	F080P0	120Å	10µm	300m ² /g	10	Yes
ProntoSIL 120-3-C8 ace-EPS	F08AP3	120Å	3µm	300m ² /g	12	Yes
ProntoSIL 120-5-C8 ace-EPS	F08AP5	120Å	5µm	300m ² /g	12	Yes
ProntoSIL 120-10-C8 ace-EPS	F08AP0	120Å	10µm	300m ² /g	12	Yes

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Phase	Code	Porus size	Particle size	Surface area	%C	end capping
ProntoSIL 120-3-C4	F040P3	120Å	3µm	300m ² /g	5,5	No
ProntoSIL 300-3-C4	K040P3	300Å	3µm	100m ² /g	2,5	No
ProntoSIL 60-5-C4	C040P5	60Å	5µm	450m ² /g	7,5	No
ProntoSIL 120-5-C4	F040P5	120Å	5µm	300m ² /g	5,5	No
ProntoSIL 200-5-C4	H040P5	200Å	5µm	200m ² /g	3,5	No
ProntoSIL 300-5-C4	K040P5	300Å	5µm	100m ² /g	2,5	No
ProntoSIL 120-3-C1	F010P3	120Å	3µm	300m ² /g	3	No
ProntoSIL 120-5-C1	F010P5	120Å	5µm	300m ² /g	3	No
ProntoSIL 120-3-Phenyl	F050P3	120Å	3µm	300m ² /g	10	Yes
ProntoSIL 60-5-Phenyl	C050P5	60Å	5µm	450m ² /g	12	Yes
ProntoSIL 120-5-Phenyl	F050P5	120Å	5µm	300m ² /g	9,5	Yes
ProntoSIL 120-3-Amino	F190P3	120Å	3µm	300m ² /g	4	No
ProntoSIL 120-5-Amino	F190P5	120Å	5µm	300m ² /g	4	No
ProntoSIL 120-10-Amino	F190P0	120Å	10µm	300m ² /g	4	No
ProntoSIL 120-5-Amino E	F191P5	120Å	5µm	300m ² /g	5	Yes
ProntoSIL 120-5-Amino H	F195P5	120Å	5µm	300m ² /g	4,5	No
ProntoSIL 120-3-CN	F200P3	120Å	3µm	300m ² /g	5	No
ProntoSIL 120-5-CN	F200P5	120Å	5µm	300m ² /g	5	No
ProntoSIL 120-10-CN	F200P0	120Å	10µm	300m ² /g	5	No
ProntoSIL 120-5-CN E	F201P5	120Å	5µm	300m ² /g	5	Yes
ProntoSIL 120-3-OH	F410P3	120Å	3µm	300m ² /g	4	No
ProntoSIL 120-5-OH	F410P5	120Å	5µm	300m ² /g	4	No
ProntoSIL 120-10-OH	F410P0	120Å	10µm	300m ² /g	4	No
ProntoSIL 120-3-C30	F300P3	120Å	3µm	300m ² /g	25	No
ProntoSIL 200-3-C30	H300P3	200Å	3µm	200m ² /g	20	No
ProntoSIL 120-5-C30	F300P5	120Å	5µm	300m ² /g	25	No
ProntoSIL 200-5-C30	H300P5	200Å	5µm	200m ² /g	20	No
ProntoSIL 200-10-C30	H300P0	200Å	10µm	200m ² /g	20	No
ProntoSIL 300-3-C30	K300P3	300Å	3µm	100m ² /g	13	No
ProntoSIL 300-5-C30	K300P5	300Å	5µm	100m ² /g	13	No
ProntoSIL 300-3-C30 EC	K301P3	300Å	3µm	100m ² /g	13	Yes
ProntoSIL 300-5-C30 EC	K301P5	300Å	5µm	100m ² /g	13	Yes
ProntoSIL Enviro PTL	C450P5	60Å	5µm	250m ² /g	2,5	No
ProntoSIL Enviro PHE	F440P3	120Å	3µm	300m ² /g	9,5	Yes
ProntoSIL Enviro PES	E430E5	100Å	5µm	260m ² /g	15	No
ProntoSIL Enviro PAH	E420E6	100Å	6µm	260m ² /g	16	No

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Bischoff guard columns

BISCHOFF CHROMATOGRAPHY

Scharlab has available the original ProntoSIL columns manufactured by BISCHOFF Chromatography, made from ultrapure spherical silica (99,999%). Strict factory controls.

The system of zero dead volume for guard columns is recommended by the manufacturer. It consists of a holder for the direct connection of the cartridge precolumn to the column. This system ensures zero dead volume on connection.

Also available is a universal precolumn system adaptable to all systems and any column.

Refills cartridges are the same. The design of the housing is what changes in each system.

Both systems can accommodate Bischoff cartridges, 10x4,0mm and 20x4,0mm.

Description	Art. No.
Precolumn cartridge 10x4,0mm (requires holder)	6301...*
Precolumn cartridge 20x4,0mm (requires holder)	6302...*
Holder for guard columns, universal system	0A15020508

* See filler Art. No. in the previous table.

HPLC: COLUMNS AND ACCESSORIES: Columns for UHPLC Bischoff



ProntoPEARL UHC columns

BISCHOFF CHROMATOGRAPHY

ProntoPEARL columns have been designed for Ultra High Speed Chromatography (UHC). Available with porous stationary phases with a particle size of 2,2µm or nonporous stationary phases with a particle size of 1,5 microns.

Advantages:

- **Save time.** With high speed ProntoPearl columns, it takes only 10% of the analysis time that a regular column needs.

- **High sensitivity.** The lower dispersion into the HPLC column leads to higher sensitivity with the same efficiency.

- **You can use standard HPLC equipment.** With columns up to 150mm in length in case of particles of 2,2µm. For particles of 1,5µm, HPLC standard equipment can be used with a column length up to 50mm. To achieve maximum efficiency in these columns, short capillaries with inner diameters ≤ 0,15mm are recommended. (See section Tubing and HPLC accessories below)

Applications:

- **ProntoPEARL TPP:** Total porous particles, 2,2µm, for small molecules. ProntoPearl 2,2µm columns can be used in place of even 1,7µm columns exhibiting lower pressures without sacrificing good resolution (P < 1000bar).

C18 ace-EPS packing is completely deactivated ("endcapped"). Stable over a wide pH range (pH 1-10). It has high hydrophobicity combined with high polar selectivity. Silanophilic activity is very low. Very basic compounds such as amitriptyline can be eluted in neutral mobile phases with excellent peak symmetry. Typical applications can be found in the pharmaceutical industry in the separation of acidic or basic compounds. It offers an alternative to the classical selectivity of a general C18 column. C18 SH packing is completely deactivated ("endcapped"). It demonstrates excellent selectivity and stability even at pH 1 due to the high carbon load of the ProntoSIL C18. It may be used in separating cis/trans of some isomers.

- **ProntoPEARL NPPsub2:** nonporous particles, 1,5µm, for large molecules. Without endcapping.

→ Continued on the next page

Scharlau UHPLC-MS & LC-MS solvents

The right purity for an excellent result



Scharlau
The wise choice

ProntoPEARL TPP

Phase	Particle size (µm)	Porus size (Å)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
Silica	2,2	120	50	2	1	0502F000T2
Silica	2,2	120	100	2	1	1002F000T2
Silica	2,2	120	150	2	1	1502F000T2
C18 SH	2,2	120	50	2	1	0502F180T2
C18 SH	2,2	120	100	2	1	1002F180T2
C18 SH	2,2	120	150	2	1	1502F180T2
C18 ace-EPS	2,2	120	50	2	1	0502F18AT2
C18 ace-EPS	2,2	120	100	2	1	1002F18AT2
C18 ace-EPS	2,2	120	150	2	1	1502F18AT2
Silica	2,2	120	50	3	1	0503F000T2
Silica	2,2	120	100	3	1	1003F000T2
Silica	2,2	120	150	3	1	1503F000T2
C18 SH	2,2	120	50	3	1	0503F180T2
C18 SH	2,2	120	100	3	1	1003F180T2
C18 SH	2,2	120	150	3	1	1503F180T2
C18 ace-EPS	2,2	120	50	3	1	0503F18AT2
C18 ace-EPS	2,2	120	100	3	1	1003F18AT2
C18 ace-EPS	2,2	120	150	3	1	1503F18AT2
Silica	2,2	120	50	4,6	1	0546F000T2
Silica	2,2	120	100	4,6	1	1046F000T2
Silica	2,2	120	150	4,6	1	1546F000T2
C18 SH	2,2	120	50	4,6	1	0546F180T2
C18 SH	2,2	120	100	4,6	1	1046F180T2
C18 SH	2,2	120	150	4,6	1	1546F180T2
C18 ace-EPS	2,2	120	50	4,6	1	0546F18AT2
C18 ace-EPS	2,2	120	100	4,6	1	1046F18AT2
C18 ace-EPS	2,2	120	150	4,6	1	1546F18AT2

ProntoPEARL NPPsub2

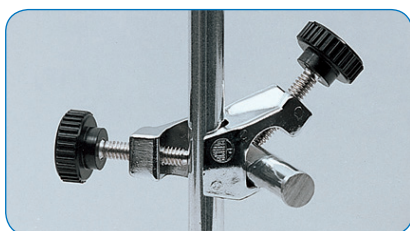
Phase	Particle size (µm)	Length (mm)	Ø internal (mm)	Pack (u.)	Art. No.
C18	1,5	30	2	1	0302Z18N15
C18	1,5	50	2	1	0502Z18N15
C18	1,5	30	3	1	0303Z18N15
C18	1,5	50	3	1	0503Z18N15
C18	1,5	30	4,6	1	0346Z18N15
C18	1,5	50	4,6	1	0546Z18N15

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INSTRUMENTAL

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- **Clamps, page 613**
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- **Open rings, page 619**
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- **Sets, page 623**
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- **Wire gauzes, page 629**

INSTRUMENTAL: Bossheads



Bosshead

Description	Pack (u.)	Art. No.
Bosshead. For Ø from 5 to 17mm	1	0191000069



Bosshead Girofix conforms to DIN standard 12895-E16

Chrome plated with swivel toothed clamp for holding rods at any angle.

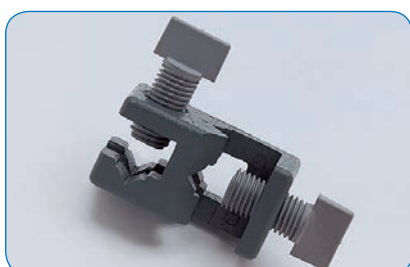
Description	Pack (u.)	Art. No.
Bosshead Girofix. For Ø from 5 to 15mm.	1	0197000531



Bosshead Maxim

For large diameters. Chrome plated with one opening to hold rods up to 30mm Ø and second opening up to 20mm Ø.

Description	Pack (u.)	Art. No.
Bosshead Maxim	1	0197000408



Bosshead Pass

For joining and clamping multipurpose, round or rectangular rods up to 12mm across. For cross T and parallel arrangements.

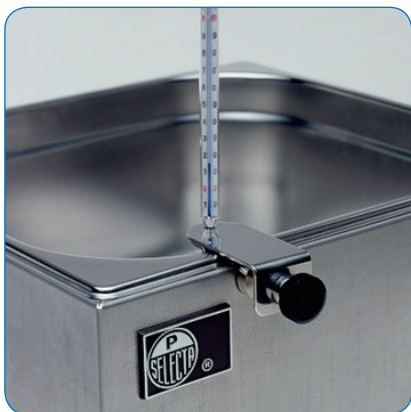
Description	Pack (u.)	Art. No.
Bosshead Pass	1	0197204055



Bosshead Suntech

For retort bars of 5 to 22mm Ø with screw clamp joints, ideal for supporting overhead stirrers.

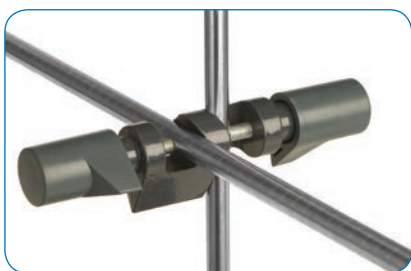
Description	Pack (u.)	Art. No.
Bosshead Suntech	1	0195900600



Bosshead for thermometers

For water and oil baths with locking screw up to 40mm. Thermometer rod diameters up to 7mm Ø.

Description	Pack (u.)	Art. No.
Bosshead for thermometers	1	0196000896



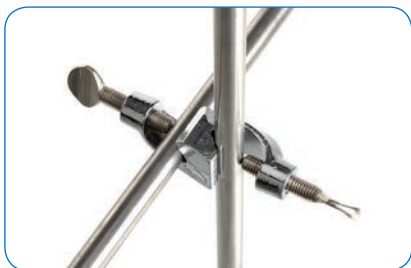
Bosshead Techno

For supporting overhead stirrers. Aluminium, 90° angle.

Ø (mm)	Pack (u.)	Art. No.
5 to 22	1	5670000BOC

Bossheads

Malleable cast iron, chrome plated. DIN 12895. For rods up to 16mm in diameter.



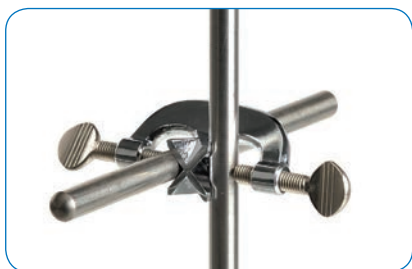
Description	Pack (u.)	Art. No.
Bosshead	1	5360000BOC

Aluminum. 90° Angle. For rods up to 16mm diameter



Description	Pack (u.)	Art. No.
Bosshead	1	5332000BOC

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Bossheads cross-type

Aluminium-alloy.

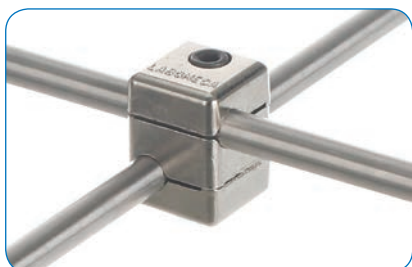
Clamping range (mm)	Pack (u.)	Art. No.
16,5	1	5350000BOC
27	1	5352000BOC



Cross bossheads

Steel 18/10 and malleable cast iron. DIN 12895. For rods up to 16mm diameter.

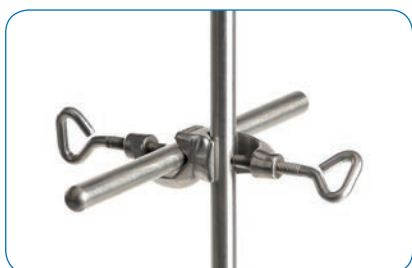
Description	Pack (u.)	Art. No.
Stainless steel cross bossheads 18/10	1	5301000BOC
Malleable cast iron bossheads	1	5361000BOC



Squared bosshead

Laboral (aluminium-alloy). Angle of 90°. With hexagon socket screws. For rods up to 12mm diameter.

Description	Pack (u.)	Art. No.
Bosshead	1	08600121B0



Steel bosshead

Steel 18/10. DIN 12895. For rods up to 16mm diameter.

Description	Pack (u.)	Art. No.
Bosshead	1	5300000BOC
Cross bosshead	1	5361000BOC

INSTRUMENTAL: Clamps



Beaker clamp Maxim

Made of chrome plated metal with clamp end covered with stabilized glass fibre. For wide openings.

Ø (mm)	Pack (u.)	Art. No.
80 to 180	1	0197000406

For further information, please contact scharlab@scharlab.com



Beaker tongs Protecvas

For beakers up to 2000ml. With a span from 50 to 120mm Ø. Jaws protected with rubber pads.

Total length (mm)	Pack (u.)	Art. No.
300	1	0197000532



Bosshead burette and tube clamp Trips

Made of chrome plated metal.

Ø (mm)	Pack (u.)	Art. No.
4 to 20	1	0197005211



Bosshead with burette and tube clamp

Made of chrome plated metal with PVC coated double prong jaws.

Ø (mm)	Pack (u.)	Art. No.
7 to 25	1	0197000140



Bosshead with clamp for burettes and thermometers Automatic

Made of chrome plated metal with spring clamp jaw.

Ø (mm)	Pack (u.)	Art. No.
0 to 25	1	0197000251



Burette clamp Trips

Made of chrome plated metal.

Diameter (mm)	Pack (u.)	Art. No.
4 to 20	1	0197000521



Clamp Medimax

With chain and spring clamp made of AISI 304 stainless steel.

Ø (mm)	Pack (u.)	Art. No.
90 to 145	1	0197000405

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Clamp for burettes and condensers

Made of chrome plated metal with PVC coated jaws.

Ø (mm)	Pack (u.)	Art. No.
12 to 45	1	0197000131



Clamp for burettes and tubes

Made of chrome plated metal with two prong jaws coated with PVC.

Ø (mm)	Pack (u.)	Art. No.
7 to 25	1	0197000130

Clamps Triplex

Made of chrome plated metal with PVC coated jaws.



Ø (mm)	Pack (u.)	Art. No.
0 to 35	1	0197000160
0 to 60	1	0197000161



Clamps for vessels

Made of AISI 304 electro-bright finished stainless steel. Made for beakers from 150 to 1500ml. For diameters from 60 to 100mm.

Description	Total length (mm)	Pack (u.)	Art. No.
Sides coated with stable fiberglass	450	1	0191000284
Sides coated with stable mineral fiberglass. With centre offset balancing device.	450	1	0191001331

For further information, please contact scharlab@scharlab.com



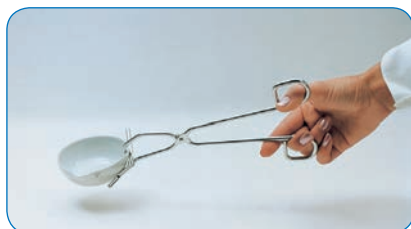
Crucible tongs

With neck and curved tips, stainless steel

Total length (mm)	Pack (u.)	Art. No.
200	1	0191010420
300	1	0191010430
400	1	0191010440
500 with protected neck and handle	1	0191010450
400 with protected neck and handle	1	0191001330

With neck and curved tips, with plastic handles

Total length (mm)	Pack (u.)	Art. No.
220	1	0191001590
330	1	0191001591



Dish tongs

Made of electro-bright finished AISI 304 stainless steel.

Total length (mm)	Pack (u.)	Art. No.
250	1	0191000283



Dissecting forceps

Description	Total length (mm)	Pack (u.)	Art. No.
Straight Blunt	140	1	0191000580
Straight nose pliers	140	1	0191000801
Curved Blunt	140	1	0191000865
Curved nose pliers	140	1	0191000864



Double burette clamp Duplex

Self adjusting clamp for 2 burettes, with central bosshead screw.

Description	Pack (u.)	Art. No.
Chrome plated and PVC coated jaws. Allows total visibility of the burette scale.	1	0197000181



Ground round joint clips

Made of chromed steel

Clamping range (mm)	Pack (u.)	Art. No.
13	1	0191040913
19	1	0191040919
29	1	0191040929
35	1	0191040935

Made of stainless steel, with lock fitting

Clamping range (mm)	Pack (u.)	Art. No.
19	1	0191001720
29	1	0191001464
35	1	0191001465



Laboratory forceps

Description	Total length (mm)	Pack (u.)	Art. No.
Sprung straight forceps with fine tip	160	1	0191001189
Sprung curve forceps with fine tip	160	1	0191001190
Curved forceps	160	1	0196000128
Fine-tipped forceps	120	1	0191001191



Spring clamp for burettes and thermometers Automatic

Made of chrome plated metal with spring clamp jaw. Designed for test tubes.

Ø (mm)	Pack (u.)	Art. No.
0 to 25	1	0197000025



Sterilization tongs

Description	Total length (mm)	Pack (u.)	Art. No.
Straight tip	200	1	0191002801
Curved tip	200	1	0191002802



Swivel clamp bosshead for condensers

Rotatory. Made of chrome plated metal with PVC coated jaws.

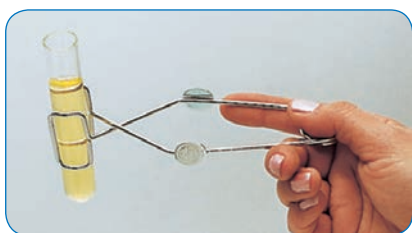
Ø (mm)	Pack (u.)	Art. No.
12 to 45	1	0197000141



Swivel universal clamp Minimax

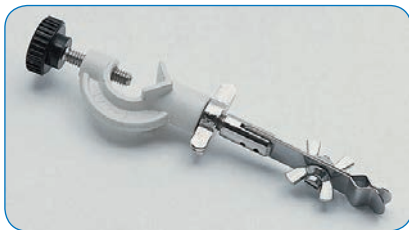
Ø (mm)	Pack (u.)	Art. No.
0 to 80	1	0197000404

Test tube tongs



Description	For tubes	Total length (mm)	Pack (u.)	Art. No.
Nickel-plated steel	Up to 30mm Ø	145	1	0191000285
Wood	From 12 to 25mm Ø	180	1	0191001094

Thermometer clamps



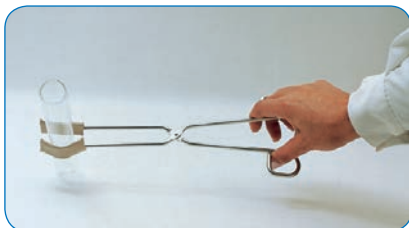
Description	Pack (u.)	Art. No.
With swivel nut and snaplock from 6 to 15mm	1	0196000036
Shape hook	1	0191000037



Tongs for flasks and test tubes

Made of AISI 304 electro-bright finished stainless steel. For diameters from 25 to 60mm. Tong ends covered with stabilized glass fiber.

Total length (mm)	Pack (u.)	Art. No.
300	1	0191028230
400	1	0191028240



Tongs for flasks and tubes

Electro-bright finished AISI 304 stainless steel. For diameters from 15 to 60mm. Tong tips covered with stabilized glass fiber.

Total length (mm)	Pack (u.)	Art. No.
300	1	0191028130
400	1	0191028140



Universal clamp Giromax with metal rotation

With cork lined jaws. With a hinge joint of 180° rotation angle.

Ø (mm)	Pack (u.)	Art. No.
0 a 80	1	0197004031



Universal clamp Minimax Crom

Made of chrome plated metal with cork protected jaws.

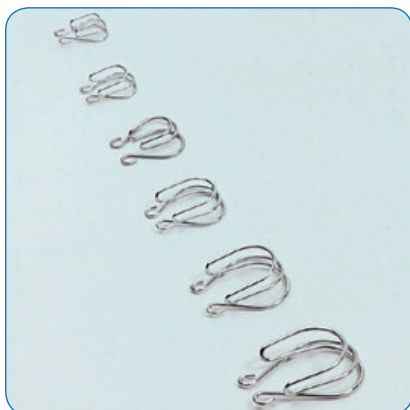
Ø (mm)	Pack (u.)	Art. No.
0 to 80	1	0191001463



Universal clamp Minimax

Made of Dur-aluminium with cork lined jaws.

Ø (mm)	Pack (u.)	Art. No.
0 to 80	1	0197000403

INSTRUMENTAL: Clips

Conical joint clips made from AISI 304 stainless steel

Connector	Pack (u.)	Art. No.
7,5/16	1	0191000716
10/19	1	0191001019
12/21	1	0191001221
14/23	1	0191001423
19/26	1	0191001926
24/29	1	0191002429
29/32	1	0191002932
45/40	1	0191004540

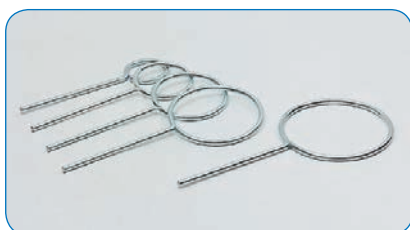

Conical joint clips made of PMP (polymethyl pentane)

Connector	Colour	Pack (u.)	Art. No.
10/19	Black	1	0191001095
14/23	Yellow	1	0191001096
19/26	Blue	1	0191001097
24/29	Green	1	0191001098
29/32	Red	1	0191001099
34/35	Orange	1	0191001000
45/40	Brown	1	0191001101

INSTRUMENTAL: Open rings

Closed ring bosshead supports made of galvanized steel

Ø ext. ring (mm)	Usable length (mm)	Pack (u.)	Art. No.
60	100	1	0197000536
80	130	1	0197000538
100	160	1	0197005310
120	170	1	0197005312
140	180	1	0197005314


Closed ring retort supports made from galvanized steel

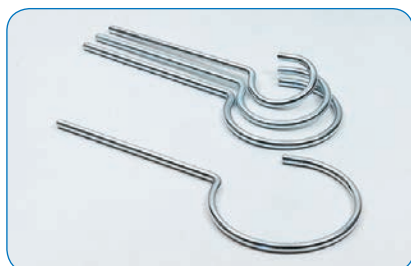
Ø ext. ring (mm)	Usable length (mm)	Pack (u.)	Art. No.
60	180	1	0191000236
80	195	1	0191000238
100	200	1	0191002310
120	215	1	0191002312
140	225	1	0191002314

For further information, please contact scharlab@scharlab.com



Open ring bosshead supports made of galvanized steel

Ø ext. ring (mm)	Usable length (mm)	Pack (u.)	Art. No.
60	100	1	0197000506
80	130	1	0197000508
100	160	1	0197005010
120	170	1	0197005012
140	180	1	0197005014



Open ring retort supports made of galvanized steel

Ø ext. ring (mm)	Usable length (mm)	Pack (u.)	Art. No.
60	180	1	0191000206
80	195	1	0191000208
100	200	1	0191002010
120	215	1	0191002012
140	225	1	0191002014



Support rings

Stainless steel 18/10. With and without bosshead.

Ø int. ring (mm)	Bosshead	Pack (u.)	Art. No.
70	With clamp	1	5501000BOC
100	With clamp	1	5502000BOC
120	With clamp	1	5503000BOC
140	With clamp	1	5504000BOC
70	Without clamp	1	5501M00BOC
100	Without clamp	1	5502M00BOC
120	Without clamp	1	5503M00BOC
140	Without clamp	1	5504M00BOC

INSTRUMENTAL: Platforms



Aluminium anodised Lab-Jacks

Aluminium anodised. DIN 12897. Blue. Smaller models up to 240x240mm have a simple adjusting wheel, which can be operated by hand. With the bigger models from 300x300mm on we recommend the use of a ratchet, which connects with a special adjusting wheel.

NOTE: Please order ratchet separately.

Description	Size (mm)	Elevator height (mm)	Dynamic max. capacity (Kg)	Static max. capacity (Kg)	Pack (u.)	Art. No.
Lab-Jack	100x100	55 to 120	5	10	1	1101600BOC
Lab-Jack	160x130	60 to 275	7	30	1	1102100BOC
Lab-Jack	200x200	60 to 275	7	30	1	1103100BOC
Lab-Jack	240x240	60 to 275	7	30	1	1104100BOC
Lab-Jack	300x300	130 to 470	12	60	1	1108100BOC
Ratchet	190	-	-	-	1	1108800BOC



Lab-Jacks Maxi

Steel 18/10. Up to 30% more height. With adjusting wheel.

Description	Size (mm)	Elevator height (mm)	Dynamic max. capacity (Kg)	Static max. capacity (Kg)	Pack (u.)	Art. No.
Lab-Jack Maxi	160x130	75 to 400	7	30	1	1112200BOC
Lab-Jack Maxi	200x200	75 to 400	7	30	1	1113200BOC



Stainless steel Lab-Jacks

Stainless steel 18/10. DIN 12897. Smaller models up to 240x240mm have a simple adjusting wheel, which can be operated by hand. With the bigger models from 300x300mm on we recommend the use of a ratchet, which connects with a special adjusting wheel.

Description	Size (mm)	Elevator height (mm)	Dynamic max. capacity (Kg)	Static max. capacity (Kg)	Pack (u.)	Art. No.
Lab-Jack	100x100	55 to 120	5	10	1	1111500BOC
Lab-Jack	160x130	60 to 275	7	30	1	1112000BOC
Lab-Jack	200x200	60 to 275	7	30	1	1113000BOC
Lab-Jack	240x240	60 to 275	7	30	1	1114000BOC
Lab-Jack	300x300	130 to 470	12	60	1	1118000BOC
Lab-Jack	400x400	130 to 470	12	60	1	1119000BOC
Ratchet	190	-	-	-	1	1108800BOC

For further information, please contact scharlab@scharlab.com

INSTRUMENTAL: Scalpel handles



Protective sheath for scalpel handles

For safe-keeping of the scalpel incl. blade. The sheath can be used for any blade type as well as for all existing Bayha handles.

Description	Pack (u.)	Art. No.
Protective sheath for scalpel handles	1	5990000INS



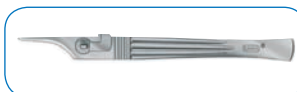
Scalpel blades

Carbon steel, hardened, individually packed, non-sterile.

Type	Pack (u.)	Art. No.
11	12	1110000INS
15	12	1150000INS
16	12	1160000INS
18	12	1180000INS
19	12	1190000INS
20	12	1200000INS
21	12	1210000INS
22	12	1220000INS
23	12	1230000INS
24	12	1240000INS
26	12	1260000INS
27	12	1270000INS
28	12	1280000INS
29	12	1290000INS

Scalpel handles

Type 1, 4, 5: For interchangeable blades, stainless steel, suitable for all blade forms.
Type 6: Handle coating made of plastic for fatigue-free working over a longer period.



Type 1



Type 4



Type 5



Type 6

Type	Length (mm)	Pack (u.)	Art. No.
1	130	1	5409841INS
4	160	1	5409844INS
5	150	1	5409845INS
6	160	1	5429961INS

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INSTRUMENTAL: Scissors

Laboratory scissors AISI 140 stainless steel

With a serrated/dented blade. Suitable for cutting hard plastic, cardboard and soft wire, etc.

Universal Scissors Multipurpose

Cut length (mm)	Total length (mm)	Pack (u.)	Art. No.
50	180	1	0191001468

Long laboratory scissors

Cut length (mm)	Total length (mm)	Pack (u.)	Art. No.
100	250	1	0191001469

Multipurpose scissors, straight

Cut length (mm)	Total length (mm)	Pack (u.)	Art. No.
50	140	1	0191001470

Multipurpose scissors, curve

Cut length (mm)	Total length (mm)	Pack (u.)	Art. No.
40	145	1	0191000806

Dissection scissors

Cut length (mm)	Total length (mm)	Pack (u.)	Art. No.
35	125	1	0191000807

Mini dissection scissor

Cut length (mm)	Total length (mm)	Pack (u.)	Art. No.
25	110	1	0191001471

Flat pliers

Cut length (mm)	Total length (mm)	Pack (u.)	Art. No.
40	160	1	0191001472

INSTRUMENTAL: Sets

Biologist set, 5 pieces

130mm fine preparation forceps, straight.
 140mm dissecting needle with plastic handle, straight.
 200mm specimen loop with plastic handle.
 155mm scalpel with wooden handle, blade 30mm.
 105mm microscopic scissors, straight.

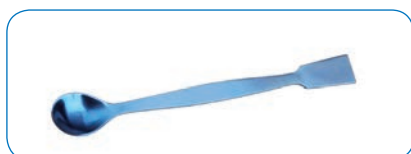
Type	Pack (u.)	Art. No.
Biologist set, 5 pieces	1	HSO-128-00

For further information, please contact scharlab@scharlab.com


Set for students, 7 pieces

Simple type:
 Scalpel handle No. 3.
 5 pieces each of non-sterile scalpel blades Fig. 10 and 15.
 Preparations scissors.
 Fine, sharp forceps.
 Lancet dissection needle.
 Dissection needle.

Type	Pack (u.)	Art. No.
Set for students, 7 pieces	1	HSO-130-00

INSTRUMENTAL: Spatulas

Chemical spoon, titanium, 180mm long

Width (mm)	Spoon (mm)	Pack (u.)	Art. No.
22	28x40	1	392000BOC


Double ended spoons, steel 18 / 10

Length (mm)	Spatula (mm)	Pack (u.)	Art. No.
120	22x30 and 17x23	1	346000BOC
150	22x30 and 17x23	1	3461000BOC
180	29x40 and 22x30	1	3462000BOC
210	29x40 and 22x30	1	0005150021
250	29x48 and 29x40	1	3464000BOC
300	35x48 and 29x40	1	3465000BOC


Double spatula, titanium

Size (mm)	Ø (mm)	Pack (u.)	Art. No.
11x210	4	1	391000BOC

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Double spatulas

Stainless steel 18/10 or pure nickel 99,5%. Straight.

Material	Width/Length (mm)	Pack (u.)	Art. No.
Stainless steel 18/10	9x130	1	310000BOC
Stainless steel 18/10	9x150	1	3101000BOC
Stainless steel 18/10	9x185	1	3102000BOC
Stainless steel 18/10	11x210	1	3103000BOC
Stainless steel 18/10	11x250	1	3104000BOC
Stainless steel 18/10	16x300	1	3105000BOC
Pure nickel 99,5%	9x130	1	3110000BOC
Pure nickel 99,5%	11x210	1	3113000BOC
Pure nickel 99,5%	11x250	1	3114000BOC



Double spatulas, spoon shaped

Stainless steel 18/10. Microspoon.

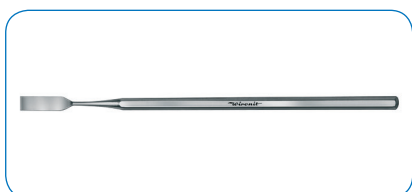
Length/Width (mm)	Pack (u.)	Art. No.
5x130	1	3180000BOC
5x185	1	3181000BOC
5x210	1	3182000BOC



Laboratory spoons

Steel 18/10.

Length (mm)	Spatula (mm)	Pack (u.)	Art. No.
120	26x40	1	3480000BOC
135	31x45	1	3481000BOC
180	38x55	1	3482000BOC
195	45x60	1	3483000BOC
280	70x85	1	3484000BOC



Micro spatulas

Stainless steel. With metal handle.

Stainless steel with handle

Length (mm)	Spatula (mm)	Pack (u.)	Art. No.
140	2x23	1	HWN001-002
140	3x23	1	HWN001-003
140	4x21	1	HWN001-004
140	5x21	1	HWN001-005

Spoon-shaped, stainless steel with handle

Length (mm)	Spatula (mm)	Pack (u.)	Art. No.
140	4x21	1	00HWN00804
140	5x21	1	3264000INS



Micro spatulas, double ended

Steel 18/10.

Size (mm)	Ø (mm)	Pack (u.)	Art. No.
3x130	1,5	1	3014000BOC
3x150	1,5	1	3015000BOC
4x150	2	1	3018000BOC



Micro spoon-spatulas

Steel 18/10.

Type	Size (mm)	Spatula (mm)	Spoon (mm)	Pack (u.)	Art. No.
Spoon-shaped	5x150	5x40	5x9	1	3340000BOC
Spoon-shaped	5x200	5x45	5x9	1	3345000BOC



Micro spoons

Steel 18/10. Half-rounded.

Size (mm)	Ø (mm)	Pack (u.)	Art. No.
4x130	2	1	3300000BOC
9x130	3	1	3301000BOC
4x150	2	1	3302000BOC
9x150	3	1	3303000BOC
4x185	2	1	3304000BOC
9x185	3	1	3305000BOC
4x210	2	1	3306000BOC
9x210	3	1	3307000BOC



Mortar double spatulas

Steel 18/10. Heavy type.

Length (mm)	Pack (u.)	Art. No.
200	1	3261000BOC
250	1	3262000BOC
300	1	3263000BOC
400	1	3433000BOC



Powder spoon

Steel 18/10.

Length (mm)	Spatula (mm)	Pack (u.)	Art. No.
170	10x40	1	3360000BOC

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Spoon shaped spatulas

Stainless steel 18/10.

Length/Width (mm)	Pack (u.)	Art. No.
5x130	1	320000BOC
5x185	1	3201000BOC



Spoon-spatulas

Stainless steel 18/10 and pure nickel 99,5%.

Material	Length (mm)	Spatula (mm)	Spoon (mm)	Pack (u.)	Art. No.
Stainless steel 18/10	120	20x30	23x31	1	342000BOC
Stainless steel 18/10	150	22x32	27x38	1	3421000BOC
Stainless steel 18/10	180	22x32	28x40	1	3422000BOC
Stainless steel 18/10	210	22x32	28x40	1	3423000BOC
Stainless steel 18/10	250	32x45	35x50	1	3424000BOC
Stainless steel 18/10	300	37x50	41x55	1	0005150330
Pure nickel 99,5%	120	20x30	23x31	1	3430000BOC
Pure nickel 99,5%	150	22x32	27x38	1	3431000BOC
Pure nickel 99,5%	180	22x32	28x40	1	3432000BOC



Spoons and spatulas

Porcelain.

Length (mm)	Pack (u.)	Art. No.
121	1	011-0074/4
170	1	011-0074/6
210	1	011-0074/8
305	1	3202000BOC

For further information, please contact scharlab@scharlab.com

INSTRUMENTAL: Supports

Burette stand

With AISI 304 stainless steel rod of 10mm Ø x 600mm high. Weight 2Kg. Made specifically for the DUPLEX burette clamp with two plates at the base, black and white.

Ø (mm)	Height (mm)	Pack (u.)	Art. No.
10	600	1	0196000117


Double base support "T" Maxi

Rod of AISI 304 stainless steel of 20 Ø x 800mm high. Designed to support weights up to 20Kg at 300mm height from the base. Useful for stirrers.

Ø (mm)	Height (mm)	Pack (u.)	Art. No.
20	800	1	0196000410


Retort stands

Shaft in stainless steel AISI 304.

Shaft in stainless steel

Shaft dim. ØxH (mm)	Plate dim. LengthxWidth (mm)	Pack (u.)	Art. No.
8x500	200x125	1	0196002268
10x600	250x160	1	0196022610
12x700	315x200	1	0196022612
12x800	315x200	1	0196022613

Dur-aluminum shaft

Shaft dim. ØxH (mm)	Plate dim. LengthxWidth (mm)	Pack (u.)	Art. No.
8x500	200x125	1	0196000778
10x600	250x160	1	0196000779
12x700	315x200	1	0196007712
12x800	315x200	1	0196077812

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Tripod stand with ring top

Ø ext. ring (mm)	Total height (mm)	Pack (u.)	Art. No.
80	210	1	0197000808



Tripod supports with round top with AISI 304 stainless steel shaft

Ø ext. ring (mm)	Total height (mm)	Pack (u.)	Art. No.
80	210	1	0196002868

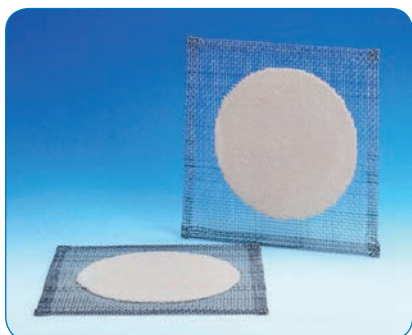


"U" shaped stand

AISI 304 stainless steel rod. Very stable. Weight: 7Kg.

Ø (mm)	Height (mm)	Pack (u.)	Art. No.
20	800	1	0196000411

INSTRUMENTAL: Wire gauzes



Wire gauzes

With round ceramic center.

Size (mm)	Pack (u.)	Art. No.
120x120	1	00101KE-12
160x160	1	00101KE-16
200x200	1	00101KE-20

For further information, please contact scharlab@scharlab.com

LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES

- Glass columns, *page 630*
- Liquid chromatography columns, *page 632*
- Connection systems, *page 635*
- Connectors, *page 637*
- Adapters, *page 638*
- Valves, *page 640*
- Pipes, *page 641*

LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES: Glass columns

Chromatography columns PTFE stopcock and socket
SCHARLAU

Usable length (mm)	Ø (mm)	Cap. (ml)	Socket	Pack (u.)	Art. No.
200	10	15	14/23	1	073-440701
200	15	35	14/23	1	073-440702
400	20	125	29/32	1	073-440704
600	30	430	29/32	1	073-440706


Chromatography columns with glass stopcock socket and cone and porosity 0 sintered disc
SCHARLAU

Usable length (mm)	Ø int. (mm)	Ground joints	Pack (u.)	Art. No.
300	10	14/23	1	073-000508
300	15	14/23	1	073-000509
400	20	29/32	1	073-000510
400	25	29/32	1	073-000511
500	30	29/32	1	073-000512


Chromatography columns with porosity 0 sintered disc PTFE stopcock and socket
SCHARLAU

Usable length (mm)	Ø plate (mm)	Cap. (ml)	Socket	Pack (u.)	Art. No.
200	10	15	14/23	1	073-450701
300	10	23	14/23	1	073-450702
300	15	35	14/23	1	073-450703
400	20	125	29/32	1	073-450704
400	30	150	29/32	1	073-450705
600	30	430	29/32	1	073-450706



Chromatography columns with porosity 0 sintered disc PTFE needle stopcock SCHARLAU

Usable length (mm)	Ø plate (mm)	Pack (u.)	Art. No.
200	10	1	073-000554
300	10	1	073-000556
300	15	1	073-000557
300	20	1	073-000558
400	25	1	073-000559
500	20	1	073-000560



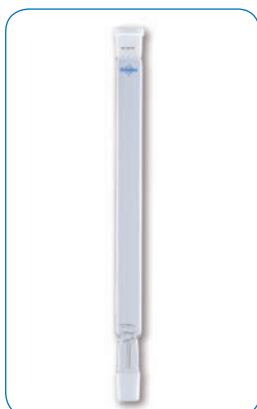
Columns for flash chromatography SCHARLAU

Column 25x300mm

Description	Ground joints	Pack (u.)	Art. No.
Complete column (column, funnel and lid)	29/32	1	073-104858
Column with PTFE spindle stopcock 25x300mm	29/32	1	073-4858/1
Funnel of 500ml	29/32	1	073-4858/2
Lid with PTFE needle screwcock	29/32	1	073-4858/3

Column 47x500mm

Description	Ground joints	Pack (u.)	Art. No.
Complete column (column, funnel and lid)	29/32	1	073-104860
Column with PTFE spindle stopcock 47x500mm	29/32	1	073-4860/1
Funnel of 1.000ml	29/32	1	073-4860/2
Lid with PTFE needle screwcock	29/32	1	073-4858/3



Fractionating columns with ground joints, without stopcock SCHARLAU

Usable length (mm)	Ø int. (mm)	Ground joints	Pack (u.)	Art. No.
100	20	14/23	1	073-000501
200	20	14/23	1	073-000502
250	30	29/32	1	073-000503
300	30	29/32	1	073-000504
400	30	29/32	1	073-000505
500	30	29/32	1	073-000506
600	30	29/32	1	073-000507

Silica gel in CHEMICALS





Snyder distilling columns
SCHARLAU

Usable length (mm)	Number of plates	Ground joints	Pack (u.)	Art. No.
300	6	29/32	1	073-000533
500	10	29/32	1	073-000534



Vigreux fractionating columns
SCHARLAU

Usable length (mm)	Ø int. (mm)	Ground joints	Pack (u.)	Art. No.
200	20	14/23	1	073-000525
250	16	14/23	1	073-000526
250	30	29/32	1	073-000527
300	30	29/32	1	073-000528
500	30	29/32	1	073-000529
600	30	29/32	1	073-000530

LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES: Liquid chromatography columns



BenchMarck Columns
DIBA OMNIFIT

BenchMark™ columns are designed to suit the majority of standard laboratory chromatography applications. They are ideal for aqueous systems and compatible with solvents used in common liquid chromatography applications.

- Operating temp. 4-60°C
- pH 1-14
- Not resistant to acetone, ketones, chlorinated hydrocarbons, aliphatic esters, phenol, > 10% NaOH, > 10% HCl, > 5% acetic acid, or strong mineral acid.
- Endpieces can be fix (F) or adjustable (A)

In case of using one of these solvents SolventPlus™ columns are available. If higher temperatures are required, HIT Columns are the ideal choice. Ask scharlab@scharlab.com. They are also available in 3mm ID columns.

→ Continued on the next page

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Complete columns. Includes: glass tube, 2 endpieces, preassembled, with 25µm PE frits, 2x25µm PTFE frits, 2x10µm PTFE frits, 2x10µm PE frits, and 2m x 1/16" OD PTFE tubing with 1/4-28 UNF fitting (PP) at one end and 0,5m x 1/16" OD PTFE tubing with 1/4-28 UNF fitting (PP) at other end.

Length (mm)	Ø int. (mm)	Endcappings	Pack (u.)	Art. No.
50	6,6	2xA	1	6BCC0605AA
50	6,6	1xF 1xA	1	6BCC0605AF
50	6,6	2xF	1	6BCC0605FF
100	6,6	2xA	1	6BCC0610AA
100	6,6	1xF 1xA	1	6BCC0610AF
100	6,6	2xF	1	6BCC0610FF
150	6,6	1xF 1xA	1	6BCC0615AF
150	6,6	2xF	1	6BCC0615FF
250	6,6	2xA	1	6BCC0625AA
250	6,6	1xF 1xA	1	6BCC0625AF
400	6,6	2xA	1	6BCC0640AA
400	6,6	1xF 1xA	1	6BCC0640AF
400	6,6	2xF	1	6BCC0640FF
100	10	1xF 1xA	1	6BCC1010AF
100	10	2xF	1	6BCC1010FF
150	10	1xF 1xA	1	6BCC1015AF
150	10	2xF	1	6BCC1015FF
250	10	2xA	1	6BCC1025AA
250	10	1xF 1xA	1	6BCC1025AF
250	10	2xF	1	6BCC1025FF
400	10	1xF 1xA	1	6BCC1040AF
400	10	2xF	1	6BCC1040FF
500	10	1xF 1xA	1	6BCC1050AF
500	10	2xF	1	6BCC1050FF
100	15	1xF 1xA	1	6BCC1510AF
100	15	2xF	1	6BCC1510FF
150	15	1xF 1xA	1	6BCC1515AF
150	15	2xF	1	6BCC1515FF
250	15	1xF 1xA	1	6BCC1525AF

Length (mm)	Ø int. (mm)	Endcappings	Pack (u.)	Art. No.
250	15	2xF	1	6BCC1525FF
400	15	1xF 1xA	1	6BCC1540AF
400	15	2xF	1	6BCC1540FF
500	15	1xF 1xA	1	6BCC1550AF
500	15	2xF	1	6BCC1550FF
100	25	1xF 1xA	1	6BCC2510AF
100	25	2xF	1	6BCC2510FF
150	25	1xF 1xA	1	6BCC2515AF
150	25	2xF	1	6BCC2515FF
250	25	2xA	1	6BCC2525AA
250	25	1xF 1xA	1	6BCC2525AF
250	25	2xF	1	6BCC2525FF
400	25	1xF 1xA	1	6BCC2540AF
400	25	2xF	1	6BCC2540FF
500	25	1xF 1xA	1	6BCC2550AF
500	25	2xF	1	6BCC2550FF
150	35	1xF 1xA	1	6BCC3515AF
150	35	2xF	1	6BCC3515FF
250	35	1xF 1xA	1	6BCC3525AF
250	35	2xF	1	6BCC3525FF
400	35	1xF 1xA	1	6BCC3540AF
400	35	2xF	1	6BCC3540FF
250	50	1xF 1xA	1	6BCC5025AF
250	50	2xF	1	6BCC5025FF
400	50	1xF 1xA	1	6BCC5040AF
400	50	2xF	1	6BCC5040FF
500	50	1xF 1xA	1	6BCC5050AF
500	50	2xF	1	6BCC5050FF

Replacement endpieces. O-rings and replacement frits are also available.

Ø int. (mm)	Endcapping	Pack (u.)	Art. No.
6,6	Adjustable	1	0006BAE-06
10	Adjustable	1	0006BAE-10
15	Adjustable	1	0006BAE-15
25	Adjustable	1	0006BAE-25
35	Adjustable	1	0006BAE-35
50	Adjustable	1	0006BAE-50
6,6	Fix	1	0006BFE-06
10	Fix	1	0006BFE-10
15	Fix	1	0006BFE-15
25	Fix	1	0006BFE-25
35	Fix	1	0006BFE-35
50	Fix	1	0006BFE-50

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Replacement glass columns

Length (mm)	Ø int. (mm)	Pack (u.)	Art. No.
50	6,6	1	06RG-06-05
100	6,6	1	06RG-06-10
150	6,6	1	06RG-06-15
250	6,6	1	06RG-06-25
400	6,6	1	06RG-06-40
100	10	1	06RG-10-10
150	10	1	06RG-10-15
250	10	1	06RG-10-25
400	10	1	06RG-10-40
500	10	1	06RG-10-50
100	15	1	06RG-15-10
150	15	1	06RG-15-15
250	15	1	06RG-15-25
400	15	1	06RG-15-40
500	15	1	06RG-15-50
100	25	1	06RG-25-10
150	25	1	06RG-25-15
250	25	1	06RG-25-25
400	25	1	06RG-25-40
500	25	1	06RG-25-50
150	35	1	06RG-35-15
250	35	1	06RG-35-25
400	35	1	06RG-35-40
250	50	1	06RG-50-25
400	50	1	06RG-50-40
500	50	1	06RG-50-50

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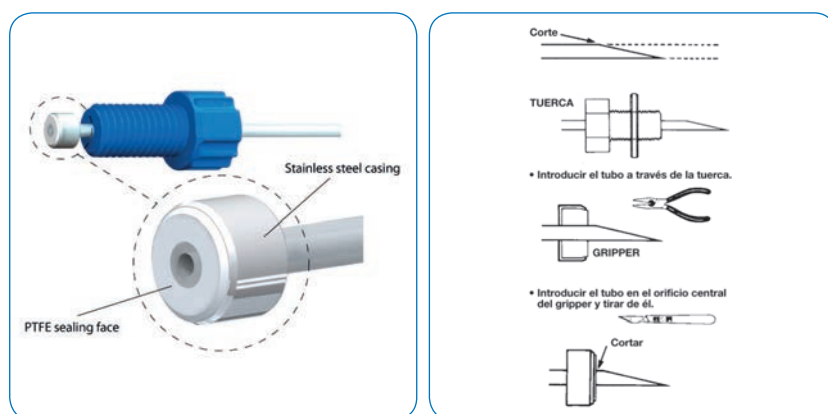


LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES

LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES: Connection systems
Dibafit™ Gripper Fittings
DIBA OMNIFIT

Chemically inert flangeless fitting with permanently attached PTFE ferrule ideal for repeat connections/disconnections. The Dibafit™ Gripper fitting system uses a one-piece ferrule which fits permanently onto the outside of semi-rigid tubing as shows **Gripper figure**. The fitting nut can spin freely, eliminating tubing twist and allowing easy repeat connect/disconnect. The fitting does not compress the tubing.

- Pressure rated up to 1000psi (69bar)
- For 1/16" or 1/8" OD semi-rigid tubing
- For 1/4"-28 UNF or M6 flat-bottom ports



Gripper figure

Description	Pack (u.)	Art. No.
Gripper conector PP 1/4"-28 for 1/16" D.E. Black	10	016-002100
Gripper conector PP 1/4"-28 for 1/16" D.E. Brown	10	016-002101
Gripper conector PP 1/4"-28 for 1/16" D.E. Red	10	016-002102
Gripper conector PP 1/4"-28 for 1/16" D.E. Orange	10	016-002103
Gripper conector PP 1/4"-28 for 1/16" D.E. Yellow	10	016-002104
Gripper conector PP 1/4"-28 for 1/16" D.E. Green	10	016-002105
Gripper conector PP 1/4"-28 for 1/16" D.E. Blue	10	016-002106
Gripper conector PP 1/4"-28 for 1/16" D.E. Grey	10	016-002108
Gripper conector PP 1/4"-28 for 1/16" D.E. Mixed	10	016-002110
Gripper conector ETFE 1/4"-28 for 1/16" D.E. Natural	10	016-002130
Gripper conector PEEK 1/4"-28 for 1/16" D.E. Natural	10	016-002119
Gripper conector PP 1/4"-28 for 1/8" D.E. Red	10	016-002202
Gripper conector PP 1/4"-28 for 1/8" D.E. Mixed	10	016-002210
Gripper PTFE/SS for tube of 1/16" D.E.	10	016-002310
GripperPTFE/SS for tube of 1/18" D.E.	10	016-002312

HPLC columns in HPLC



For further information, please contact scharlab@scharlab.com

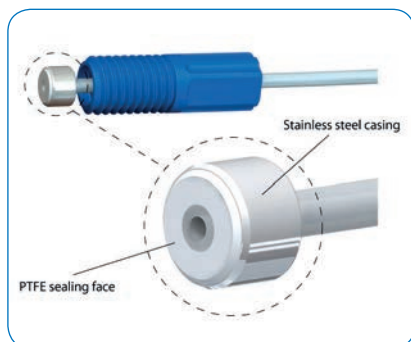
Omni-Lok™ Ferrule System Type P DIBA OMNIFIT

Omni-Lok™ Type P Ferrule System. Chemically inert flangeless fitting with permanently attached PTFE ferrule ideal for repeat connect/disconnect.

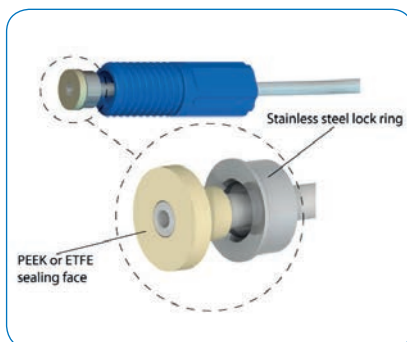
- Pressure rated up to 1000psi (69 bar)
- For 1/16", 1/8" or 3/16" OD semi-rigid tubing e.g. PTFE, ETFE, FEP
- For flat-bottom 1/4"-28 UNF, M6 or 5/16"-24 UNF ports
- Use with Omni-Lok™ compact head or Click-N-Seal® selftorquing nuts

Omni-Lok™ Type S Ferrule System. Chemically inert with permanently attached PEEK™ or ETFE ferrules, ideal for repeated connect/disconnect.

- Pressure rated up to 500psi (34 bar)
- For 1/16", 1/8" or 3/16" OD semi-rigid tubing e.g. PTFE, ETFE, FEP
- For flat-bottom 1/4"-28 UNF, M6 or 5/16"-24 UNF ports
- Use with Omni-Lok™ compact head or Click-N-Seal® selftorquing nuts
- PEEK™ ferrules can be used with rigid tubing, e.g. PEEK™
- The Omni-Lok S type ferrules require a fixing tool, Art. No. 016-0008AT

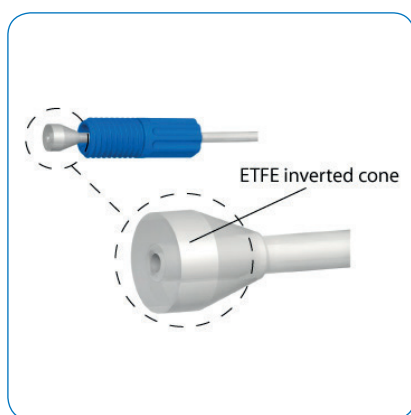


P Type



S Type

Description	Pack (u.)	Art. No.
Omni-Lok type P Ferrule PTFE for 1/16" O.D.	10	000008FT16
Omni-Lok type P Ferrule PTFE for 1/8" O.D.	10	000008FT32
Omni-Lok type S Ferrule PEEK for 1/16" O.D.	10	000008FK16
Omni-Lok type S Ferrule PEEK for 1/8" O.D.	10	000008FK32
Omni-Lok type S Ferrule ETFE for 1/16" O.D.	10	000008FZ16
Omni-Lok type S Ferrule ETFE for 1/8" O.D.	10	000008FZ32
Tool for S type ferrules	1	00000008AT
Omni-Lok PP 1/4"-28 Connector for 1/16 O.D. Red	10	8NF16-YC5R
Omni-Lok PP 1/4"-28 Connector for 1/16 O.D. Blue	10	8NF16-YC5U
Omni-Lok PP 1/4"-28 Connector for 1/16 O.D. Green	10	8NF16-YC5G
Omni-Lok PP 1/4"-28 Connector for 1/8 O.D. Red	10	8NF32-YC5R
Omni-Lok PP 1/4"-28 Connector for 1/8 O.D. Blue	10	8NF32-YC5U
Omni-Lok PP 1/4"-28 Connector for 1/8 O.D. Green	10	8NF32-YC5G
Click-N-Seal PC 1/4"-28 Connector for 1/16 O.D. Black	10	8NF16-CS5B
Click-N-Seal PC 1/4"-28 Connector for 1/8 O.D. Black	10	8NF32-CS5B



Omni-Lok™ Inverted Cone System DIBA OMNIFIT

Removable and reusable system for quick and convenient low-pressure connections.

- Pressure rated up to 250psi (17bar)
- For 1/16", 1/8" or 3/16" OD semi-rigid tubing e.g. PTFE, ETFE, FEP
- For flat-bottom 1/4"-28 UNF, M6 or 5/16"-24 UNF ports

Description	Pack (u.)	Art. No.
ETFE inverted cone for 1/16" O.D.	10	000008CZ16
ETFE inverted cone for 1/8" O.D.	10	000008CZ32
Omni-Lok PP 1/4"-28 Connector for 1/16 O.D. Blue	10	8NC16-YC5U
Omni-Lok PP 1/4"-28 Connector for 1/8 O.D. Blue	10	8NC32-YC5U
Omni-Lok PP 1/4"-28 Connector for 1/16 O.D. Green	10	8NC16-YC5G
Omni-Lok PP 1/4"-28 Connector for 1/8 O.D. Green	10	8NC32-YC5G

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LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES: Connectors

Connectors

DIBA OMNIFIT

- Versatile, inert connection systems to join sections of tubing quickly and easily.
 - The internal thread (female) of the colored cap is 1/4 "-28 and threaded body of the (white) male fitting is 5/16" -22.
 - Can connect tubes of different diameters from 1 to 11mm.
 - Pressure rated up to 50psi (3,3bar). For greater pressures the use of cones, terminals or grippers is recommended.
 - Can be autoclaved at 121°C if connector caps are removed first.
 - pH: 1-14
 - Operating temperature: 4-60°C
 - For rigid and semi-rigid tubing such as stainless steel, PTFE, glass, and silicone.
 - Bores of 1,5mm O.D. and 0,8mm O.D.
 - The connectors are supplied with a PTFE cone, Viton O-rings, 1/16" PTFE cones and colored polypropylene caps. Small bore (0,8mm) items have ETFE caps.
- The tube connectors accept varying O.D. s from 1 to 4mm at the "small" end and 4 to 11mm O.D.s at the "big" end.

Connectors without valves



016-001001



016-001003



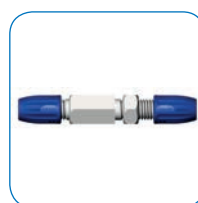
016-001004



016-001005



016-001006



016-001007



016-001008



016-001010



016-001011

Type	Bore (mm)	Pack (u.)	Art. No.
2-way	1,5	3	016-001001
2-way	1,5	20	016-001002
2-way	0,8	1	016-002415
3-way, hexagonal	1,5	1	016-001003
4-ways	1,5	1	016-001004
6-ways	1,5	1	016-001005
8-ways	1,5	1	016-001006
2-ways bulkhead mountable small-small.	1,5	2	016-001007
2-ways big-small	1,5	2	016-001008
3-ways T	1,5	1	016-001010
2-ways, elbow	1,5	1	016-001011
3-ways adaptor	1,5	1	016-001012

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For further information, please contact scharlab@scharlab.com

Connectors with valves

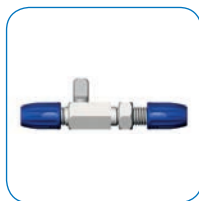

016-001101



016-001102



016-001103



016-001104



016-001105



016-001109



016-001129

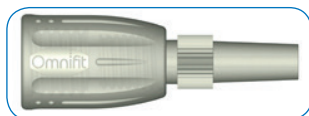


016-001131

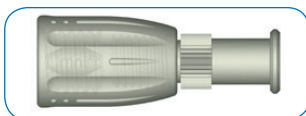
Type	Bore (mm)	Pack (u.)	Art. No.
2-way	1,5	1	016-001101
3-way, hexagonal	1,5	1	016-001102
8-way	1,5	1	016-001103
2-ways bulkhead mountable small-small.	1,5	1	016-001104
2-ways big-small	1,5	1	016-001105
3-way, one valve	1,5	1	016-001109
3-way, one valve	0,8	1	016-002422
2-way big-big	1,5	1	016-001129
Bleeding valve	1,5	1	016-001131

LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES: Adapters
Adapters
DIBA OMNIFIT

Are chemically inert, made of autoclavable PTFE/Tefzel. Cap adaptors can replace the colored cap and the seal on connectors with caps. Adaptors to male and female Luer fit into any 1/4"-28 UNF flat bottom ports, which are the most common in Omnifit valves and connectors.

Omnifit cap adaptors


016-001201



016-001202

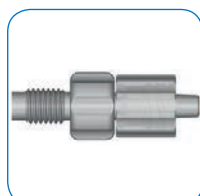
Type	Bore (mm)	Pack (u.)	Art. No.
Male Luer	1,5	1	016-001201
Female Luer	1,5	1	016-001202

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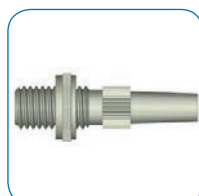
Peristaltic pumps in page 964



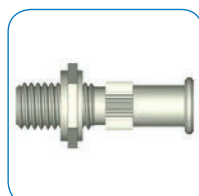
1/4"-28 UNF adaptors



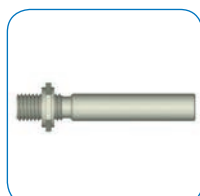
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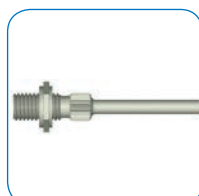
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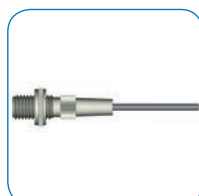
016-002502



016-002503



016-002504



016-002505



016-002506

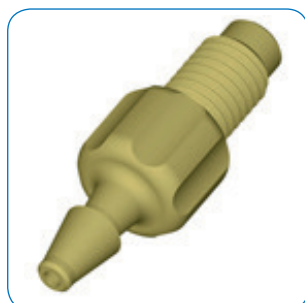


016-002507



016-002510

Type	Bore (mm)	Pack (u.)	Art. No.
Luer lock	1,5	1	016-001206
Male Luer	0,8	1	016-002501
Female Luer	0,8	1	016-002502
1/4" pipe adaptor (6,35mm)	1,5	1	016-002503
1/8" pipe adaptor (3,2mm)	1,5	1	016-002504
1/16" pipe adaptor (1,6mm)	1,5	1	016-002505
Variable step	1,5	1	016-002506
Valve with variable step	1,5	1	016-002507
1/4" glass tubing	1,5	1	016-002510



Male-barbed adaptor

Barbed adaptors DIBA OMNIFIT

At one end is an olive for soft tubing whose outside diameter is specified below. At the other end may be a male or female thread 1/4"-28. They are available solely for PEEK for maximum chemical resistance.

Ø ext. olive (mm)	Other end	Pack (u.)	Art. No.
1,0	Male 1/4"-28	1	016-001070
1,5	Male 1/4"-28	1	016-001064
2,0	Male 1/4"-28	1	016-001065
2,5	Male 1/4"-28	1	016-001066
3,0	Male 1/4"-28	1	016-001071
3,2	Male 1/4"-28	1	016-001069
4,0	Male 1/4"-28	1	016-001072
6,0	Male 1/4"-28	1	016-001073
1,0	Female 1/4"-28	1	016-01070F
1,5	Female 1/4"-28	1	016-01064F
2,5	Female 1/4"-28	1	016-01066F
3,0	Female 1/4"-28	1	016-01071F
3,2	Female 1/4"-28	1	016-01069F

For further information, please contact scharlab@scharlab.com

LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES: Valves
Manual rotary valves
DIBA OMNIFIT
Rotary valves with Omnifit Labware "cap" connections:

- Pressure rated up to 50psi (3,3bar)
- For 0,5-4mm OD rigid and semi-rigid tubing e.g. PTFE, ETFE, FEP using inverted cones or 1/4"-28 UNF fittings

These small manual rotary valves use the Omnifit Labware "cap" connection system. Valves are constructed from PTFE with a PCTFE rotor and have a 1,5mm bore size.

High pressure rotary valves:

- Pressure rated up to 500psi (33bar)
- Accept 1/4"-28 UNF fittings

These manual rotary valves are constructed from PTFE with a PCTFE rotor and have a 0,8mm bore size. They are available in 4 and 5 port versions. Any spare ports can be sealed with a threaded plug (Art. No. 016-002320). These valves are mountable using the pre-drilled M3 mounting holes.

1.5mm bore rotary valves with Omnifit cap connections


016-001112



016-001113

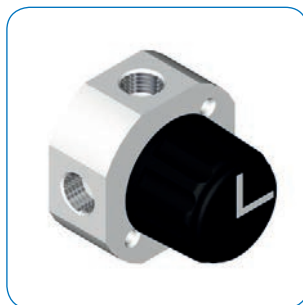


016-001114

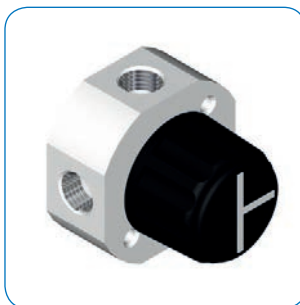


016-001118

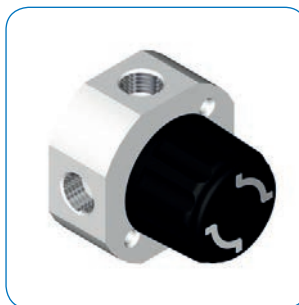
Description	Pack (u.)	Art. No.
4 port valve, connects two ports to 90°	1	016-001112
4 port valve, connects three ports in a T	1	016-001113
4 port valve, connects adjacent ports 2 by 2	1	016-001114
5 port valve, connects 1 port to one of the other 4	1	016-001118

Small (0.8mm bore) high pressure rotary valves


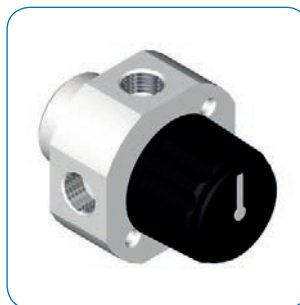
016-001120



016-001121



016-001122



016-001126

Description	Pack (u.)	Art. No.
4 port valve, connects two ports to 90°	1	016-001120
4 port valve, connects three ports in a T	1	016-001121
4 port valve, connects adjacent ports 2 by 2	1	016-001122
5 port valve, connects 1 port to one of the other 4	1	016-001126

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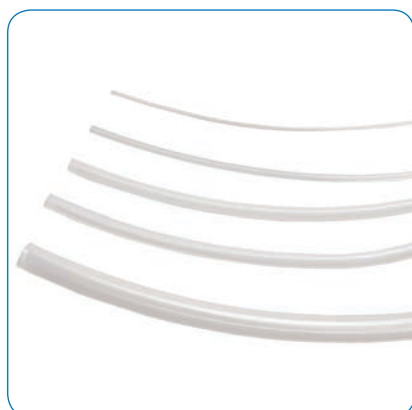


Sample injection valve DIBA OMNIFIT

Manual injection valve. 0,5ml, 1,0ml and 2,5ml sample loops included.

Description	Pack (u.)	Art. No.
1106 injection valve	1	016-001106

LIQUID CHROMATOGRAPHY: COLUMNS AND ACCESSORIES: Pipes



Low and medium pressure tubing

PTFE tubing (polytetrafluoroethylene) is chemically inert and suitable for low pressure applications. Typical tubing 1/16 "O.D. can support up to 62bar (900psi) and 1/8" up to 35bar (500psi). The maximum continuous operating temperature is 100°C.

PFA tubing (perfluoroalkoxy) has excellent chemical stability and mechanical strength. The tubing of 1/16 "O.D. can support up to 100bar (1450psi), while the 1/8" O.D. can be used up to 72bar (1050psi).

If the gas permeability is a problem, always use PFA instead of PTFE.

FEP tubing (FluorinatedEthylenePropylene) is chemically inert to most HPLC solvents, and is recommended for low pressure applications. Usually the tube 1/16 " O.D. can work up to 117bar (1700psi), and 1/8" O.D. supports up to 70bar (1000psi). We recommend FEP for ion chromatography applications.

PTFE

Ø ext.	Ø int. (mm)	Pack (u.)	Art. No.
1,6" (1,6mm)	0,30	20	016-003005
1,6" (1,6mm)	0,50	20	016-003003
1,6" (1,6mm)	0,50	10	004183-M10
1,6" (1,6mm)	0,80	20	016-003001
1,6" (1,6mm)	1,00	20	016-003007
1,6" (1,6mm)	1,50	10	8T16100200
2,0mm	1,70	3	050-006801
1,8" (3,2mm)	1,50	10	08T3215010
1,4"	4,75	3	050-006810

FEP

Ø ext.	Ø int. (mm)	Pack (u.)	Art. No.
1,4"	4,35	10	050-006809

For further information, please contact scharlab@scharlab.com

MICROBIOLOGY

- Burners, *page 642*
- Inoculation loop, *page 645*
- Petri dishes and accessories, *page 648*
- Sampling bags, *page 650*
- Sterile cutlery, *page 652*
- Sterile swabs, *page 652*

MICROBIOLOGY: Burners



Alcohol burner
J.P. SELECTA

Description	Pack (u.)	Art. No.
Alcohol Burner	1x10cm	0191001256

Bunsen burners

J.P. SELECTA



0197000044



0197000134

Gas	Air/gas ratio	Ø ext. tube (mm)	Total height (mm)	Pack (u.)	Art. No.
Butane/propane	Air	11	130	1	0197000044
Natural gas	Air	11	130	1	0197000937
Butane/propane	Gas and air	11	140	1	0197000134
Natural	Gas and air	11	140	1	0197009133

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Bunsen burners Conform to CE 370

J.P. SELECTA

With air and gas regulators.



0197000657



0197001551



0197000225



0197094519

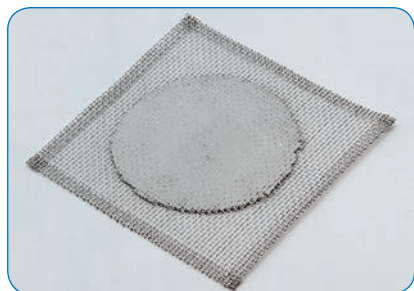
Gas	Ø ext. tube (mm)	Total height (mm)	Pack (u.)	Art. No.
Butane	11	140	1	0197000657
Natural	11	140	1	0197000658
Butane	13	170	1	0197000660
Natural	13	170	1	0197000661
Natural	11	165	1	0197001551
Butane/propane	21	170	1	0197000225
Natural	21	170	1	0197009223
Butane/propane	13	180	1	0197012019
Natural	13	180	1	0197094519

Accessory



Description	Pack (u.)	Art. No.
Gas cable with connections, flexible coated stainless steel 100cm length with 1/2 inch connection with quick fit and safety valve for Art.No. 0197001551	1	0191001541

Accessories (gauze iron wire with ceramic fibre)



Side (mm)	Pack (u.)	Art. No.
100	1	0191087102
120	1	0191087122
140	1	0191087142
160	1	0191087162
180	1	0191087182
200	1	0191087202

Accessories (tripod stands with ring top)



Ø ext. ring (mm)	Total height (mm)	Pack (u.)	Art. No.
80	210	1	0197000808
100	210	1	0197008010
120	200	1	0197008012

For further information, please contact scharlab@scharlab.com



J-2000 Bunsen
J.P. SELECTA

For Butane gas. Instant safety flame push button ignition incorporating a LOCK/ON mechanism that prevents accidental fires, Unit switches off when the users hand is removed. Gas fill by a simple lighter gas fuel as used common gas lighters. Long life flint. Power by a 1,5V battery. Ideal for microbiology, bacteriology, dentistry and for general use where a fine hot flame is required for fast heat and fusion.

Model	Pack (u.)	Art. No.
Burner J-2000	1	0191001114



Blow pipes
J.P. SELECTA

For butane gas and natural gas.

Model	Pack (u.)	Art. No.
For natural gas	1	0191000878
For butane gas	1	0191000877



Sterilbio Sterilizer
J.P. SELECTA

Infrared. For burning organic material in 5-8 seconds (900 ° C) of inoculation loops, needles, culture tubes and small instrumentation. No need for oxygen and can be used in anaerobic environments. With lateral support for 4 Kolle handles, needles, lancets, tweezers, etc.

Ø (cm)	Internal length (cm)	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
1,4	15	110	1,5	1	0193000788

Safety gas burners FUEGO SCS
WLD-TEC

Streamlined design. Reduces air flow disturbances in a clean room workbench. Safety control system with gas safety cut off. Nozzles for natural gas, propane/butane gas. 2 year warranty.



Fuego Basic



Fuego SCS

Model	Characteristics	Pack (u.)	Art. No.
Basic	With pedal and 2 standard programs	1	0008001000
SCS	Optional pedal. With infrared sensor. Digital display and 4 standard programs	1	0008200000
SCS Pro	Optional pedal. With infrared sensor. Digital display and 4 standard programs. With long-lasting rechargeable battery (9h) and Charger	1	0008002000



Safety gas burners Gasprofi 1SCS micro WLD-TEC

Small compact gas burner with IR-sensor. Includes foot pedal.
With overheating control. Nozzles for natural, propane and butane gas.
2 year warranty.

Model	Pack (u.)	Art. No.
Gasprofi 1 SCS micro	1	0006004000



Accessories for safety burners WLD-TEC

Description	For models	Pack (u.)	Art. No.
Stainless steel foot pedal	Fire and Gasprofi	1	0006000403
Adapter for gas cartridges CV360e	Gasprofi	1	0008000700
Adapter for gas cartridges CV270 and CV470	Gasprofi	1	0000600850
Carousel sterilizing of inoculation loops	Gasprofi and SCS fire	1	0006000380
Carousel sterilizing of inoculation loops (2 intensities)	Gasprofi and SCS fire	1	0006000390

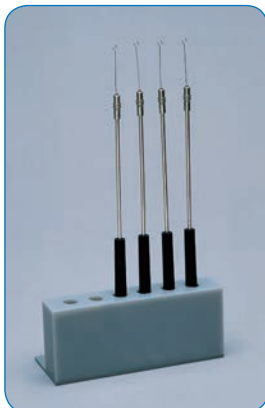
MICROBIOLOGY: Inoculation loop

Kolle handles J.P. SELECTA



Description	Pack (u.)	Art. No.
Kolle handle with bakelite handle, 200mm long (including Nichrome loop)	1	0191000033
Kolle handle, type "Pasteur" with metal handle, 290mm long	1	0191000488

For further information, please contact scharlab@scharlab.com

Support rack for Kolle handles
J.P. SELECTA


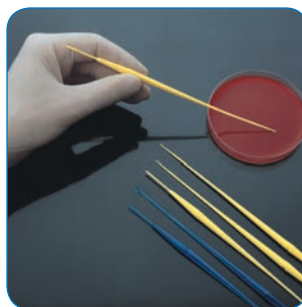
Description	Pack (u.)	Art. No.
Support rack made of hardened methacrylate. Capacity: 6 places	1	0191000903

Sterile disposable inoculating loops
Calibrated 1µl (=1 lambda)

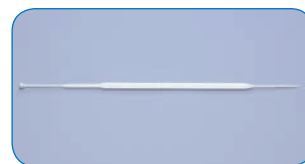

PP loop



PS flat loop

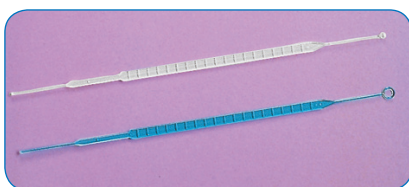


PS ergonomic loops



PS loop with spherical tip

Description	Presentation	Brand	Pack (u.)	Art. No.
PP	Bags 10 uds.	Daslab	1.000	120-668801
PS, flat	Bags 20 uds.	Gosselin SAS	3.000	120-668818
PS	Bags 20 uds.	Kartell	8.000	425-002650
PS, ergonomic	Unit bag	Deltalab	1.200	027-302740
PS, ergonomic	Bags 5 uds.	Deltalab	1.000	027-302741
PS, ergonomic	Bags 10 uds.	Deltalab	1.500	027-302742
PS with spherical tip at the other end	Bags 20 uds.	Gosselin SAS	3.000	630-S1B-01

Calibrated 10µl (=10 lambda)


PS ergonomic loop

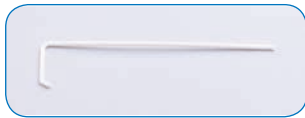


PS with spherical tip

Description	Presentation	Brand	Pack (u.)	Art. No.
PS, flat	Bags 20 uds.	Gosselin SAS	3.000	120-668817
PS	Bags 20 uds.	Kartell	8.000	425-002651
PS, ergonomic	Unit bag	Deltalab	1.200	027-302750
PS, ergonomic	Bags 5 uds.	Deltalab	1.000	027-302751
PS, ergonomic	Bags 10 uds.	Deltalab	1.250	027-302752
PP inoculation loops	Bags 10 uds.	Daslab	1.000	120-668811
PS with spherical tip at the other end	Bags 20 uds.	Gosselin SAS	3.000	000S10B-02

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Drigalski spreader



00ETARB-03



630-ETAT01



05-010UNID



073-00Q620

Description	Presentation	Brand	Pack (u.)	Art. No.
"L" shape, PS white. Sterile	Bags 5 uds.	Deltalab	500	027-200500
"L" shape, PS white. Sterile	Unit bag	Deltalab	500	027-200510
"L" shape, PS white. Sterile	Unit bag	Gosselin SAS	400	00ETARB-03
"L" shape, PS white. Sterile	Bags 5 uds.	Gosselin SAS	400	00ETARB-02
"T" shape, PS green. Sterile	Bags 5 uds.	Gosselin SAS	2.500	630-ETAT01
"T" shape, PS green. Sterile	Unit bag	Gosselin SAS	1.500	630-ETAT03
Metal with anodized aluminum handle, 26cm long, stainless steel rod	-	Scharlau	1	05-010UNID
Glass, solid glass rod, 20cm long, 4cm width handle	-	Scharlau	1	073-00Q620
Glass, solid glass rod, 20cm long, 2,5cm width handle	-	Scharlau	1	073-00Q6276

Nichrome and platinum inoculating loops



Photo 1

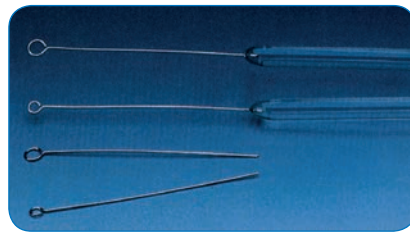


Photo 2

Description	LengthxØ int. ring (mm)	Brand	Pack (u.)	Art. No.
Nichrome loop and braided Pt (Photo 1)	70x2	Scharlau	10	05-002UNID
Calibrated nichrome loop 1µl and braided Pt (Photo 1)	70x1,5	Scharlau	10	05-016UNID
Calibrated nichrome loop 10µl and braided Pt (Photo 1)	70x5,5	Scharlau	10	05-015UNID
Nichrome loop	43x3	J.P. Selecta	1	0191000013
Nichrome inoculation loop	70	Scharlau	10	05-009UNID
Platinum loop	43x3	J.P. Selecta	1	0191000014
Platinum-iridium loop 90/10, 0,5mm thick (Photo 2)	-x3	Kleinfeld	1	0009160050
Platinum-iridium loop 90/10, 0,5mm thick (Photo 2)	-x2	Kleinfeld	1	0009160052
Platinum-iridium loop 90/10, 0,5mm thick with a fused glass rod handle (Photo 2)	-x3	Kleinfeld	1	0009160053
Platinum-iridium loop 90/10, 0,5mm thick with a fused glass rod handle (Photo 2)	-x2	Kleinfeld	1	0009160054

**Ready-to-use agars and broths
in CULTURE MEDIA
FOR MICROBIOLOGY**



For further information, please contact scharlab@scharlab.com

MICROBIOLOGY: Petri dishes and accessories
**Petri dishes
GOSSELIN SAS**

Gosselin Petri dishes are manufactured following a totally automated process with strict quality controls. Made of high transparency PS, using a lateral injection process which confers the ideal consistency and transparency for microbiological applications. They do not deform at 60°C. Excellent mechanical resistance. Excellent optical qualities. Available with or without vents, making air circulation easier and avoiding condensation.

Different sterility levels:

- Aseptic: manufactured under strict aseptic conditions, using a "Clean Room" technology, production and packaging line process. The plastic injection temperature is above 250°C. This quality is recommended for use in bacteriological applications where contamination risk is almost nonexistent.
- Sterile: dishes undergo an irradiation dose of 10Kgray. Each box comes with a certificate accrediting said irradiation.



63090143NA



630-902CNA



630-55143A



630-65143A



630-14203A

Description	Ø (mm)	Height (mm)	Amount/Bag	Pack (u.)	Art. No.
Aseptic ISO 5, 3 vents	90	14,2	Bags 33	825	63090143NA
Sterile, 3 vents	90	14,2	Bags 33	825	63090143NE
Aseptic ISO 5, without vents	90	14,2	Bags 33	825	63090140NA
Sterile, without vents	90	14,2	Bags 33	825	63090140NE
Aseptic ISO 5, 3 vents	90	16,2	Bags 25	700	630-90163A
Sterile, 3 vents	90	16,2	Bags 25	700	630-90163E
Aseptic ISO 5, 3 vents, 2 compartments	90	14,2	Bags 33	825	630-902CNA
Sterile, 3 vents, 2 compartments	90	14,2	Bags 33	825	630-902CNE
Aseptic ISO 5, 6 vents	55	14,2	Bags 15	1620	630-55143A
Sterile, 6 vents	55	14,2	Bags 15	1620	630-55143E
Aseptic ISO 5, 3 vents	65 (Contact)	14,5	Bags 20	720	630-65163A
Sterile, 3 vents	65 (Contact)	14,5	Bags 20	720	630-65163E
Aseptic ISO 5, 4 vents with safety lock "Grip-Lid" and convex base	65 (Contact)	14,5	Bags 20	720	630-65143A
Sterile, 4 vents with safety lock "Grip-Lid" and convex base	65 (Contact)	14,5	Bags 20	720	630-65143E
Aseptic ISO 5, 3 vents	140	20,4	Bags 11	176	630-14203A
Sterile, 3 vents	140	20,4	Bags 11	176	630-14203E
Aseptic ISO 5, 4 vents, square	120	15,8	Bags 14	252	630-12154A
Sterile, 4 vents, square	120	15,8	Bags 14	252	630-12154E


Stand for dishes

Made of polypropylene, it increases the incubator's capacity thanks to its stackable and secure design.

Designed to contain five 90mm petri dishes, or fifteen 60mm dishes. Provided with two areas for labeling. Non autoclavable.

Description	Dim. WxHxD (cm)	Pack (u.)	Art. No.
PP stand for incubation	25,1x23,7x3,5	3	027-0H-615

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Baskets

Stainless steel AISI 304, electrolytically polished.

Description	ØxH (mm)	Pack (u.)	Art. No.
Wire basket with internal cross partition to form 4 compartments	150x120	1	0191125115
Wire basket	210x180	1	0191125121
Wire basket	240x180	1	0191125124

Racks

Comfortable and useful for storing dishes.



Description	Dim. WxHxD (cm)	Pack (u.)	Art. No.
White PP and Autoclavable. For contact plates	26,6x16,5x17,8	1	027-OH-610
White PP and Autoclavable. For 100mm plates	33x21x17,8	1	027-OH-611
For 12 plates with separator of used plates. Green. For 90mm plates	-	1	114-000006

For further information, please contact scharlab@scharlab.com

Freeze dried supplements



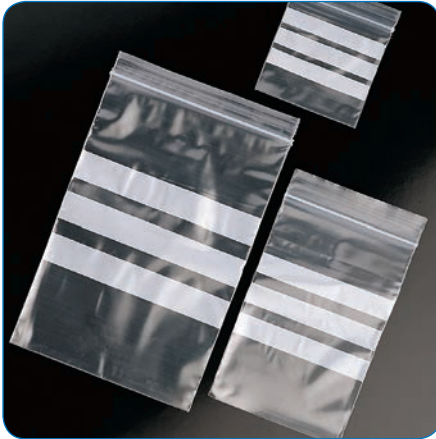
The wise choice

- Plastic screw cap and rubber septum for easy and safe handling
- Boxes with 10 vials



MICROBIOLOGY: Sampling bags
Zip-Lock bags
DELTALAB

Suitable for all types of low volume solid samples. Of transparent PE. High resistance. Machine cleaned. Non sterile. Can be provided also with white write-on strips.



With white strips



Without white strips

Description	Dim. WxH (mm)	Pack (u.)	Art. No.
With white strips	55x55	2.000	027-M5555B
With white strips	60x80	1.000	027-M6080B
With white strips	70x110	1.000	027M70110B
With white strips	100x150	1.000	00M100150B
With white strips	120x180	1.000	00M120180B
With white strips	160x220	1.000	00M160220B
Without white strips	55x55	2.000	027-0M5555
Without white strips	60x80	2.000	027-0M6080
Without white strips	70x100	2.000	027-M70100
Without white strips	80x120	2.000	027-M80120
Without white strips	80x160	2.000	027-M80160
Without white strips	100x150	2.000	027M100150
Without white strips	110x110	2.000	027M110110
Without white strips	120x180	2.000	027M120180
Without white strips	150x220	2.000	027M150220
Without white strips	180x250	2.000	027M180250
Without white strips	200x300	2.000	027M200300
Without white strips	250x330	2.000	027M250330
Without white strips	300x400	1.000	027M300400

Sterile bags for microbiology
in page 920



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Sterile Whirl-Pack sample bags
DELTALAB

Made of low density PET, extra-resistant and transparent bag. Leakproof closure with several metallic rounded sticks. Ethylene oxide sterilised and suitable for alimentary use.



With white strips

Description	Capacity (ml)	Dimensions (mm)	Pack (u.)	Art. No.
With white strips	60	75x125	500	027-200326
With white strips	120	75x185	500	027-200349
With white strips	390	130 x 190	500	027-200364
With white strips	540	115 x 230	500	027-200330
With white strips	720	150 x 230	500	027-200333
With white strips	1.650	190 x 300	500	027-200351
With white strips	2.070	190 x 380	500	027-200363
With white strips	3.600	254 x 508	250	027-200358
With white strips	5.400	380 x 508	100	027-200359
With white strips, with 10mg of sodium thiosulfate	300	115 x 230	100	027-292604
Without white strips	60	75x125	500	027-200325
Without white strips	120	75x185	500	027-200340
Without white strips	210	95x180	500	027-200341
Without white strips	390	130x190	500	027-200342
Without white strips	540	115x250	500	027-200329
Without white strips	720	150x230	500	027-200332
Without white strips	1.080	125x380	500	027-200345
Without white strips	1.260	150x380	500	027-200346
Without white strips	2.070	190x380	500	027-200347



Double pocket self-adhesive bags
GOSSELIN SAS

Made of LDPE with or without absorbent. With write-on strip. Double compartment.

Description	Dimensions (mm)	Pack (u.)	Art. No.
With absorbent	170x270	2.000	FAB1727-08
Without absorbent	170x270	500	FAB1727-28

For further information, please contact scharlab@scharlab.com

MICROBIOLOGY: Sterile cutlery

Sampling tools GOSSELIN SAS

Cutlery made of white resistant polystyrene designed for sampling of liquids and aseptic solids. Individually packaged in a sealed bag and sterilized by irradiation.



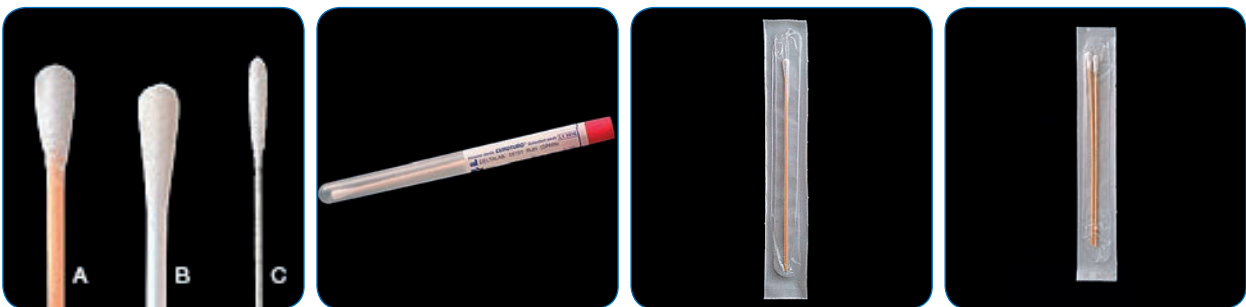
Description	Pack (u.)	Art. No.
Knife 200mm	1.000	630-0KNIFE
Fork 155mm	1.000	630-00FORK
Small spoon 155mm	1.000	630-000001
Spoon 165mm	1.000	630-0SPOON
Multicutlery 180mm, volume 4ml	500	120-982897

MICROBIOLOGY: Sterile swabs

Sterile swabs DELTALAB

Swab dimensions:
 Wood and plastic: 150x2,5mm (head \pm 5mm)
 Aluminium: 150x0,9mm (cabeza \pm 1,5mm)

Metallic ones are used for sampling of narrow places with difficult access due to its flexibility.



A: Wood, B: PS breakable, 3: Aluminium

Labeled tube

Individual bag

Bagged 2 by 2

Description	Presentation	Pack (u.)	Art. No.
Wooden body and cotton head	Individual bag	2000	027-300200
Wooden body and cotton head	Bagged 2 by 2	1000	027-300210
PS breakable body and cotton head	Individual bag	2000	027-300201
PS breakable body and cotton head	Bagged 2 by 2	1000	0030021101
Aluminium body and cotton head	Individual bag	2000	027-300203
Wooden body and cotton head	Labelled tube	500	027-300250
PS breakable body and cotton head	Labelled tube	500	027-300261
Aluminium body and cotton head	Labelled tube	500	027-300251

Sterile swabs with media

Description	Presentation	Pack (u.)	Art. No.
Peptone water + Neutralizer (peptone 3ml + 10% neutralizer)	Labelled tube	100	114-000005
Ringer's + Neutralizer (2,5ml Ringer's, 10% neutralizer)	Labelled tube	25	114-000007
Amies medium. Breakable plastic body and synthetic head	Labelled tube	100	120-605629

MICROSCOPY

Glass cuvettes for staining baskets SCHARLAU



0762500001



0762600001

Descripción	Pack (u.)	Art. No.
Cuvette	1	0762500001
Basket	1	0762600001
Metal loop to basket	1	038-036003

Glass staining cuvettes SCHARLAU



0762100001



0762200001



0762400001



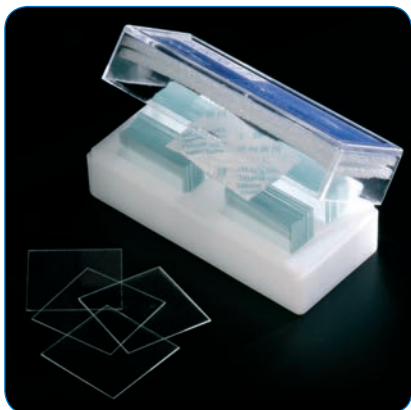
0762300001

Type	Capacity (Slides)	Pack (u.)	Art. No.
Hellendahl	16	1	0762100001
Hellendahl	16	1	0762200001
Coplin	10	1	0762400001
Schiefferdecker	10	1	0762300001

Microscopes in **page 942**



For further information, please contact scharlab@scharlab.com



Glass cover slips DELTALAB

Clear, pre-washed glass of 0,15mm thick, supplied vacuum in tropical pack. Vacuum packaging offers greater preservation against moisture.

Dim. WxH (mm)	Pack (u.)	Art. No.
18x18	10x200	027D101818
20x20	10x200	027D102020
22x22	10x200	027D102222
22x32	10x100	027D102232
22x40	10x100	027D102240
24x24	10x200	027D102424
24x32	10x100	027D102432
24x40	10x100	027D102440
24x50	10x100	027D102450
24x60	10x100	027D102460



Glass slides DELTALAB

Standard dimensions: 26x76mm. Clear glass of 1mm thick ideal for routine analysis. Each case of 50 units is vacuum packed. Vacuum packaging offers greater preservation against moisture.

Description	Pack (u.)	Art. No.
Cut edges, plain	50	027D100001
Ground edges, plain	50	027D100002
Cut edges, frosted end 20mm	50	027D100003
Ground edges, frosted end 20mm	50	027D100004



Staining perforated slide partition DELTALAB

Description	Pack (u.)	Art. No.
Stainless steel staining grid, 435mm length, 85mm width, without divisions	1	027-0S-003
Stainless steel staining grid, 435mm length, 85mm width, for 12 slides	1	027-0S-004
Stainless steel staining grid, 435mm length, 85mm width, for 24 slides	1	027-0S-002



Microscope slide storage and dust cover KARTELL

Each unit will accommodate 100 slides.

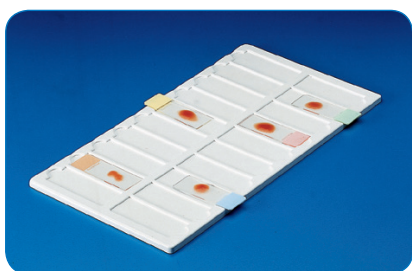
Dim. WxH (cm)	Pack (u.)	Art. No.
26x76	1	425-000921

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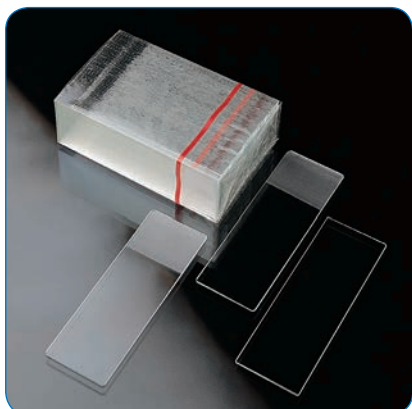
Staining jars of PMP KARTELL

Description	Pack (u.)	Art. No.
Staining cuvettes of PMP with two lids	1	425-000353
Staining cuvettes of PMP, type "Hellendhal"	1	425-000355
Staining cuvettes of PMP, type "Schiefferdecker"	1	425-000351



Tray for microscope slides KARTELL

Number of wells	Ø (mm)	Dim. AnxH (mm)	Depth	Pack (u.)	Art. No.
20	8	340x190	10	1	425-000672
20	8	660x190	5	1	425-000673



Microscope cover slips and slides MENZEL-GLASER

Very clear degreased glass.

Description	Pack (u.)	Art. No.
Slides 76x26mm. With unpolished edges	50	0221070050
Slides 76x26mm. With polished edges and frosted	50	0221053055
Cover slips 22x22mm	5x200	0222050000



Paper for cleaning of optical lenses

White paper, fine and soft, does not release any type of fiber. This paper quality is used for cleaning of optical lenses, cuvettes...

Dim. WxH (cm)	Pack (u.)	Art. No.
10x15	6 booklets of 100	139-000310

For further information, please contact scharlab@scharlab.com

MOLECULAR BIOLOGY

- Cell culture flasks and dishes, *page 656*
- Cryotubes, *page 660*
- Microtitration plates, *page 662*
- Microtubes, *page 664*
- PCR tubes, *page 666*
- Pipettes, *page 669*
- Pipette tips, *page 682*
- Pipette fillers, *page 690*
- Plates for molecular biology, *page 692*
- Racks and boxes for cryotubes, *page 695*

MOLECULAR BIOLOGY: Cell culture flasks and dishes



Cell culture flasks CORNING

Made of optically clear virgin PS.
Treated for optimal cell attachment.
Printed with lot numbers for ease in traceability.
100% integrity tested.
Sterilised by gamma irradiation.
Certified nonpyrogenic.

Plug seal caps for use in closed systems, providing a liquid- and gas-tight seal.
Phenolic style caps for use in open systems requiring gas exchange.
Vent caps with a 0,2µm nonwetable membrane, providing consistent, sterile gas exchange while minimising the risk of contamination.

Culture surface (cm ²)	Shape	Neck	Closure	Pack (u.)	Art. No.
25	Rectangular	Inclined	Plug seal cap	500	00CR430168
25	Rectangular	Inclined	Phenolic style cap	500	00CR430372
25	Rectangular	Inclined	Vent cap	200	00CR430639
25	Triangular	Angled	Phenolic style cap	500	0000CR3055
25	Triangular	Angled	Vent cap	200	0000CR3056
75	Rectangular	Inclined	Plug seal cap	100	00CR430720
75	Rectangular	Inclined	Phenolic style cap	100	00CR430725
75	Rectangular	Inclined	Vent cap	100	00CR430641
150	Rectangular	Inclined	Plug seal cap	50	00CR430823
150	Rectangular	Inclined	Phenolic style cap	50	00CR430824
150	Rectangular	Inclined	Vent cap	50	00CR430825
175	Rectangular	Angled	Plug seal cap	50	00CR431079
175	Rectangular	Angled	Phenolic style cap	50	00CR431085
175	Rectangular	Angled	Vent cap	50	00CR431080
225	Rectangular	Angled	Plug seal cap	25	00CR431081
225	Rectangular	Angled	Vent cap	25	00CR431082

CO₂ incubators in page 930





Roller flasks CORNING

Made of pure PS.
 Treated for optimal cell attachment.
 One piece seamless construction.
 Printed graduations (except Order No. 00CR430195).
 All bottles have printed lot numbers to aid in product traceability.
 Sterilised by gamma radiation.
 Certified nonpyrogenic.
 Ribbed design provides twice the surface area (only Order No. 00CR431134).
 Corning® CellBIND® Surface increases surface wettability for more even and consistent cell attachment.

Surface (cm ²)	Closure	Amount/Pack	Pack (u.)	Art. No.
490	Plug seal	2	40	00CR430195
850	Easy Grip	2	40	00CR430849
850	Easy Grip	2	40	0000CR3907
850	Easy Grip vent cap	2	40	00CR431329
850	Easy Grip vent cap	2	40	00CR431198
850	Easy Grip	5	40	00CR430851
850	Easy Grip	20	20	00CR431133
850	Easy Grip	22	44	00CR431344
1700	Easy Grip	20	20	00CR431134



Cell culture dishes CORNING

Made of optically-clear virgin PS.
 Ultra Low Attachment dishes (Art. No. 0000CR3261 and 0000CR3262) feature a covalently bound hydrogel layer that minimises cell attachment, protein absorption and cellular activation.
 245mm square dishes offer 500cm² growth surface (Art. No. 00CR431110).
 Sterilised by gamma radiation.
 Certified nonpyrogenic.
 With stacking beads to aid in handling.
 Supplied with vents to provide consistent gas exchange.

Size (mm)	Culture surface (cm ²)	Amount/Pack	Pack (u.)	Art. No.
Ø 35	8	20	500	00CR430165
Ø 60 with 2mm grid	21	20	500	00CR430196
Ø 60	21	20	500	00CR430166
Ø 60	21	5	20	0000CR3261
Ø 100	55	5	20	0000CR3262
Ø 100	55	10	480	00CR430293
Ø 100	55	20	500	00CR430167
Ø 150	148	5	60	00CR430599
Ø 245 (inner surface 224x224)	500	4	16	00CR431110

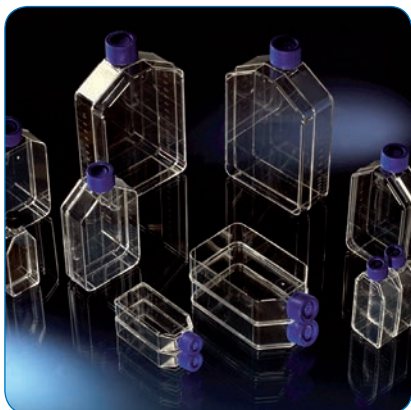


EasyFlask™ flasks NUNC

Non-treated, sterile flasks for suspension cell cultures. White caps for easy identification.
 Non-pyrogenic.
 Flask made of PS.
 Cap made of PEHD

Type	Volume (ml)	Neck	Suggested workload (ml)	Pack (u.)	Art. No.
EasyFlask™	70	Angled	7	200	00NU169900
EasyFlask™	260	Angled	30	100	00NU156800
EasyFlask™	645	Angled	55	30	00NU159926

For further information, please contact scharlab@scharlab.com



Nunclon™ Δ Surface flasks NUNC

Nunclon™ Δ cell culture flasks with surface areas from 25 to 175cm² are available with filter caps or vent / close caps for good gas exchange. Short, wide neck (angled or straight) allows easy access to entire growth surface. The Nunclon™ Δ treatment is limited to the intended growth area. Neck areas are not treated to prevent cell attachment and growth in undesired areas. Nunclon™ Δ surface is certified non-pyrogenic and tested for both monolayer formation and cloning efficiency employing primary cells as well as repeating cell lines. Sterile. Material flasks: PS. Material caps: PEHD.

Culture surface (cm ²)	Neck	Suggested workload (ml)	Closure	Pack (u.)	Art. No.
25	Angled	7	Filter	160	00NU136196
25	Angled	7	Vent/Close	160	00NU163371
80	Straight	30	Filter	50	00NU178905
80	Straight	30	Vent/Close	50	00NU153732
175	Straight	68	Filter	32	00NU178883
175 with barcode	Straight	68	Filter	32	00NU178983
175	Straight	68	Vent/Close	32	00NU156502



TripleFlask™ Nunclon™ Δ Surface flasks NUNC

Cell culture flasks with 3 parallel growth surfaces provide a total culture area of 500cm², with external dimensions of a 175cm² standard flask. Ideal for scale-up. Available with vent/close caps or filter caps for good gas exchange. Nunclon™ Δ surface is certified non-pyrogenic and tested for both monolayer formation and cloning efficiency employing primary cells as well as repeating cell lines. Sterile. Material flasks: PS. Material caps: PEHD.

Culture surface (cm ²)	Neck	Suggested workload (ml)	Closure	Pack (u.)	Art. No.
500	Straight	800	Vent/Close	32	311-132867
500	Straight	800	Filter	32	311-132913
500 with barcode	Straight	800	Filter	32	00NU132920
Non-treated	Straight	800	Filter	32	00NU132903

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Ready-to-use broth & diluents in Flexibags

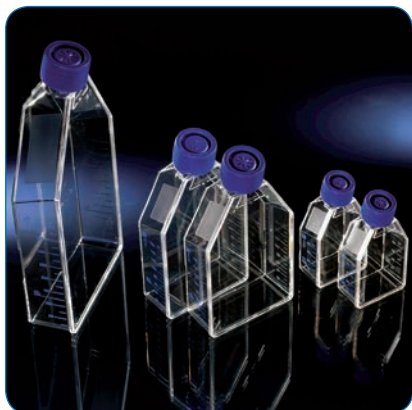
Suitable presentation
for gravimetric dilutors

- Safe packaging
- Avoid time consuming preparation



Scharlau
The wise choice





Nunclon™ Δ surface/Collagen I/Poly-D-Lisina flasks NUNC

Cell culture flasks available with Nunclon™ Δ modified surface (culture areas of 25 to 225cm²) or Collagen I and Poly-D-Lysine coated (culture areas up to 175cm²). Choose cap: filter caps for continuous venting or vent / close caps. Ergonomic closure enables opening and closing with 1/3 turn and 'Y'-mark allows visual verification of vent position, even when stacked.

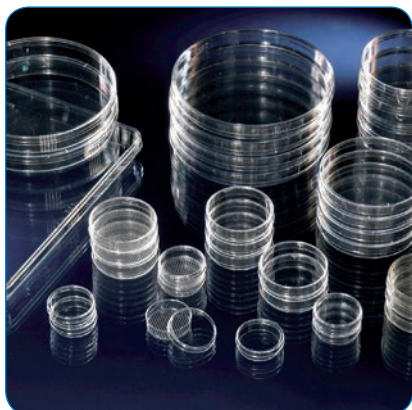
Angled, wide neck gives easy access to entire growth surface. Graduations are both printed and molded on the side walls. Certified non-pyrogenic and tested for both monolayer formation and cloning efficiency employing primary cells as well as repeating cell lines.

Sterile.

Neck angled.

Material flasks: PS. Material caps: PEHD.

Type	Culture surface (cm ²)	Closure	Suggested workload (ml)	Pack (u.)	Art. No.
Nunclon™ Δ surface	25	Filter	7	200	311-156367
Nunclon™ Δ surface	25	Vent/Close	7	200	311-156340
Nunclon™ Δ surface	75	Filter	25	100	311-156499
Nunclon™ Δ surface	75	Vent/Close	25	100	311-156472
Nunclon™ Δ surface	175	Filter	55	30	311-159910
Nunclon™ Δ surface	175	Vent/Close	55	30	311-159920
Nunclon™ Δ surface	225	Filter	70	30	00NU159934
Nunclon™ Δ surface	225	Vent/Close	70	30	00NU159933
Collagen I surface	25	Filter	7	60	00NU132706
Collagen I surface	75	Filter	25	30	00NU132707
Collagen I surface	175	Filter	55	30	00NU132708
Poly-D-Lysine surface	25	Filter	7	60	00NU132703
Poly-D-Lysine surface	75	Filter	25	30	00NU132704
Poly-D-Lysine surface	175	Filter	55	30	00NU132705



Nunclon™ Δ Surface cell culture dishes NUNC

Surface treated dishes for cell culture available in various sizes and formats are optically clear and suitable for microscopy.

Nunclon™ Δ surface modification is certified non-pyrogenic and tested for both monolayer formation and cloning efficiency employing primary cells as well as repeating cell lines.

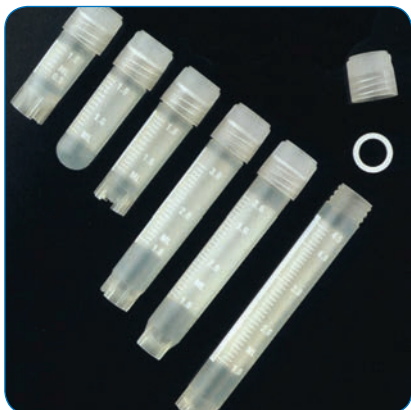
Sterile. With lid.

Material: PS.

Art. No. 00NU172958, 00NU168381 and 311-16608, packed in resealable bags.

Type	Culture surface (cm ²)	Airvent	Suggested workload (ml)	Pack (u.)	Art. No.
35x10	8,8	Yes	3	500	00NU153066
35x10	8,8	No	3	500	00NU150318
35x10 with grid	8,8	Yes	3	500	00NU174926
60x15	21,5	Yes	5	400	00NU150288
60x15	21,5	No	5	400	311-150326
60x15 Permanox™	20,8	Yes	5	500	00NU174888
60x15 with grid	21,5	Yes	5	400	00NU169558
100x15	5,7	Yes	12,5	150	00NU150350
100x20	56,7	Yes	12,5	480	00NU172958
150x20	145	Yes	35	80	00NU168381
245x245	500	No	135	16	311-166508

For further information, please contact scharlab@scharlab.com

MOLECULAR BIOLOGY: Cryotubes

External thread sterile cryovials
DELTALAB

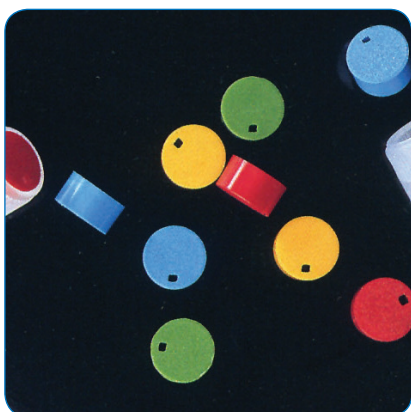
Graduated tube and autoclavable polypropylene cap. For biological material storing at temperatures until -196°C. DNase, RNase and pyrogen free.

Volume (ml)	Description	Pack (u.)	Art. No.
1,2	Cryo Vial 12,5x43mm. With free standing	10x100	00409105.1
2,0	Cryo Vial 12,5x48mm. Without free standing	10x100	00409103.1
2,0	Cryo Vial 12,5x49mm. With free standing	10x100	00409106.1
3,0	Cryo Vial 12,5x72mm. With free standing	10x100	027-409107
4,0	Cryo Vial 12,5x78mm. With free standing	10x100	027-409108
5,0	Cryo Vial 12,5x92mm. With free standing	10x100	027-409109


Internal thread sterile cryovials
DELTALAB

Graduated tube and autoclavable polypropylene cap. For biological material storing at temperatures until -196°C. DNase, RNase and pyrogen free.

Volume (ml)	Description	Pack (u.)	Art. No.
1,2	Cryo Vial 12,5x43mm. With free standing	10x100	027-409001
2,0	Cryo Vial 12,5x48mm. Without free standing	10x100	027-409002
2,0	Cryo Vial 12,5x49mm. With free standing	10x100	00409002.1
4,0	Cryo Vial 12,5x72mm. Without free standing	10x100	027-409003
4,0	Cryo Vial 12,5x72mm. With free standing	10x100	00409003.1
5,0	Cryo Vial 12,5x92mm. Without free standing	10x100	0274090032


Colour coded inserts
DELTALAB

Polypropylene, for incorporating to cryo vial screw caps to facilitate its identification on freezer.

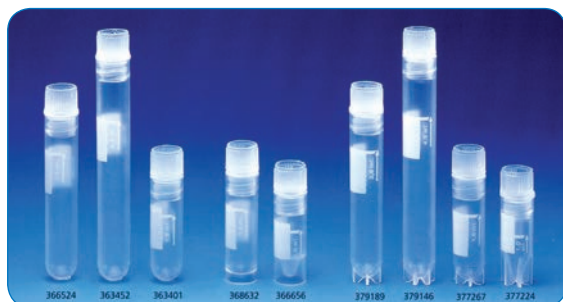
Colour	Pack (u.)	Art. No.
Blue	500	027409003A
Yellow	500	02740903AM
Red	500	027409003R
Green	500	027409003V


Canes for cryovials
DELTALAB

Made of aluminium. To store in liquid nitrogen containers. Suitable for the storage of five or six 1,2 or 2,0ml tubes. Capacity: 5 or 6 per cane.

Length (mm)	Pack (u.)	Art. No.
290	500	027-409120

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Internal thread sterile cryotubes NUNC

Recommended for its use with liquid phase of nitrogen. Polypropylene tubes and caps. Internal thread with a silicone gasket provides the best possible seal.

Bottom	Workload (ml)	Free standing	Antirotational holder	Max. length (mm)	Ø max. (mm)	Pack (u.) (Bag/box)	Art. No.
Round	1,8	-	-	48	12,5	50/2000	311-363401
Round	3,6	-	-	70	12,5	100/1600	311-366524
Round	4,5	-	-	92	12,5	50/1200	311-363452
Conical	1	+	-	42	12,5	50/2000	311-366656
Round	1,8	+	-	49	12,5	50/1800	311-368632
Conical	1	+	+	42	12,5	50/2000	311-377224
Round	1,8	+	+	49	12,5	50/1800	311-377267
Round	3,6	+	+	72	12,5	100/1600	311-379189
Round	4,5	+	+	92	12,5	50/1200	311-379146



External thread sterile cryotubes NUNC

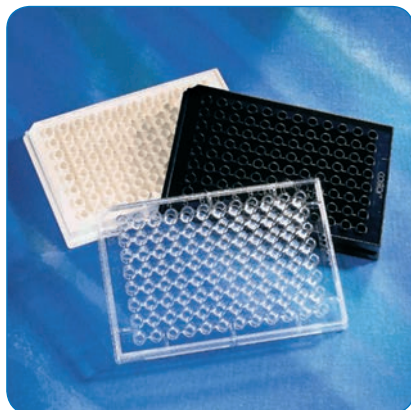
Recommended for its use on liquid phase of nitrogen. Polypropylene tubes and polyethylene caps.

Bottom	Workload (ml)	Free standing	Antirotational holder	Max. length (mm)	Ø max. (mm)	Pack (u.) (Bag/box)	Art. No.
Conical	1	-	+	41	12,5	50/2000	311-375353
Round	1,8	-	+	48	12,5	50/1800	311-375418
Round	4,5	-	+	91	12,5	50/1200	311-337516

Cryogenic vessels
in **page 882**



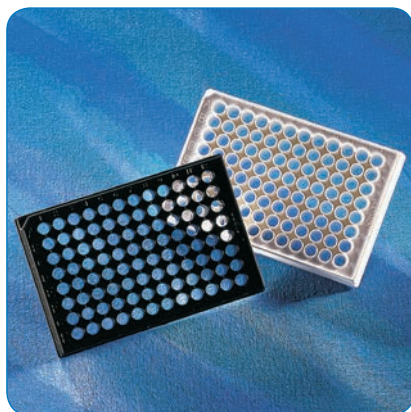
For further information, please contact scharlab@scharlab.com

MOLECULAR BIOLOGY: Microtitration plates

**96 Well microtitration plates
CORNING**

Microtitration plates, PS, clear:

- Standard plates with flat bottom have the total well volume of 360µl.
- Recommended working volumes of 75 to 200µl.
- Clear solid half area microtitration plates have well volume of 190µl, working volume of 25 to 125µl.
- Cell culture plates (TC) are sterilised by gamma radiation and certified nonpyrogenic.
- Corning® CellBIND® Surface increases surface wettability for more even and consistent cell attachment.
- 96 well microtitration plates, PS, solid black and white
- Designed to reduce well-to-well crosstalk.
- White plates enhance luminescent signals and have low background luminescence and fluorescence.
- Black plates have low background fluorescence and minimise light scattering.
- Solid black and white half area microtitration plates have well volumes of 190µl, working volumes of 25 to 125µl.
- Tissue culture treated plates (TC) are sterilised by gamma radiation and certified nonpyrogenic.
- NBS microtitration plates have a nonionic hydrophilic well surface, and are ideal for minimising protein binding in homogeneous assays.

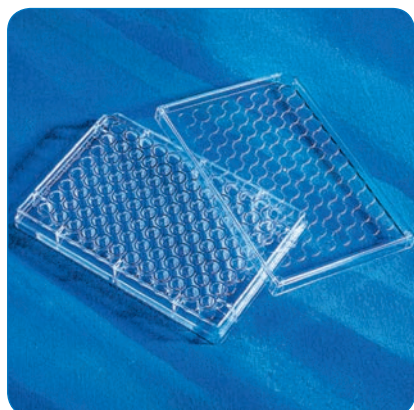
Description	Colour	Well shapes	Treatment	Lid	Sterile	Amount/Pack	Pack (u.)	Art. No.
Half area plates	Clear	Flat	High bind	No	No	25	100	0000C03690
Half area plates	Clear	Flat	Not treated	No	No	25	100	0000C03695
Standard plates	Clear	Flat	Corning® CellBIND® Surface	Yes	Yes	5	50	0000C03300
Half area plates	Clear	Flat	TC-treated	Yes	Yes	20	100	0000C03697
Half area plates	Black	Flat	Not treated	No	No	25	100	0000C03694
Half area plates	Black	Flat	NBS	No	No	25	100	0000C03686
Half area plates	White	Flat	Not treated	No	No	25	100	0000C03693
Half area plates	White	Flat	TC-treated	Yes	Yes	20	100	0000C03688
Half area plates	Clear	Flat	TC-treated	Yes	Yes	50	50	0000C03696


**96 Well microtitration plates, black and white, clear bottom
CORNING**

- PS. Bottoms are 60% thinner than conventional PS plates, resulting in lower background fluorescence and enabling readings down to 340 m.
- Opaque walls prevent well-to-well crosstalk.
- Optically clear flat bottom permits direct microscopic viewing.
- Standard 96 well plates have the following total well volume: flat bottom 360µl; recommended working volume of 75 to 200µl.
- Clear bottom half area microtitration plate has well volume of 190µl; working volume of 25 to 125µl.
- Cell culture plates are sterilised by gamma radiation and certified nonpyrogenic.
- Corning® CellBIND® Surface increases surface wettability for more even and consistent cell attachment.
- NBS microtitration plates have a nonionic hydrophilic well surface, and are ideal for minimising protein binding in homogeneous assays.

Description	Colour	Well shapes	Treatment	Lid	Sterile	Amount/Pack	Pack (u.)	Art. No.
Half area plate	White	Flat	Not treated	-	No	25	100	0000C03883
Half area plate	White	Flat	NBS	-	No	25	100	0000C03884
Standard plate, clear bottom	Black	Flat	Corning® CellBIND® Surface	Yes	Yes	5	50	0000C03340
Half area plate	White	Flat	TC-treated	No	Yes	25	100	0000C03886
Half area plate	White	Flat	TC-treated	Yes	Yes	20	100	0000C03885

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Standard clear plate

Costar® 96 well cell culture plates

CORNING

Nonreversible lids with condensation rings to reduce contamination.
 Treated for optimal cell attachment.
 Sterilised by gamma radiation.
 Certified nonpyrogenic.
 Individual alphanumeric Art. No.s for well identification.
 Black plates are designed to lower background in fluorescent assays and reduce crosstalk.
 White plates are designed for luminescent assays.

Description	Well shape	Ø Well (mm)	Culture surface (cm ²)	Amount/Pack	Pack (u.)	Art. No.
Standard clear plate	Flat	6,4	0,32	1	50	0000C03596
Standard clear plate	Flat	6,4	0,32	5	100	0000C03598
Standard clear plate	Flat	6,4	0,32	1	100	0000C03599
Standard clear plate, special low evaporation lid	Flat	6,4	0,32	5	50	0000C03585
Standard clear plate, special low evaporation lid	Flat	6,4	0,32	1	50	0000C03595
96 well round bottom clear plate	Round	6,4	-	1	50	0000C03799
96 well V-bottom clear plate	V-bottom	6,4	0,38	1	50	0000C03894
8 well strip plate, assembled 12 strips per plate	Flat	6,4	0,32	1	50	0000C09102
96 well clear plate, half area, with lid	Flat	4,5	0,16	50	50	0000C03696
Breathable sealing film, sterile	-	-	-	50	500	0000C03345



6 well microtitration plate

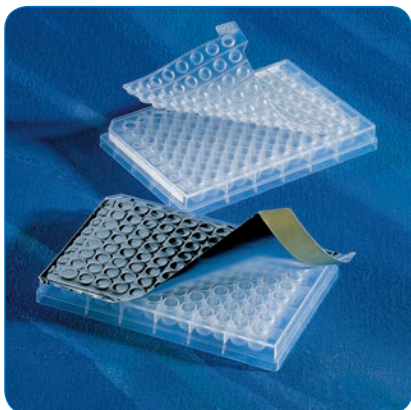
Costar® multiple well plates

CORNING

Corning® CellBIND® Surface (Order No. 000C03335, 000C03336 and 000C03337) increases surface wettability for more even and consistent cell attachment.
 Ultra Low Attachment (Order No. 000C003471 and 000C003473) plates feature a covalently bound hydrogel layer (Order No. 000C003471 and 000C003473) that minimises cell attachment, protein absorption and cellular activation. Flat bottoms. Nonreversible lids with condensation rings to reduce contamination. Individual alphanumeric Art. No.s for well identification. Uniform footprint for ease in stacking. Treated for optimal cell attachment. Sterilised by gamma irradiation. Certified nonpyrogenic.

Number of wells	Ø well (mm)	Culture surface (cm ²)	Pack (u.)	Art. No.
6	34,8	9,5	50	0000C03335
6	34,8	9,5	100	0000C03506
6	34,8	9,5	50	0000C03516
6	34,8	9,5	24	0000C03471
12	22,1	3,8	50	0000C03336
12	22,1	3,8	100	0000C03512
12	22,1	3,8	50	0000C03513
24	15,6	1,9	50	0000C03337
24	15,6	1,9	100	0000C03524
24	15,6	1,9	50	0000C03526
24	15,6	1,9	100	0000C03527
24	15,6	1,9	24	0000C03473
48	11	0,95	100	0000C03548

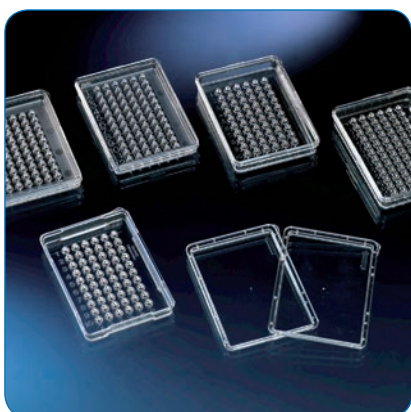
For further information, please contact scharlab@scharlab.com



Sealing films for microtitration plates
CORNING

Easy application and removal for short- and long-term storage.
Provide tight seal to minimise evaporation and condensation.
Made of acetate, suitable for use between -16 and 38°C, transparent, and not pierceable.

Description	Sterile	Amount/Pack	Pack (u.)	Art. No.
Acetate sealing films for all microtitration plates	No	100	100	0000C03095



MicroWell™ MiniTrays
NUNC

PS, used in serotyping, microcytotoxicity and cell cloning studies.
Optical clarity allows use with inverted microscopes.
Occupy min. freezer and incubator space.
Lids have keyed tabs for proper orientation.
Large raised alpha-numeric coordinates.
Unique surface treatment to enhance sample and reagent mixing.

MicroWell™ MiniTrays:
Dimensions wells (top x bottom x depth): 3,71x1,27x1,91mm.
External dimensions with lid: 84x59mm.

MiniTrays:
Dimensions wells (top x bottom x depth): 3,82x1,34x1,92mm.
External dimensions with lid: 84x59mm.
External dimensions without lid: 81x56mm.

Technical data:
Profile: low
Total surface area: 0,2cm²
Total volume: 10µl

Type	Number of wells	Sterile	Pack (u.)	Art. No.
MicroWell™ MiniTrays for serological applications	60	No	100	00NU439225
MicroWell™ MiniTrays for serological applications	72	No	100	00NU438733
MicroWell™ MiniTrays for serological applications	72	Yes	100	00NU448698
MiniTrays	60	Yes	480	00NU452256
MiniTrays	72	No	480	00NU470378

MOLECULAR BIOLOGY: Microtubes



0,5ml ultra clear polypropylene natural graduated microtube
DELTALAB

Made of ultra clear polypropylene. Autoclavable. Tubes have a frosted writing surface on side and on closure for better sample identification. Tubes have moulded-in graduations in 100 µl increments from 0.1 to 0.6ml. Can be used from -80°C to 121°C. RNase, DNase and PCR inhibitors free.

Description	Pack (u.)	Art. No.
Colourless graduation and safe-lock tubes	10x1.000	0274092.1N
Colourless graduation and safe-lock tubes, low adhesion	10x500	004092.1NS

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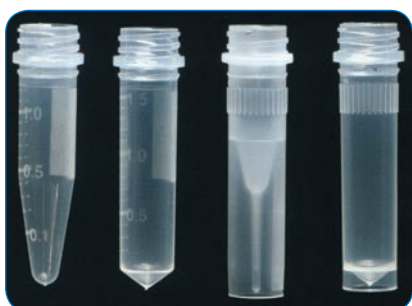


1,5ml safety lock microtubes graduated

DELTALAB

Microtubes of ultra clear polypropylene. Feature a special "snap-seal" secure lock. Tubes have a frosted writing surface on side and on attached closure for better sample identification. Tubes have moulded-in graduations in 0,5ml increments. Autoclavable. Can be used from -90°C to 121°C.

Description	Pack (u.)	Art. No.
Colourless graduation and safe-lock tubes	10x500	0274092.5N



Screw thread microtubes

DELTALAB

Polypropylene tubes, suitable for its use on liquid phase nitrogen (until -190°C), autoclavable and boiling process. Certified RNase and DNase free.

Dim. (ØxH)	Description	Pack (u.)	Art. No.
10,30x43,6mm	Graduated 1,5ml microtubes	500	00409111/2
11,6x44,5mm	Graduated 2,0ml microtubes	500	00409111/3
10,2x45,4mm	Free- standing Microtubes, 1,5ml	500	00409111/4
10,3x45,4mm	Free- standing Microtubes, 2,0ml	500	00409111/6



Caps for screw thread microtubes

DELTALAB

Caps with a sealing O-ring to ensure positive leakproof seal. Polypropylene. Dimensions: 13x6mm.

Description	Pack (u.)	Art. No.
Colourless microtube cap	500	00409112/0
Blue microtube cap	500	00409112/1
Green microtube cap	500	00409112/2
Red microtube cap	500	00409112/4
Yellow microtube cap	500	00409112/6

Centrifuges in page 861



For further information, please contact scharlab@scharlab.com



Microtubes KARTELL

Type	Capacity (ml)	Material	Lid	Pack (u.)	Art. No.
Eppendorf®	1,5	PP	No	1.000	425-000297
Eppendorf®	1,5	PP colourless	Yes	1.000	425-298/00
Eppendorf®	1,5	PP blue	Yes	1.000	425-298/04
Eppendorf®	1,5	PP yellow	Yes	1.000	425-298/06
Eppendorf®	1,5	PP green	Yes	1.000	425-298/12
Eppendorf®	1,5	PP rose	Yes	1.000	425-298/13
Vitraton Akes®	0,5	PP	Yes	1.000	425-001298
Beckman®	0,5	PE blue	Yes	1.000	425-001299



Microtubes with caps for Cobas-bio® and CobasMira® KARTELL

Micro test tubes with caps for CobasBio® and CobasMira® automatic analyzers, available in four colours.
Material: HDPE.

Colour	Ø (mm)	Height (mm)	Pack (u.)	Art. No.
Colourless	7,65	35,5	1.000	4252940/00
Blue	7,65	35,5	1.000	4252940/04
Yellow	7,65	35,5	1.000	4252940/06
Rose	7,65	35,5	1.000	4252940/13

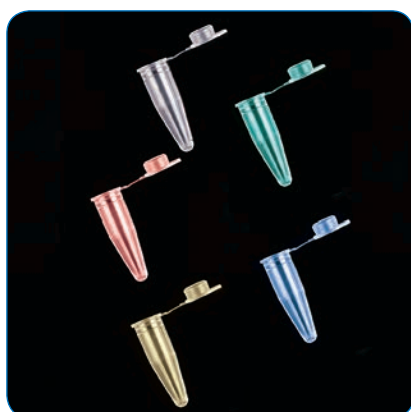
MOLECULAR BIOLOGY: PCR tubes



0,2ml Real time PCR tubes DELTALAB

Tubes made of polypropylene, featuring attached hinged caps. Flat caps are easily pierceable and offer optical quality, thus allowing their application in Real Time PCR.
Available in strips of 8 tubes (see Art. No. 2740951NP). Certified RNase, DNase and PCR inhibitors free.

Description	Pack (u.)	Art. No.
0,2ml PCR tube QPCR	1.000	027-40945N



0,2ml PCR tubes, flat pierceable cap DELTALAB

Tubes made of polypropylene, featuring attached hinged caps. Caps are flat and easily pierceable. Available in strips of 8 tubes (see Art. No.s 027-40943N and 027-40944N). Certified RNase, DNase and PCR inhibitors free.

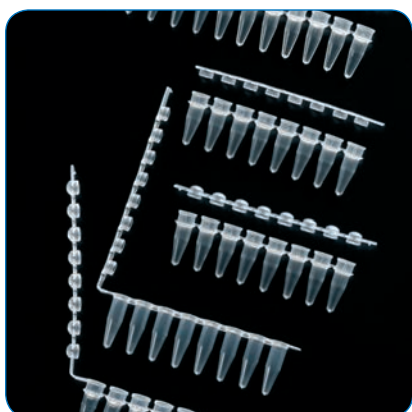
Colour	Pack (u.)	Art. No.
Natural	1.000	027-40941N
Red	1.000	027-40941R
Green	1.000	027-40941V
Yellow	1.000	02740941AM
Blue	1.000	027-40941A



0,2ml PCR tubes, domed cap DELTALAB

Made of polypropylene. Tubes with attached domed cap. Certified RNase, DNase and PCR inhibitors free.

Description	Colour	Pack (u.)	Art. No.
Individual tube with cap	Natural	1.000	027-40959N



0,2ml PCR tubes in strips DELTALAB

PCR tubes. 0,2ml in strips.

Made of natural colour polypropylene. Certified RNase, DNase and pyrogen free. Different models available:

- Strip of 8 or 12 tubes with its corresponding strip of 8 or 12 domed caps.
- Strip of 8 tubes with its attached hinged strip of flat caps, suitable for Real Time PCR.
- Strip of 8 tubes.
- Strip of 8 flat caps, suitable for Real Time PCR.

Cap and tube strips allow easy handling and inventory of tubes and caps. Cap strips prevent cross-contamination from tube to tube.

Description	Pack (u.)	Art. No.
Strip of 8 flat caps	125	027-40957N
8 tube strip	125	027-40956N
8 tube strip and 8 domed cap strip	125	027-40952N
8 tube strip and 8 flat cap strip	125	02740951NP
8 tube strip and 8 domed cap strip	125	027-40951N
12 tube strip and 12 domed cap strip	80	027-40954N



0,2ml PCR tubes in strips, type 1 DELTALAB

0,2ml PCR tubes in strips.

Polypropylene tubes, featuring attached hinged caps. Caps are flat and easily pierceable. Suitable for Real Time PCR. Available individual tubes (see Art. No. 4094.1N). Certified RNase, DNase and Pyrogen free. In bags of 10 strips.

Available in standard height (Art. No. 027-40943N) and low profile (Art. No. 027-40944N) that minimizes the effects of condensation and it allows working with samples even less than 20µl.

Description	Pack (u.)	Art. No.
Strip of 8 tubes and 8 attached caps	120	027-40943N
Strip of 8 tubes and 8 attached caps low profile	120	027-40944N



0,2ml PCR tubes in strips, type 2 DELTALAB

0,2ml PCR tubes in strips.

Made of autoclavable polypropylene. The strip includes 8 integral 0,2 tubes with ultra thin sidewalls and bottoms with individually attached caps.

Available with either flat (needle pierceable) or dome-topped individually attached hinged caps. These strips can be cut to any length while each tube has its own attached cap.

Certified RNase, DNase and pyrogen free.

While easily opened and closed with one hand, their positive sealing will fully protect the contents from evaporation during the whole thermal cycle.

Every cap embodies a shield in order to prevent contamination when being opened.

Cap type	Colour	Pack (u.)	Art. No.
Flat cap	Natural	125	027-40962N
Domed cap	Natural	125	027-40963N

0,2ml Real Time PCR tubes in strips, type 1 DELTALAB

0,2ml Real Time PCR tubes in stripes. Made of polypropylene.
Strip of 8 tubes, each one featuring an attached flat cap. Caps are easily pierceable.
Strips are manufactured by biomaterial molding, so the tubes are made of opaque white PP, while caps are compounded of transparent, optically clear PP. Opaque white tubes perform the highest performance in Real Time PCR, as they avoid crosstalk between wells.
Specially conceived for Real Time PCR. Certified RNase, DNase and PCR inhibitors free.
In bags of 10 strips.

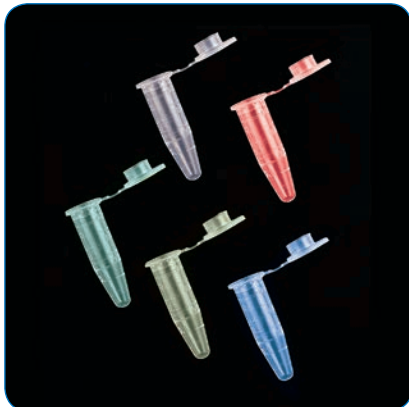
Description	Pack (u.)	Art. No.
8 white tube strip for QPCR in 0,2ml with 8 individual caps	120	02740945BP



0,2ml Real Time PCR tubes in strips, type 2 DELTALAB

0,2ml Real Time PCR tubes in strips.
Made of polypropylene. Strips of 8 tubes, featuring an attached strip of 8 flat caps. Caps are easily pierceable. Strips are manufactured by biomaterial molding, so the tubes are made of opaque white PP, while caps are compounded of transparent, optically clear PP.
Opaque white tubes perform the highest performance in Real Time PCR, as they avoid crosstalk between wells.
Specially conceived for Real Time PCR.
Certified RNase, DNase and Pyrogen free.

Description	Pack (u.)	Art. No.
8 white tube strips for QPCR in 0,2ml with 8 cap strips	125	02740951BP



Graduated 0,5ml PCR tubes, flat cap DELTALAB

0,5ml PCR tubes. Graduated.
Made of autoclavable polypropylene. Certified RNase, DNase and pyrogen free.
Attached hinged caps are flat and easy pierceable. Tubes are easily opened and closed with one hand.
Tubes have moulded-in graduations in 0,1ml increments from 0,1 up to 0,6ml, and a frosted panel on their side for writing or labelling.

Colour	Pack (u.)	Art. No.
Natural	1.000	027-40942N
Red	1.000	027-40942R
Green	1.000	027-40942V
Yellow	1.000	02740942AM
Blue	1.000	027-40942A



Graduated 0,5ml PCR tube, domed cap DELTALAB

Same features as previous tubes, but with domed cap.

Colour	Pack (u.)	Art. No.
Natural	1.000	027-40955N

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MOLECULAR BIOLOGY: Pipettes

Labopette® fixed volume automatic pipette
HIRSCHMANN

Single-channelled pipette with fixed volume configuration, certified conformity, with tip ejection and calibration option, CE pursuant to IVD 98/79 EC, suitable for steam sterilisation up to 121°C, delivery complete with calibration tool and pipette holder, with individual serial number and calibration certificate.

Volume (µl)	Inaccuracy (%)	CV (%)	Tips	Pack (u.)	Art. No.
5	2,5	1,5	Natural 0,2-10 / Yellow 1-200	1	6709475501
10	1,2	0,8	Natural 0,2-10 / Yellow 1-200	1	6709475502
20	1	0,5	Yellow 1-200	1	6709475503
25	1	0,5	Yellow 1-200	1	6709475504
50	1	0,4	Yellow 1-200	1	6709475505
100	0,8	0,3	Yellow 1-200	1	6709475506
200	0,8	0,3	Yellow 1-200	1	6709475507
250	0,8	0,3	Blue 10-1.000	1	6709475508
500	0,8	0,3	Blue 10-1.000	1	6709475509
1.000	0,8	0,3	Blue 10-1.000	1	6709475510
2.000	0,8	0,3	Natural 100-5.000	1	6709475511
5.000	0,8	0,3	Natural 100-5.000	1	6709475512
10.000	0,6	0,3	Natural 1.000-10.000	1	6709475513


Labopette® adjustable-volume automatic pipettes
HIRSCHMANN

With variable volume configuration, certified conformity, with tip ejection and calibration option, CE pursuant to IVD 98/79 EC, suitable for steam sterilisation up to 121°C, delivery complete with calibration tool and pipette holder, with individual serial number and calibration certificate.

Range (µl)	Subdivisions (µl)	Inaccuracy (%)	CV (%)	Tips	Pack (u.)	Art. No.
0,1-3	0,0002	4	2,0	Natural 0,2-10	1	6709475400
0,5-10	0,01	1,2	0,8	Natural 0,2-10	1	6709475401
2-20	0,02	1,0	0,5	Yellow 1-200	1	6709475406
10-100	0,1	0,8	0,3	Yellow 1-200	1	6709475407
20-200	0,2	0,8	0,3	Yellow 1-200	1	6709475408
100-1.000	1	0,8	0,3	Blue 10-1.000	1	6709475409
500-5.000	10	0,8	0,3	Natural 100-5.000	1	6709475405
1.000-10.000	20	0,6	0,3	Natural 1.000-10.000	1	6709475404

For further information, please contact scharlab@scharlab.com



Labopette® adjustable-volume multi-channel automatic pipettes HIRSCHMANN

Low exertion level, reliable pipetting - the labopette® is distinguished by superior ergonomic characteristics, right down to the smallest detail. The entire working process is optimised in the case of the labopette® to ensure non-fatiguing work that places a minimum of stress on your joints. A special tension spring mechanism considerably reduces the level of exertion required when compared to conventional pipettes. The trigger grip ensures a firm but relaxed hold during pipetting. Tip ejection is deliberately separated from the pipetting button to avoid unintentional ejection. Completely autoclavable without dismantling. Certified conformity.

Model	Range (µl)	Repeatability (%)	CV (%)	Subdivisions (µl)	Tips	Pack (u.)	Art. No.
Labopette 8 channels	0,5-10	2,4	1,6	0,01	0,2-10	1	6709475601
Labopette 8 channels	10-100	1,6	0,6	0,1	1-250	1	6709475602
Labopette 8 channels	30-300	1,63	0,6	0,2	5-300	1	6709475604
Labopette 12 channels	0,5-10	2,4	1,6	0,01	0,2-10	1	6709475701
Labopette 12 channels	10-100	1,6	0,6	0,1	1-250	1	6709475702
Labopette 12 channels	30-300	1,63	0,6	0,2	5-300	1	6709475704



BagPipet® fixed volume autoclavable pipet with sterile straw INTERSCIENCE

Three buttons are attached with different loads. Using the appropriate one allows different amounts of sample: 100, 900 or 1.000µl to be dispensed. A single micropipette is equivalent to three fixed volume micropipettes.

Volume (µl)	Pack (u.)	Art. No.
BagPipet® micropipette "straw" tips (0,1ml; 0,9ml and 1ml)	1	603-000003

Description	Presentation	Length (cm)	Pack (u.)	Art. No.
BagTips® Sterile "straw" tips	Bags of 25 units	19	1.000	114-000002
BagTips® Sterile "straw" tips	Bags of 25 units	25	1.000	603-252024

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Minifix Fixed volume automatic pipettes KARTELL

Economical pipetting. Precision at good price. Guarantee more than 5000 pipettings.

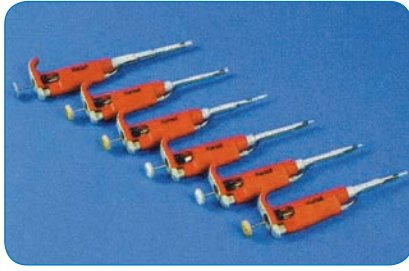
Model	Volume (µl)	Tips	Pack (u.)	Art. No.
Minifix 5	5	425-000956/959	1	425-001285
Minifix 10	10	425-000960/980/958	1	425-001286
Minifix 20	20	425-000960/980/958	1	425-001287
Minifix 25	25	425-000960/980/958	1	425-001288
Minifix 50	50	425-000960/980/958	1	425-001289
Minifix 100	100	425-000960/980/958	1	425-001290

Fixopet fixed volume automatic pipettes KARTELL

Fully autoclavable at 121°C. With tip ejector to reduce contamination risks. The only maintenance needed consists in remove the removable piston and wash it with distillate water when used with corrosive liquids. Each micropipettor is tested individually, and a quality control certificate is included to guarantee its precision.

Model	Volume (µl)	Precision (%)	Repeatability (%)	Pack (u.)	Art. No.
Fx5	5	± 2,0	≤1,0	1	425-130310
Fx10	10	± 1,2	≤0,5	1	425-130410
Fx20	20	± 0,9	≤0,4	1	425-130510
Fx25	25	± 0,9	≤0,4	1	425-130610
Fx50	50	± 0,9	≤0,3	1	425-130710
Fx100	100	± 0,9	≤0,3	1	425-130810
Fx200	200	± 0,6	≤0,2	1	425-130910
Fx250	250	± 0,6	≤0,2	1	425-131010
Fx500	500	± 0,6	≤0,2	1	425-131110
Fx750	750	± 0,6	≤0,2	1	425-131210
Fx1000	1000	± 0,6	≤0,2	1	425-131310

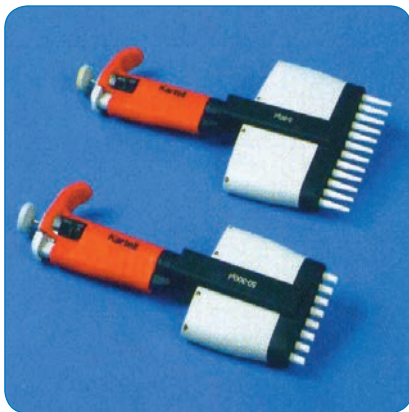
For further information, please contact scharlab@scharlab.com



Pluripet adjustable-volume automatic pipettes KARTELL

Fully autoclavable. With tip ejector for reducing contamination risks. Ensure a high precision which makes them ideal for routine works. Each pipette has a coloured Art. No. depending on volume, to make its identification easier. All micropipettors are individually tested, and a quality control certificate is included to guarantee its precision.

Model	Range (µl)	Volume (µl)	Precision A (%)	Repeatability P (%)	Tips	Pack (u.)	Art. No.
Pluripet PL2	0,2-2	Mín. 0,2 1,0 Máx. 2,0	±1,2 ±2,7 ±1,5	≤6,0 ≤1,3 ≤0,7	425-000959 /956	1	425-129610
Pluripet PL10	0,5-10	Mín. 0,5 5,0 Máx. 10,0	±4,0 ±1,0 ±0,5	≤4,0 ≤0,8 ≤0,4	425-000959 /956	1	425-131910
Pluripet PL20	2-20	Mín. 2 10 Máx. 20	±4,0 ±1,0 ±0,8	≤3,0 ≤0,7 ≤0,4	425-000960/958/940/979	1	425-130010
Pluripet PL100	10-100	Mín. 10 50 Máx. 100	±1,6 ±1,0 ±0,8	≤0,8 ≤0,4 ≤0,3	425-000960/958/940	1	425-132110
Pluripet PL200	20-200	Mín. 20 100 Máx. 200	±1,2 ±1,0 ±0,6	≤0,6 ≤0,3 ≤0,3	425-000960/958/940	1	425-130110
Pluripet PL1001	100-1.000	Mín. 100 500 Máx. 1.000	±0,9 ±0,7 ±0,6	≤0,45 ≤0,25 ≤0,25	425-000961/941	1	425-132210
Pluripet PL5000	1.000-5.000	Mín. 1.000 2.500 Máx. 5.000	±0,6 ±0,6 ±0,5	≤0,3 ≤0,3 ≤0,2	425-000964/984	1	425-132510
Pluripet PL10000	1.000-10.000	Mín. 1.000 5.000 Máx. 10.000	±2,5 ±0,8 ±0,2	≤0,6 ≤0,3 ≤0,2	425-000943	1	425-132910



Multipet adjustable-volume multichannel automatic pipettes KARTELL

Multichannel volume micropipettes with air cushion and equipped with a mechanism reducing the force necessary for ejecting tips. Light and particularly exact and precise. EC brand. Auto-clavable.

Model	Range (µl)	Volume (µl)	Precision (%)	Repeatability (%)	Pack (u.)	Art. No.
Multipet 8 channels	5-50	Mín. 5 Máx. 50	±4,0 ±1,6	≤3,0 ≤1,0	1	425-141710
Multipet 8 channels	50-300	Mín. 50 Máx. 300	±1,6 ±1,0	≤1,5 ≤0,8	1	425-132610
Multipet 12 channels	5-50	Mín. 5 Máx. 50	±4,0 ±1,6	≤3,0 ≤1,0	1	425-141810
Multipet 12 channels	50-300	Mín. 50 Máx. 300	±1,6 ±1,0	≤1,5 ≤0,8	1	425-132810

Pipette tips with filter in [page 688](#)





Proline® Plus BIOHIT adjustable-volume automatic pipettes SARTORIUS

Sartorius Biohit's mechanical pipette family Proline Plus is designed to offer comfort and quality in every day manual pipetting. Proline Plus pipettes are an excellent choice for both experienced laboratory professionals and students. Ergonomic design with light pipetting forces, comfortable handle and finger support for reduced risk of strain injuries. Minimised risk of contamination with Safe-Cone Filters and full autoclavability. Highly durable with strengthened structure also for heavier use.

Channels	Volume range (µl)	Increment (µl)	Test volume (µl)	Inacc. (%)	Impr. (%)	Pack (u.)	Art. No.
1	0.1-3	0.002	3	1.30	0.80	1	0000728010
			1.5	2.40	1.60		
			0.3	10.00	6.00		
1	0.5-10	0.01	10	1.00	0.60	1	0000728020
			5	1.50	1.00		
			1	2.50	1.50		
1	2-20	0.02	20	0.90	0.40	1	0000728030
			10	1.20	1.00		
			2	3.00	2.00		
1	5-50	0.10	50	1.00	0.30	1	0000728040
			25	1.40	0.50		
			5	3.00	1.50		
1	10-100	0.10	100	0.80	0.15	1	0000728050
			50	1.00	0.40		
			10	2.00	1.00		
1	20-200	0.20	200	0.60	0.15	1	0000728060
			100	0.80	0.30		
			20	2.00	0.80		
1	100-1000	1.00	1000	0.60	0.20	1	0000728070
			500	0.60	0.20		
			100	1.00	0.40		
1	500-5000	10.0	5000	0.50	0.20	1	0000728080
			2500	0.60	0.30		
			500	2.00	0.60		
1	1-10 ml	20.0	10000	0.60	0.20	1	0000728090
			5000	1.20	0.30		
			1000	3.00	0.60		
8	0.5-10	0.01	10	1.50	1.00	1	0000728120
			5	2.50	2.50		
			1	4.00	4.00		
8	10-100	0.10	100	0.70	0.25	1	0000728130
			50	1.00	0.70		
			10	3.00	1.50		
8	30-300	0.20	300	0.60	0.25	1	0000728140
			150	1.00	0.50		
			30	2.00	1.00		
12	0.5-10	0.01	10	1.50	1.00	1	0000728220
			5	2.50	2.50		
			1	4.00	4.00		
12	10-100	0.10	100	0.70	0.25	1	0000728230
			50	1.00	0.70		
			10	3.00	1.50		
12	30-300	0.20	300	0.60	0.25	1	0000728240
			150	1.00	0.50		
			30	2.00	1.00		

For further information, please contact scharlab@scharlab.com


mLINE® BIOHIT adjustable-volume automatic pipettes
SARTORIUS

Sartorius Biohit's most advanced mechanical pipette family – the mLINE – offers excellent ergonomics, performance and safety in manual pipetting. It is particularly designed for repetitive and long-lasting pipetting in order to prevent work related hand, arm and shoulder disorders or Repetitive Strain Injury (RSI). High accuracy and precision, also in repetitive, long-lasting pipetting. Minimised risk of contamination with Safe-Cone Filters and full autoclavability. Increased safety with volume lock which prevents accidental volume changes while pipetting.

Channels	Volume range (µl)	Increment (µl)	Test volume (µl)	Inacc. (%)	Impr. (%)	Pack (u.)	Art. No.
1	0.1-3	0.002	3	1.30	0.80	1	0000725010
			1.5	2.40	1.60		
			0.3	10.00	6.00		
1	0.5-10	0.01	10	1.00	0.60	1	0000725020
			5	1.50	1.00		
			1	2.50	1.50		
1	2-20	0.02	20	0.90	0.40	1	0000725030
			10	1.20	1.00		
			2	3.00	2.00		
1	10-100	0.10	100	0.80	0.15	1	0000725050
			50	1.00	0.40		
			10	2.00	1.00		
1	20-200	0.20	200	0.60	0.15	1	0000725060
			100	0.80	0.30		
			20	2.00	0.80		
1	100-1000	1.00	1000	0.60	0.20	1	0000725070
			500	0.60	0.20		
			100	1.00	0.40		
1	500-5000	10.0	5000	0.50	0.20	1	0000725080
			2500	0.60	0.30		
			500	2.00	0.60		
1	1-10 ml	20.0	10000	0.60	0.20	1	0000725090
			5000	1.20	0.30		
			1000	3.00	0.60		
8	0.5-10	0.01	10	1.50	1.00	1	0000725120
			5	2.50	2.50		
			1	4.00	4.00		
8	5-100	0.10	100	0.70	0.25	1	0000725130
			50	1.00	0.70		
			10	3.00	1.50		
8	30-300	0.20	300	0.60	0.25	1	0000725140
			150	1.00	0.50		
			30	2.00	1.00		
12	0.5-10	0.01	10	1.50	1.00	1	0000725220
			5	2.50	2.50		
			1	4.00	4.00		
12	5-100	0.10	100	0.70	0.25	1	0000725230
			50	1.00	0.70		
			10	3.00	1.50		
12	30-300	0.20	300	0.60	0.25	1	0000725240
			150	1.00	0.50		
			30	2.00	1.00		


eLINE® BIOHIT electronic pipettes
SARTORIUS

The electronic Biohit eLINE pipette family has been providing high precision and comfort for years. The comprehensive range of pipetting modes in eLINE reduces the need for several work stages and enables liquid dispensing twice as fast as a mechanical pipette. Proven accuracy and precision with DC-motor concept. Fully electronic operations guarantee user-independent results and prevent RSI. One eLINE covers the volume range of two mechanical pipettes - fewer pipettes needed. Several charging options. Liquid dispensing from the air, without touching the vessel wall, with eLINE 0.1-5µl model.

Channels	Volume range (µl)	Increment (µl)	Test volume (µl)	System. error (%)	Random error (%)	Pack (u.)	Art. No.
1	0.1-5	0.05	5	1.20	0.70	1	0000730011
			2.5	1.70	1.20		
			0.5	9.50	8.00		
1	0.2-10	0.05	10	0.90	0.40	1	0000730021
			5	1.00	0.70		
			1	3.50	2.30		
1	5-120	0.50	120	0.60	0.15	1	0000730041
			60	0.80	0.20		
			12	2.50	1.00		
1	10-300	1.00	300	0.40	0.15	1	0000730061
			150	0.60	0.20		
			30	1.50	0.80		
1	50-1000	5.00	1000	0.40	0.15	1	0000730081
			500	0.60	0.20		
			100	1.50	0.50		
1	100-5000	10.0	5000	0.50	0.15	1	0000730101
			2500	0.80	0.20		
			500	1.00	0.40		
8	0.2-10	0.05	10	0.90	0.50	1	0000730321
			5	1.50	0.80		
			1	4.00	3.00		
8	5-120	0.50	120	0.80	0.20	1	0000730341
			60	0.70	0.30		
			12	3.00	1.50		
8	10-300	1.00	300	0.50	0.20	1	730361
			150	0.70	0.30		
			30	2.00	1.00		
8	50-1200	5.00	1200	0.50	0.20	1	0000730391
			600	1.00	0.30		
			120	2.50	1.00		
12	0.2-10	0.05	10	0.90	0.50	1	0000730421
			5	1.50	0.80		
			1	4.00	3.00		
12	5-120	0.50	120	0.80	0.20	1	0000730441
			60	0.70	0.30		
			12	3.00	1.50		
12	10-300	1.00	300	0.50	0.20	1	0000730461
			150	0.70	0.30		
			30	2.00	1.00		
12	50-1200	5.00	1200	0.50	0.20	1	0000730491
			600	1.00	0.30		
			120	2.50	1.00		



Picus BIOHIT electronic pipettes SARTORIUS

Sartorius Biohit's most advanced mechanical pipette family - the mLINE - offers excellent ergonomics, performance and safety in manual pipetting. It is particularly designed for repetitive and long-lasting pipetting in order to prevent work related hand, arm and shoulder disorders or Repetitive Strain Injury (RSI). High accuracy and precision, also in repetitive, long-lasting pipetting. Minimised risk of contamination with Safe-Cone Filters and full autoclavability. Increased safety with volume lock which prevents accidental volume changes while pipetting.

Channels	Volume range (µl)	Increment (µl)	Test volume (µl)	Inacc. (%)	Impr. (%)	Pack (u.)	Art. No.
1	0.2-10	0.01	10	0.90	0.40	1	0000735021
			5	1.00	0.70		
			1	2.50	1.50		
1	5-120	0.10	120	0.40	0.15	1	0000735041
			60	0.60	0.20		
			12	2.00	1.00		
1	10-300	0.20	300	0.40	0.15	1	0000735061
			150	0.60	0.20		
			30	1.50	0.80		
1	50-1000	1.00	1000	0.40	0.15	1	0000735081
			500	0.60	0.20		
			100	1.50	0.50		
1	100-5000	5.00	5000	0.50	0.15	1	0000735101
			2500	0.80	0.20		
			500	1.00	0.40		
1	500-10000	10.00	10000	0.60	0.20	1	0000735111
			5000	1.20	0.30		
			1000	3.00	0.60		
8	0.2-10	0.01	10	0.90	0.50	1	0000735321
			5	1.50	0.80		
			1	4.00	3.00		
8	5-120	0.10	120	0.50	0.20	1	0000735341
			60	0.70	0.30		
			12	2.00	1.50		
8	10-300	0.20	300	0.50	0.20	1	0000735361
			150	0.70	0.30		
			30	2.00	1.00		
8	50-1200	1.00	1200	0.50	0.20	1	0000735391
			600	1.00	0.30		
			120	2.50	1.00		
12	0.2-10	0.01	10	0.90	0.50	1	0000735421
			5	1.50	0.80		
			1	4.00	3.00		
12	5-120	0.10	120	0.50	0.20	1	0000735441
			60	0.70	0.30		
			12	2.00	1.50		
12	10-300	0.20	300	0.50	0.20	1	0000735461
			150	0.70	0.30		
			30	2.00	1.00		
12	50-1200	1.00	1200	0.50	0.20	1	0000735491
			600	1.00	0.30		
			120	2.50	1.00		



Finnpipette® F2 fixed volume automatic pipettes THERMO SCIENTIFIC

Fully autoclavable. Pipette with all quality features: great exactitude and precision; smooth pipetting action, easy to use and totally sterilizable. 5 year warranty. Its design offers superior comfort, performance, reliability and repeatability in one of the lightest pipettes available. Simple maintenance and calibration by the own user. Personal identification label space. Wide volume display. Durable command materials. Light weight. Super blow-out piston ensures the delivery of micro-size drops.

Volume (µl)	Inaccuracy (µl)	Inaccuracy%	Imprecision (%) s.d. (µl)	Imprecision (%) CV (%)	Finntip tips	Pack (u.)	Art. No.
1	±0,04	±4,00	0,04	4	Flex 10, 10, 50 micro	1	0004652000
5	±0,07	±1,40	0,07	1,4	Flex 10, 10, 50 micro	1	0004652010
10	±0,09	±0,90	0,08	0,8	Flex 200, 250; Univ. 200 Ext.	1	0004652020
25	±0,15	±0,60	0,13	0,5	Flex 200, 250; Univ. 200 Ext.	1	0004652030
50	±0,30	±0,60	0,2	0,4	Flex 200, 250; Univ. 200 Ext.	1	0004652040
100	±0,40	±0,40	0,3	0,3	Flex 200, 250; Univ. 200 Ext.	1	0004652050
250	±1,0	±0,40	0,8	0,3	Flex 1000, 1000; 1000 Ext.	1	0004652060
500	±1,5	±0,30	1,5	0,3	Flex 1000, 1000; 1000 Ext.	1	0004652070
1.000	±3,0	±0,30	3	0,3	Flex 1000, 1000; 1000 Ext.	1	0004652080
2.000	±6,0	±0,30	4	0,2	5ml	1	0004652090
3.000	±9,0	±0,30	6	0,2	5ml	1	0004652100
5.000	±15,0	±0,30	10	0,2	5ml	1	0004652110
10.000	±30,0	±0,30	20	0,2	10ml	1	0004652120

Finnpipette® F2 adjustable-volume automatic pipettes THERMO SCIENTIFIC

Fully autoclavable. Pipette with all quality features: great exactitude and precision; smooth pipetting action, easy to use and totally sterilizable. Advanced volume gearing mechanism (AVG): self-supportive modular mechanism enhances pipetting performance, for increasing accuracy and precision and durability for every day. Also, to avoid disturbances of the measurement due to hands heating, it is thermally isolated from pipette's body. 5 year warranty.

Range (µl)	Subdivisions (µl)	Vol. (µl)	Inaccuracy (µl)	Inaccuracy (%)	Imprecision s.d (µl)	Imprecision CV (%)	Colour	Tips	Pack (u.)	Art. No.
0,2-2µl	0,002µl	2	±0,05	±2,5	0,04	2,0	Rose	Flex 10, 10, 50	1	0004642010
0,5-5µl	0,01µl	5	±0,08	±1,50	0,05	1	Rose	Flex 10, 10, 50	1	0004642020
1-10µl	0,02µl	10	±0,10	±1,0	0,05	0,5	Rose	Flex 10, 10, 50	1	0004642030
1-10µl	0,02µl	10	±0,10	±1,0	0,08	0,8	Yellow	Flex 200, 250	1	0004642040
2-20µl	0,02µl	20	±0,20	±1,0	0,08	0,4	Turquoise	50 micro	1	0004642050
2-20µl	0,02µl	20	±0,20	±1,0	0,08	0,4	Yellow	Flex 200, 250	1	0004642060
10-100µl	0,2µl	100	±0,80	±0,8	0,20	0,2	Yellow	Flex 200, 250	1	0004642070
20-200µl	0,2µl	200	±1,20	±0,6	0,40	0,2	Yellow	Flex 200, 250	1	0004642080
100-1.000µl	1µl	1.000	±6,00	±0,6	2,00	0,2	Blue	Flex 1000	1	0004642090
0,5-5ml	0,01ml	5.000	±25,0	±0,5	10,0	0,2	Green	5ml	1	0004642100
1-10ml	0,02ml	10.000	±50,0	±0,5	20,0	0,2	Red	10ml	1	0004642110

For further information, please contact scharlab@scharlab.com



Finnpipette® F2 adjustable-volume multi-channel automatic pipettes

THERMO SCIENTIFIC

Fully autoclavable. The multi-channel pipetting is a practical form of filling microplates, increasing productivity on ELISA techniques. There are available 8, 12 and 16 channel-pipettes models Finn pipette F2 with a selection of volume ranges. As with the single-channel Finn pipette F2 pipettes, the AVG mechanism ensures a high level of accuracy and precision. In addition, in the low volume models the super blow-out function ensures accurate dispensing for even the lowest volumes. Fields of application: food, environmental, biotechnology, clinical and chemical laboratories.

Advanced volume gearing mechanism (AVG); self-supportive modular mechanism enhances pipetting performance, for increasing accuracy and precision and durability for every day. Also, to avoid disturbances of the measurement due to hands heating, it is thermally isolated from pipette's body. 5 year warranty.

Model	Range (µl)	Precision (%)	Colour	Tips	Pack (u.)	Art. No.
Finnpipette® F2 8 channels	1–10	8,0 a 1,6	Rose	10	1	0004662000
Finnpipette® F2 8 channels	5–50	2,0 a 0,7	Yellow	200	1	0004662010
Finnpipette® F2 8 channels	10–100	2,0 a 0,5	Yellow	200	1	0004662020
Finnpipette® F2 8 channels	30–300	2,0 a 0,3	Orange	300	1	0004662030
Finnpipette® F2 12 channels	1–10	1–10	Rose	10	1	0004662040
Finnpipette® F2 12 channels	5–50	5–50	Yellow	200	1	0004662050
Finnpipette® F2 12 channels	10–100	2,0 a 0,5	Yellow	200	1	0004662060
Finnpipette® F2 12 channels	30–300	2,0 a 0,3	Orange	300	1	0004662070
Finnpipette® F2 16 channels	1–10	1–10	Purple	10	1	0004662080
Finnpipette® F2 16 channels	5–50	5–50	Turquoise	50	1	0004662090



F1-ClipTip adjustable-volume automatic pipettes

THERMO SCIENTIFIC

New pipette F1-ClipTip with the innovative interlocking ensures a complete seal on every channel with minimal tip attachment and ejection force. Complete seal to secure the sample volume in each tip, enhanced accuracy, precision, and repeatable results. Only compatible with ClipTip tips.

Model	Range (µl)	Subdivisions (µl)	Inaccuracy (%)	Precision (%)	Colour	Tips	Pack (u.)	Art. No.
F1-ClipTip 1-10µl	1-10	0,02	1,0 a 2,5	0,5 a 2,0	Rose	ClipTip 20	1	0004641170
F1-ClipTip 2-20µl	2-20	0,02	1,0 a 3,0	0,4 a 2,5	Rose	ClipTip 20	1	0004641180
F1-ClipTip 5-50µl	5-50	0,1	0,6 a 3,0	0,3 a 2,5	Purple	ClipTip 50	1	0004641190
F1-ClipTip 10-100µl	10-100	0,2	0,8 a 3,0	0,2 a 1,0	Yellow	ClipTip 200	1	0004641200
F1-ClipTip 20-200µl	20-200	0,2	0,6 a 1,8	0,2 a 0,7	Yellow	ClipTip 200	1	0004641210
F1-ClipTip 30-300µl	30-300	1	0,6 a 1,5	0,2 a 0,6	Orange	ClipTip 300	1	0004641220
F1-ClipTip 100-1.000µl	100-1.000	1	0,6 a 1,0	0,2 a 0,6	Blue	ClipTip 1.000	1	0004641230

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F1-ClipTip multi-channel automatic pipettes

THERMO SCIENTIFIC

New F1-ClipTip pipette with a innovating adjust system between the tip and the pipette, ensures a perfect seal of the tip with minimal effort. With a complete seal to achieve an exact volume sample with great precision, exactitude and repeatable results.
Only compatible with ClipTip tips.

Model	Range (µl)	Subdivisions (µl)	Inaccuracy (%)	Imprecision (%)	Colour	Tips	Pack (u.)	Art. No.
F1-ClipTip 8 channels	1–10	0,02	2,4 a 12	1,6 a 8,0	Rose	ClipTip 20	1	0004661110
F1-ClipTip 8 channels	5–50	0,1	1,5 a 5,0	0,7 a 2,0	Purple	ClipTip 50	1	0004661120
F1-ClipTip 8 channels	10–100	0,2	1,3 a 5,0	0,5 a 2,0	Yellow	ClipTip 200	1	0004661130
F1-ClipTip 8 channels	30–300	1	1,0 a 5,0	0,3 a 2,0	Orange	ClipTip 300	1	0004661140
F1-ClipTip 12 channels	1–10	0,02	2,4 a 12	1,6 a 8,0	Rose	ClipTip 20	1	0004661150
F1-ClipTip 12 channels	5–50	0,1	1,5 a 5,0	0,7 a 2,0	Puerple	ClipTip 50	1	0004661160
F1-ClipTip 12 channels	10–100	0,2	1,3 a 5,0	0,5 a 2,0	Yellow	ClipTip 200	1	0004661170
F1-ClipTip 12 channels	30–300	1	1,0 a 5,0	0,3 a 2,0	Orange	ClipTip 300	1	0004661180



Finnpipette Novus electronic pipettes

THERMO SCIENTIFIC

Simple use ergonomic pipette, comfortable and light. It has a two level menu for an easy control thanks to a complete text display. Allows choosing between different pipetting functions quickly and easily. Repeatable pipette, mix and dilution, etc. Big display. Smooth tip ejector. Light weight. Coloured buttons and ring for an easy identification of pipette. Autoclavable cone. Easy calibration. Easy operation. Fast recharged (1h). High duration battery (4.000 pipettings). Smooth drive. 10 pipetting options. Variable speed for each type of liquid (9 speeds). Natural manipulation, without forcing. Adjustable drive bottom 120°. Includes charger.

Range	Subdivisions	Inaccuracy (%)	Precision (%)	Colour	Tips	Pack (u.)	Art. No.
1-10µl	0,01µl	3,5 a 1,0±	3,0 a 0,5	Rose	10, Flex 10, 20 micro, 50 micro	1	1364620000
1-10µl	0,01µl	7,0 a 1,0±	6,0 a 0,5	Yellow	Flex 200, 250 Univ, 200 Ext.	1	1364620010
5-50µl	0,1µl	3,0 a 0,8±	2,5 a 0,3	Turquoise	50	1	1364620020
5-50µl	0,1µl	3,0 a 0,8±	2,5 a 0,3	Yellow	250 Univ, 200 Ext.	1	1364620030
10-100µl	0,1µl	3,0 a 0,8±	1,0 a 0,2	Yellow	Flex 200, 250 Univ, 200 Ext.	1	1364620040
30-300µl	1µl	3,0 a 0,6±	0,7 a 0,2	Orange	300, Flex 300	1	1364620050
10-1.000µl	1µl	3,0 a 0,6±	0,6 a 0,2	Blue	1000, 1000 Ext., Flex 1000	1	1364620060
0,5-5ml	0,01ml	3,0 a 0,6±	0,8 a 0,2	Green	5ml	1	1364620070
1-10ml	0,01ml	3,0 a 0,6±	0,8 a 0,2	Red	10ml, Flex 10ml Ext.	1	1364620080

For further information, please contact scharlab@scharlab.com


Finnpipette® Novus multi-channel electronic pipettes
THERMO SCIENTIFIC

Finnpipette™ Novus Multichannel Pipetter speeds up repetitive dispensing into microplates with 8-, 12- or 16-channel formats. Choose from a wide range of multichannel models for demanding laboratory tasks, including repetitive dispensing into microplates. The lightweight handle and module is designed with a balanced weight distribution preventing muscle stress and strain, and enabling longer work periods without fatigue. The light, long-lasting battery allows over 4.000 pipetting actions.

Model	Range (µl)	Subdivisions (µl)	Inaccuracy (%)	Precision (%)	Colour	Tips	Pack (u.)	Art. No.
Novus 8 channels	1-10	0,01	12,0-2,4±	8,0-1,6	Rose	Flex 10, 10, 20 micro, 50 micro	1	1364630000
Novus 8 channels	3-50	0,1	5,0-1,5±	2,0-0,7	Yellow	Flex 200, 200 Ext., 250	1	1364630020
Novus 8 channels	30-300	1	3,0-1,0±	1,0-0,3	Orange	Flex 300, 300	1	1364630040
Novus 8 channels	100-1.200	1	3,0-1,0±	0,9-0,2	Turquoise	Flex 1200	1	1364630080
Novus 12 channels	10-100	0,01	12,0-2,4±	8,0-1,6	Rose	Flex 10, 10, 20 micro, 50 micro	1	1364630010
Novus 12 channels	5-50	0,1	5,0-1,5±	2,0-0,7	Yellow	Flex 200, 200 Ext., 250	1	1364630030
Novus 12channels	30-300	1	3,0-1,0±	1,0-0,3	Orange	Flex 300, 300	1	1364630050
Novus 16 channels	5-50	0,1	5,0-1,5±	2,0-0,7	Turquoise	50	1	1364630070


Finnpipette® Stepper pipette
THERMO SCIENTIFIC

Compounded of a universal handle and a syringe tip with 7 different possible sizes, covering a volume range between 10 and 5.000µl. Light and easy handling. Ideal for working with aggressive or viscous liquids. Single hand drive. Allows to realize up to 45 successive dispensations without recharging. The handle is also adaptable to a 8 multi-channel module. Each tip can dispense 5 different volumes. Ergonomical design. One of a kind with palmrest and dispensation lever. The dispenser Finnpipette Stepper is only compatible with syringe tips Finntip Stepper.

Description	Channels	Cap. (ml)	Vol. disp. (µl)	Pack (u.)	Art. No.
Finnpipette® Stepper	-	-	-	1	1364540000
Finnpipette® MultiStepper. Pipette + multi-channel module	8	1250	50-250	1	1364540500
Multi-channel module	8	1250	50-250	1	1362206590

Scharlau tips in [page 682](#)





Finntip® Stepper pipette tips

THERMO SCIENTIFIC

Needs an adaptor to couple tips of 25 and 50ml. Tip provided with plunger for a positive displacement pipetting.

Capacity	Dispensing range (µl)	Presentation	Pack (u.)	Art. No.
500µl	10, 20, 30, 40, 50	-	100	1369404170
500µl	10, 20, 30, 40, 50	Sterile, individually wrapped	50	1369404173
1.250µl	25, 50, 75, 100, 125	-	100	1369404180
1.250µl	25, 50, 75, 100, 125	Sterile, individually wrapped	50	1369404183
2.500µl	50, 100, 150, 200, 250	-	100	1369404190
2.500µl	50, 100, 150, 200, 250	Sterile, individually wrapped	50	1369404193
5,0ml	100, 200, 300, 400, 500	-	50	1369404200
5,0ml	100, 200, 300, 400, 500	Sterile, individually wrapped	25	1369404203
12,5ml	250, 500, 750, 100, 1.250	-	50	1369404210
12,5ml	250, 500, 750, 100, 1.250	Sterile, individually wrapped	25	1369404213
25ml	500, 1.000, 1.500, 2.000, 2.500	-	20	1369404220
25ml	500, 1.000, 1.500, 2.000, 2.500	Sterile, individually wrapped	10	1369404223
50ml	100, 2.000, 3.000, 4.000, 5.000	-	10	1369404230
50ml	100, 2.000, 3.000, 4.000, 5.000	Sterile, individually wrapped	10	1369404233

Accessories

Description	Pack (u.)	Art. No.
Adaptor	10	1369420300
Sterile adaptor	5	1369420310



Adjustable-volume automatic pipettes

VITLAB

Automatic pipettes, ideal for demanding laboratory applications: rugged, ergonomic, autoclaving, high accuracy and a simple calibration for lasting reliability. Conformity certified to DIN 12600, is CE-IVD-compliant and is completely autoclavable at 121°C (2 bar), acc. DIN EN 285.

Range (µl)	Inaccuracy (%)	CV (%)	Tips	Pack (u.)	Art. No.
0,5-10	1	0,5	20	1	0001641000
2-20	0,8	0,4	200	1	0001641002
10-100	0,6	0,2	200/300	1	0001641004
20-200	0,6	0,2	200/300	1	0001641006
100-1.000	0,6	0,2	1.000	1	0001641008
500-5.000	0,6	0,2	5.000	1	0001641010
1.000-10.000	0,6	0,2	10.000	1	0001641012



Adjustable-volume multi-channel automatic pipettes

VITLAB

Automatic pipettes ideal for demanding laboratory applications: robust, completely autoclavable, highly accurate, with simple calibration for lasting reliability. Conformity certified to DIN 12600, is CE-IVD-compliant and is completely autoclavable at 121°C (2 bar), acc. DIN EN 285.

Number of channels	Range (µl)	Imprecision (%)	CV (%)	Tips	Pack (u.)	Art. No.
8 channels	5-50	0,8	0,4	200	1	0001608002
8 channels	10-100	0,8	0,3	200/300	1	0001608004
8 channels	20-200	0,8	0,3	200/300	1	0001608006
8 channels	30-300	0,6	0,3	300	1	0001608008
12 channels	5-50	0,8	0,4	200	1	0001612002
12 channels	10-100	0,8	0,3	200/300	1	0001612004
12 channels	20-200	0,8	0,3	200/300	1	0001612006
12 channels	30-300	0,6	0,3	300	1	0001612008

MOLECULAR BIOLOGY: Pipette tips
Universal tips for automatic pipettes
SCHARLAU

Range of Scharlau Polypropylene tips.. Compatible with most brands of automatic pipettes (Bio-hit, Brand, Eppendorf, Finnpiquette, Gilson, Socorex, etc). Available in bags, autoclavable racks, radiation sterilized racks and individually packed sterile tips.

0,2-10 μ l


Vol. (μ l)	Type	Colour	Presentation	Pack (u.)	Art. No.
0,2-10	Universal	Natural	Bag	1.000	000P0210-1
0,2-10	Universal	Natural	Rack	10x96	000P0210-2

0,5-20 μ l


Vol. (μ l)	Type	Colour	Presentation	Pack (u.)	Art. No.
0,5-20	Universal	Natural	Bag	1.000	000P0520-1
0,5-20	Universal	Natural	Rack	10x96	000P0520-2

5-200 μ l


Vol. (μ l)	Type	Colour	Presentation	Pack (u.)	Art. No.
5-200	Universal	Yellow	Bag	1.000	000P5200-1
5-200	Universal	Yellow	Rack	10x96	000P5200-2

5-200 μ l


Vol. (μ l)	Type	Colour	Presentation	Pack (u.)	Art. No.
5-200	Eppendorf	Yellow	Bag	1.000	000PC5200-1
5-200	Eppendorf	Yellow	Rack	10x96	000PC5200-2

5-300 μ l


Vol. (μ l)	Type	Colour	Presentation	Pack (u.)	Art. No.
5-300	Universal	Natural	Bag	1.000	000P5300-1
5-300	Universal	Natural	Rack	10x96	000P5300-2

100-1.000 μ l

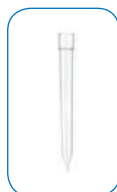

Vol. (μ l)	Type	Colour	Presentation	Pack (u.)	Art. No.
100-1.000	Universal	Blue	Bag	1.000	000P1000-1
100-1.000	Universal	Blue	Rack	8x60	000P1000-2

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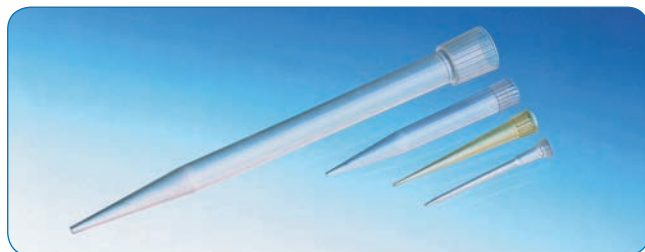
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100-1.000µl

Vol. (µl)	Type	Colour	Presentation	Pack (u.)	Art. No.
100-1.000	Eppendorf	Blue	Bag	1.000	00PC1000-1
100-1.000	Eppendorf	Blue	Rack	8x60	00PC1000-2

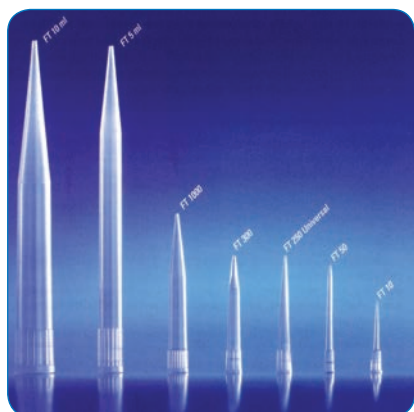
1.000-5.000µl

Vol. (µl)	Type	Colour	Presentation	Pack (u.)	Art. No.
1.000-5.000	Universal	Natural	Bag	250	000P5000-1

**Pipette tips
HIRSCHMANN**

Polypropylene tips, cadmium free. Certified conformity.

Volume (µl)	Colour	Presentation	Compatibility	Pack (u.)	Art. No.
0,2-10	Natural	Bag	Gilson, Hirschmann	1.000	6709490101
0,2-10	Natural	Refilling for Rack Multibox	Gilson, Hirschmann	18x2x96	6709490201
1-200	Yellow	Bag	Eppendorf, Brand, Gilson, Hirschmann	1.000	6709490102
1-200	Yellow	Refilling for Rack Multibox	Eppendorf, Brand, Gilson, Hirschmann	18x2x96	6709490202
1-250	Natural	Bag	for multi-channel pipette Hirschmann	1.000	6709490106
1-250	Natural	Refilling for Rack Multibox	for multi-channel pipette Hirschmann	18x2x96	6709490206
5-300	Natural	Bag	for multi-channel pipette Hirschmann	1.000	6709490108
5-300	Natural	Rack	for multi-channel pipette Hirschmann	10x96	6709490208
100-1.000	Blue	Bag	Eppendorf, Brand, Gilson, Hirschmann	1.000	6709490103
100-1.000	Blue	Refilling for Rack Multibox	Eppendorf, Brand, Gilson, Hirschmann	18x2x96	6709490203
50-1.200	Natural	Bag	P/8 channels electronic pipette 6709480800) Hirschmann	400	6709490105
50-1.200	Natural	Rack	Hirschmann	10x96	6709490205
1.000-5.000	Natural	Bag	Hirschmann	300	6709490124

**Finntip® pipette tips
THERMO SCIENTIFIC**

Tips made of virgin PP without defects fully autoclavable. Hydrophobic surface, Wide range of tips ensure optimum exactitude and precision with Finn pipette pipettes and most common brands.

New Finntip Flex tips:

This tips are available in a range of volumes which include tips between 0,1-10µl to 1.200µl, as a 10ml tip, and are provided as tips in a standard rack, sterilized or with filter. The increasing of precision comes when working on lower volumes.

→ Continued on the next page

For further information, please contact scharlab@scharlab.com



Finntip 10



Finntip 20



Finntip 300 Flex



Finntip 250



Finntip 1000F

Volume (µl)	Length (cm)	Type	Presentation	Pack (u.)	Art. No.
0,2-10	3,2	Finntip 10	Bag	1.000	1369400310
0,2-10	3,2	Finntip 10	Rack	10x96	1369400300
0,2-10	3,2	Finntip 10, sterile	Rack	10x96	1369400303
0,2-10	3,3	Finntip Flex 10	Bag	1.000	0094060120
0,2-10	3,3	Finntip Flex 10	Rack	10x96	0094060100
0,2-10	3,3	Finntip Flex 10, sterile	Rack	10x96	0094060103
0,2-20	3,3	Finntip 20	Bag	1.000	1369400620
0,2-20	3,3	Finntip 20	Rack	10x384	1369400610
0,2-20	3,3	Finntip 20, sterile	Rack	10x384	1369400613
0,2-50	4,8	Finntip 50	Bag	1.000	1369400360
0,2-50	4,8	Finntip 50	Rack	10x384	1369400370
0,2-50	4,8	Finntip 50, sterile	Rack	10x384	1369400373
5-200	7,8	Finntip 200 Ext	Bag	400	1369400100
5-200	7,8	Finntip 200 Ext	Rack	10x96	1369400130
5-200	7,8	Finntip 200 Ext, sterile	Rack	10x96	1369400133
5-200	6	Finntip Flex 200	Bag	1.000	0094060320
5-200	6	Finntip Flex 200	Rack	10x96	0094060310
5-200	6	Finntip Flex 200, sterile	Rack	10x96	0094060313
5-300	6	Finntip flex 300	Bag	1.000	0094060520
5-300	6	Finntip flex 300	Rack	10x96	0094060510
5-300	6	Finntip flex 300, sterile	Rack	10x96	0094060513
5-300	5,2	Finntip 300	Bag	1.000	1369401260
5-300	5,2	Finntip 300	Rack	10x96	1369401250
5-300	5,2	Finntip 300, sterile	Rack	10x96	1369401253
5-300	6,2	Finntip Flex 300	Bag	1.000	0094060520
5-300	6,2	Finntip Flex 300	Rack	10x96	0094060510
5-300	6,2	Finntip Flex 300, sterile	Rack	10x96	0094060513
0,5-250	5,2	Finntip 250 Universal	Bag	1.000	1369400230
0,5-250	5,2	Finntip 250 Universal	Rack	10x96	1369400260
0,5-250	5,2	Finntip 250 Universal sterile	Rack	10x96	1369400263
100-1.000	7,1	Finntip 1000	Bag	1.000	1369401030
100-1.000	7,1	Finntip 1000	Rack	10x96	1369401110
100-1.000	7,1	Finntip 1000, sterile	Rack	10x96	1369401113
100-1.000	10,5	Finntip 1000 Ext	Bag	1.000	1369401410
100-1.000	10,5	Finntip 1000 Ext	Rack	5x96	1369401420
100-1.000	10,5	Finntip 1000 Ext, sterile	Rack	5x96	1369401423
100-1.000	8,7	Finntip Flex 1000	Bag	1.000	0094060720
100-1.000	8,7	Finntip Flex 1000	Rack	10x96	0094060710
100-1.000	8,7	Finntip Flex 1000, sterile	Rack	10x96	0094060713
100-1.200	8,7	Finntip Flex 1200	Bag	1.000	0094060820
100-1.200	8,7	Finntip Flex 1200	Rack	10x96	0094060810
100-1.200	8,7	Finntip Flex 1200, sterile	Rack	10x96	0094060813
500-5.000	14,7	Finntip 5ml	Bag	500	1369402030
500-5.000	14,7	Finntip 5ml	Rack	5x54	1369402070
500-5.000	14,7	Finntip 5ml, sterile	Rack	5x54	1369402073
1.000-10.000	15	Finntip 10ml	Bag	100	1369402151
1.000-10.000	15	Finntip 10ml	Rack	5x24	1369402160
1.000-10.000	15	Finntip 10ml, sterile	Rack	5x24	1369402163
1.000-10.000	26,7	Finntip Flex 10ml Ext (extended tip)	Bag	100	0094060970
1.000-10.000	26,7	Finntip Flex 10ml Ext (extended tip) sterile I	Bag	50	0094060973

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ClipTip™ pipette tips THERMO SCIENTIFIC

Tips for F1-ClipTip automatic pipettes. RNase, DNase, ADN, ATP and endotoxin free.

Description	Range (µl)	Presentation	Pack (u.)	Art. No.
ClipTip 20	1-20	Rack	10x96	0094410210
ClipTip 20	1-20	Sterile rack	10x96	0094410213
ClipTip 50	5-50	Rack	10x96	0094410250
ClipTip 50	5-50	Sterile rack	10x96	0094410253
ClipTip 200	10-200	Rack	10x96	0094410310
ClipTip 200	10-200	Sterile rack	10x96	0094410313
ClipTip 300	30-300	Rack	10x96	0094410510
ClipTip 300	30-300	Sterile rack	10x96	0094410513
ClipTip 1000	100-1.000	Rack	10x96	0094410710
ClipTip 1000	100-1.000	Sterile rack	10x96	0094410713

ClipTip™ pipette tips with filter THERMO SCIENTIFIC

Tips for F1-ClipTip automatic pipettes. RNase, DNase, ADN, ATP and endotoxin free.

Description	Range (µl)	Presentation	Pack (u.)	Art. No.
ClipTip 20	1-20	Sterile rack	10x96	0094420213
ClipTip 50	5-50	Sterile rack	10x96	0094420253
ClipTip 200	10-200	Sterile rack	10x96	0094420313
ClipTip 300	30-300	Sterile rack	10x96	0094420513
ClipTip 1000	100-1.000	Sterile rack	10x96	0094420713

Pipette tips

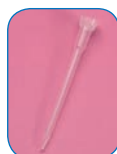
Polypropylene tip selections. Each tip compatibility is only a recommendation indicated by manufacturer and can be used with other non indicated brands.

0,1-10µl

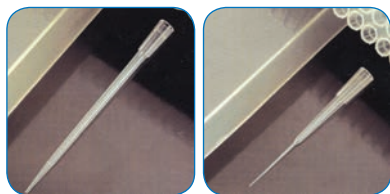


Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
0,5-10	Natural	Gilson micro	Bag	Kartell	Gilson p2, p10	1.000	425-000956
0,5-10	Natural	Gilson micro	Rack	Kartell	Gilson p2, p10	10x96	425-009646
0,1-10	Natural	Crystal Gilson	Bag	Deltalab	Eppendorf, Labsystems, Biohit, Nichiryo, Rainin	1.000	027-200024
0,1-10	Natural	Crystal Gilson	Rack	Deltalab	Eppendorf, Labsystems, Biohit, Nichiryo, Rainin	10x96	00199084RC
0,1-10	Natural	Crystal Gilson	Refilling	Deltalab	Eppendorf, Labsystems, Biohit, Nichiryo, Rainin	5x96	027119084R
0,2-10	Natural	Crystal Gilson	Bag	Daslab	Gilson p2, p10, Nichiryo, Rainin and otras	1.000	120-163030

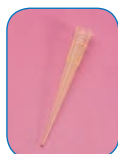
0,5-10µl



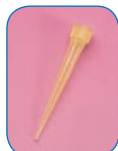
Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
0,5-10	Natural	Eppendorf cristall	Bag	Kartell	Kartell (Pluripet pl 10), Eppendorf, Socorex	1.000	425-000959
0,5-10	Natural	Eppendorf cristall	Rack	Kartell	Kartell (Pluripet pl 10), Eppendorf, Socorex	10x96	425-009624
0,5-10	Natural	Eppendorf cristall	Bag	Daslab	Eppendorf, Socorex, Nichiryo	1.000	120-162023
0,5-10	Natural	Eppendorf cristall	Rack	Daslab	Eppendorf, Socorex, Nichiryo	10x96	120-244117

1-200µl


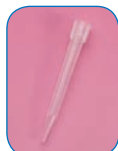
Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1-200	Natural	Universal extra long	Sterile Rack	Deltalab	Gilson, Eppendorf, Nichiryo, Rainin, Finnpiquette, Oxford and others	8x204	027-200026
1-200	Natural	Universal. For gels	Rack	Deltalab	Gilson, Eppendorf, Biohit, Socorex, Nichiryo, Finnpiquette, Oxford, Rainin	10x1.000	027-200079

2-200µl


Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
2-200	Yellow	Gilson	Bag	Kartell	Gilson (p20, p50, p100, p200), Kartell	1.000	425-000958
2-200	Yellow	Gilson	Rack	Kartell	Gilson (p20, p50, p100, p200), Kartell	10x96	425-009585
2-200	Yellow	Gilson	Sterile, individually wrapped	Deltalab	Gilson	200	000200016B
5-200	Yellow	Universal	Bag	Daslab	Gilson, Eppendorf, Nichiryo, Oxford and others	1.000	120-162001
5-200	Yellow	Universal	Rack	Daslab	Gilson, Eppendorf, Nichiryo, Oxford and others	10x96	120-244112

2-200µl with capillary


Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
2-200	Yellow	Universal	Bag	Kartell	Kartell, Gilson, Eppendorf, Finnpiquette, Socorex, Nichiryo, Biohit, Brand	1.000	425-000960
2-200	Yellow	Universal	Rack	Kartell	Kartell, Gilson, Eppendorf, Finnpiquette, Socorex, Nichiryo, Biohit, Brand	10x96	425-009605
2-200	Yellow	Eppendorf	Sterile, individually wrapped	Deltalab	Gilson, Eppendorf, Socorex, Nichiryo, Biohit, Brand	200	000200009B
5-200	Yellow	Eppendorf	Bag	Daslab	Eppendorf, Socorex, Brand and others	1.000	120-161004
5-200	Yellow	Eppendorf	Rack	Daslab	Eppendorf, Socorex, Brand and others	10x96	120-244113

5-300µl


Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
10-300	Natural	Eppendorf	Bag	Kartell	Gilson, Eppendorf, Finnpiquette, Biohit	1.000	425-000935
10-300	Natural	Eppendorf	Rack	Kartell	Gilson, Eppendorf, Finnpiquette, Biohit	10x96	425-009647
5-300	Natural	Eppendorf	Bag	Daslab	Gilson, Eppendorf, Nichiryo, Oxford and others	1.000	120-163840
10-300	Natural	Eppendorf	Rack	Daslab	Gilson, Eppendorf, Nichiryo, Biohit	10x96	120-243741

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100-1.000µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
100-1.000	Blue	Gilson	Bag	Kartell	Gilson p500, p1000	1.000	425-000941
100-1.000	Blue	Gilson	Rack	Kartell	Gilson p500, p1001	10x96	425-009645
100-1.000	Blue	Universal	Bag	Daslab	Gilson, Eppendorf, Nichiryo and others	1.000	120-162222
100-1.000	Blue	Universal	Rack	Daslab	Gilson, Eppendorf, Nichiryo and others	10x60	120242222U

100-1.000µl with capillary

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
100-1.000	Blue	Universal	Bag	Kartell	Kartell, Gilson, Socorex, Nichiryo, Biohit, Brand	1.000	425-000961
100-1.000	Blue	Universal	Rack	Kartell	Kartell, Gilson, Socorex, Nichiryo, Biohit, Brand	10x96	425-009640
100-1.000	Blue	Universal	Refilling	Kartell	Kartell, Gilson, Socorex, Nichiryo, Biohit, Brand	50x96	425-009748
100-1.000	Blue	Universal	Bag	Deltalab	Kartell, Gilson, Socorex, Nichiryo, Biohit, Brand	1.000	027-200012
100-1.000	Blue	Universal	Rack	Deltalab	Kartell, Gilson, Socorex, Nichiryo, Biohit, Brand	10x96	027200012R
100-1.000	Blue	Universal	Sterile, individually wrapped	Deltalab	Kartell, Gilson, Socorex, Nichiryo, Biohit, Brand	175	000200012B
100-1.000	Blue	Universal	Bag	Daslab	Kartell, Gilson, Socorex, Nichiryo, Biohit, Brand	1.000	120163007A
100-1.000	Blue	Eppendorf	Rack	Daslab	Eppendorf, Socorex, Brand and others	10x96	120-243740

200-1000µl

Volume (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
200-1.000	Blue	Universal	Bag	Kartell	Kartell, Gilson, Eppendorf, Biohit	1.000	425-000957

200-2500µl extra long. Adjustable for 1.000µl tip cones

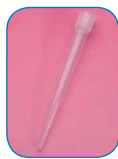
Volume (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
200-2.500	Natural	-	Bag	Daslab	Nichiryo, Gilson, Eppendorf and others	500	120-162064

1.000-5.000µl

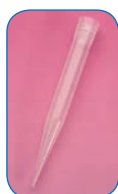
Volume (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1.000-5.000	Natural	-	Bag	Kartell	Kartell, Eppendorf, Biohit	100	425-000964
1.000-5.000	Natural	-	Rack	Kartell	Kartell, Eppendorf, Biohit	4x50	425-009649
1.000-5.000	Natural	-	Bag	Daslab	Gilson, Nichiryo and others	250	120-162005
1.000-5.000	Natural	-	Rack	Daslab	Gilson, Nichiryo and others	4x50	120-243742

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

1.000-5.000µl with capillary


Volume (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1.000-5.000	Light blue	-	Bag	Kartell	Gilson, Socorex, Nichiryo	250	425-000984
1.000-5.000	Light blue	-	Rack	Kartell	Gilson, Socorex, Nichiryo	4x50	425-009648
1.000-5.000	Natural	-	Bag	Deltalab	Eppendorf, Biohit and Oxford	250	027-200075
1.000-5.000	Natural	-	Rack	Deltalab	Eppendorf, Biohit and Oxford	4x50	027-199075
1.000-5.000	Natural	-	Bag	Daslab	Eppendorf, Biohit and HTL	250	120-162230
1.000-5.000	Natural	-	Rack	Daslab	Eppendorf, Biohit and HTL	4x50	120-243743

2-10ml


Volume (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
2.000-10.000	Natural	-	Bag	Kartell	Kartell, Gilson, Socorex, Finnpiquette	100	425-000943
2.000-10.000	Natural	-	Rack	Kartell	Kartell, Gilson, Socorex, Finnpiquette	4x25	425-009848
2.000-10.000	Natural	-	Bag	Daslab	Gilson, Socorex, Finnpiquette	100	120-163841

Tips with filter for automatic pipettes

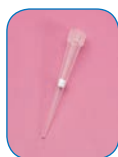
Selection of polypropylene tips with filter. DNase, RNase, metal and pyrogen free. Sterilized by irradiation. Each tip compatibility is only a recommendation indicated by manufacturer and can be used with other non indicated brands.

0,1-10µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
0,5-10	Natural	Gilson with filter	Sterile rack	Kartell	Kartell (Pluripet pl2, pl10), Gilson (p2, p10)	10x96	425-009638
0,1-10	Natural	With extra filter	Sterile rack	Deltalab	Eppendorf, Labsystems, Biohit, Nichiryo, Rainin	10x96	000327-19X
0,5-10	Natural	Eppendorf cristall with filter	Sterile rack	Kartell	Kartell (Pluripet pl2, pl10), Eppendorf (0,5µl), Socorex	10x96	425-009630

0,5-10µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
0,5-10	Natural	With extra filter	Sterile rack	Deltalab	Eppendorf, Gilson, Socorex, Nichiryo	10x96	00327-37RX

2-20µl


Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
2-20	Natural	Eppendorf with filter	Sterile rack	Kartell	Kartell (Pluripet pl20), Eppendorf (2-20µl)	10x96	425-009639

→ Continued on the next page

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1-30µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1-30	Natural	Gilson with filter	Sterile rack	Kartell	Gilson p20	10x96	425-009634

1-100µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1-100	Natural	Gilson with filter	Sterile rack	Kartell	Kartell (p100), Gilson (p100)	10x96	425-009635
2-100	Natural	Gilson with extra filter	Sterile rack	Deltalab	Eppendorf, Gilson, Socorex, Nichiryo	10x96	000327-24X

5-100µl

Volume (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
5-100	Natural	Eppendorf with filter	Sterile rack	Kartell	Kartell (p100), Gilson (p100), Eppendorf (10-100µl), Socorex, Biohit, Nichiryo, Brand	10x96	425-009632

1-150µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1-150	Natural	Gilson with filter	Sterile rack	Kartell	Kartell (p1200), Gilson (p200)	10x96	425-009636

1-170µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1-170	Natural	Universal with filter	Sterile rack	Kartell	Kartell (p1200), Gilson (p200), Eppendorf, Socorex	10x96	425-009629

1-200µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
1-200	Natural	Universal with filter. Extra long	Sterile rack	Deltalab	Gilson, Eppendorf, Nichiryo, Finnpiquette, Oxford and others	8x204	027-327-26

→ Continued on the next page

2-200µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
2-200	Natural	Eppendorf with extra filter	Sterile rack	Deltalab	Eppendorf, Gilson, Socorex, Nichiryo, HTL, Kartell	10x96	00327-34RX

5-300µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
5-300	Natural	Eppendorf with filter	Sterile rack	Kartell	Gilson, Eppendorf, Biohit	10x96	425-009637

100-1.000µl

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
100-1.000	Natural	Eppendorf with filter	Sterile rack	Kartell	Gilson, Eppendorf, Socorex, Biohit, Nichiryo, Brand	10x96	425-009633
100-1.000	Natural	Gilson with extra filter	Sterile rack	Deltalab	Eppendorf, Gilson p500, p1001, Socorex, Nichiryo, HTL, Kartell	10x96	00327-16RX

100-1000µl with capillary

Vol. (µl)	Colour	Type	Presentation	Brand	Compatibility	Pack (u.)	Art. No.
100-1.000	Natural	Eppendorf with filter	Sterile rack	Kartell	Gilson, Eppendorf, Socorex, Biohit, Nichiryo, Brand	10x96	425-009631
100-1.000	Natural	Universal with extra filter	Sterile rack	Deltalab	Biohit, Brand, Eppendorf, Gilson, Socorex, Nichiryo, HTL, Kartell	10x96	00327-30RX

MOLECULAR BIOLOGY: Pipette fillers

**Pipet controller kit
GOSSELIN SAS**

Ideal system for pipetting and liquid sample handling. This kit includes:

- Automatic pipetting filler Pipetor for its use with pipettes between 0,5ml-100ml.
- 10 individually wrapped serological wide tip PS Pipets.
- 10 individually wrapped serological standard tip PS Pipets.
- 25 blender bags with filter.
- 25 blender bags without filter.
- Lab timer.

Description	Pack (u.)	Art. No.
Pipetor kit	1	00PCKIT-01


**Pipetus®-junior manual pipette filler
HIRSCHMANN**

Simple, reliable, exact-pipetus® junior is distinguished as a manual pipette filler by the superior quality of its details and ergonomic shape. A single press of the pump button suction approximately 2ml in each case. The hydrophobic PTFE diaphragm filter of 0,2µm is a standard feature that provides integrated overflow protection. For its use with pipettes above 0,5ml.

Description	Pack (u.)	Art. No.
Pipetus®-junior (Complete)	1	6709902000

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Pipetus® automatic pipette filler HIRSCHMANN

Rechargeable battery operated pipetting filler. All available pipettes are suitable from 0,1 to 200ml. Speed switch selection between 5 suction and dispensing speed possibilities. More than 50h work without charging. Without noise and vibrations. Very light. With safety valve which prevents liquid from entering the unit. Finest meniscus adjustment by superior valve technology. Hydrophobic PTFE 0,2µm filters. Autoclavable pipetting filler except from PTFE filters. Silicone adapter ensures the seating of all pipettes. Provided complete with: 2 filters, safety valve and charger. With integrated colour display which shows status of battery and buzzer when battery reaches under 10%.

Description	Pack (u.)	Art. No.
Pipetting filler Pipetus® (Complete)	1	6709907200



Pipetus®-Standard automatic pipette filler HIRSCHMANN

For working explosive and/or sterile environments. Motoric pipette filler for volumes between 0,1ml-200ml. Powered by an external electric pump which makes it ideal for working in potentially explosive environments, with toxic reagents or in clean room technology. Ideal for applications where sterility is an essential requirement, due to its pump can incorporate an extremely effective filter, which can be integrated on both air directions. Complete with electric pump, 2 filters and an extra safety valve.

Description	Pack (u.)	Art. No.
Pipeteador Pipetus®-Standard with pump (complete)	1	6709903000
Pipeteador Pipetus®-Standard with pump and external filter	1	6709904000

Accessories for Pipetus® line HIRSCHMANN

Description	Pack (u.)	Art. No.
Filter 0,2µm	5	6709903704
Holder for all Pipetus® models	1	6709905700



Automatic pipettor Seropet KARTELL

Battery life: 8h. Autoclavable pieces: filters, pipette holder and nosepiece. Filters: hydrophobic PTFE 0,2µm. Compatible pipettes: glass and plastic from 1 to 10ml. High aspiration speed: 25ml in 4 seconds. Great valve sensitivity which allows high working precision with low volume pipettes. LED adviser when low battery Includes: NiMH battery, charger, hydrophobic PTFE 0,2µm filter and adhesive holder.

Description	Pack (u.)	Art. No.
Seropet 1-100ml	1	425-129510
2 PTFE autoclavable filters 0,2µm and 0,45µm	1	425-001360

Glass pipettes in PIPETTES





Maneus pipette controller
VITLAB

Totally autoclavable. For its use with plastic glass pipettes. Allows to adjust the the meniscus precisely. Simple to dismantle and clean. For all normal bulb and graduated pipettes from 0,1 to 100ml. With replacement 3µm membrane filter and instruction manual.

Description	Pack (u.)	Art. No.
Maneus pipette controller	1	0331630500
Filter 3µm, sterile, PTFE	10	0331670650

MOLECULAR BIOLOGY: Plates for molecular biology

384 Well PCR plate
DELTALAB

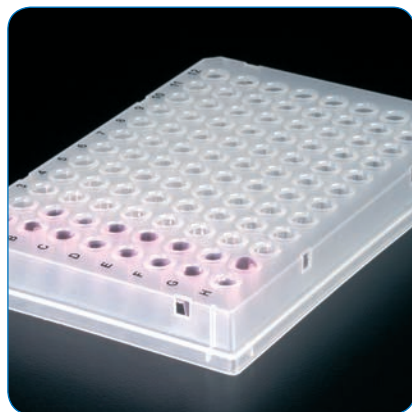
Made of transparent polypropylene. Each well has a capacity of 50µl. A low rim around the top of each well helps to prevent accidental cross-contamination. All wells are thin walled for an excellent thermal transfer. Orientation cut is at position A 24 (upper right). A black printed alphanumeric grid helps sample identification. RNase, DNase, DNA and PCR inhibitors free. Suitable for PCR and real time PCR (QPCR). Dimensions according to the SBS standard. Minimum order quantity: 10.

Description	Pack (u.)	Art. No.
PCR 384 plate	10x10	027-900384

96 Well flexible PCR plate
DELTALAB

Made of autoclavable polypropylene. Certified RNase and DNase free. It is suitable for both real time and standard PCR thermocyclers. 96-well PCR plate, total capacity of 300µl for each well. Thin-walled for rapid thermal transfer. Flexible, the plate could be easily cut into sections of 24, 32 or 48 tubes. An alphanumeric grid helps sample identification, and to facilitate orientation, the bottom right corner of the plate is cut away. Dimensions: 120x73x20mm. Dimensions according to the SBS standard.

Colour	Pack (u.)	Art. No.
Natural	10	027-900098

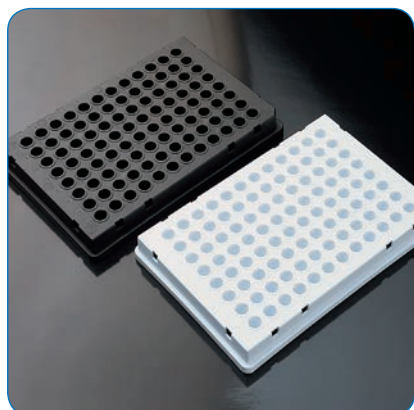


96 Well low profile skirted PCR plate
DELTALAB

Made of polypropylene. Each "low profile" well has a capacity of 200µl. A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film. All wells are thin walled for an excellent thermal transfer. This plate has a skirt approximately 15mm high that can be filled using automatic fluid handling systems or standard multichannel pipettors. A black printed alphanumeric grid helps sample identification. Orientation cut is at position A 12 (upper right). RNase, DNase, DNA and PCR inhibitors free. Suitable for PCR and real time PCR (QPCR). Dimensions according to the SBS standard.

Colour	Pack (u.)	Art. No.
Natural	10x10	027-900123

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Opaque skirted 96 well PCR plate DELTALAB

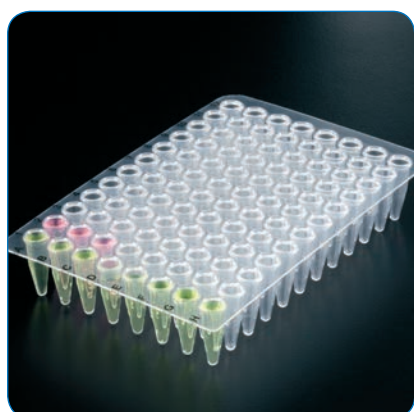
Made of autoclavable polypropylene. Certified RNase and DNase free. Alphanumeric identification. The skirt around the plate provides a labelling area.

Conical-bottomed wells. Presented by packs of 10 units. To facilitate orientation, the bottom right corner of the plate is cut away. Well dimensions: 5,5mm. Well depth: 14mm. Suitable for MJ Research 100/200, Ericomp, Twinblock, Perkin-Elmer 9600 thermocyclers. Adaptable to most pipetting systems.

Dimensions: 126x84x15mm.

Minimum order quantity: 10.

Description	Pack (u.)	Art. No.
96 well polypropylene black plate, for fluorescence PCR	5x10	027-900093



96 Well standard plate DELTALAB

Made of transparent polypropylene. Each well has a capacity of 350µl. A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film. All wells are thin walled for an excellent thermal transfer.

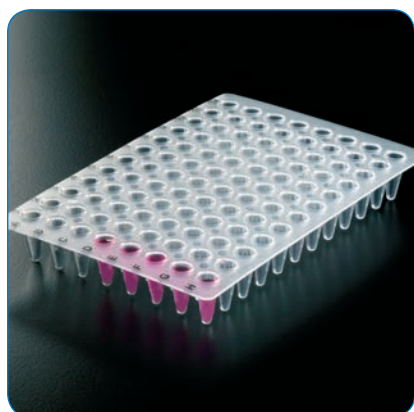
Its flexible design allows the plate to be easily cut into sections of 24, 32 or 48 tubes.

A black printed alphanumeric grid helps sample identification. Orientation cut is at position A 12 (upper right). RNase, DNase, DNA and PCR inhibitors free.

Suitable for PCR and real time PCR (QPCR).

Dimensions according to the SBS standard.

Colour	Pack (u.)	Art. No.
Natural	10x10	027-900111



96 Well low profile PCR plate DELTALAB

Made of transparent polypropylene. DNase, RNase, DNA and PCR inhibitors free.

Low profile well (15mm high) reduces condensation effects. Perfect to work with samples of 100µl or even less. A low rim around the top of each well helps to prevent accidental cross-contamination. A printed alphanumeric grid helps sample identification.

The orientation cut is at position H 12 (lower right). It is suitable for both standard or Real Time PCR.

Dimensions according to the SBS standard.

Description	Pack (u.)	Art. No.
Low profile PCR plate	5x20	027-900110

96 Well semi-skirt PCR plate DELTALAB

Made of transparent polypropylene. DNase, RNase, DNA and PCR inhibitors free.

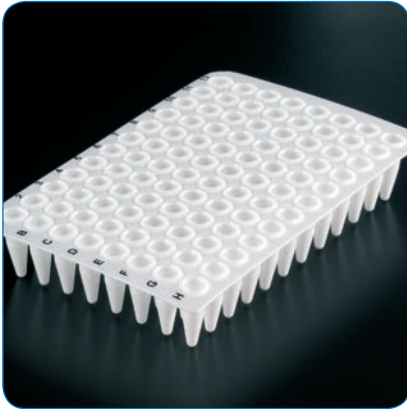
Each well has a capacity of 200µl and embodies a low rim around its top which prevents accidental cross-contamination and it makes easy the sealing with foils.

Orientation cut is at position A 12 (upper right). Alphanumeric identification printed in black. This plate has a semi skirt ±7.5mm high. Suitable for most thermocyclers, including ABI sequencers.

Dimensions according to the SBS standard.

Description	Pack (u.)	Art. No.
Semi-skirt PCR plate	10	027-900122

For further information, please contact scharlab@scharlab.com

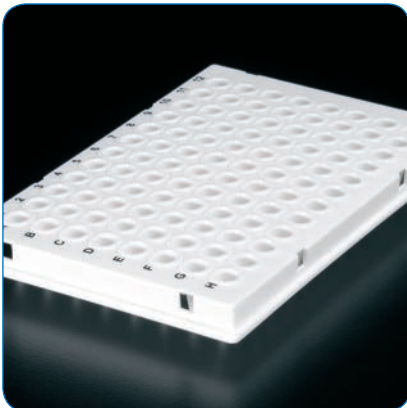


96 Well white standard PCR plate
DELTALAB

Made of white polypropylene. 96 wells standard plate. Each well has a capacity of 350µl. A low rim around the top of each well helps to prevent accidental cross contamination and makes easy the sealing with film.

All wells are thin walled for an excellent thermal transfer. Its flexible design allows the plate to be easily cut into sections of 24, 32 or 48 tubes. A black printed alphanumeric grid helps sample identification. Orientation cut is at position A 12 (upper right). RNase, DNase, DNA and PCR inhibitors free. Suitable for PCR and real time PCR (QPCR). Dimensions according to the SBS standard. Minimum order quantity: 10.

Description	Pack (u.)	Art. No.
White PCR plate	10x10	027900111B

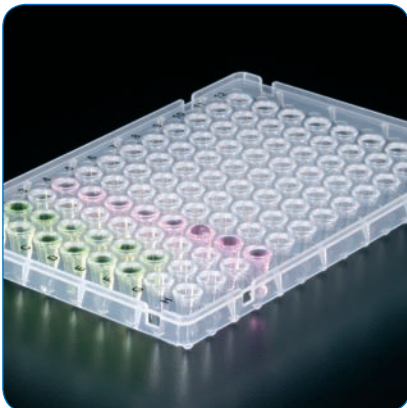


96 Well low profile, semi-skirted white PCR plate (ROCHE)
DELTALAB

Specially designed for Roche thermocycler. Made of white polypropylene. Each well has a capacity of 200µl. A low rim around the top of each well helps to prevent accidental cross-contamination and makes easy the sealing with film. Orientation cut is at position H 12 (bottom right).

A black printed alphanumeric grid helps sample identification. RNase, DNase, DNA and PCR inhibitors free. Suitable for PCR and real time PCR (QPCR). Dimensions according to the SBS standard. Minimum order quantity: 10.

Description	Pack (u.)	Art. No.
Semi-skirt PCR plate	10x10	027900113B



96 Well, low profile, semi-skirted PCR plate (ABI)
DELTALAB

Specially designed for ABI "Fast" thermocycler. Made of transparent polypropylene. Each well has a capacity of 200µl. A low rim around the top of each well helps to prevent accidental cross-contamination. Orientation cut is at position A1 (upper left).

A black printed alphanumeric grid helps sample identification. RNase, DNase, DNA and PCR inhibitors free. Suitable for PCR and real time PCR (QPCR). Dimensions according to the SBS standard. Minimum order quantity: 10.

Description	Pack (u.)	Art. No.
Semi-skirt PCR plate	10x10	027-900112



PCR sealing mat
DELTALAB

Manufactured from a non reactive rubber, this PCR sealing mat ensures a secure, leak free seal during the PCR cycling process.

It is designed to seal 96 well PCR plates, but may also be cut to fit 24/32/48 well plates. The mat is marked "this side up" for a proper positioning into the plate (sharp cone side up). The PCR sealing mat can be re-used as often as required. DNase, RNase, DNA and PCR inhibitors free.

Description	Pack (u.)	Art. No.
PCR sealing mat	10x5	027-900305

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Adhesive sealing films for PCR plates

DELTALAB

Sealing film for use with microplates, PCR plates and microtiter plates.

Advantages:

- Minimises the risk of contamination or reagent spillage during E.L.I.S.A or PCR processes.
- Minimises the risk of contamination from tube to tube and from plate to plate.
- Prevents sample evaporation.

The film is thermostable and functional from -70°C to $+95^{\circ}\text{C}$ at 75% humidity.

RNase and DNase free.

DMSO resistant.

We recommend to use the "roller" 027-900330 to ensure a perfect seal.

Description	Pack (u.)	Art. No.
Adhesive film	100	027-900300
Sealing roller	1	027-900330



Aluminium sealing foils

DELTALAB

This type of material is ideal for manual sealing during PCR work, microtiter plates or manipulation and file plates. Adhesive backing. For high throughput applications from -86°C to $+95^{\circ}\text{C}$. Pierceable with a pipette tip for easy access to sample. DMSO resistant.

It is recommended to use the "roller" Art. No. 027-900330 for ensuring a perfect sealing, eliminating the danger of evaporation.

RNAsa, DNAsa and DNA free.

Description	Pack (u.)	Art. No.
Aluminium foil	100	027-900320
Sealing roller	1	027-900330

MOLECULAR BIOLOGY: Racks and boxes for cryotubes

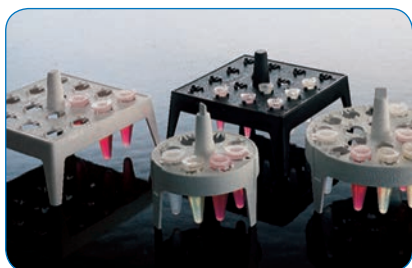


Cryovial Racks

NALGENE

PC. Autoclavable. Space-saving. With molded identification numbers and letters. One-hand operation possible.

Size WxHxD (mm)	Positions	Pack (u.)	Art. No.
197x22x102	25 (staggered)	1	0N50300505
197x28x102	50	1	0N50300510



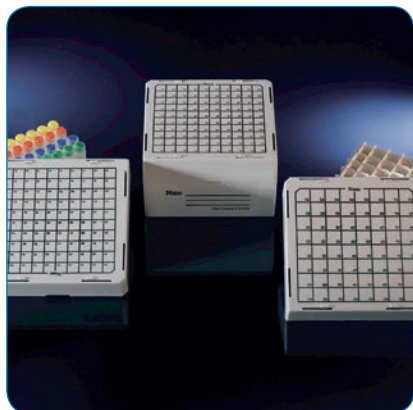
Floating racks

NALGENE

PP. For 0.5 to 2.0ml reaction vials and cryovials. Racks will float with a full load of filled tubes. With molded identification number and letters. Autoclavable. Excellent temperature resistance from -70 to 100°C .

Type	For vials (ml)	Size (mm)	Positions	Colour	Pack (u.)	Art. No.
Square	0,5/1,0/1,2/1,5/2,0	103x65x103	4x4	White	1	0N59740404
Round	1,0/1,2/1,5/2,0	Ø 66x65 alt.	8	White	1	0N59744015
Round	1,0/1,2/1,5/2,0	Ø 96x65 alt.	20	White	1	0N59741015

For further information, please contact scharlab@scharlab.com



Coloured cryoboxes NALGENE

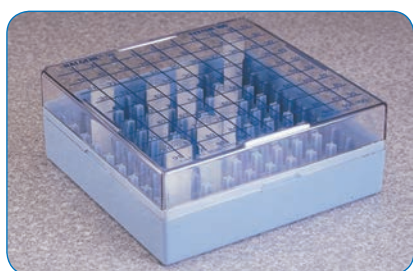
PC. Five grid colours for easy-to-identify inventory management provide safe and economical storage of up to 81 cryogenic samples. These coloured boxes hold 1.0 to 2.0ml cryogenic storage vials in a 9 x 9 array.

Dimensions (L x W x H) are 133 x 133 x 52mm.

Usable temperature range is - 196 to +121°C.

Colours match the cryogenic vial colour Art. No.rs. Transparent lid allows easy viewing of contents. Lids have numbered grid for quick sample identification. Assortment pack with 4 each red, yellow, green, blue, grey, white available. Autoclavable.

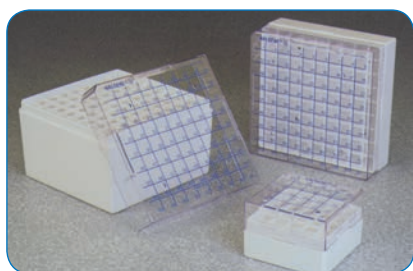
Pack	Colour	Pack (u.)	Art. No.
Single	Red	4	N670130240
Single	Yellow	4	N670130241
Single	Green	4	N670130242
Single	Blue	4	N670130243
Single	Gray	4	N670130244
Set	4 each colour	24	N670130245



CryoBox™-System 100™ NALGENE

PC. Resist ultra-low storage-temperatures from - 196 up to + 121°C. Autoclavable. With grid numbers on the lid for reliable identification of individual samples. Lid fits one way only to maintain the correct grid orientation. Box fits most stainless steel racks.

Dim. WxHxD (mm)	Positions	Pack (u.)	Art. No.
133x52x133	10x10	1	N5026-1010



CryoBox™ NALGENE

Stable, autoclavable PC. With printed grip on lid for cryovials and similar tubes up to 13.5mm Ø. Temperature resistant from -196 up to +121°C. With grid numbers for reliable identification of individual samples.

For vials	Dim. WxHxD (mm)	Positions	Pack (u.)	Art. No.
1,2/2	76x51x76	5x5	1	N5025-0505
1,2/2	133x51x133	9x9	1	N5026-0909
5	133x95x133	9x9	1	N5027-0909



MAX-100 CryoStore™ Boxes NUNC

Durable PC storage boxes for CryoTubes™ available with different dividers for different tube sizes: 10x10 dividers for internally threaded tubes, 9x9 dividers for externally threaded tubes or tubes fitted with CryoFlex™ or 8x8 dividers for microcentrifuge tubes.

Type	For vials (ml)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
With 10x10 divider	1,0 to 1,8	132x52x132	24	00NU374187
With 9x9 divider	3,6	132x78x132	24	00NU341483
With 8x8 divider	1,5	132x52x132	24	00NU330821

Accessories

NUNC

Dividers for MAX-100 CryoStore™ Boxes

Type	Pack (u.)	Art. No.
10x10	24	00NU342080
8x8	24	00NU335505

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MORTARS



Porcelain mortars HALDENWANGER

Porcelain mortars with spout without hand, outside glazed.

Interior glazed

Height (mm)	Ø int. (mm)	Capacity (ml)	Pack (u.)	Art. No.
40	63	79	1	011-055/0A
63	115	250	1	011-0055/4
65	125	400	1	011-0055/5
70	150	650	1	011-055/6A

Interior unglazed

Height (mm)	Ø int. (mm)	Capacity (ml)	Pack (u.)	Art. No.
55	90	170	1	011-RU55/3
63	115	250	1	011-RU55/4
65	125	400	1	011-RU55/5
80	180	1000	1	011-RU55/8

Pestle with unglazed grinding area

Length (mm)	Ø head (mm)	Pack (u.)	Art. No.
115	24	1	011RU56/00
135	30	1	011-RU56/1
175	42	1	011-RU56/3
180	45	1	011-RU56/4
185	48	1	011-RU56/5
210	55	1	011RU56/6A
215	60	1	011-RU56/8

Pestle with glazed grinding area



Length (mm)	Ø head (mm)	Pack (u.)	Art. No.
150	36	1	011-ES56/2
175	42	1	011-ES56/3
180	45	1	011-ES56/4
210	55	1	011ES56/6A

For further information, please contact scharlab@scharlab.com



Agate mortars

Agate mortars with pestle. Polished, uniform.

Ø int. (mm)	Capacity (ml)	Pack (u.)	Art. No.
40	10	1	022-0050ST
60	25	1	022-0075ST
80	50	1	022-0100ST
105	100	1	022-0125ST



Glass mortars

Soda glass mortars with pestle.

Ø int. (mm)	Capacity (ml)	Pack (u.)	Art. No.
60	50	1	038-130060
80	100	1	038-130080
100	250	1	038-130100
120	500	1	038-130120
180	1.250	1	038-130180

OFFICE EQUIPMENT AND ACCESSORIES

Ergonomic laboratory chairs and stools, KONCEPT gamma KANGO

Chairs and stools which are not only a comfort element but also a true working tool. Ergonomic, both seat and back. Seat and back made of resistant polyurethane which minimizes sweating. Resistant to cuts, weak acids, sparks and lubricants. Easy to clean, for use in cleanroom, laboratories. Sliding legs.

Chairs



7NG40GHLPO



7NG32VHXX0

Characteristics	Adjustable seat	Footrest	Seat height (mm)	Colour	Cleanroom	Pack (u.)	Art. No.
Height adjustable footrest	Yes, height and tilt	Yes	560-800	Black	No	1	7NG40GHLPO
Cleanroom Chair. Adjustable foot with screws	Yes, height	Yes	500-750	Black	Yes	1	7NG32VHXX0

→ Continued on the next page

Stools with back protection



4DM34GHLPO



7NK91NHDP0



7EG35GHLE1

Characteristics	Adjustable seat	Footrest	Seat height (mm)	Colour	Cleanroom	Pack (u.)	Art. No.
Height adjustable footrest	Yes	Yes	590-830	Black	No	1	4DM34GHLPO
The flexible seat adapts to the user's movements	Yes	Yes	610-855	Black	No	1	7NK91NHDP0
Antistatic	Yes	Yes	560-800	Black	Yes	1	7EG35GHLE1

Tools

Basic tools.



Description	Pack (u.)	Art. No.
Cutter autolock 18mm metal	1	0000CUTTER
Pliers 180mm	1	000ALICATE
Screwdriver 6,5x150mm	1	DESTORNILL
Scissors with ergonomic handle. Stainless steel blades	1	4568758000
Digital Caliper	1	2022010000
Laser pointer reaches 650m with case and batteries	1	5458904000



Batteries

Energizer alkaline batteries.

Description	Pack (u.)	Art. No.
Alkaline batteries, size AA	4	000AALR-06
Alkaline batteries, big size	2	00000LR-20
Alkaline batteries, size AAA	4	00AALR-03



Button cell

Description	Pack (u.)	Art. No.
Blister button battery	2	00A76LR-44



Lanterns

Description	Pack (u.)	Art. No.
Super LED lantern 1W with adjustable focus	1	000036069



Autoadhesive notes

Super Sticky 90 sheets post-it block with extrastrong removable adhesive. Comes off without a trace.

Description	Pack (u.)	Art. No.
Block 90 sticky notes dim. 76mmx76mm	1	2834458000
Block 90 sticky notes dim. 76mmx127mm	1	2834469000



Permanent marker

Black coloured permanent marker, conical tip. Quick dry ink, resistant to abrasion, water and light. Suitable for marking in almost all surfaces.

Description	Pack (u.)	Art. No.
Permanent marker, EDDING 3000, black	1	1480660000
Permanent marker, EDDING 3000, blue	1	1489660000



Bin

Description	Pack (u.)	Art. No.
Bin 15 liters silver. Dim: 320mm high x 260mm Ø	1	0908000000



Calculator

Desktop calculator.

Description	Pack (u.)	Art. No.
Desktop calculator, CANON LS-80TEG, 8 digits	1	4979839000



Metal stapler

Chrome plated metal stapler.

Description	Pack (u.)	Art. No.
Desktop stapler, PETRUS 226. Chrome. Without staples.	1	3813810000



Tape and paper holder

Description	Pack (u.)	Art. No.
Pack of clear tape 19mm	8	4638773000
Black Desktop Holder for 19mm tape	1	2371770000



Labeled tape

Labeled tape for laboratory tubes, beakers and samples identification.
 Labeled with pen, marker or pencil.
 Do not leave any waste when removed.
 Resistant to temperatures from -73°C to 95°C.

Colour	Length (m)	Width (mm)	Pack (u.)	Art. No.
White	36,5	13	1	0009040379
White	36,5	19	1	0009040380
White	36,5	25	1	0009040381
Red	36,5	12,7	1	F134631005
Yellow	36,5	12,7	1	F134632005
Green	36,5	12,7	1	0004633005
Red	36,5	19	1	F134631075
Yellow	36,5	19	1	0004632075
Green	36,5	19	1	0004633075

PIPETTES

- Graduated pipettes, *page 701*
- Pasteur pipettes, *page 702*
- Pipetting filler, *page 703*
- Serological pipettes, *page 704*
- Volumetric pipettes, *page 704*

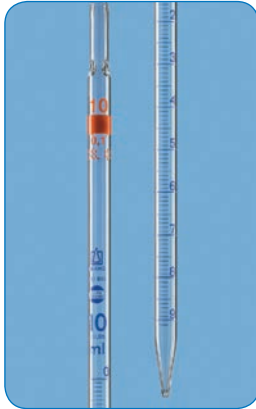
PIPETTES: Graduated pipettes



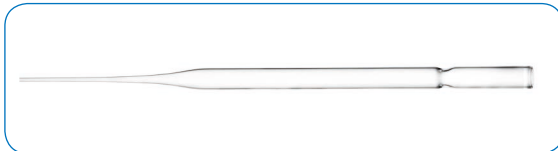
Graduated pipette, class AS, total delivery, serialized and certified SCHARLAU

Capacity (ml)	Division (ml)	Pack (u.)	Art. No.
0,5	1/100	5	073-991305
1	1/100	5	073-991715
2	1/50	5	073-991717
5	1/20	5	073-991719
10	1/10	5	073-991720
25	1/10	5	073-991721

For further information, please contact scharlab@scharlab.com


Graduated pipette, class AS, total delivery, serialized and certified BRAND

Capacity (ml)	Division	Pack (u.)	Art. No.
0,5	0,01	6	022-027705
1	0,01	6	022-027706
1	0,1	6	022-027707
2	0,01	6	022-027708
2	0,02	6	022-027709
2	0,1	6	022-027710
5	0,05	6	022-027711
10	0,1	6	022-027713
20	0,1	6	022-027714
25	0,1	6	022-027715
50	0,5	6	022-027716

PIPETTES: Pasteur pipettes

**Glass Pasteur pipettes
SCHARLAU**

Glass Pasteur pipette.

Length (mm)	Pack (u.)	Art. No.
160	250	073-001734
220	250	073-001735


**Plastic Pasteur pipettes
DELTALAB**

Clear polyethylene. Volumetric tolerance $\pm 10\%$.

Pasteur pipettes ungraduated

Capacity (ml)	Description	Length (mm)	Sterile	Presentation	Pack (u.)	Art. No.
5	Fine tip	144	No	Bags 500 units	5000	027-210002
5	Fine tip	144	Yes	Unit bag	500	027-210022
8	Standard tip	150	No	Bags 400 units	400	027-200000

Pasteur pipettes graduated (1,5ml)

Capacity (ml)	Description	Length (mm)	Sterile	Presentation	Pack (u.)	Art. No.
5	Standard tip	154	No	Bags 500 units	500	027-200003
5	Standard tip	154	Yes	Bags 20 units	500	027-200032
5	Standard tip	154	Yes	Unit bag	500	027-200004

Pasteur pipettes graduated (3ml)

Capacity (ml)	Description	Length (mm)	Sterile	Presentation	Pack (u.)	Art. No.
7	Standard tip	154	No	Bags 500 units	500	027-200006
7	Standard tip	154	Yes	Bags 20 units	500	027-200062
7	Standard tip	154	Yes	Unit bag	500	027-200007

PIPETTES: Pipetting filler

“FLIP” Safety pipette filler
DEUTSCH & NEUMANN

Safety pipette filler, natural rubber.
 Only two operating points
 Evacuate via the new automatic valve
 Ability to clean inside of bulb by removing patented valve

Colour	Pack (u.)	Art. No.
Red	1	0004710001
Black	1	0004710011


Rubber bulbs for smaller pipettes
DEUTSCH & NEUMANN

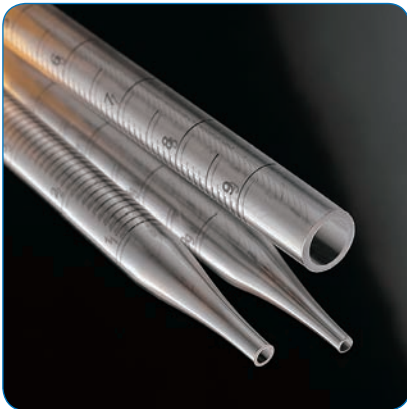
Description	Pack (u.)	Art. No.
Natural rubber	100	4600002DAN
Silicone rubber	100	4600003DAN


Safety pipette fillers
DEUTSCH & NEUMANN

Natural rubber pipette fillers.

Model	Colour	Pack (u.)	Art. No.
Standard, short neck	Red	1	0004700001
Universal, large neck	Red	1	0004700002
Universal, with adapter	Red	1	425-000200

For further information, please contact scharlab@scharlab.com

PIPETTES: Serological pipettes

**Serological pipettes
DELTALAB**

Single use, made of crystal polystyrene. Accuracy > 98%. Sterilised by radiation. Made in one piece for an optimum precision, except Art. No. 90043 (50ml). No liquid retention: as tip is not sealed, liquid is not held at the joint. Total dispensing guaranteed. Non pyrogenic (ISO 10993-11), non cytotoxic (ISO 10993-5) and non haemolytic (ISO 10993-4). DNase and RNase free. Guaranteed features for 5 years. Each pack is delivered with sterility and conformity certificate.

Capacity (ml)	Tip	Total cap. (ml)	Presentation	Pack (u.)	Art. No.
1	Tape end	1,3	Unit bag	500	027-900030
1	Tape end	1,3	Bags 25 units	1.000	027-900031
1	Open tip	1,3	Unit bag	500	027-900130
1	Open tip	1,3	Bags 25 units	1.000	027-900131
2	Tape end	2,4	Unit bag	500	027-900032
2	Tape end	2,4	Bags 25 units	1.000	027-900033
5	Tape end	8	Unit bag	250	027-900034
5	Tape end	8	Bags 25 units	375	027-900038
5	Wide tip	8	Unit bag	125	027900144N
5	Open tip	8	Unit bag	125	027900134N
10	Tape end	13	Unit bag	200	027-900036
10	Tape end	13	Bags 25 units	250	027-900037
10	Wide tip	13	Bags 25 units	250	027900146N
10	Open tip	13	Unit bag	125	027900136N
10	Open tip	13	Bags 25 units	250	027-900137
25	Tape end	35	Unit bag	100	027-900041
50	Tape end	55	Unit bag	200	027-900043

PIPETTES: Volumetric pipettes

**Volumetric pipettes, one mark, class AS, serialized and certified, soda-lime glass
SCHARLAU**

Capacity (ml)	Pack (u.)	Art. No.
1	5	073-991676
2	5	073-991677
5	5	073-991678
10	5	073-991679
20	5	073-991681
25	5	073-991682
50	2	073-991683


**Volumetric pipettes, two marks, class AS, serialized and certified, soda-lime glass
SCHARLAU**

Capacity (ml)	Pack (u.)	Art. No.
1	5	073-991696
2	5	073-991697
5	5	073-991698
10	5	073-991699
20	5	073-991701
25	5	073-991702
50	2	073-991703



Volumetric pipettes, one mark, class AS, serialized and certified, AR-GLAS® glass BRAND

Capacity (ml)	Pack (u.)	Art. No.
0,5	12	022-029701
1	12	022-029702
2	12	022-029703
2,5	6	022-029704
3	6	022-029705
4	6	022-029706
5	6	022-029707
6	6	022-029708
7	6	022-029709
8	6	022-029710
9	6	022-029711
10	6	022-029712
15	6	022-029713
20	6	022-029714
25	6	022-029715
30	6	022-029716
40	6	022-029717
50	6	022-029718
100	6	022-029719



Volumetric pipettes, two marks, class AS, serialized and certified, AR-GLAS® glass BRAND

Capacity (ml)	Pack (u.)	Art. No.
0,5	12	022-029721
1	12	022-029722
2	12	022-029723
3	6	022-029725
5	6	022-029727
10	6	022-029732
15	6	022-029733
20	6	022-029734
25	6	022-029735
50	6	022-029738

For further information, please contact scharlab@scharlab.com

PIPETTES

Monobuf®

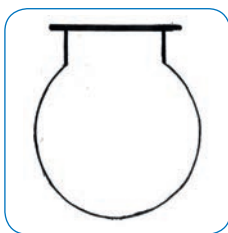
The Scharlau ready to use standard buffer solution packaged in single doses



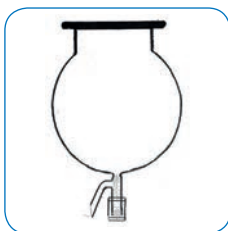
Scharlau
The wise choice

REACTION VESSELS

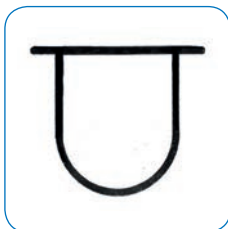
- Reaction vessels with flat flange, *page 706*
- Accessories for reaction vessels with flat flange, *page 708*
- Reaction vessels with Schott type flat flange, *page 709*
- Accessories for reaction vessels with Schott type flat flange, *page 711*
- Stirrer bearings and shafts, *page 713*

REACTION VESSELS: Reaction vessels with flat flange

Reaction vessel, spherical, flat flange
SCHARLAU

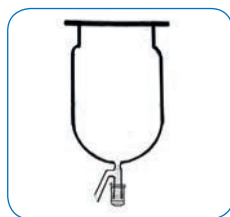
Capacity (ml)	Ø joint (mm)	Pack (u.)	Art. No.
1000	100	1	073-000175
2000	100	1	073-000176


Reaction vessel, spherical, with PTFE stopcock, flat flange
SCHARLAU

Capacity (ml)	Ø joint (mm)	Ø key bore (mm)	Pack (u.)	Art. No.
2000	100	10	1	073-000182
4000	100	10	1	073-000183
6000	100	10	1	073-000184
10000	100	20	1	073-000185
20000	100	20	1	073-000186

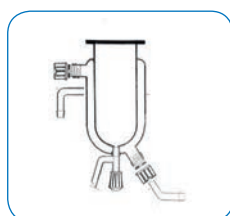

Reaction vessel, cylindrical, flat flange
SCHARLAU

Capacity (ml)	Ø joint (mm)	Pack (u.)	Art. No.
500	75	1	073-000168
500	100	1	073-016704
1000	75	1	073-016705
1000	100	1	073-000169
2000	100	1	073-000170
3000	100	1	073-016707
4000	100	1	073-016709
5000	100	1	073-000158



Reaction vessel, cylindrical, with PTFE stopcock, flat flange
SCHARLAU

Capacity (ml)	Ø joint (mm)	Ø key bore (mm)	Pack (u.)	Art. No.
500	75	10	1	073-100172
500	100	10	1	073-117313
1000	75	10	1	073-117314
1000	100	10	1	073-100173
2000	100	10	1	073-100174
3000	100	10	1	073-117408
4000	100	10	1	073-117410
5000	100	10	1	073-100159



Jacketed reaction vessel, cylindrical, with PTFE stopcock, flat flange
SCHARLAU

Capacity (ml)	Ø joint (mm)	Ø key bore (mm)	Thread	Pack (u.)	Art. No.
500	75	10	GL14	1	073-1610/4
500	100	10	GL18	1	073-1610/5
1000	75	10	GL14	1	073-1610/6
1000	100	10	GL18	1	073-161000
2000	100	10	GL18	1	073-162000
3000	100	10	GL18	1	073-1610/8
4000	100	10	GL18	1	073-1620/1
5000	100	10	GL18	1	073-165000

For further information, please contact scharlab@scharlab.com



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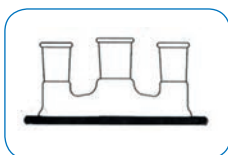
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REACTION VESSELS: Accessories for reaction vessels with flat flange

Reaction vessel lid with two necks, flat flange
SCHARLAU

Ø joint (mm)	Center neck	Side neck	Pack (u.)	Art. No.
75	14/23	14/23	1	0731T26001
75	29/32	14/23	1	0731T26002


Reaction vessel lid with three necks, flat flange
SCHARLAU

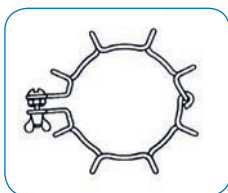
Ø joint (mm)	Center neck	Side neck	Pack (u.)	Art. No.
75	14/23	14/23	1	0731T36001
75	29/32	14/23	1	0731T36002


Reaction vessel lid with four necks, flat flange
SCHARLAU

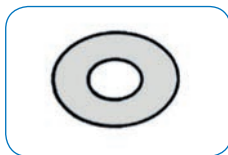
Ø joint (mm)	Center neck	Side neck angled	Side neck vertical	Pack (u.)	Art. No.
75	14/23	14/23	14/23	1	0731T46001
75	29/32	14/23	14/23	1	0731T46002
100	29/32	14/23	14/23	1	0731T41001
100	29/32	29/32	14/23	1	0731T41002
100	45/40	29/32	14/23	1	0731T41003


Reaction vessel lid with five necks, flat flange
SCHARLAU

Ø joint (mm)	Center neck	Side neck angled	Side neck vertical	Pack (u.)	Art. No.
100	29/32	14/23	14/23	1	0731T51001
100	29/32	29/32	14/23	1	0731T51002
100	45/40	29/32	14/23	1	0731T51003


Metalic clamp for flat flange, stainless steel

Material	For ND	Pack (u.)	Art. No.
Inox	75	1	073-000191
Inox	100	1	073-000192



PTFE or silicone seal, for flat flange joint

Material	For ND	Pack (u.)	Art. No.
PTFE	75	1	073-00PS75
PTFE	100	1	073-0PS100
Silicone	75	1	073-00SS75
Silicone	100	1	073-0SS100



Metalic clamp for flat flange, with two supports

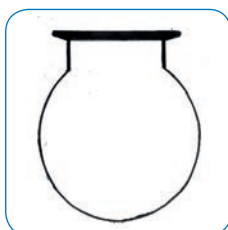
To be used with stand	Pack (u.)	Art. No.
9101001748	1	9101001747



Reactor stand, U shape, with two stand rods

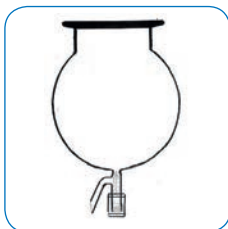
To be used with clamp	Pack (u.)	Art. No.
9101001747	1	9101001748

REACTION VESSELS: Reaction vessels with Schott type flat flange



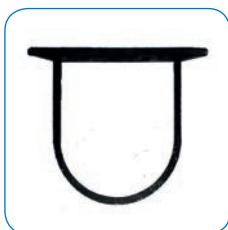
Reaction vessel, spherical, flat flange, Schott type SCHARLAU

Cap. (mL)	Ø joint (mm)	Pack (u.)	Art. No.
250	60	1	073-210293
500	60	1	073-210294
1000	60	1	073-210295
1000	100	1	073-210296
2000	100	1	073-210297
4000	100	1	073-210298
6000	100	1	073-210299
6000	150	1	073-210300
6000	200	1	073-210301
10000	100	1	073-210302
10000	150	1	073-210303
10000	200	1	073-210304
20000	100	1	073-210305
20000	150	1	073-210306
20000	200	1	073-210307



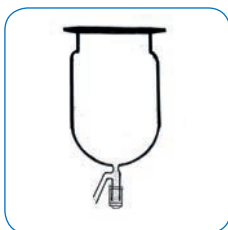
Reaction vessel, spherical, with PTFE stopcock, flat flange, Schott type
SCHARLAU

Cap. (mL)	Ø joint (mm)	Ø key bore (mm)	Pack (u.)	Art. No.
2000	100	10	1	073-210312
4000	100	10	1	073-210313
6000	100	10	1	073-210314
6000	150	10	1	073-210315
6000	200	10	1	073-210316
10000	100	20	1	073-210317
10000	150	20	1	073-210318
10000	200	20	1	073-210319
20000	100	20	1	073-210320
20000	150	20	1	073-210321
20000	200	20	1	073-210322



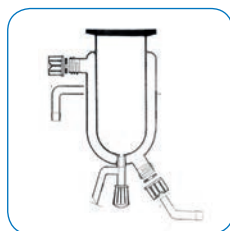
Reaction vessel, cylindrical, flat flange, Schott type
SCHARLAU

Cap. (mL)	Ø joint (mm)	Pack (u.)	Art. No.
500	60	1	073-210235
500	100	1	073-210236
1000	60	1	073-210237
1000	100	1	073-210238
2000	100	1	073-210239
2000	150	1	073-210240
3000	100	1	073-210241
3000	150	1	073-210242
4000	100	1	073-210243
4000	150	1	073-210244
5000	100	1	073-210245
5000	150	1	073-210246



Reaction vessel, cylindrical, with PTFE stopcock, flat flange, Schott type
SCHARLAU

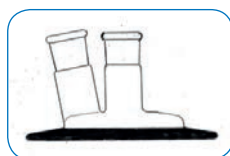
Cap. (mL)	Ø joint (mm)	Stopcock (mm)	Pack (u.)	Art. No.
2000	100	10	1	073-210259
2000	150	10	1	073-210260
3000	100	10	1	073-210261
3000	150	10	1	073-210262
4000	100	10	1	073-210263
4000	150	10	1	073-210264
5000	100	10	1	073-210265
5000	150	10	1	073-210266



Jacketed reaction vessel, cylindrical, with PTFE stopcock, flat flange, Schott type SCHARLAU

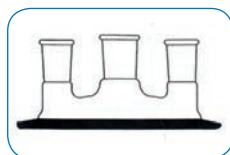
Cap. (mL)	Ø joint (mm)	Stopcock (mm)	Thread	Pack (u.)	Art. No.
2000	100	10	GL18	1	073-210278
2000	150	10	GL18	1	073-210279
3000	100	10	GL18	1	073-210280
3000	150	10	GL18	1	073-210281
4000	100	10	GL18	1	073-210282
4000	150	10	GL18	1	073-210283
5000	100	10	GL18	1	073-210284
5000	150	10	GL18	1	073-210285

REACTION VESSELS: Accessories for reaction vessels with Schott type flat flange



Reaction vessel lid with two necks, flat flange, Schott type SCHARLAU

Ø joint (mm)	Center neck	Side neck	Pack (u.)	Art. No.
60	14/23	14/23	1	0732T26001
60	29/32	14/23	1	0732T26002



Reaction vessel lid with three necks, flat flange, Schott type SCHARLAU

Ø joint (mm)	Center neck	Side neck	Pack (u.)	Art. No.
60	14/23	14/23	1	0732T36001
60	29/32	14/23	1	0732T36002



Reaction vessel lid with four necks, flat flange, Schott type SCHARLAU

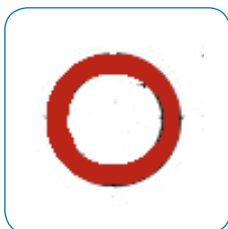
Ø joint (mm)	Center neck	Side neck angled	Side neck vertical	Pack (u.)	Art. No.
60	14/23	14/23	14/23	1	0732T46001
60	29/32	14/23	14/23	1	0732T46002
100	29/32	14/23	14/23	1	0732T41001
100	29/32	29/32	14/23	1	0732T41002
100	45/40	29/32	14/23	1	0732T41003
150	29/32	29/32	14/23	1	0732T41501
150	45/40	29/32	14/23	1	0732T41502
200	29/32	29/32	14/23	1	0732T42001
200	45/40	29/32	14/23	1	0732T42002


Reaction vessel lid with five necks, flat flange, Schott type SCHARLAU

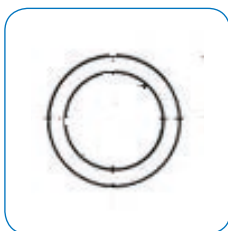
Ø joint (mm)	Center neck	Side neck angled	Side neck vertical	Pack (u.)	Art. No.
100	29/32	14/23	14/23	1	0732T51001
100	29/32	29/32	14/23	1	0732T51002
100	45/40	29/32	14/23	1	0732T51003
150	29/32	29/32	14/23	1	0732T51501
150	45/40	29/32	14/23	1	0732T51502
200	29/32	29/32	14/23	1	0732T52001
200	45/40	29/32	14/23	1	0732T52002


Quick release clamp for flat flange, Schott type, stainless steel

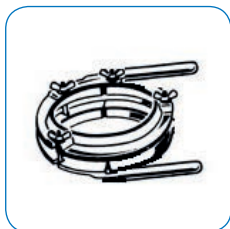
For ND	Pack (u.)	Art. No.
60	1	073-JAA060
100	1	073-JAA100
120	1	073-JAA120
150	1	073-JAA150
200	1	073-JAA200


FEP coated o-ring seal for flat flange

For ND	Ø x thickness (mm)	Pack (u.)	Art. No.
60	75 x 4	1	073-JTR060
100	110 x 4	1	073-JTR100
120	133 x 4	1	073-JTR120
150	157 x 4	1	073-JTR150
200	215 x 4	1	073-JTR200


Silicone o-ring seal for flat flange

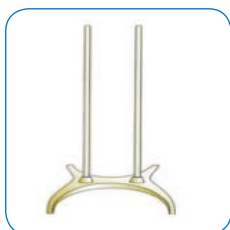
For ND	Ø x thickness (mm)	Pack (u.)	Art. No.
60	75 x 4	1	073-JTS060
100	110 x 4	1	073-JTS100
120	133 x 4	1	073-JTS120
150	157 x 4	1	073-JTS150
200	215 x 4	1	073-JTS200


Clamp for flat flange, Schott type, with two supports, stainless steel

For ND	Pack (u.)	Art. No.
60	1	073-AB0005
100	1	073-AB0006
120	1	073-AB0007
150	1	073-AB0008
200	1	073-AB0009

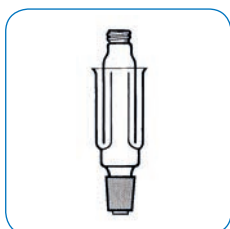

Metalic clamp for flat flange, Schott type, with bossheads

For ND	Pack (u.)	Art. No.
100	1	073-2AN100
150	1	073-2AN150


Reactor stand, U shape, with two stand rods

Description	Pack (u.)	Art. No.
Reactor stand, U shape, with two stand rods	1	073-SUP02R

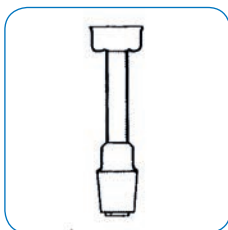
REACTION VESSELS: Stirrer bearings and shafts


Stirrer bearing, with screthead and ground glass cone
SCHARLAU

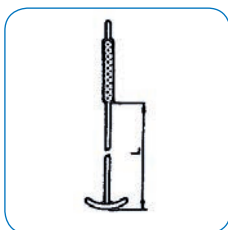
For stirrer shaft Ø (mm)	Cone	Thread	Pack (u.)	Art. No.
6	19/26	GL18	1	073-000407
6	29/32	GL18	1	073-000408
8	29/32	GL18	1	073-0409/1
10	29/32	GL25	1	073-000409
10	45/40	GL25	1	073-B03045
16	29/32	GL25	1	073-0409/2
16	45/40	GL25	1	073-B03645


Stirrer bearing, with stirrer guide and side olive
SCHARLAU

Ø shaft (mm)	Length (mm)	Socket	Cone	Pack (u.)	Art. No.
4	140	14/23	14/23	1	073-000397
6	200	19/26	19/26	1	073-000398
6	110	29/32	29/32	1	073-000399
8	100	29/32	29/32	1	073-0338/2
8	150	29/32	29/32	1	073-0338/3
8	200	29/32	29/32	1	073-0338/4
10	130	29/32	29/32	1	073-0338/5
10	200	29/32	29/32	1	073-000400
10	250	29/32	29/32	1	073-0338/7


Stirrer bearing, with KPG stirrer guide
SCHARLAU

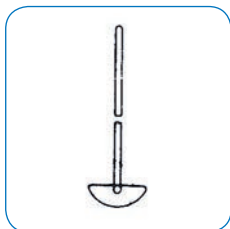
Cone	Ø shaft (mm)	Pack (u.)	Art. No.
19/26	10	1	073-000405
24/29	10	1	073-0405/1
29/32, bottom	10	1	073-0405/2
29/32	16	1	073-000406
45/40	16	1	073-0405/3


Stirrer shaft, with PTFE pivoting blade and polished shaft
SCHARLAU

Ø shaft (mm)	For ground joint	Pack (u.)	Art. No.
6	19/26	1	073-000395*
10	29/32	1	073-0395/1*
10	29/32	1	073-000396*
16	45/40	1	073-0395/2*

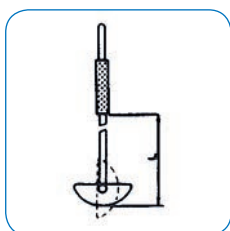
*Indicate stirring shaft length

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Stirrer shaft, with glass pivoting blade
SCHARLAU

Ø shaft (mm)	For ground joint	Length (mm)	Pack (u.)	Art. No.
10	19/26	600	1	073-000389
16	29/32	600	1	073-000390



Stirrer shaft, with anchor glass blade and polished shaft
SCHARLAU

Ø shaft (mm)	For ND (mm)	Pack (u.)	Art. No.
6	75	1	073-000393*
6	100	1	073-0389/1*
10	100	1	073-000394*
16	100	1	073-0389/2*

*Indicate stirring shaft length



Stirrer shaft, with anchor glass blade
SCHARLAU

Ø shaft (mm)	For ND (mm)	Length (mm)	Pack (u.)	Art. No.
6	75	450	1	073-000385
6	100	600	1	073-000386
10	100	600	1	073-000387
10	100	700	1	073-000388



Stirrer shaft, fixed glass paddle
SCHARLAU

Ø shaft (mm)	For vessel joint (mm)	Length (mm)	Pack (u.)	Art. No.
8	100 Ø	600	1	073-0344/0
8	100 Ø	700	1	073-0344/1

For further information, please contact scharlab@scharlab.com

SAMPLERS
Pharma scoops
BOCHEM

18/10 stainless steel. Seamless fixed handle, extremely high processing. With hanging loop. Qualified for food.



Length (mm)	Capacity (ml)	Pack (u.)	Art. No.
215	100	1	8835000BOC
230	200	1	8836000BOC
245	250	1	8837000BOC
350	500	1	8838000BOC

Pharmacy-scoops
BOCHEM

18/10 stainless steel. Handle soldered. 50 and 75mm diameter little or big.

Length (mm)	Pack (u.)	Art. No.
220	1	8830000BOC
280	1	8831000BOC

Weighing scoops
BOCHEM

Stainless steel 18/10. With knob.



Length (mm)	Pack (u.)	Art. No.
200	1	3600000BOC
220	1	3601000BOC
235	1	3602000BOC
250	1	3603000BOC

ChemoSampler
BÜRKLE

The ChemoSampler was developed for sampling aggressive liquids, e.g. acids, alkalis, detergents. The samples are drawn directly into the screw-on original sampling bottle. The tamperproof bottle closure with original safety ring ensures unadulterated sample transport.

- Grey polypropylene.
- Extension rod 100cm.
- Resistant to acids and alkalis.
- Includes sample bottle 1000ml.



Description	Length (mm)	Capacity (ml)	Material	Pack (u.)	Art. No.
ChemoSampler	1.000	1.000	PP	1	0005303940
Additionl bottle	-	1.000	Polystirene	1	03421000BU

Control seals
BÜRKLE

Control seal on a continuous roller for closing small holes, marking specific points or to repair long cracks quickly, reliably and easily. Available in the classic design or with a food compatible-adhesive. Effective on paper, cardboard, or other materials, sealing the broken container. It can be labelled with permanent ink, pencil or pen. 50m roller.



Description	Seal dim. HxW (mm)	Pack (u.)	Art. No.
Standard control seals	50x95	1	53030017BU
Standard control seals	50x150	1	53031017BU
Food control seals	50x95	1	53032019BU
Food control seals	50x150	1	53033019BU
Seals dispenser 95mm	-	1	53039000BU
Seals dispenser de 150mm	-	1	53039100BU

LiquiSamplers
BÜRKLE

LiquiSampler for liquids, according to DIN 53 242. Made of ultra pure and chemically inert PTFE/FEP or PP for contamination-free sampling. Sampling from open and closed containers, barrels, tanks, silos, water courses. All surfaces are free of pores and crevices, preventing accumulation of dirt. Only round screw threads proven in foodstuffs hygiene are used. Disassembly and cleaning are extremely simple. Practical one-handed use at the push of a button. Note: cleaning brush, see No. 5303884.



Description	Length (mm)	Capacity (ml)	Material	Pack (u.)	Art. No.
PTFE sampler for liquids	600	150	PTFE/FEP	1	0005303952
PTFE sampler for liquids	1.000	250	PTFE/FEP	1	0005303950
PTFE sampler for liquids	2.000	500	PTFE/FEP	1	0005303951
PP sampler for liquids	600	150	PP	1	53301060BU
PP sampler for liquids	1.000	250	PP	1	53301100BU
PP sampler for liquids	2.000	500	PP	1	53301200BU
Cleaning brush	-	-	-	1	53038840BU

For further information, please contact scharlab@scharlab.com

Mini ViscoSamplers BÜRKLE

Mini sampler made of stainless steel, for creams, pastes or oils. Ideal for use in pharmaceutical areas. Suction capacity 30 to 75ml. The unscrewable suction head can be fitted with suction drills of 2 to 6mm. Sterilisable.



Description	Length (mm)	Art. No.
Take mini samples	600	53411060BU
Take mini samples	1.000	53411100BU
Take mini samples	1.500	53411150BU
Suction head, 2mm	-	53411002BU
Suction head, 4mm	-	53411004BU
Suction head, 6mm	-	53411006BU

Samplers for bulk goods QuickPicker BÜRKLE

The QuickPicker is specially appropriate when bulk goods are withdrawn directly from sacks, bags or open containers. The sample is filled directly into the original sample bottles. Easy to handle and to clean. No edges or crevices, no residual sample material.

- Sampling depth 30cm, Ø 25mm.
- Made of stainless steel AISI 304 or PP.
- Sample bottles made of PELD, transparent.
- Removable point, easy to clean.
- Delivered complete with 2 sample bottles (PELD, 250ml) and cleaning brush.



Description	Ø int./length (mm)	Number of chambers	Pack (u.)	Art. No.
QuickPicker, stainless steel	25/300	1	1	53221300BU
QuickPicker, PP, transparent	> 25/300	1	1	53220300BU
Sample bottle, 250ml, PELD, width mouth	> 25/variable	1	1	03180250BU
Sample bottle, PP, 250ml	> 25/variable	1	1	03190250BU

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ViscoSamplers BÜRKLE

Made of transparent PP or ultra-pure and chemically inert PTFE / FEP for contamination-free sampling. Specially developed for viscous substances, e. g. slurries, silt, wet clay and soil samples, soil sediments, oils, emulsions, creams etc. All surfaces are poreless and without crevices to prevent dirt accumulation. Only those round threads tried and tested in food hygiene are employed. Disassembling and cleaning is very easy.
 Note: cleaning brush, see No. 5303884.

Description	Length (mm)	Capacity (ml)	Material	Pack (u.)	Art. No.
Take PTFE samples for highly viscous liquids or sediments, creams, emulsions or soil	600	160	PTFE/FEP	1	53312060BU
Take PTFE samples for highly viscous liquids or sediments, creams, emulsions or soil	1.000	300	PTFE/FEP	1	53312100BU
Take PTFE samples for highly viscous liquids or sediments, creams, emulsions or soil	2.000	650	PTFE/FEP	1	53312200BU
Take PP samples for highly viscous liquids or sediments, creams, emulsions or soil	600	160	PP	1	53311060BU
Take PP samples for highly viscous liquids or sediments, creams, emulsions or soil	1.000	300	PP	1	53311100BU
Take PP samples for highly viscous liquids or sediments, creams, emulsions or soil	2.000	650	PP	1	53311200BU
Cleaning brush	-	-	-	1	53038840BU

Zone-samplers BÜRKLE

Using the zone-sampler, very different kinds of bulk good scan be collected, from the finest powder all the way to large granules. The zone samplers are available in 3 lengths: 55cm for sacks, 85cm for barrels, drums and mixing containers, 150cm for bags, silos and tanks. Special lengths available on request. 3 types of zone samplers are available depending on size of sample:

- Multi-sampler: with several closed chambers for multi-target samples from several different sample depths. Smallest possible gap between internal and external tube. Easy cleaning, removable tip. Colour coding (multi and uno samplers).

Ultrapure materials: stainless steel 316 and PTFE.

It is advisable to use the emptying set for easier sampling.

- Uno-sampler: with one closed chamber for targeted samples from a specific sample depth.

- All-layer samplers and jumbo sampler: with open chambers for cross-section samples throughout all layers of sampling material. Emptying is easy via the open tube end of the sampler. The jumbo sampler has a 50mm tube Ø and is ideal for larger-sized granules.



Description	Ø int./length (mm)	Number of chambers	Volume (ml)	Pack (u.)	Art. No.
Multi-sampler, aluminium	25/850	3	17	1	53171085BU
Multi-sampler, V4A	25/850	3	17	1	53163085BU
Multi-sampler, V4A/PTFE	25/850	3	17	1	53038620BU
Uno-sampler, V4A/PTFE	25/850	1	17	1	53161085BU
All-layer sampler, aluminium	25/850	3	130	1	53172085BU
All-layer sampler, V4A	25/850	3	230	1	53162150BU
Jumbo-sampler aluminium	50/850	3	880	1	53191085BU
Jumbo-sampler aluminium	50/850	3	390	1	53192085BU

For further information, please contact scharlab@scharlab.com

Measuring scoops of polyethylene
VITLAB

High density polyethylene (PEHD). Natural colouring, industrial version. Suitable for contact with foodstuff in accordance with Regulation (EC) No. 10 / 2011.



Length (mm)	Capacity (ml)	Pack (u.)	Art. No.
115	15	1	309-040093
135	25	1	309-040193
185	65	1	309-040293
215	110	1	309-040393
250	150	1	309-040493
310	350	1	309-040593
350	750	1	309-040693
400	1.250	1	309-040793

Measuring scoops of polypropylene
VITLAB

Polypropylene. White, flat bottoms and tops, volume-marked on handle. Suitable for contact with foodstuff in accordance with Regulation (EC) No. 10/2011.



Length (mm)	Capacity (ml)	Pack (u.)	Art. No.
60	2	1	0005201052
82	5	1	0005423770
100	10	1	0005201055
135	25	1	309-039494
160	50	1	309-039594
200	100	1	309-039694
260	250	1	309-039794
315	500	1	309-039894
385	1.000	1	309-039994

Aluminium scoops
WILESCO

Aluminium.



Length (mm)	Pack (u.)	Art. No.
135	1	4279135WIL
185	1	4279185WIL
210	1	4279210WIL
250	1	4279250WIL
265	1	4279265WIL
310	1	4279310WIL
350	1	4279350WIL
400	1	4279400WIL
430	1	4279430WIL

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Scharlau ExtraBond[®] Solid Phase Extraction

ExtraBond[®] key features

- ✓ Phase type and batch no. printed on each cartridge
- ✓ Vacuum packed
- ✓ Perfect traceability
- ✓ Better preservation

ExtraBond[®] Line

- ✓ ExtraBond[®] Silica Based
- ✓ ExtraBond[®] Drug
- ✓ ExtraBond[®] PolyU
- ✓ ExtraBond[®] Flash
- ✓ ExtraBond[®] QuEChERS



SPE (SOLID PHASE EXTRACTION)

- ExtraBond® Silica Cartridges, *page 722*
- ExtraBond® PolyU Cartridges, *page 725*
- ExtraBond® Polymeric Cartridges, *page 726*
- Bulk adsorbents ExtraBond® Scharlau, *page 727*
- Accessories for SPE, *page 728*
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- Empore™ extraction disk cartridges, *page 732*
- Empore extraction plates, *page 732*

SPE: ExtraBond® Silica Cartridges



ExtraBond®. Solid Phase Extraction SCHARLAU

Solid Phase Extraction (SPE) has become the ideal method for sample preparation prior to analyses using HPLC, GC, TLC, RIA, NMR and other analytical techniques.

Scharlau ExtraBond® comprises a **wide range** of packing materials, silica gel as well as polymers of the **highest quality and purity** that provide **excellent and reproducible separation** as well as a **high recovery rate**. Each box of ExtraBond® comes with a **certificate of analysis**.

What makes ExtraBond unique?

- Each ExtraBond® cartridge has the phase type and batch number imprinted for greater traceability. It also helps to avoid confusion when handling cartridges of different phases.

- The ExtraBond® cartridges are supplied in practical vacuum bags to ensure maximum protection against moisture and thus better conservation. Moreover, the vacuum packing acts as a protector against possible phase detachments.

All these features allow maximum preservation and traceability

ExtraBond® is available in a wide range of formats: open cartridges ranging from 1 to 60ml, cartridges with large reservoir capacity (LRC) of 10 or 15ml, closed cartridges, glass cartridges, 96 and 48 well extraction plates and QuEChERS kits

→ *Continued on the next page*



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C18. Silica-based octadecyl. Nonpolar phase. SCHARLAU



Certificate of Analysis



Lot number on each cartridge



Vacuum packed



Closed cartridges

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
C18	50	1	60	50	100	C18050-01C
C18	100	1	60	50	100	C18100-01C
C18	200	3	60	50	50	C18200-03L
C18	500	3	60	50	50	C18500-03L
C18	500	6	60	50	30	C18500-06T
C18	500	10	60	50	50	C18500-10L
C18	1.000	6	60	50	30	C1801G-06T
C18	2.000	12	60	50	20	C1802G-12A
C18	5.000	20	60	50	20	C1805G-20A
C18	20.000	60	60	50	16	C1810G-60B
C18	300	-	125	50	50	C18300-00L
C18	500	-	125	50	50	C18500-00L
C18	1.000	-	125	50	50	C181000-0L

C8. Silica-based octyl. Nonpolar phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
C8	100	15	60	50	50	C8E100-15L
C8	200	15	60	50	50	C8E200-15L
C8	500	3	60	50	50	C8E500-03L

C2E. Silica-based acetate. Nonpolar phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
C2E	100	1	60	50	100	C2E100-01C
C2E	500	3	60	50	50	C2E500-03L

CHN. Silica-based cyclohexyl. Nonpolar phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
CHN	500	3	60	60	50	CHN500-03L

NH2. Silica-based aminopropyl. Polar phase / anion exchange. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
NH2	100	1	60	50	100	NH2100-01C
NH2	500	3	60	50	50	NH2500-03L
NH2	500	6	60	50	30	NH2500-06T
NH2	500	15	60	50	50	NH2500-15L
NH2	1.000	6	60	50	30	NH201G-06T

20H. Silica-based diol. Polar phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
20H	500	3	60	60	50	20H500-03L
20H	1.000	6	60	60	30	20H01G-06T

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

SIL. Silica. Polar phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
SIL	50	1	60	50	100	SIL050-01C
SIL	100	1	60	50	100	SIL100-01C
SIL	500	3	60	50	50	SIL500-03L
SIL	500	15	60	50	50	SIL500-15L
SIL	1.000	6	60	50	30	SIL01G-06T
SIL	2.000	12	60	50	20	SIL02G-12A
SIL	5.000	20	60	50	20	SIL05G-20A
SIL	300	-	125	50	50	SIL300-00L
SIL	500	-	125	50	50	SIL500-00L
SIL	1.000	-	125	50	50	SIL1000-0L

FL. Florisil. Polar phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
FL	500	3	-	200	50	FL0500-03L
FL	1.000	6	-	200	30	FL001G-06T
FL	2.000	12	-	200	20	FL002G-12A
FL	5.000	20	-	200	20	FL005G-20A

PRS. Silica-based propylsulfonic acid. Cation exchange phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
PRS	500	3	60	50	50	PRS500-03L
PRS	500	10	60	50	50	PRS500-10L
PRS	1.000	6	60	50	50	PRS01G-06L

SCX. Silica-based benzenesulfonic acid. Cation exchange phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
SCX	500	3	60	60	50	SCX500-03L
SCX	1.000	6	60	60	30	SCX01G-06T
SCX	5.000	20	60	60	20	SCX05G-20A
SCX	2.000	12	60	60	20	SCX02G-12A

DEA. Silica-based diethylaminopropyl. Anion exchange phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
DEA	100	15	60	60	50	DEA100-15L

SAX. Silica-based trimethyl aminopropyl. Anion exchange phase. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
SAX	100	1	60	60	100	SAX100-01C
SAX	500	3	60	60	50	SAX500-03L
SAX	500	6	60	60	30	SAX500-06T
SAX	1.000	6	60	60	30	SAX01G-06T

PCB. Silica and silica-based benzenesulfonic acid. Polar phase / cation exchange. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
PCB	1.000	6	60	-	50	PCB01G-06L
PCB	1.000	3	60	-	50	PCB01G-03L

ALB. Basic aluminum oxide. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
ALB	200	3	60	50	50	ALB200-03L

→ Continued on the next page

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Drug. Mixed phase nonpolar / silica-based cation exchange. SCHARLAU. Designed for the extraction of drugs of abuse with greater reproducibility and efficiency. Its advantages are spectacular when used with sensitive detectors such as MS

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
Drug	130	10	60	50	50	DRG130-10L
Drug	200	3	60	50	50	DRG200-03L
Drug	300	10	60	50	50	DRG300-10L
Drug	500	6	60	50	30	DRG500-06T

SA82. Octyl mixed phase and silica-based TMA acetate. Nonpolar phase / anion exchange. SCHARLAU

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
SA82	200	10	60	50	50	SA2200-10L
SA82	500	6	60	50	30	SA2500-06T

SPE: ExtraBond® PolyU Cartridges



ExtraBond® PolyU Cartridges SCHARLAU

The ExtraBond® PolyU Scharlau cartridges are ultraclean and universal polymeric cartridges. It is the latest generation ultraclean polymer with a mixed performance hydrophilic/hydrophobic which provides its wide applicability. It is available in 5 different polarities due to modifications. With a surface area of 850m²/g, it is available in 30 and 60µm and in all formats of cartridges and plates. Below are the most common formats. Please contact scharlab@scharlab.com if you don't find a format or to request free samples. Also contact us for any query about applications or extraction method.

UU. Hydrophilic / hydrophobic polymer phase. Ultrapure, high capacity. Ideal for both basic and acidic analytes, polar and nonpolar.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
UU	30	1	100	30	50	UU3030-01L
UU	60	3	100	30	50	UU3060-03L
UU	200	6	100	30	30	UU3200-06T
UU	60	3	100	60	50	UU6060-03L
UU	200	6	100	60	30	UU6200-06T
UU	500	6	100	60	30	UU6500-06T

CS. Hydrophilic / hydrophobic modified polymer phase with strong cation exchange SCX. It acts as a dual stage. Ideal for extraction of basic compounds (cationic) from biofluids and environmental samples.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
CS	30	1	100	30	50	CS3030-01L
CS	60	3	100	30	50	CS3060-03L
CS	200	6	100	30	30	CS3200-06T
CS	60	3	100	60	50	CS6060-03L
CS	200	6	100	60	30	CS6200-06T
CS	500	6	100	60	30	CS6500-06T

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

AS. Hydrophilic / hydrophobic polymer modified phase with strong anion exchange SAX. It acts as a dual stage. Demonstrates great sensitivity and selectivity for acidic compounds.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
AS	30	1	100	30	50	AS3030-01L
AS	60	3	100	30	50	AS3060-03L
AS	200	6	100	30	30	AS3200-06T
AS	60	3	100	60	50	AS6060-03L
AS	200	6	100	60	30	AS6200-06T
AS	500	6	100	60	30	AS6500-06T

CW. Hydrophilic / hydrophobic polymer modified phase with weak cation exchange WCX. Suitable for the extraction of very basic compounds from biofluids, particularly strong bases and quaternary amines.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
CW	30	1	100	30	50	CW3030-01L
CW	60	3	100	30	50	CW3060-03L
CW	200	6	100	30	30	CW3200-06T
CW	60	3	100	60	50	CW6060-03L
CW	200	6	100	60	30	CW6200-06T
CW	500	6	100	60	30	CW6500-06T

AW. Hydrophilic / hydrophobic modified polymer phase with weak anion exchange WAX. For the extraction of highly acidic compounds (anionic) from biofluids.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
AW	30	1	100	30	50	AW3030-01L
AW	60	3	100	30	50	AW3060-03L
AW	200	6	100	30	30	AW3200-06T
AW	60	3	100	60	50	AW6060-03L
AW	200	6	100	60	30	AW6200-06T
AW	500	6	100	60	30	AW6500-06T

SPE: ExtraBond® Polymeric Cartridges



ExtraBond® Polymeric Cartridges SCHARLAU

Cartridges from the latest generation ExtraBond® Polymeric line are based on the ExtraBond® EB phase. This sorbent is a spherical divinylbenzene polystyrene modified with pyrrolidone. It has more capacity and surface area than silica-based packings with high recovery and extraction rates. It is a material that provides a balance between hydrophilic and hydrophobic properties and can be used in a pH range of 1 to 14. The ExtraBond® Polymeric range consists of 4 types of packing materials with differing polarities due to modifications.

EBH. Polymer phase nonpolar, styrenedivinylbenzene-based. Universal for all types of analytes, acidic, basic and neutral although it was designed for weak basic analytes.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
EBH	30	1	70	50	100	EBH030-01C
EBH	60	3	70	50	50	EBH060-03L
EBH	200	6	70	50	30	EBH200-06T
EBH	500	6	70	50	30	EBH500-06T

→ Continued on the next page

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EB2. Polymer phase nonpolar, styrenedivinylbenzene-based modified with urea. It is used for most analytes, even for highly polar and hydrophilic compounds. It is excellent for acidic, basic and neutral compounds but it is dramatically superior for acidic compounds.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
EB2	30	1	70	90	100	EB2030-01C
EB2	60	3	70	90	50	EB2060-03L
EB2	200	6	70	90	30	EB2200-06T
EB2	500	6	70	90	30	EB2500-06T

ECX. Cation exchange polymer phase, styrenedivinylbenzene-based. It acts as a dual phase: reversed-phase and cation exchanger.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
ECX	30	1	70	55	100	ECX030-01C
ECX	60	3	70	55	50	ECX060-03L
ECX	200	6	70	55	30	ECX200-06T
ECX	500	6	70	55	30	ECX500-06T

EAX. Anion exchange polymer phase, styrenedivinylbenzene-based. It acts as a dual phase: reversed-phase and anion exchanger.

Phase	Amount (mg)	Volume (ml)	Porus (Å)	Particle (µm)	Pack (u.)	Art. No.
EAX	30	1	70	55	100	EAX030-01C
EAX	60	3	70	55	50	EAX060-03L
EAX	200	6	70	55	30	EAX200-06T
EAX	500	6	70	55	30	EAX500-06T

SPE: Bulk adsorbents ExtraBond®



Bulk adsorbents ExtraBond® SCHARLAU

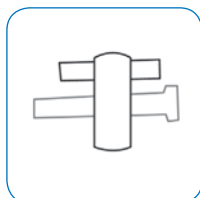
ExtraBond® phases are available in bulk so you can prepare your own cartridges, or, for extraction of solid samples by putting the packing directly in contact with the sample. Other phases are available and also larger quantities. Please contact scharlab@scharlab.com.

Phase	Description	Porus (Å)	Pack (g)	Art. No.
C18	Octadecyl	60	100	000C18100G
NH2	Aminopropyl	60	100	000NH2100G
AL-N	Aluminium oxide neutral	60	100	000ALN100G
FL	Florisil	60	100	000FLO100G
PSA	Ethylendiamine-N-propyl	60	100	000PSA100G
GCB	Graphitized carbon	–	100	CA03530100
C18	Octadecyl	60	1.000	00C181000G
NH2	Aminopropyl	60	1.000	00NH21000G
AL-N	Aluminium oxide neutral	60	1.000	00ALN1000G
FL	Florisil	60	1.000	00FLO1000G
PSA	Ethylendiamine-N-propyl	60	1.000	00PSA1000G
GCB	Graphitized carbon	–	1.000	CA03531000

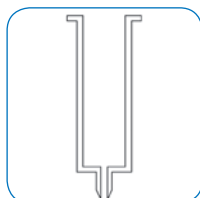
For further information, please contact scharlab@scharlab.com

SPE: Accessories for SPE

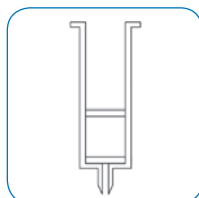
Accessories for SPE cartridges SCHARLAU



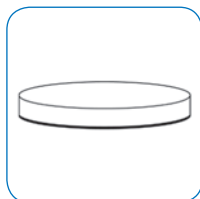
PP keys



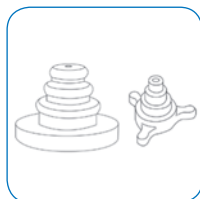
Empty container



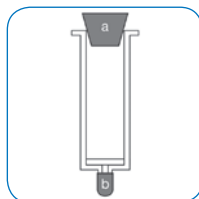
Container with two frits



Frit



Top adapters



Upper cap (a) and luer tip cap (b)

Description	Pack (u.)	Art. No.
PP keys for ExtraVac	12	STOPCOCKVA
Container 1ml	100	EMPTY0-01C
Container 3ml	100	EMPTY0-03C
Container 6ml	100	EMPTY0-06C
Container 12ml	100	EMPTY0-12C
Container 20ml	100	EMPTY0-20C
Container 60ml	100	EMPTY0-60C
Container 1ml with 2 frits 20µm PE	100	EMP2FR-01C
Container 3ml with 2 frits 20µm PE	100	EMP2FR-03C
Container 6ml with 2 frits 20µm PE	100	EMP2FR-06C
Container 12ml with 2 frits 20µm PE	100	EMP2FR-12C
Container 20ml with 2 frits 20µm PE	100	EMP2FR-20C
Container 60ml with 2 frits 20µm PE	100	EMP2FR-60C
Frit 20µm PE 1ml	100	FRITPE-01C
Frit 20µm PE 3ml	100	FRITPE-03C
Frit 20µm PE 6ml	100	FRITPE-06C
Frit 20µm PE 12ml	100	FRITPE-12C
Frit 20µm PE 20ml	100	FRITPE-20C
Frit 20µm PE 60ml	50	FRITPE-60L
Top adapter for 1,3 and 6ml cartridges	15	ADAPTS00-E
Top adapter for 10, 12, 20 and 60ml cartridges	6	ADAPTL00-S
Luer tip cap	100	CAPLUERO-C
Upper cap 1ml	100	CAPTOP-01C
Upper cap 3ml	100	CAPTOP-03C
Upper cap 6ml	100	CAPTOP-06C
Upper cap 12ml	100	CAPTOP-12C
Upper cap 20ml	100	CAPTOP-20C
Upper cap 60ml	50	CAPTOP-60L
PTFE tube 3,2mm (1/8) ED x 1,50mm ID	10	08T3215010

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SPE: ExtraVac® Vacuum manifolds

**ExtraVac® Vacuum manifolds
SCHARLAU**

We recommend using pressure equipment (positive or negative) taking care not to allow the solvents to “fall” by gravity for maximum reproducibility. There are several ways of carrying out solid phase extraction using ExtraBond®.

- For a small number of samples use a syringe and an adapter to “push” the solvents through the column by positive pressure using the adapters that are listed on this page. See Figure 1. See the adapters listed above in section ExtraBond accessories.
- Or, you can use the negative pressure provided by a vacuum source. See Figure 2
- When the number of samples is high and you want to achieve better reproducibility more rapidly, vacuum manifolds are the best choice. See Figure 3.

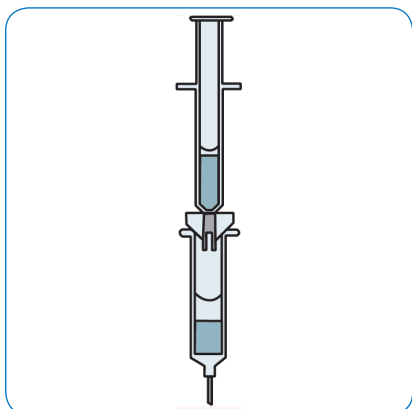


Figure 1

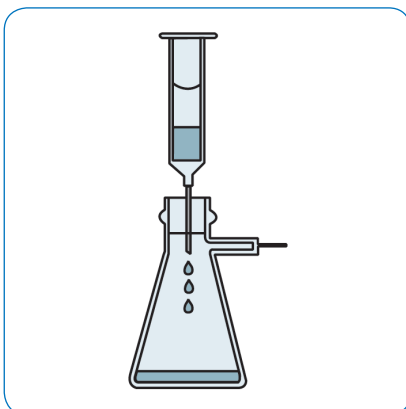


Figure 2

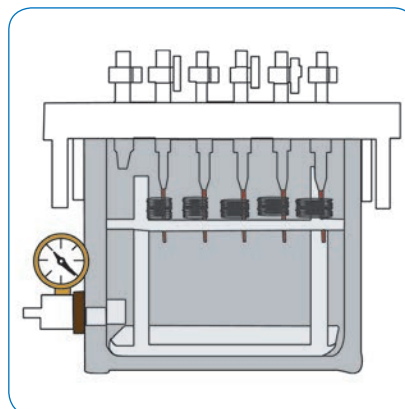


Figure 3

Description	Pack (u.)	Art. No.
Scharlau ExtraVac vacuum manifolds 12 complete, 12 positions	1	EXTRAVAC12
Scharlau ExtraVac vacuum manifolds 20 complete, 20 positions	1	EXTRAVAC20
KNF vacuum pump mod. N820FT.18 (20L/min, 100mbar Ultimate vacuum, chemical resistant)	1	00N820FT18
Vacuum trap 500ml	1	0115530058
Vacuum tube, latex 10mm IDx20mm ED	10m	288-430.11

For further information, please contact scharlab@scharlab.com

SPE (SOLID PHASE EXTRACTION)

ExtraBond® QuEChERS

Extraction and dispersive kits according to the European (EN 15662) and American (AOAC 2007.01) methods, as well as Scharlau’s variant of the European method, EN-A

Scharlau
The wise choice



SPE: ExtraBond® QuEChERS



QuEChERS is a multi-residue extraction method for fruits and vegetables that combines two stages.

- Extraction stage: the sample is extracted using Acetonitrile and various salts.
- Dispersive Solid Phase Extraction (SPE) stage: the clean-up of an aliquot of the extract from the first stage is carried out. For this clean-up stage PSA (SPE sorbent) and Magnesium Sulphate are used.

Since the launch of QuEChERS in 2003¹ many variants of this method have been developed and employed according to the matrix and the pesticide residues to be determined. This method is approved by the European and American Food Regulatory Agencies².

Despite being originally developed for the extraction of pesticides in fruits and vegetables, today QuEChERS is also being used to extract many compounds from a wide variety of matrices including milk, meat, fish, kidney, honey, wine and soils.

¹ Fast and Easy Multiresidue Method Employing Acetonitrile Extraction/Partitioning and "Dispersive SPE" for the Determination of Pesticide Residues in Produce M. Anastassiades, S.J. Lehotay, D. Štajnbaher, F.J. Schenck, J. AOAC Int., 86 (2) 412-431, 2003.
² EU Document No. SANCO/10476/2003, 5th February 2004 and method pREN 15662: 2007.

Extraction kits

For the extraction stage, Scharlab employs mainly sachets for maximum convenience and ease-of-use, although tubes are also available. The content of the sachet is easily poured into a 50ml tube at the appropriate time, after adding the acetonitrile to the sample. In this way the possible exothermic reaction is avoided and greater recoveries obtained.

Description	Units	Method	Pack (u.)	Art. No.
ExtraBond® QuEChERS Extraction kit EN 1g sodium citrate, 0,5g sodium hydrogencitrate ses., 4g MgSO ₄ , 1g NaCl	50/pk	EN15662	Sachets	QUEXTENAK1
ExtraBond® QuEChERS Extraction kit AOAC 6g MgSO ₄ , 1,5g sodium acetate	50/pk	AOAC 2007.01	Sachets	QUESTAOK1
ExtraBond® QuEChERS Extraction kit for acrylamides 4g MgSO ₄ , 0,5g NaCl	50/pk	–	Sachets	QUESTCRK1
ExtraBond® QuEChERS Extraction kit Original 10g 4g MgSO ₄ , 1g NaCl	50/pk	Original 10	Sachets	QUESTORAK1

Dispersive kits

For the solid-phase dispersion stage, all tubes from ExtraBond® QuEChERS kits have the product code and batch number imprinted on them for maximum traceability. When working with Scharlab's variant EN-A, use kit QUDISENAK2 for general analysis and switch to kit QUDISENCK2 in case of fatty/waxy fruits and vegetables such as avocado, almonds and olives.

General fruits and vegetables

Description	Method	Units	Pack (u.)	Art. No.
ExtraBond® QuEChERS Dispersive kit EN-A for general fruits and vegetables 100mg PSA, 600mg MgSO ₄	Variation EN-A	50/pk	15ml tubes	QUDISENAK2
ExtraBond® QuEChERS Dispersive kit EN for general fruits and vegetables 150mg PSA, 900mg MgSO ₄	EN 15662	50/pk	15ml tubes	QUDISENCK2
ExtraBond® QuEChERS Dispersive Kit AOAC for general fruits and vegetables 400mg PSA, 1200mg MgSO ₄	AOAC 2007.01	50/pk	15ml tubes	QUDISAONK2

Fruits and vegetables with fats and waxes

Description	Method	Units	Pack (u.)	Art. No.
ExtraBond® QuEChERS Dispersive kit EN-A for fruits and vegetables with fats and waxes 100mg PSA, 600mg MgSO ₄ , 100mg C18	Variation EN-A	50/pk	15ml tubes	QUDISENCK2
ExtraBond® QuEChERS Dispersive kit EN for fruits and vegetables with fats and waxes 150mg PSA, 900mg MgSO ₄ , 150mg C18	EN 15662	50/pk	15ml tubes	QUDISENFK2
ExtraBond® QuEChERS Dispersive kit AOAC for fruits and vegetables with fats and waxes 400mg PSA, 1200mg MgSO ₄ , 400mg C18	AOAC 2007.01	50/pk	15ml tubes	QUDISAOFK2

Pigmented fruits and vegetables

Description	Method	Units	Pack (u.)	Art. No.
ExtraBond® QuEChERS Dispersive kit EN for pigmented fruits and vegetables 150mg PSA, 885mg MgSO ₄ , 15mg GCB	EN 15662	50/pk	15ml tubes	QUDISENPK2
ExtraBond® QuEChERS Dispersive kit AOAC for pigmented fruits and vegetables 400mg PSA, 1200mg MgSO ₄ , 400mg GCB	AOAC 2007.01	50/pk	15ml tubes	QUDISAOPK2

→ Continued on the next page

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Highly pigmented fruits and vegetables

Description	Pack (u.)	Units	Method	Art. No.
ExtraBond® QuEChERS Dispersive kit EN for highly pigmented fruits and vegetables 150mg PSA, 855mg MgSO ₄ , 45mg GCB	15ml tubes	50/pk	EN 15662	QUDISENHK2

Pigmented fruits and vegetables with fats

Description	Pack (u.)	Units	Method	Art. No.
ExtraBond® QuEChERS Dispersive kit AOAC for pigmented fruits and vegetables with fats 400mg PSA, 1200mg MgSO ₄ , 400mg C18, 400mg GCB	15ml tubes	50/pk	AOAC 2007.01	QUDISAOXK2

SPE: Empore™ extraction disks

3M

The basis of Empore™ technology is the ability to create a PTFE membrane which in between its fibers it can retain both modified silica gel particles as well as polymer phases. Phase particles are held in the inert PTFE fibril network (phase 90%: 10% by weight PTFE). The PTFE fibrils do not interfere with the activity of the particles in any way. The manufacturing process of the Empore™ membrane results in a denser and a more uniform extraction than that obtained with the same type of packing phase in a conventional extraction cartridge. The dense packing of particles offers uniform distribution and a significant improvement in efficiency and reproducibility. Diffusion distance between particles is minimized, reducing or eliminating the effects of "channeling" and the adsorption efficiency is maximized contributing to maximum extraction efficiency. The surface of each particle is free, interacting maximally during separation. It does not contain any ligands so no problems are posed by extractables.

The Empore™ disc technology is available in three different configurations:

- Empore discs™ 47mm and 90mm in diameter for environmental applications.
- Empore™ disc cartridge of 4mm /1ml, 7mm /3ml, 10mm/6ml and 20mm/40ml for extremely small volumes.
- 96-well extraction plates with Empore™ discs for preparing samples prior to LC/MS and other high performance applications.



Empore™ extraction disks 3M

Empore™ extraction disks are useful in environmental applications since they allow the extraction of different types of substances with large aqueous volumes.

- With **discs C18 and C8** nonpolar extractions may be performed. Pesticides of various types are extracted with these disks using the EPA (Environmental Protection Agency) methods
- **Anion disks** are recommended for the extraction of negatively charged ions as analytes with carboxylic acid groups
- **Cation disks** are of a styrene divinylbenzene modified with sulfonic acid groups. They have special selectivity for cationic analytes as primary, secondary and tertiary amines
- **Carbon disks** are designed for extraction of volatile compounds, very polar and water soluble, of aqueous solutions
- **Chelation disks** provide a way of selectively removing multivalent metal cations from solutions
- **Oil & Grease disks** are specially designed for EPA Method 1664 for extraction of oils and fats in water. C18 particles are incorporated in a hydrophobic matrix

- **SDB-XC disks** are made of styrene-divinylbenzene copolymer for reverse phase extractions, particularly suitable for analytes of moderate polarity. It doesn't exhibit typical secondary interactions of free silanols nor common pH limitations to silica sorbents therefore provides a more reproducible and predictable reversed-phase interaction

- **SDB-PRS disks** are also made of styrene-divinylbenzene copolymer but have been modified with sulfonic acid to impart hydrophilicity. The sulfonation offers a unique selectivity for polar organic analytes such as drugs, drug metabolites, water-soluble pesticides and pesticide metabolites

- **Radium RAD, Strontium RAD and Technetium RAD** disks provide an efficient alternative to conventional methods of radiochemical sample preparation which use wet chemistry or packed columns

Phase	Ø (mm)	Pack (u.)	Art. No.
C18	47	60	8060402173
C18	90	30	8060402181
C8	47	60	8060402140
C8	90	30	8060402157
Anion	90	30	8060402306
Anion	47	60	8060402298
Cation	47	60	8060402322
Carbon	47	60	8060402355
Carbon	90	30	8060402363
Chelating	47	60	8060402389
Oil & Grease	90	30	8040500633
Oil & Grease	47	60	8040500625
SDB-RPS	90	30	8060402272
SDB-RPS	47	60	8060402264
SDB-XC	47	60	8060402231
SDB-XC	90	30	8060402249
Radium	47	60	8040500658
Strontium	47	60	8040500641
Technetium Extra	47	60	8040500666



Manifold assembly for Empore™ disks

3M

Empore™ extraction manifold connected with a vacuum source allow the extraction of 6 samples at the same time. A bypass valve regulates each position individually. The manifold includes a number of glass parts as the picture shows, specially designed to accommodate the Empore™ extraction disk.

All the contact surfaces are made of glass, PTFE or Kel-FTM, minimizing the possibility of the contamination of the sample. The manifold is made of stainless steel and corrosion resistant.

Description	Pack (u.)	Art. No.
Manifold of 6 positions for disks 47mm Ø	1	01214-6001
Manifold of 3 positions for disks 47mm Ø	1	01214-6021
Manifold of 1 positions for disks 47mm Ø	1	01214-6023
Vacuum pump N035AT. 18 27l/min, 100mbar	1	00N035AT18

SPE: Empore™ extraction disk cartridges



Empore™ extraction disk cartridges

3M

Cartridges with the Empore™ disk are particularly suitable for handling small sample volumes such as samples found in clinical and pharmaceutical laboratories. Thanks to its high efficiency, it requires less quantity of the phase for a given extraction. This allows the analyst to use small volumes of sample and elution and maximizes the final concentration of the eluent.

Each phase exhibits unique properties of retention and selectivity for a particular analyte. Cartridges with disk of standard density (SD) are of 55µm and are designed for complex matrices. The disk cartridge with high density (HD) are of 12µm and are available for applications in which optimum efficiency is required.

Phase	Ø (mm)	Volume (ml)	Pack (u.)	Art. No.
C8-HD	4	1	300	8060401886
C8-SD	4	1	300	8060401910
C18-SD	4	1	300	8060401977
C8-SD	7	3	150	8060401928
C18-SD	7	3	150	8060401985
UR-SD	7	3	150	8050301534
C18-SD	10	6	90	8060401993
SDB-XC	10	6	90	8060402033

SPE: Empore extraction plates



Empore extraction plates

3M

Extraction plates with Empore™ disk are ideal as sample preparation technique prior to LC/MS/MS and other high performance applications.

Filter Plate is recommended for filtration and precipitation of proteins and other particles.

Empore™ Deep Well extraction plates are used for applications where large volumes of sample must be processed. To avoid having to add successive aliquots saves processing time.

C8 plates are recommended for moderately non-polar analytes.

C18 plates are used for highly non-polar analytes

For moderately non-polar analytes and ionized MPC (Mixed Phase Cation) are used

UR (Universal Resin) is designed for hydrophilic (acidic or basic) and moderately hydrophobic analytes.

Filter plates

Phase	Volume (ml)	Pack (u.)	Art. No.
96 Well Small Volume	1,2	12	I100010427
96 Deep Well Large Volume	2,5	12	0200739889

→ Continued on the next page

Extraction disk plates

Phase	Volume (ml)	Pack (u.)	Art. No.
C8 96 Well Extraction	1,2	12	0200739814
C18 96 Well Extraction	1,2	12	0200739822
MPC-SD 96 Well Extraction	1,2	12	0200739830
UR 96 Well Extraction	1,2	12	8040500757
C8 96 Deep Well Extraction	2,5	12	0200739863
C18 96 Deep Well Extraction	2,5	12	0200739871
MPC-SD 96 Deep Well Extraction	2,5	12	0200739806
UR 96 Deep Well Extraction	2,5	12	8040500773

Manifold for Empore™ plates

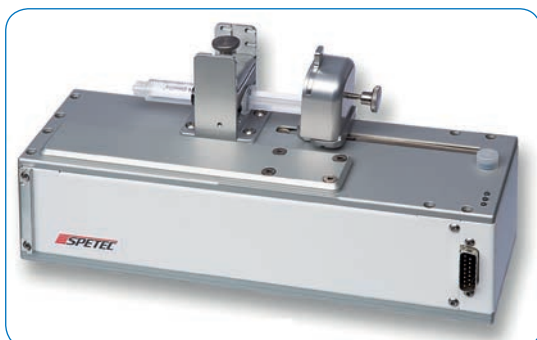


Description	Pack (u.)	Art. No.
Empore™ vacuum manifold	1	8060404690
Replacement gasket for Empore™ manifold stations	30	8060404682

SYRINGES

- Syringe pumps, *page 733*
- Syringes and sterile needles, *page 734*
- Syringes for chromatography, *page 736*

SYRINGES: Syringe pumps



Symax syringe pumps SPETEC

The Spetec Syringe Pump is used to meter fluids in micro or nano litre quantities. The main elements are the stepper motor drive without wear components such as a clutch or gearbox, precision carriage, syringe holder set and replaceable syringes. Due to the high resolution of 25600 steps per rotation, individual steps are hardly noticeable. Both disposable and non-metallic precision syringes with any syringe volumes can be used. The smallest delivery volume per individual step is 4 picoliters for standard syringes. The maximum feed rate is approx. 0,75ml/s.

Up to 6 modules can be connected serially. The standard connection is mini USB and the pump is controlled by PC with software included.

Technical data:

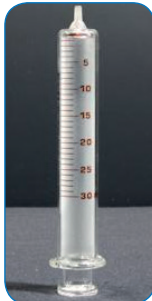
- Temperature range: +10 to 40°C
- Humidity: 20% up to 80% non condensing
- Data communication: RS 485/USB
- Dimensions (WxHxD) (without syringe holder): 270x95x85mm
- Weight (without syringe holder): 2100g

Each syringe pump includes a 50ml syringe holder, CD software, wires and the user guide.

Description	Pack (u.)	Art. No.
Symax syringe pumps of 2 syringe	1	00010-0102

SYRINGES: Sterile syringes and needles
Glass syringes
NORMAX

Made of neutral glass. Sterilized.



Glass cone



Luer lock cone



Metallic cone

Glass cone

Description	Pack (u.)	Art. No.
Glass syringes 1ml	1	3016000000
Glass syringes 2ml	1	3016000001
Glass syringes 3ml	1	3016000002
Glass syringes 5ml	1	3016000003
Glass syringes 10ml	1	3016000004
Glass syringes 20ml	1	3016000005
Glass syringes 30ml (Not suitable for medical)	1	3016000008
Glass syringes 50ml (Not suitable for medical)	1	3016000006
Glass syringes 100ml (Not suitable for medical)	1	3016000007

Luer lock cone

Description	Pack (u.)	Art. No.
Glass syringes 1ml	1	3016030000
Glass syringes 2ml	1	3016030001
Glass syringes 3ml	1	3016030002
Glass syringes 5ml	1	3016030003
Glass syringes 10ml	1	3016030004
Glass syringes 20ml	1	3016030005
Glass syringes 30ml (Not suitable for medical)	1	3016030008
Glass syringes 50ml (Not suitable for medical)	1	3016030006
Glass syringes 100ml (Not suitable for medical)	1	3016030007

Metallic cone

Description	Pack (u.)	Art. No.
Glass Syringes 1ml	1	3016040000
Glass Syringes 2ml	1	3016040001
Glass Syringes 3ml	1	3016040002
Glass Syringes 5ml	1	3016040003
Glass Syringes 10ml	1	3016040004
Glass Syringes 20ml	1	3016040005
Glass Syringes 30ml (Not suitable for medical)	1	3016040008
Glass Syringes 50ml (Not suitable for medical)	1	3016040006
Glass Syringes 100ml (Not suitable for medical)	1	3016040007

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Sterile plastic syringes 2 pieces

Made of polypropylene/polyethylene. 2 pieces.
 Green plunger and very clear barrel.
 High contrast black graduation.
 Latex and silicone free.
 Without needle

Type	Volume (ml)	Pack (u.)	Art. No.
Luer syringe, central	2	100	004606027V
Luer syringe, eccentric	5	100	004606051V
Luer syringe, eccentric	10	100	004606108V
Luer syringe, eccentric	20	100	004606205V
Luer Lock syringe, central	2	100	004606701V
Luer Lock syringe, central	5	100	004606710V
Luer Lock syringe, central	10	100	004606728V
Luer Lock syringe, central	20	100	004606736V

Sterile plastic syringes of 3 pieces with needle

Single use latex free syringe for insulin or tuberculin administration.
 Halogenating substance free product. Product is presented on individual blisters.

Type	Volume (ml)	Pack (u.)	Art. No.
Insulin syringe 100 UI, needle: 0,5x16	1	100	140-014080
Tuberculin syringe, needle: 0,5x16	1	100	140-014085



Sterile plastic syringes 3 pieces without needle

Three barrel syringe, sterile, without needle, single use, for injectable solution applications and blood extraction.

Type	Volume (ml)	Pack (u.)	Art. No.
Tuberculin syringe	1	400	140-014360
Luer syringe, central	2	340	140-015649
Luer syringe, central	5	100	140-015651
Luer syringe, eccentric	10	100	140-015656
Luer syringe, central	10	100	140-015652
Luer syringe, eccentric	20	100	140-015659
Luer syringe, eccentric	20	1	0012HL0020
Luer syringe, eccentric	50	30	140-015671
Luer syringe, eccentric	50	1	0012HL0050
Luer lock syringe, central	50	30	140-015675
Luer lock syringe, central	50	1	0012HC0050
Feeding Syringe (for catheter)	50	30	140-015679
Feeding Syringe (for catheter)	50	1	0012HA0050



Sterile needles

Designed to administer injections and for the extraction of body fluids.

Description	Pack (u.)	Art. No.
Luer needle 0,40x12 G27	100	140-016101
Luer needle 0,50x16 G25	100	140-016102
Luer needle 0,60x25 G23	100	140-016104
Luer needle 0,70x30 G22	100	140-016106
Luer needle 0,8x25 G21	100	140-016200
Luer needle 0,80x40 G21	100	140-016125
Luer needle 0,90x40 G20	100	140-016128
Luer needle 0,90x25 G20	100	140-016206
Luer needle 1,1x25 G19	100	140-016212
Luer needle 1,1x40 G19	100	140-016131
Disposable spinal needle 1,2x90	25	0012IL9012

SYRINGES: Syringes for chromatography

Fixed needle "F"

Economical / 1 syringe - one method, <70°C



Replaceable needle "R"

Simple replacement of the needle / 1 syringe - various methods, <120°C



Luer lock "LL"



Luer Tip "LT"

Luer lock / Syringe Filters / Pump expulsion



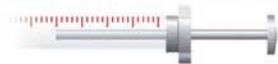
Émbolo en aguja "B"

Sample contained only in the needle
<1µl (capillary columns) / Dispensation of very low volumes



Barrel plunger

> 1µl



Plunger protection

Guide plunger protector



Plunger Guide

Extendable barrel - Plunger guide for injector
Novice users / various users



PTFE terminal (Gas Tight)

PTFE
Dirty samples / Easy to clean / Gas or "headspace"



Flexible plunger Superflex™

Indestructible plunger / Ti / Ni



To choose the most appropriate syringes one must take into account the different types of needles, end fittings and plungers in addition to the volumes of same. The following information is designed as a guide to help make the appropriate choice.

Tapered cone tip needle - "C"

Autoinjector / microvolume and syringes with valves



Bevelled tip needle - "BV"

Manual GC / dispensing of liquids



Bevelled tip needle with "T" enlargement

Manual GC "extra strong"



Cone tip dual gauge needles with enlargement

On-column Injection / Automatic GC extra strong



Right angle tip needle - "LC"

HPLC / pipetting liquids



Round tip needle with lateral hole - "H"

High volume liquid injection



Round tip needle - "D"

Biology



PTFE coated needle - "P"

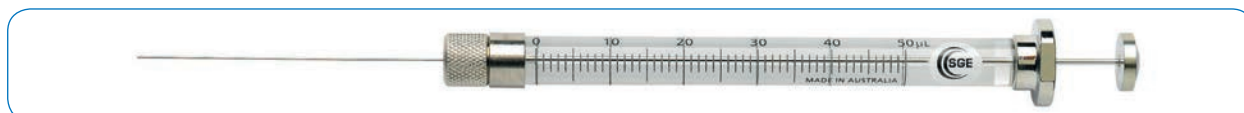
TLC / Gel Spot Plating / Dispensation of aqueous samples
without contaminating the outside of the needle



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Manual syringes for HPLC SGE

Accuracy and reproducibility: $\pm 1\%$
Max. temperature: 70°C (fixed needle), 120°C (removable needle)



Vol. (µl)	Needle length (mm)	Needle	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Replacement plunger (u.)	Barrel E.D. (mm)	Pack (u.)	Art. No.
5	51	Fixe	22	0,72	LC	5F-LC	-	-	6,5	1	032-001301
10	51	Fixe	22	0,72	LC	10F-LC	-	-	6,5	1	032-002301
10	51	Fixe	22	0,72	LC	10F-LC	-	-	6,5	6	032-002315
10 gas tight	51	Fixe	22	0,72	LC	10F-LC-GT	-	032-031810 (2)	6,5	1	032-002335
10	51	Fixe	22	0,72	LC	10FX-LC	-	-	6,5	1	032-002300
25	51	Fixe	22	0,72	LC	25F-LC	-	-	8	1	032-003300
50	51	Fixe	22	0,72	LC	50F-LC	-	-	8	1	032-004300
100	51	Fixe	22	0,72	LC	100F-LC	-	-	8	1	032-005300
250	51	Fixe	22	0,72	LC	250F-LC	-	-	8	1	032-006300
500	51	Fixe	22	0,72	LC	500F-LC	-	-	8	1	032-007300
5	51	Replacement	22	0,72	LC	5R-LC	032-036250	-	6,5	1	032-001310
10	51	Replacement	22	0,72	LC	10R-LC	032-037250	-	6,5	1	032-002310
10 gas tight	51	Replacement	22	0,72	LC	10R-GT-LC	032-037250	032-031811 (2)	6,5	1	032-002313
25	51	Replacement	22	0,72	LC	25R-LC	032-038250	-	8	1	032-003310
25 gas tight	51	Replacement	22	0,72	LC	25R-GT-LC	032-038250	032-031815	8	1	032-003312
50	51	Replacement	22	0,72	LC	50R-LC	032-038250	-	8	1	032-004310
50 gas tight	51	Replacement	22	0,72	LC	50R-GT-LC	032-038250	032-031820	8	1	032-004312
100	51	Replacement	22	0,72	LC	100R-LC	032-038250	-	8	1	032-005310
250	51	Replacement	22	0,72	LC	250R-LC	032-038250	-	8	1	032-006310
250 gas tight	51	Replacement	22	0,72	LC	250R-GT-LC	032-038250	032-031830	8	1	032-006312
500	51	Replacement	22	0,72	LC	500R-LC	032-038250	-	8	1	032-007310
500 gas tight	51	Replacement	22	0,72	LC	500R-GT-LC	032-038250	032-031835	8	1	032-007312
1ml gas tight	51	Replacement	22	0,72	LC	1MDR-LC-GT	032-039250	032-031842	8	1	032-008105
2,5ml gas tight	51	Replacement	22	0,72	LC	2,5MDR-LC-GT	032-039250	032-031852	8	1	032-008505

For further information, please contact scharlab@scharlab.com

Manual syringes from 0,5 to 5µl. Nanovolume SGE

Accuracy and reproducibility: $\pm 2\%$.
International standards traceability.
Extension from plunger to needle ensures zero dead volume.
Improves reproducibility.

Removable needle



Vol. (µl)	Needle length (mm)	Gauge	Ø ext. (mm)	Tip type	Model	Removable needle and plunger (u.)	Barrel E.D. (mm)	Pack (u.)	Art. No.
0,5	50	23	0,63	Conical	0,5 BNR-5	032-033010	6,5	1	032-000300
0,5	50	23	0,63	Beveled	0,5BNR-5BV	032-033011	6,5	1	032-000301
0,5	50	26	0,47	Conical	0,5BNR-5/0,47	032-033012	6,5	1	032-000303
0,5	70	23	0,63	Conical	0,5BR-7	032-033057	8	1	032-000310
0,5	70	23	0,63	Beveled	0,5BR-7BV	032-033060	8	1	032-000311
1	50	23	0,63	Conical	1BR-5	032-034055	8	1	032-000500
1	50	23	0,63	Beveled	1BR-5BV	032-034056	8	1	032-000501
1	70	23	0,63	Conical	1BR-7	032-034057	8	1	032-000505
1	70	23	0,63	Beveled	1BR-7BV	032-034060	8	1	032-000506
1	70	26	0,47	Conical	1BR-7/0,47	032-034610	8	1	032-000570
1	115	23	0,63	Conical	1BR-11,5	032-034059	8	1	032-000510
5	50	23	0,63	Conical	5BR-5	032-035055	8	1	032-000800
5	50	23	0,63	Beveled	5BR-5BV	032-035056	8	1	032-000801
5	70	23	0,63	Conical	5BR-7	032-035057	8	1	032-000802
5	70	23	0,63	Beveled	5BR-7BV	032-035058	8	1	032-000803
5	115	23	0,63	Conical	5BR-11,5	032-035059	8	1	032-000804
5	70	23	0,63	Probe	5BR-7N	032-035060	8	1	032-000805

Manual syringes from 5 to 10µl SGE

Accuracy and reproducibility: $\pm 1\%$
Scale length: 54mm

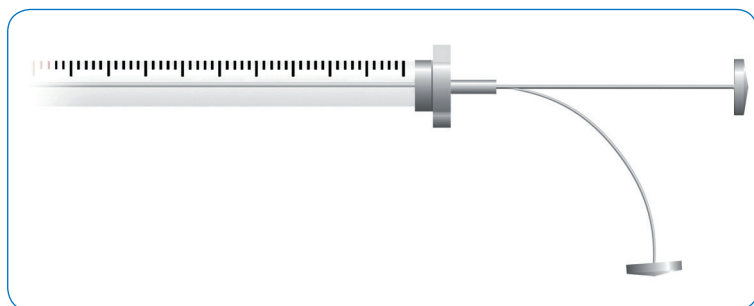
Syringes with standard plunger



Vol. (µl)	Needle length (mm)	Needle	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Barrel E.D. (mm)	Pack (u.)	Art. No.
5	50	Fixe	26	0,47	Beveled	5F	-	6,5	1	032-001000
5	70	Fixe	26	0,47	Beveled	5F-7	-	6,5	1	032-001002
10	50	Fixe	26	0,47	Beveled	10F	-	6,5	1	032-002000
10	50	Fixe	26	0,47	Beveled	10F	-	6,5	6	032-002030
10	70	Fixe	26	0,47	Beveled	10F-7	-	6,5	1	032-002003
5	50	Replacement	26	0,47	Beveled	5R	032-036110	6,5	1	032-001050
10	50	Replacement	26	0,47	Beveled	10R	032-037110	6,5	1	032-002050
10	70	Replacement	26	0,47	Beveled	10R-7	032-037130	6,5	1	032-002055

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Syringes with Superflex™ plunger of Titanium / Nickel, extremely flexible and indestructible


Vol. (µl)	Needle length (mm)	Needle	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Barrel E.D. (mm)	Pack (u.)	Art. No.
5	50	Fixe	26	0,47	Beveled	5FX	-	6,5	1	032-001100
5	50	Fixe	26	0,47	Conical	5FX-5C	-	6,5	1	032-001105
10	50	Fixe	26	0,47	Beveled	10FX	-	6,5	1	032-002100
10	50	Fixe	26	0,47	Conical	10FX-5C	-	6,5	1	032-002105
10	50	Fixe	23	0,63	Conical	10FX-5/0,63C	-	6,5	1	032-002108
10	70	Fixe	26	0,47	Beveled	10FX-7	-	6,5	1	032-002101
5	50	Replacement	26	0,47	Beveled	5RX	032-036110	6,5	1	032-001150
10	50	Replacement	26	0,47	Beveled	10RX	032-037110	6,5	1	032-002150

Syringes with guided piston, the most robust


Vol. (µl)	Needle length (mm)	Needle	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Barrel E.D. (mm)	Pack (u.)	Art. No.
5	50	Fixe	26	0,47	Beveled	5F-GP	-	8	1	032-001400
10	50	Fixe	26	0,47	Beveled	10F-GP	-	8	1	032-002400
5	50	Replacement	26	0,47	Beveled	5R-GP	032-036110	8	1	032-001450
10	50	Replacement	26	0,47	Beveled	10R-GP	032-037110	8	1	032-002450

For further information, please contact scharlab@scharlab.com

Manual syringes from 25 to 500µl

SGE

Accuracy and reproducibility: $\pm 1\%$
Scale length: 60mm
Barrel external diameter: 8mm



Vol. (µl)	Needle length (mm)	Needle	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Barrel E.D. (mm)	Pack (u.)	Art. No.
25	50	Fixe	25	0,5	Beveled	25F	-	8	1	032-003000
50	50	Fixe	25	0,5	Beveled	50F	-	8	1	032-004000
100	50	Fixe	25	0,5	Beveled	100F	-	8	1	032-005000
250	50	Fixe	25	0,5	Beveled	250F	-	8	1	032-006000
500	50	Fixe	25	0,5	Beveled	500F	-	8	1	032-007000
25	50	Replacement	25	0,5	Beveled	25R	032-038110	8	1	032-003050
50	50	Replacement	25	0,5	Beveled	50R	032-038110	8	1	032-004050
100	50	Replacement	25	0,5	Beveled	100R	032-038110	8	1	032-005050
100	70	Replacement	25	0,5	Beveled	100R-7	032-038130	8	1	032-005055
250	50	Replacement	25	0,5	Beveled	250R	032-038110	8	1	032-006050
500	50	Replacement	25	0,5	Beveled	500R	032-038110	8	1	032-007050

Gas Tight syringes from 10µl to 500µl

SGE

These syringes are constructed from borosilicate glass, PTFE plunger tips and Kel-F® or PTFE Luer cones where applicable. Assembled with an interference fit between plunger tip and barrel to effect the gas sealing properties of the syringe. Plungers are replaceable on these syringes.

Specifications:

- Accuracy and reproducibility: $\pm 1\%$
- Borosilicate glass barrel OD: 10µl = 6,5mm 25-500µl = 8mm
- Scale length: 10µl = 54,1mm 25-500µl = 60mm



Fixe needle

Vol. (µl)	Needle length (mm)	Gauge	Ø ext. (mm)	Tip type	Model	Replacement plunger (u.)	Pack (u.)	Art. No.
10	50	26	0,47	Beveled	10F-GT	032-031810 (2u.)	1	032-002200
10	70	26	0,47	Beveled	10F-GT-7	032-031810 (2u.)	1	032-002208
25	50	25	0,50	Beveled	25F-GT	032-031815	1	032-003200
50	50	25	0,50	Beveled	50F-GT	032-031820	1	032-004200
100	50	25	0,50	Beveled	100F-GT	032-031825	1	032-005200
250	50	25	0,50	Beveled	250F-GT	032-031830	1	032-006200
500	50	25	0,50	Beveled	500F-GT	032-031835	1	032-007200

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Replacement needle

Vol. (µl)	Needle length (mm)	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Replacement plunger (u.)	Pack (u.)	Art. No.
10	50	26	0,47	Beveled	10R-GT	032-037110	032-031811 (5u.)	1	032-002250
25	50	25	0,50	Beveled	25R-GT	032-038110	032-031815	1	032-003250
50	50	25	0,50	Beveled	50R-GT	032-038110	032-031820	1	032-004250
100	50	25	0,50	Beveled	100R-GT	032-038110	032-031825	1	032-005250
250	50	25	0,50	Beveled	250R-GT	032-038110	032-031830	1	032-006250
500	50	25	0,50	Beveled	500R-GT	032-038110	032-031835	1	032-007250

Guided Plunger

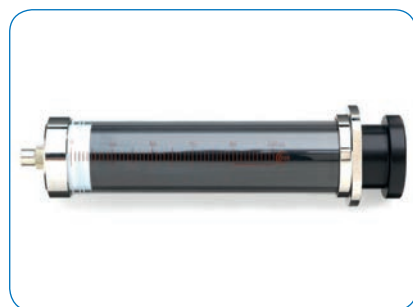
Vol. (µl)	Needle length (mm)	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Replacement plunger (u.)	Pack (u.)	Art. No.
10	50	26	0,47	Beveled	10R-GP-GT	032-037110	032-031805	1	032-002455

Luer Terminal, fixed. Supplied without needle. View Luer Lock needles

Vol. (µl)	Model	Replacement plunger (u.)	Pack (u.)	Art. No.
50	50F-LT-GT	032-031820	1	032-004229
100	100F-LT-GT	032-031825	1	032-005229
250	250F-LT-GT	032-031830	1	032-006229
500	500F-LT-GT	032-031835	1	032-007229

Luer Lock Terminal, fixed. Supplied without needle. View Luer Lock needles

Vol. (µl)	Model	Replacement plunger (u.)	Pack (u.)	Art. No.
50	50F-LL-GT	032-031820	1	032-004230
100	100F-LL-GT	032-031825	1	032-005230
250	250F-LL-GT	032-031830	1	032-006230
500	500F-LL-GT	032-031835	1	032-007230



Gas Tight syringes from 1ml to 100ml SGE

Suitable for syringe pumps and dispensers.

Specifications:

- Accuracy and Reproducibility: $\pm 1\%$
- Borosilicate glass barrel OD: 1ml - 8,8mm, 2,5ml - 10,8mm, 5ml - 13,7mm, 10ml - 18mm, 25ml - 27mm, 50ml - 32,6mm, 100ml - 40,6mm
- Scale Length: 60mm (50ml - 81mm, 100ml - 114mm)
- Barrel Length: 106mm (50ml - 147mm, 100ml - 180mm)
- Overall Length (plunger at zero) : 120mm (50ml - 164mm, 100ml - 202,5mm)
- Plunger Thread: 6-32UNC female (no plunger thread on either the 50ml or 100ml)
- Front Thread: 7/16UNEF male
- Max. Temperature: fixed needle or Luer 70°C, removable needle or Luer 120°C

Fixe needle

Vol. (µl)	Needle length (mm)	Gauge	Ø ext. (mm)	Tip type	Model	Replacement plunger (u.)	Pack (u.)	Art. No.
1ml	50	22	0,72	Beveled	1MDF-GT	0320318441	1	032-008102
2,5ml	50	22	0,72	Beveled	2.5MDF-GT	032-031852	1	032-008502

Replacement needle

Vol. (ml)	Needle length (mm)	Gauge	Ø ext. (mm)	Tip type	Model	Replacement needle (5 u.)	Replacement plunger (u.)	Pack (u.)	Art. No.
1ml	50	23	0,63	Beveled	1MDR-GT	032-039110	032-031842	1	032-008100
2,5ml	50	23	0,63	Beveled	2.5MDR-GT	032-039110	032-031842	1	032-008500
5ml	50	23	0,63	Beveled	5MDR-GT	032-031516	032-031856	1	032-008700
10ml	50	23	0,63	Beveled	10MDR-GT	032-031516	032-031862	1	032-008900

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For further information, please contact scharlab@scharlab.com

Luer Terminal, fixed. Supplied without needle. View Luer Lock needles

Volume (ml)	Model	Replacement plunger (u.)	Pack (u.)	Art. No.
1ml	1MDF-LT-GT	032-031842	1	032-008020
2,5ml	2.5MDF-LT-GT	032-031852	1	032-008420

Luer Lock. Supplied without needle. View Luer Lock needles

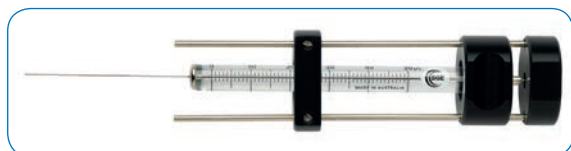
Volume (ml)	Model	Replacement needle (5 u.)	Replacement plunger (u.)	Pack (u.)	Art. No.
1ml	1MDF-LL-GT	-	0320318441	1	032-008025
2,5ml	2.5MDF-LL-GT	-	032-031852	1	032-008425
5ml	5MDF-LL-GT	-	0320318562	1	032-008762
10ml	10MDF-LL-GT	-	032-031864	1	032-008962
25ml	25MDF-LL-GT	-	032-031874	1	032-009463
5 (Replacement Luer Lock Terminal)	5MDR-LL-GT	-	032-031862	1	032-008760
10 (Replacement Luer Lock Terminal)	10MDR-LL-GT	-	032-031864	1	032-008960
25 (Replacement Luer Lock Terminal)	25MDR-LL-GT	-	032-031874	1	032-009462
50ml (Replacement Luer Lock Terminal)	50MR-LL-GT	-	0320312170	1	032-009660
100ml (Replacement Luer Lock Terminal)	100MR-LL-GT	-	0320312176	1	032-009760



Luer lock needles
SGE

Needle length (mm)	Gauge	Ø ext. (mm)	Ø int. (mm)	Tip type	Model	Pack (u.)	Art. No.
50	14	2,1	1,6	Beveled	NLL-5/14	5	032-039880
50	16	1,57	1,19	Beveled	NLL-5/16	5	032-039862
50	18	1,27	0,80	Beveled	NLL-5/18	5	032-039842
50	19	1,07	0,65	Beveled	NLL-5/19	5	032-039822
50	19	1,07	0,65	Sidehole	NLL-5/19H	2	032-039823
50	23	0,63	0,32	Beveled	NLL-5/23	5	032-039802
50	23	0,63	0,32	Sidehole	NLL-5/23H	2	032-039803
50	24	0,5	0,20	LC	NLL-WLC	2	032-039897
51(2")	22	0,028"	0,37	LC	NLL-LC	2	032-039895
70	16	1,57	1,19	Beveled	NLL-7/16	5	032-039867
70	18	1,27	0,80	Beveled	NLL-7/18	5	032-039847
70	19	1,07	0,65	Beveled	NLL-7/19	5	032-039827
70	23	0,63	0,32	Beveled	NLL-7/23	5	032-039807
70	23	0,63	0,32	Sidehole	NLL-7/23H	5	032-039808
115	14	2,1	1,6	Beveled	NLL-11,5/14	5	032-039891
115	16	1,57	1,19	Beveled	NLL-11,5/16	5	032-039871
115	18	1,27	0,80	Beveled	NLL-11,5/18	5	032-039851
115	19	1,07	0,65	Beveled	NLL-11,5/19	5	032-039831
115	23	0,63	0,32	Beveled	NLL-11,5/23	5	032-039811

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Syringe accessories

SGE

Description	Pack (u.)	Art. No.
Syringe cleaner	1	032-031781
Needle cleaning kit	1	032-031782
Replacement stylet wires, 0,10x150mm	5	032-031745
Replacement stylet wires, 0,15x150mm	5	032-031746
Replacement stylet wires, 0,22x150mm	5	032-031747
Holder for 4 syringes	1	032-031775
Repetitive syringe adapter RA6, for 6,5mm E.D. barrels	1	032-031923
Repetitive syringe adapter RA8, for 8mm E.D. barrels	1	032-031927

Syringes with valves

SGE

Syringes with valves are ideal for sample storage and transportation or to pressurize sample prior to chromatography injection.

SGE offers 3 valve types:

- "Push-pull": for low volumes (25µl-2,5ml).

- Septum: for higher volumes. Has a kind of key which must be rotated to open or close.

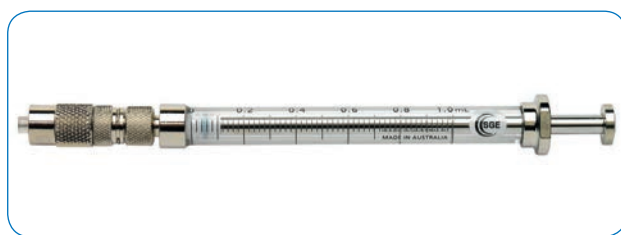
- "Push-button": for higher volumes. Button is pushed from one side to another for open or close. Useful for syringes with luer lock or removable needle.

Syringes with valves and also valves are detailed below.

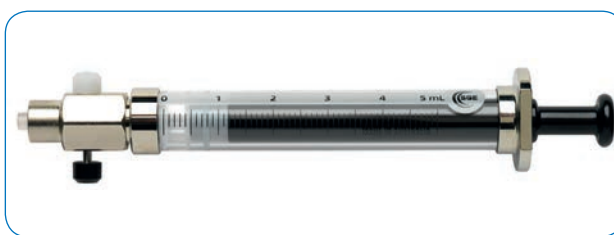
Pre-fitted syringes with removable needle and valve

Volume	Model	Replacement needle (5 u.)	Replacement plunger (u.)	Replacement valve (u.)	Pack (u.)	Art. No.
50µl	50R-V-GT	032-038810	032-031820	032-031905	1	032-004279
100µl	100R-V-GT	032-038810	032-031825	032-031905	1	032-005279
250µl	250R-V-GT	032-038810	032-031830	032-031905	1	032-006279
500µl	500R-V-GT	032-038810	032-031835	032-031905	1	032-007279
1ml	1MR-V-GT	032-038810	032-031842	032-031905	1	032-008110
2,5ml	2.5MDR-V-GT	032-038810	032-031852	032-031905	1	032-008510

Pre-fitted syringes with luer lock valve



032-008160



032-008770

Volume	Model	Valve	Replacement plunger (u.)	Replacement valve (u.)	Pack (u.)	Art. No.
1ml	1MR-VLL-GT	Push-pull	032-031842	032-031907	1	032-008160
2,5ml	2.5MDR-VLL-GT	Push-pull	032-031852	032-031907	1	032-008560
5ml	5MDR-VLLMA-GT	Push-button	032-031856	032-031910	1	032-008770
10ml	10MDR-VLLMA-GT	Push-button	032-031862	032-031910	1	032-008970
25ml	25MDR-VLLMA-GT	Push-button	032-031870	032-031910	1	032-009472
50ml	50MR-VLLMA-GT	Push-button	000312170	032-031910	1	032-009670
100ml	100MR-VLLMA-GT	Push-button	000312176	032-031910	1	032-009770

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For further information, please contact scharlab@scharlab.com

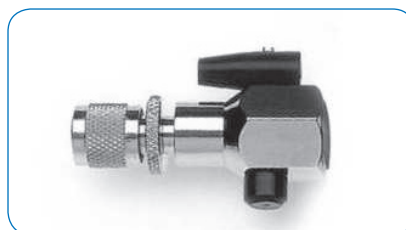
Syringe valves



Push-pull



Push-button



Septum

Description	Pack (u.)	Art. No.
Push-pull valve with 23 gauge needle. From 25µl up to 2,5ml	1	032-031905
Push-pull valve with luer lock. From 25µl up to 2,5ml	1	032-031907
Push-button valve with luer lock or replacement. For 5ml-2l	1	032-031910
Septum valve. For 5ml-2l	1	032-031911
Push-button valve with luer lock and luer tip. For 50ml-2l	1	032-031915



eVol® XR Hand-Held automated analytical syringe SGE

eVol® is the **first analytical digital syringe**. eVol® are **two accurate tools: one digital electronic control and an analytical syringe with an XCHANGE® adaptor**. The result is a digitally controlled positive displacement dispensing system that can be programmed to reproducibly and accurately perform a wide variety of liquid handling procedures. eVol® will improve your laboratory workflow and reporting confidence in many ways.

Key benefits:

- The programmable digital drive means **liquid handling procedures are user-independent**, allowing more efficient workflow scheduling and a reduction in the re-analysis of incorrectly processed or false positive samples
- XCHANGE® analytical syringes **can be easily and quickly changed** allowing them to be dedicated to individual liquids, and methods, to prevent possible cross-contamination of reagents
- **Precise user-independent dispensing**
- Unlike air-displacement devices, eVol® is the perfect solution for accurately aspirating and dispensing both aqueous and non-aqueous liquids.
- eVol® features a familiar Touch Wheel user interface and a full-color screen. The clever menu allows all the functions to be accessed logically and quickly. The programming functions are intuitive and include help screens and prompts
- **World's first user calibrated analytical syringe**. To comply with your stringent laboratory standards (e.g. GLP, GMP, FDA) eVol® can be easily calibrated to ensure accurate dispensing at all times. The gravimetric calibration procedure is simple, intuitive and can be performed at appropriate intervals. Calibration factors can be stored for up to ten XCHANGE® syringes and can be quickly loaded when the syringe is changed

Typical applications:

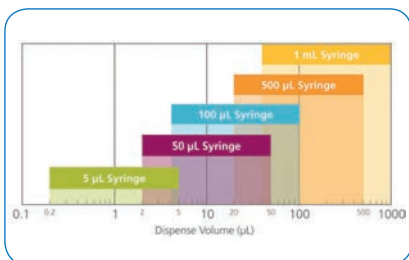
- Standard preparation
- Addition of standards
- Delivery of derivatization agents
- Serial dilutions

Only 5 XCHANGE® syringes are required to dispense liquid volumes covering the range from 0,2µL to 1mL.

eVol RMN: with long stainless steel needles which enable dilution, mix and recovery in tube making RMN tubes reuse easier.

eVol MEPS: eVol enables to be semi-automated (micro SPE). Contact us for further information!

Kits eVol



Description	Pack (u.)	Art. No.
eVol XR Kit, complete (Syringe: 5, 100 and 1000µl)	1	0002910200
eVol NMR Kit, complete (Syringe: 5µl (needle of 115mm), 50 and 500µl (115 and 180mm))	1	0002910100

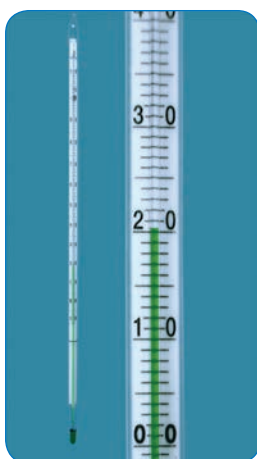
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eVol syringe

Vol. (µl)	Needle length (mm)	Gauge/E.D./I.D. (mm)	Tip type	Replacement needle	Replacement plunger	3 syringes pack	Pack (u.)	Art. No.
5	50	25/0,5/0,12	Beveled	032-036910	0002910380	0002910320	1	0002910020
5 (without needle)	-	-	-	-	0002910380	-	1	0002910021
50	50	25/0,5/0,2	Beveled	032-038110	0002910382	0002910322	1	0002910022
50 (without needle)	-	-	-	-	0002910382	-	1	0002910023
50 (MEPS)	-	-	-	-	0002910382	-	1	0002910027
100	50	25/0,5/0,2	Beveled	032-038110	0002910383	0002910329	1	0002910029
100 (MEPS)	-	-	-	-	0002910383	-	1	0002910028
500	50	23/0,63/0,32	Beveled	032-039110	0002910384	0002910324	1	0002910024
500 (without needle)	-	-	-	-	0002910384	-	1	0002910025
500 (MEPS)	-	-	-	-	0002910384	-	1	0002910026
1ml	50	23/0,63/0,32	Beveled	032-039110	0002910385	0002910335	1	0002910035

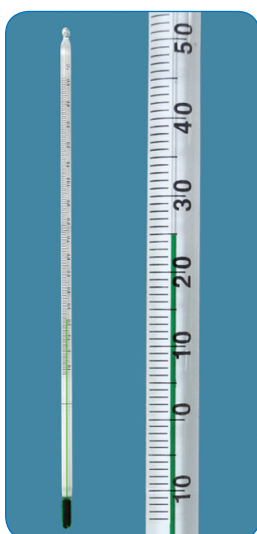
THERMOMETERS



General purpose thermometers eco, enclosed scale

Enclosed scale, Ø 7 a 8mm. With ring at top.
 Environmentally compatible green filling, toxically safe, capillary lens front, colourless, immersion 76mm.

Measuring range (°C)	Length (mm)	Division (°C)	Pack (u.)	Art. No.
- 10/0 a + 110	300	1	1	0000G10348
- 10/0 a + 110	300	0,5	1	0000G10352
- 10/0 a + 150	300	1	1	0000G10356
- 10 a + 250	300	2	1	0000G10364
- 10 a + 360	300	2	1	0000G10368

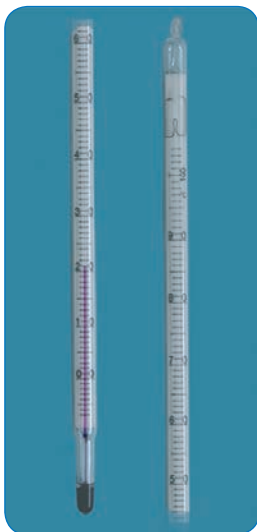


General purpose thermometers eco, solid stem

Solid stem, Ø 5,5 a 6,5mm. With ring at top.
 Environmentally compatible green filling, toxically safe, white backed, immersion 76mm.

Measuring range (°C)	Length (mm)	Division (°C)	Pack (u.)	Art. No.
- 10/0 a + 110	300	1	1	0000G11388
- 10/0 a + 110	300	0,5	1	0000G11392
- 10/0 a + 150	300	1	1	0000G11396
- 10 a + 250	300	2	1	0000G11404
- 10 a + 360	300	2	1	0000G11408

For further information, please contact scharlab@scharlab.com



General purpose thermometers, enclosed scale

Enclosed scale, with ring at top, Ø 7 to 8mm, capillary lens front, total immersion. Division 1°C.

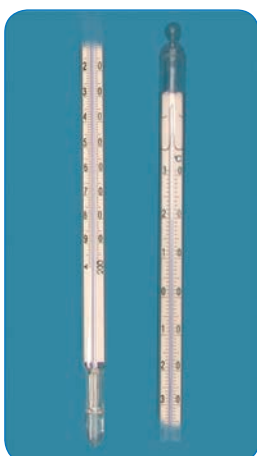
Measuring range (°C)	Filling	Length (mm)	Division (°C)	Pack (u.)	Art. No.
- 10/0 a + 100	Red liquid	260	1	1	0000G10306
- 10/0 a + 150	Red liquid	260	1	1	0000G10310
- 10/0 a + 200	Blue liquid	300	1	1	0000G10314



Labo-Clip

A holding device for all kinds of laboratory instruments (e. g. thermometers, test tubes, electrodes etc.), five holes with different diameters, all metallic parts of highgrade steel V2A, foam rubber plate may be used from - 40 to + 120°C, solid design.

Description	Pack (u.)	Art. No.
Labo-Clip	1	000K160310



Low temperature thermometers

Suitable for government verification. Enclosed scale, Ø 8 to 9mm, with milk-glass scale and Richter-top finish, capillary lens front. Division: 1°C. Blue filling (1) or toluene filling (2 and 3).

Measuring range (°C)	Length (mm)	Division (°C)	Pack (u.)	Art. No.
- 200 a + 30	350	1	1	0000L33018
- 100 a + 30	300	1	1	0000L33008
- 50 a + 50	300	1	1	0000L33004

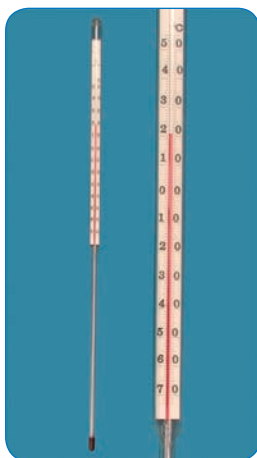
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Pocket thermometers

Enclosed scale. In nickel-plated case, approx. 140 x 11,5mm, with clip, capillary lens front. Colourless, with red special liquid, total immersion. Division 1°C.

Measuring range (°C)	Length (mm)	Division (°C)	Pack (u.)	Art. No.
- 35 a + 50	140	1	1	0000G15400
- 10 a + 100	140	1	1	0000G15404



Setting point thermometers

Suitable for government verification. DIN 12 785. Milk-glass scale, capillary lens front, colourless, upper part 195x10mm, lower part 165x5mm, immersion 180mm, Richter-top finish without button. Division: 1°C.

Measuring range (°C)	Length (mm)	Division (°C)	Pack (u.)	Art. No.
- 70 a + 50	195+165	1	1	000M242020

For further information, please contact scharlab@scharlab.com

Scharlau Laboratory Filtration range



The wise choice

Quantitative and qualitative filter papers, extraction thimbles, quartz microfiber and glass microfiber filters, syringe filters, membrane filters for mobile phase and membrane filters for microbiology



THIN LAYER CHROMATOGRAPHY



Thin layer plates MACHEREY-NAGEL

The adsorbents which are recommended for lipophilic substances include aluminum oxide, silica, polyamide, acetylated cellulose and for hydrophilic substances: cellulose, diatomaceous earth, polyamide and modified silica with reversed phase.

- **Aluminium oxide.** Has less application in thin layer than silica gel. To get reproducible separations it is important to control the water content of the adsorbent because water molecules can block the active groups on the surface.

We recommend activating the aluminum oxide plates for 10 minutes at 120°C. Our plates are prepared with basic aluminum oxide (pH 9). They contain an organic binder to ensure a better adhesion to the support. The aluminum oxide has a surface area of 200m²/g (BET) and a pore size of about 60Å.

- **Unmodified cellulose.** The plates with cellulose as adsorbent can be considered a development of paper chromatography (PC). Cellulose is used mainly in partition chromatography of polar substances such as aminoacids and other carboxylic acids or carbohydrates. Compared to PC, cellulose chromatography provides shorter migration times and more concentrated spots which

give increased detection sensitivity.

- **Acetylated cellulose.** Is suitable for reverse phase chromatography. It can be acetylated up to three hydroxyl groups per cellulose unit. As the acetylated groups increase so does the hydrophobic character of the cellulose increase.

- **Diatomaceous earth.** Is not widely used. The inert diatomaceous earth is used in special separations which require it to be impregnated with specific substances. For example, EDTA for the separation of tetracycline antibiotics.

- **Silica gel.** Silica gel coating is the most widely used substance in thin layer. The silica gel used in our plates has a pore size of 60Å, a surface area of 500m²/g, specific pore volume of 0,75ml / g and a particle size of 5-17µm. As a fluorescent indicator we use an activated zinc silicate and manganese to see it under UV light at 254nm and an inorganic fluorescent pigment to see it at 366nm. As a binder, polymers which are stable in almost all organic solvents and resistant to aggressive visualization reagents are used. The binder used in our plates, Polygram is also completely stable in aqueous eluents.

Glasschrom. Plates with glass support. The glass support is the most commonly used in thin layer. It is resistant, easy to hold and it ensures a completely flat position of the plate. It has some disadvantages its fragility and its relatively high weight. The manufacturing costs of the glass plates are substantially higher than those of plastic or aluminum.

Type	Adsorbent	Indicator	Thickness (mm)	Size (cm)	Pack (u.)	Art. No.
Glasschrom Alox UV254	Aluminium oxide	Yes	0,25	20x20	25	001-807023
Glasschrom CEL 300 UV254	Cellulose	Yes	0,1	20x20	25	001-808023
Glasschrom Si	Silica gel	No	0,25	20x20	25	001-809013
Glasschrom Si	Silica gel	No	0,25	10x20	50	001-809012
Glasschrom Si UV254	Silica gel	Yes	0,25	5x10	50	001-809027
Glasschrom Si UV254	Silica gel	Yes	0,25	5x20	100	001-809021
Glasschrom Si UV254	Silica gel	Yes	0,25	10x20	50	001-809022
Glasschrom Si UV254	Silica gel	Yes	0,25	20x20	25	001-809023
Glasschrom Si UV254	Silica gel	Yes	0,5	20x20	20	001-809053
Glasschrom Si	Silica gel	No	2	20x20	12	001-809073
Glasschrom Si UV254	Silica gel	Yes	2	20x20	12	001-809083
Glasschrom Si UV254+366	Silica gel	Yes (2)	0,25	20x20	25	001-809123
Glasschrom Si G-25 aflatoxins	Silica gel	No	0,25	20x20	25	001-809033
Glasschrom Si G-25 aflatoxins UV254	Silica gel	Yes	0,25	20x20	25	001-809043
Glasschrom Si	Silica gel with ammonium sulfate	No	0,25	20x20	25	001-810063

Polygram. Plates with polyester support of 0,2mm thickness. They are unbreakable and require less space for storage. The maximum temperature Polygram plates resist is 160°C. Problems can occur if it is used with eluents which contain high concentration of mineral acid or ammonia (which attack the aluminum).

Type	Adsorbent	Indicator	Thickness (mm)	Size (cm)	Pack (u.)	Art. No.
Polygram Alox N/UV254	Aluminium oxide	Yes	0,2	20x20	25	001-802023
Polygram P UV254	Polyamide	Yes	0,1	20x20	25	001-803023
Polygram Si	Silica gel	No	0,25	20x20	25	001-805013
Polygram Si UV254	Silica gel	Yes	0,25	20x20	25	001-805023
Polygram Si UV254	Silica gel	Yes	0,25	8x4	50	001-805021
Polygram Ce 300	Cellulose	No	0,1	8x4	50	001-801011
Polygram CEL 300 AC-10% acetylated	Acetylated cellulose 10%	No	0,1	20x20	25	001-801033
Polygram P	Polyamide	No	0,1	20x20	25	001-803013
Polygram Si	Silica gel	No	0,25	5x20	50	001-805012

→ Continued on the next page

Alugram. Plates with aluminum support. Are aluminum plates of 0.1mm thickness which use the same coating process as the glass plates. If aqueous eluents are going to be used, we recommend using polyester plates because the binder used in them is quite stable in water. Aluminium plates offer the same advantages as the polyester plates but also resist higher temperatures.

Type	Adsorbent	Indicator	Thickness (mm)	Size (cm)	Pack (u.)	Art. No.
Alugram Si	Silica gel	No	0,2	20x20	25	001-818033
Alugram Si UV254	Silica gel	Yes	0,2	20x20	25	001-818133
Alugram Alox N/UV254	Aluminium oxide	Yes	0,2	20x20	25	001-818023

HPTLC plates. High efficiency plates. Plates with glass support with silica gel which have a smaller particle size (2-10µm) for higher resolution.

Type	Adsorbent	Indicator	Thickness (mm)	Size (cm)	Pack (u.)	Art. No.
Nano-Glasschrom Si	Silica gel	No	0,2	10x10	25	001-811012
Nano-Glasschrom Si UV254	Silica gel	Yes	0,2	10x10	25	001-811022
Nano-Glasschrom Si	Silica gel	No	0,2	10x20	50	001-811013
Nano-Glasschrom Si UV254	Silica gel	Yes	0,2	10x20	50	001-811023

Concentrating zone plates. These plates have two zones coated with different adsorbents. The advantage of using these plates is to capture the positive properties of each of the adsorbents. The concentrating zone is of diatomaceous earth which is completely inert regarding the adsorption of a large number of compounds, contrary to the silica gel. The concentrating zone acts as a quick application area, because it is not necessary to apply the sample too carefully. Also, large dilute samples volumes can be applied instead of having to waste time on concentrating the sample. This is important in biochemical work.

Type	Adsorbent	Thickness (mm)	Size (cm)	Pack (u.)	Art. No.
Glasschrom Si TD	Silica gel with concentration zone	0,25	20x20	25	001-810013
Glasschrom Si UV254 TD	Silica gel with concentration zone	0,25	10x20	50	001-810022
Glasschrom Si UV254 TD	Silica gel with concentration zone	0,25	20x20	25	001-810023
Nano-glasschrom Si	Silica gel with concentration zone	0,2	10x10	25	001-811032

Reversed phase plates. For excellent coating of thin plates hydrophilic silica gel is used and most analysis can be carried out with them. However, for some separations it may be useful to have hydrophobic silica gel available and work with a reversed phase. The silica gel has medium pore size (60Å) and particle size between 2 and 10µm (the same as the material used in the nanoplates). This nanosilica reacts to different degrees, producing a gel with 100% or 50% reversed phase. The fluorescent indicator is an acid-resistant product which allows the use of strong acid eluents without producing quenching of the fluorescence. It emits a pale blue fluorescence in short UV. Substances that absorb ultraviolet will stain dark blue or black.

Type	Adsorbent	Thickness (mm)	Size (cm)	Pack (u.)	Art. No.
Nano-Glasschrom Si UV254	Silica gel C18 100% silanization	0,2	10x10	25	001-811062
Nano-Glasschrom Si UV254	Silica gel C18 50% silanization	0,2	10x10	25	001-811064

Chiral separation plates. The plates are made of glass and are coated with a reversed phase silica gel and are impregnated with a chiral selector (proline derivative) and copper (II) ions. The separation of optically active isomers is based on ligand exchange: the chiral selector and the enantiomer that has to be separated form a mixed chelate complex with copper ion. The complexes of the individual enantiomers have different stabilities that enable chromatographic separation. Typical applications of these plates are the separation of aminoacids, dipeptides and lactones.

Type	Adsorbent	Thickness (mm)	Size (cm)	Pack (u.)	Art. No.
Nano-Glasschrom Si	Silica chiral gel	0,25	10x20	25	001-811055
Nano-Glasschrom Si	Silica chiral gel	0,25	10x20	4	001-811056

For further information, please contact scharlab@scharlab.com



Accessories for thin layer chromatography

Glass chambers. These chambers are made of glass and they have a flat bottom and smooth and ground top edges. The lid is fitted with a handle and provides a hermetic seal with the chamber. The most popular chamber is 20x20cm and is also available with a flat glass lid without a handle.

We have multilayer chambers for simultaneous development of 5 thin-layer plates. These are used particularly for quantitative analysis and also to store plates.

Finally, we can offer small chambers, with a round bottom (for paper chromatography, etc.).

Description	Pack (u.)	Art. No.
20x20cm chamber complete with lid	1	109-0NPLAK
Lid with handle for 20x20cm chambers	1	109-0T2020
Multilayer 20x20cm chamber complete with lid	1	109-0MPLAK
10x10cm chamber complete with lid	1	109-MIPLAK
Lid with handle for 10x10cm chambers	1	109-0T1010
Chamber with a round bottom 21x11cm E.D.	1	109-0RPLAK

Other accessories

Description	Pack (u.)	Art. No.
1µl capillaries	3x50	001-814022
Plate for sample application	2	001-814023
Scharlau Glass Pasteur Pipette 160mm in length, short	250	073-001734
Scharlau Glass Pasteur Pipette 220mm in length, long	250	073-001735

TIMERS



Digital timer (alarm clock)

SCHARLAU

Three independent functions.
Notice voice, can be activated or deactivated.
Automatic repetition.
8 alarm sounds.
Memory.
24 hours chronometer and countdown.

Description	Pack (u.)	Art. No.
Timer digital (alarm clock)	1	502EL8845S



Dual timer

AMARELL

Chronometer with alarm signal.
Clock.
Memory function.
With support clip and hanger.

Description	Pack (u.)	Art. No.
Dual timer	1	000E920640

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Electronic timer clock

AMARELL

Chronometer and countdown up to 24 hours.
 Alarm signal.
 Memory function.
 With support clip and hanger.

Description	Pack (u.)	Art. No.
Electronic timer	1	000E920630



Multi Timer clock

AMARELL

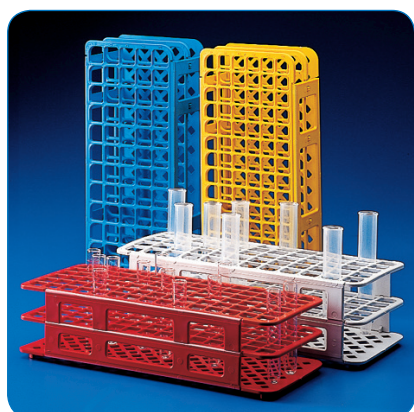
Chronometer up to 100 hours with countdown.
 Alarm signal.
 Clock.

Description	Pack (u.)	Art. No.
Multi Timer	1	000E920410

TUBES

- Racks, page 751
- Stoppers, page 755
- Tubes, page 758
- Brushes, page 769

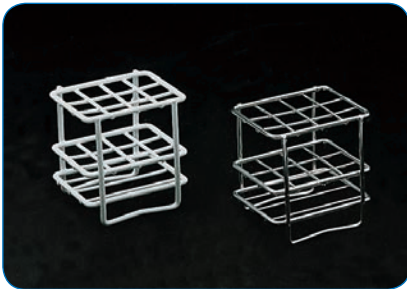
TUBES: Racks



Test tube racks of PP

KARTELL

For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Made of	Pack (u.)	Art. No.
13	90	246,5x104x60	Plastic. White	1	425-564/03
13	90	246,5x104x60	Plastic. Blue	1	425-564/04
13	90	246,5x104x60	Plastic. Yellow	1	425-564/06
13	90	246,5x104x60	Plastic. Red	1	425-564/10
16	60	246,5x104x70	Plastic. White	1	425-565/03
16	60	246,5x104x70	Plastic. Blue	1	425-565/04
16	60	246,5x104x70	Plastic. Yellow	1	425-565/06
16	60	246,5x104x70	Plastic. Red	1	425-565/10
20	40	246,5x104x70	Plastic. White	1	425-566/03
20	40	246,5x104x70	Plastic. Blue	1	425-566/04
20	40	246,5x104x70	Plastic. Yellow	1	425-566/06
20	40	246,5x104x70	Plastic. Red	1	425-566/10
25	40	296,5x124x85	Plastic. White	1	425-567/03
25	40	296,5x124x85	Plastic. Blue	1	425-567/04
25	40	296,5x124x85	Plastic. Yellow	1	425-567/06
25	40	296,5x124x85	Plastic. Red	1	425-567/10
30	24	300x110x85	Plastic. White	1	425-568/03
30	24	300x110x85	Plastic. Blue	1	425-568/04
30	24	300x110x85	Plastic. Yellow	1	425-568/06
30	24	300x110x85	Plastic. Red	1	425-568/10

Test tube racks
J.P. SELECTA
For tubes up to 13mm in diameter


For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Made of	Pack (u.)	Art. No.
13	12 (4x3)	65x50x65	Plasticized wire	1	0191001212
13	12 (4x3)	65x50x65	Stainless steel wire	1	0191025500

Up to 12 tubes of 16 or 25mm diameter


For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Made of	Pack (u.)	Art. No.
16	12 (6x2)	120x45x80	Plasticized wire	1	0191026112
25	12 (6x2)	180x65x110	Plasticized wire	1	0191026412
16	12 (6x2)	120x45x80	Stainless steel wire	1	0191025512
25	12 (6x2)	180x65x110	Stainless steel wire	1	0191025812

Up to 24 tubes of 16 or 25mm diameter


For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Made of	Pack (u.)	Art. No.
16	24 (8x3)	160x65x80	Plasticized wire	1	0191026124
25	24 (8x3)	235x95x110	Plasticized wire	1	0191026424
16	24 (8x3)	160x65x80	Stainless steel wire	1	0191025524
25	24 (8x3)	235x95x110	Stainless steel wire	1	0191025824

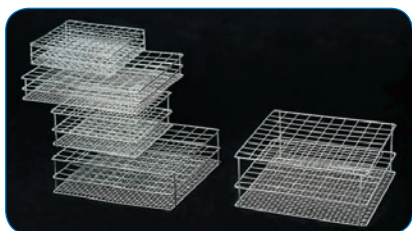
Up to 48 tubes of 16 or 25mm diameter


For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Made of	Pack (u.)	Art. No.
16	48 (8x6)	160x125x80	Plasticized wire	1	0191026148
25	48 (8x6)	235x180x110	Plasticized wire	1	0191026448
16	48 (8x6)	160x125x80	Stainless steel wire	1	0191025548
25	48 (8x6)	235x180x110	Stainless steel wire	1	0191025848

Up to 50 tubes of 13 or 18mm diameter


For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Made of	Pack (u.)	Art. No.
13	50 (10x5)	162x84x35	Stainless steel wire	1	0191000603
13	50 (10x5)	162x84x60	Stainless steel wire	1	0191000605
18	50 (10x5)	210x110x40	Stainless steel wire	1	0191000607
18	50 (10x5)	210x110x60	Stainless steel wire	1	0191000609
18	50 (10x5)	210x110x85	Stainless steel wire	1	0191000611

Up to 100 tubes of 13 or 18mm diameter



For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Made of	Pack (u.)	Art. No.
13	100 (10x10)	162x162x35	Stainless steel Aluminum	1	0191000604
13	100 (10x10)	162x162x60	Stainless steel Aluminum	1	0191000606
18	100 (10x10)	210x210x40	Stainless steel Aluminum	1	0191000608
18	100 (10x10)	210x210x60	Stainless steel Aluminum	1	0191000610
18	100 (10x10)	210x210x85	Stainless steel Aluminum	1	0191000612

Nessler tube racks

Stainless steel wire



For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Pack (u.)	Art. No.
40	12 (6x2)	260x90x110	1	0191004012
40	24 (8x3)	345x130x110	1	0191004024

Test tube racks with linking guides

Stainless steel sheet



For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Pack (u.)	Art. No.
12	24 (8x3)	160x62x65	1	0191002532
16	14 (7x2)	160x62x65	1	0191002531

Racks for butyrometers

Stainless steel sheet



Number of tubes	Dim. DxWxH (mm)	Pack (u.)	Art. No.
12 (6x2)	200x70x165	1	0191025412
24 (8x3)	285x95x165	1	0191025424

For further information, please contact scharlab@scharlab.com

Test tube racks with decanting aid

Anodized aluminum sheet



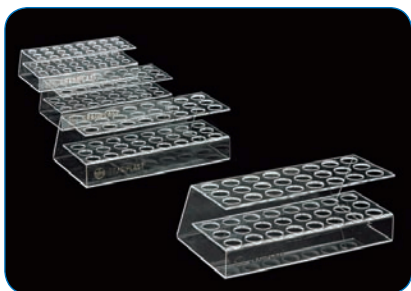
For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Pack (u.)	Art. No.
11	120 (15x8)	300x170x50	1	0191000433
14	120 (15x8)	300x170x50	1	0191000434

Test tube racks, stackable and numeric



For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Pack (u.)	Art. No.
11	48	55x130x105	1	0191000830
14	48	55x155x120	1	0191000831
16	48	68x180x155	1	0191000832

Transparent methacrylate tube racks



For tube Ø up to (mm)	Number of tubes	Dim. WxDxH (mm)	Pack (u.)	Art. No.
12	24 (8x3)	170x90x50	1	0191052012
16	24 (8x3)	190x100x60	1	0191052016
22	24 (8x3)	255x150x80	1	0191052022
26	24 (8x3)	300x170x110	1	0191052026

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TUBES: Stoppers



Rubber stoppers DEUTSCH & NEUMANN

DIN 12 871. Natural rubber (NR), grey, Durometer 40 Shore A. Solid.

With hole

Ø bottom (mm)	Ø top (mm)	Height (mm)	Ø hole (mm)	Pack (u.)	Art. No.
10,5	14,5	20	3	1	1011110DAN
12,5	16,5	20	3	1	1011112DAN
14	18	20	3	1	1011114DAN
17	22	25	4	1	1011117DAN
18	24	30	4	1	1011118DAN
21	27	30	5	1	1011121DAN
23	29	30	5	1	1011123DAN
26	32	30	6	1	1011126DAN
29	35	30	6	1	1011129DAN
31	38	35	7	1	1011131DAN

Without hole

Ø bottom (mm)	Ø top (mm)	Height (mm)	Pack (u.)	Art. No.
3,5	6,5	15	1	1010103DAN
5	9	20	1	1010105DAN
8	12	20	1	1010108DAN
10,5	14,5	20	1	1010110DAN
12,5	16,5	20	1	1010112DAN
14	18	20	1	1010114DAN
17	22	25	1	1010117DAN
18	24	30	1	1010118DAN
21	27	30	1	1010121DAN
23	29	30	1	1010123DAN
26	32	30	1	1010126DAN
29	35	30	1	1010129DAN
31	38	35	1	1010131DAN
41	49	40	1	1010141DAN
47	55	40	1	1010147DAN
50,5	59,5	45	1	1010150DAN
56	65	45	1	1010156DAN
60	70	50	1	1010160DAN
64,5	75,5	55	1	1010164DAN
71	83	60	1	1010171DAN
79	92	65	1	1010179DAN
87	100	65	1	1010187DAN
94	107	65	1	1010194DAN

For further information, please contact scharlab@scharlab.com


Silicone stoppers
DEUTSCH & NEUMANN

DIN 12 871. Transparent, Durometer 50 Shore A.

Ø bottom (mm)	Ø top (mm)	Height (mm)	Pack (u.)	Art. No.
3,5	6,5	15	1	1010503DAN
5	9	20	1	1010505DAN
8	12	20	1	1010508DAN
10,5	14,5	20	1	1010510DAN
12,5	16,5	20	1	1010512DAN
14	18	20	1	1010514DAN
17	22	25	1	1010517DAN
18	24	30	1	1010518DAN
21	27	30	1	1010521DAN
23	29	30	1	1010523DAN
26	32	30	1	1010526DAN
29	35	30	1	1010529DAN
31	38	35	1	1010531DAN
36	44	40	1	1010536DAN
41	49	40	1	1010541DAN
47	55	40	1	1010547DAN
50,5	59,5	45	1	1010550DAN
56	65	45	1	1010556DAN
60	70	50	1	1010560DAN
64,5	75,5	55	1	1010564DAN
71	83	60	1	1010571DAN


Finned plugs for disposable tubes
KARTELL

PELD, neutral.

Description	Colour	Pack (u.)	Art. No.
For tubes of 11-13mm in diameter	White	1.000	0088309/03
For tubes of 11-13mm in diameter	Blue	1.000	0088309/04
For tubes of 15-17mm in diameter	White	1.000	0088305/03
For tubes of 15-17mm in diameter	Blue	1.000	0088305/04


Septum caps for tubes and flasks
KARTELL

Size (mm)	Material	Pack (u.)	Art. No.
7,1	Silicone	10	425-001190
10,2	Silicone	10	425-001191
12,7	Silicone	10	425-001192
14,9 or NS 14723 ground joint	Silicone	10	425-001193
15,9	Silicone	10	425-001194
19,4 or NS 19/26 ground joint	Silicone	10	425-001195
23,7	Silicone	10	425-001196
30,7 or NS 29/32 ground joint	Silicone	10	425-001197



Test Tube Plugs

KIMBLE

Versilic silicone. Translucent. Secure seat, pleasant to handle. The caps are actually produced with a slightly smaller inner \varnothing and therefore offer a very secure seat. Type number corresponds to outer \varnothing of the test tube or vessel to be closed (glass, plastic, metal).

\varnothing (mm)	Pack (u.)	Art. No.
10	1	3162010KLE
12	1	3162012KLE
14	1	3162014KLE
16	1	3162016KLE
18	1	3162018KLE
20	1	3162020KLE
22	1	3162022KLE
25	1	3162025KLE
30	1	3162030KLE
35	1	3162035KLE
42	1	3162042KLE
45	1	3162045KLE
50	1	3162050KLE



Septum caps for tubes

KLEINFELD

Size (mm)	Material	Pack (u.)	Art. No.
7,1	Rubber	10	3407007KLE
10,2	Rubber	10	3407010KLE
12,7	Rubber	10	3407013KLE
14,9	Rubber	10	1171-01423
15,9	Rubber	10	3407018KLE
19,4	Rubber	10	1171-01926
23,7	Rubber	10	3407025KLE
30,7	Rubber	10	1171-02932

LABOCAP-caps

SCHUETT-BIOTEC

Aluminium. Anodised in colour. Sterilisable. Anodic oxidised. Without handle. For sterile but non-hermetic closing of vessels. Springs made of chromium-nickel-steel, which clamp against the outer wall of the vessel.

\varnothing outer (mm)	Colour	Pack (u.)	Art. No.
12/13	Silver	100	3624213SBI
12/13	Blue	100	3624223SBI
12/13	Red	100	3624233SBI
15/16	Silver	100	3624413SBI
15/16	Blue	100	3624423SBI
15/16	Red	100	3624433SBI
17/18	Silver	100	3624513SBI
17/18	Blue	100	3624523SBI
17/18	Red	100	3624533SBI
19/20	Silver	100	3624613SBI
19/20	Blue	100	3624623SBI
19/20	Red	100	3624633SBI

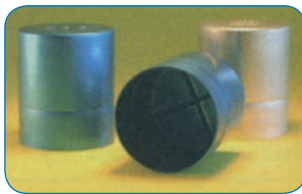
For further information, please contact scharlab@scharlab.com



Alu caps SCHUETT-BIOTEC

Pure aluminium. Matt. Sterilisable. Without clips. For sterile but not hermetic closure. Fit loosely on the neck of the vial. Can also be used as a vial.

Ø outer (mm)	Colour	Pack (u.)	Art. No.
11	Grey, 25mm height	100	3620113SBI
12	Grey, 25mm height	100	3620213SBI
13	Grey, 25mm height	100	3620313SBI
14	Grey, 25mm height	100	3620413SBI
15	Grey, 30mm height	100	3620513SBI
16	Grey, 30mm height	100	3620613SBI
17	Grey, 30mm height	100	3620713SBI
18	Grey, 30mm height	100	3620813SBI
20	Grey, 30mm height	100	3620913SBI
22	Grey, 30mm height	100	3621113SBI
28	Grey, 30mm height	100	3621213SBI
32	Grey, 30mm height	100	3621313SBI
39	Grey, 30mm height	10	3621413SBI
44	Grey, 40mm height	10	3621513SBI
48	Grey, 40mm height	10	3621613SBI
55	Grey, 40mm height	10	3621713SBI
58	Grey, 40mm height	10	3621813SBI



ERLENMEYER-CAP caps SCHUETT-BIOTEC

Aluminium. Anodised colours. Sterilisable. Special caps for culture flasks (without flanged rim) and nutrient media bottles with straight neck of 38mm Ø. For sterile but not hermetic closure. The chrome-nickel steel clips clamp onto the outer walls of the vial.

Ø outer (mm)	Colour	Pack (u.)	Art. No.
37/39	Silver	10	3627113SBI
37/39	Blue	10	3627123SBI
37/39	Red	10	3627133SBI

TUBES: Tubes

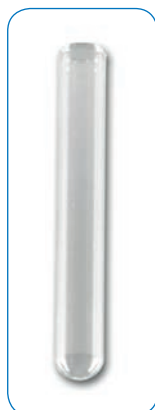


Glass test tubes without rim, soda-lime glass SCHARLAU

Smooth glass tube, round bottom, 0,8mm wall

Cap. (ml)	Dim. Ø x length (mm)	Tubes/box	Pack (u.)	Art. No.
3	10x75	100	1	124-01075C
4	10x100	100	1	124-10100C
5	12x75	100	1	124-01275C
6	12x100	100	1	124-12100C
8	12x120	100	1	124-12120C
15	15x150	100	1	124-15150C
15	16x100	100	1	124-16100C
20	16x160	100	1	124-16160C
30	18x180	100	1	124-18180C
40	20x200	100	1	124-20200C
50	25x150	100	1	124-25150C

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Borosilicate glass test tubes without rim SCHARLAU

Borosilicate smooth glass tube, round bottom, 1mm wall

Cap. (ml)	Dim. Øxlength (mm)	Tubes/box	Pack (u.)	Art. No.
3	10x75	100	1	124-01075P
4	10x100	100	1	124-10100P
5	12x75	100	1	124-01275P
6	12x100	100	1	124-12100P
8	12x120	100	1	124-12120P
15	15x150	100	1	124-15150P
15	16x100	100	1	124-16100P
20	16x160	100	1	124-16160P
30	18x180	100	1	124-18180P
40	20x200	100	1	124-20200P

Glass tubes with screw thread KIMBLE

Glass tubes with screw thread, GPI approval (Glass Packaging Institute).

Description	Bottom	Cap. (ml)	Dim. Ø x Length (mm)	Material	Tubes/box	Pack (u.)	Art. No.
Glass tube with screw cap. 24-400GPI	Round	30	20x150	SODA	6	6	0004560030
Test tube FIOLAX	Round	40	20x180	FIOLAX	100	100	0005190028
Test tube Duran, with rim	Round	21	16x160	DURAN	100	100	0222613021
Test tube Duran, without rim	Round	5	10x100	DURAN	100	100	0222613106
Test tube Duran, without rim	Round	16	14x130	DURAN	100	100	0222613113
Test tube without rim	Round	40	20x180	SODA	100	100	0261312801



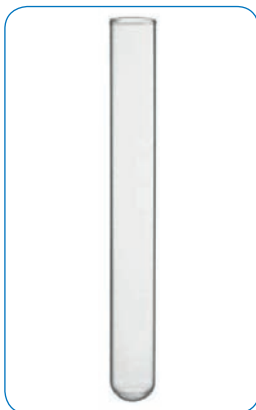
KG-33 Borosilicate glass culture tubes KIMBLE

Borosilicate glass culture tubes made from tubing with uniform wall thickness for maximum heat transfer and chemical resistance. Thread finish complies with Glass Packaging Institute (GPI) requirements. Cap included unattached. The 20x25mm size is suitable for the determination of insulin according to the method of Alving, Rubin and Millor, Journal of Biological Chemistry, 127, 3 (March 1939). Designed from ASTM E982, Type VI, Class A requirements. Replacement cap Art. No. 45066B.

Borosilicate with screw thread

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Tubes/box	Pack (u.)	Art. No.
Glass tube with screw cap.	Round	8	13x100	288/4	72	4506613100
Glass tube with screw cap.	Round	12	16x100	288/4	72	4506616100
Glass tube with screw cap.	Round	16	16x125	288/4	72	4506616125
Glass tube with screw cap.	Round	20	16x150	288/4	72	4506616150
Glass tube with screw cap.	Round	25	20x125	192/4	48	4506620125
Glass tube with screw cap.	Round	30	20x150	192/4	48	4506620150
Glass tube with screw cap.	Round	50	25x150	144/4	36	4506625150
Glass tube with screw cap.	Round	70	25x200	144/4	36	4506625200
Glass tube with screw cap.	Round	160	38x200	24	24	4506638200

For further information, please contact scharlab@scharlab.com

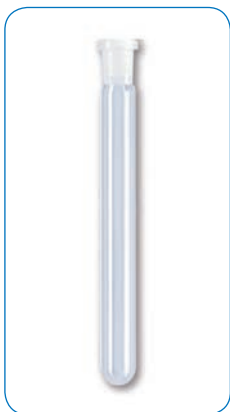


N-51A Borosilicate glass tubes KIMBLE

Borosilicate glass tubes, great resistance, ideal for laboratory ware. Complies with ASTM Specification E438, Type I, Class B glass requirements. These are premium quality tubes with sturdy, uniform bottoms and consistent lengths. The 6 x 50mm size is often referred to as a "Durham tube". Tubes are shrink wrapped in plastic film with tubes remaining in constant alignment for protection against in-transit breakage and contamination. Designed from ASTM Specification E890.

Smooth borosilicate Kimble

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Tubes/box	Pack (u.)	Art. No.
Tube without rim. Thickness 1mm	Round	4	10x75	1.000/4	250	7350001075
Tube without rim. Thickness 1mm	Round	6	12x75	1.000/4	250	7350001275
Tube without rim. Thickness 1mm	Round	10	13x100	1.000/4	250	7350013100
Tube without rim. Thickness 1mm	Round	15	16x100	1.000/4	250	7350016100
Tube without rim. Thickness 1mm	Round	19	16x125	1.000/4	250	7350016125
Tube without rim. Thickness 1mm	Round	23	16x150	1.000/4	250	7350016150
Tube without rim. Thickness 1mm	Round	24	18x150	500/4	125	7350018150
Tube without rim. Thickness 1mm	Round	36	20x150	500/4	250	7350020150
Tube without rim. Thickness 1mm	Round	55	25x150	500/4	125	7350025150



Glass tubes with ground joint SCHARLAU

Tube with ground joint, provided without stopper.

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Material	Tubes/box	Pack (u.)	Art. No.
With ground joint 10/19	Round	5	12x100	Borosilicate	1	1	073-001236
With ground joint 12/21	Round	10	16x100	Borosilicate	1	1	073-001237
With ground joint 14/23	Round	15	18x125	Borosilicate	1	1	073-001238
With ground joint 19/26	Round	30	24x150	Borosilicate	1	1	073-001239
With ground joint 24/29	Round	60	28x175	Borosilicate	1	1	073-001240
With ground joint 29/32	Round	100	34x200	Borosilicate	1	1	073-001241



Centrifuge tubes SCHARLAU

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Tubes/box	Pack (u.)	Art. No.
For centrifuge, DIN58970	Round	6	12x100	1	1	073-001242
For centrifuge, DIN58970	Round	12	16x100	1	1	073-001243
For centrifuge, DIN58970	Round	25	24x100	1	1	073-001244
For centrifuge, DIN58970	Round	30	24x120	1	1	073-001245
For centrifuge, DIN58970	Round	50	34x100	1	1	073-001246
For centrifuge, DIN58970	Round	80	44x100	1	1	073-001247
For centrifuge, DIN58970	Round	250	56x147	1	1	073-001248
For centrifuge, graduated	Round	10	17x105	1	1	073-001249
For centrifuge	Conical	12	16x110	1	1	073-001250
For centrifuge, graduated	Conical	10	16x105	1	1	073-001251
For centrifuge, graduated	Conical	15	17x115	1	1	073-001252

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PP tube with screw cap

Test tubes with screw caps

KARTELL

Test tubes with quick closure screw caps (PE). Leak-proof, and suitable for centrifugation. The design of the cap avoids any contamination due to drops of liquid on the inner surface.

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Material	Tubes /box	Pack (u.)	Art. No.
PP tube with screw cap	Round	15	16x100	PP	1.000	1x1.000	425-088303
PP tube with screw cap. Sterile	Round	15	16x100	PP	100	1x100	425-088304
Tube with cap	Conical	50	40x120	PP	100	1x100	425-084002
Microtube cap for Cobas-Bio®	Conical	0,7	7,6x35,5	HDPE	1.000	1x1.000	4252940/00
Microtube cap for Cobas-Bio®	Conical	0,7	7,6x35,5	HDPE	1.000	1x1.000	4252940/04



PS tubes

Disposable tubes

KARTELL

Made of polystyrene or polypropylene round or conical tubes, no rim, for laboratory use. Can be used in centrifuge.

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Material	Tubes/box	Pack (u.)	Art. No.
PS test tubes. radioimmunoassay (RIA)	Round	3	11x70	PS	1.000	6x1.000	425-088310
PS test tubes	Round	5	12x75	PS	1.000	1x1.000	425-088307
PS test tubes	Conical	10	16x105	PS	2.000	1x2.000	425-088301
PS test tubes	Round	10	16x100	PS	2.000	1x2.000	425-088302
PS test tubes	Round	15	16x150	PS	1.000	1x1.000	425-088320
PS test tubes. Coagulometer	Round	11,5	11,5x55	PS	1.000	5x1.000	425-088308



Tube with screw cap and skirt

Test tubes with self standing

DELTALAB

Made of autoclavable (121°C) transparent polypropylene or polystyrene. Dimensions: 15 x 102mm.

Green cap made of high density polyethylene. The external self standing allows the tubes to remain free-standing. Supplied screwed.

The sterile model (ethylene oxide) is supplied individually in flow-pack bag, with indications of batch, expiration date, etc...

Resistance to centrifugation: PS: 7.500g. PP: 15.000 g.

Attention: for autoclaving, the cap should be loose on the thread and not tightly fitted.

Description	Bottom	Capacity (ml)	Dim. ØxLength (mm)	Material	Tubes/box	Pack (u.)	Art. No.
Tube with screw cap and self standing	Round	12	15x102	PS	250	6x250	027-301403
Tube with screw cap and self standing	Round	12	15x102	PP	250	6x250	027-401403
Tube with screw cap and self standing. Sterile, unit bag	Round	12	15x102	PS	250	6x250	027-301402
Tube with screw cap and self standing. Sterile, unit bag	Round	12	15x102	PP	250	6x250	027-401402

For further information, please contact scharlab@scharlab.com



Test tubes

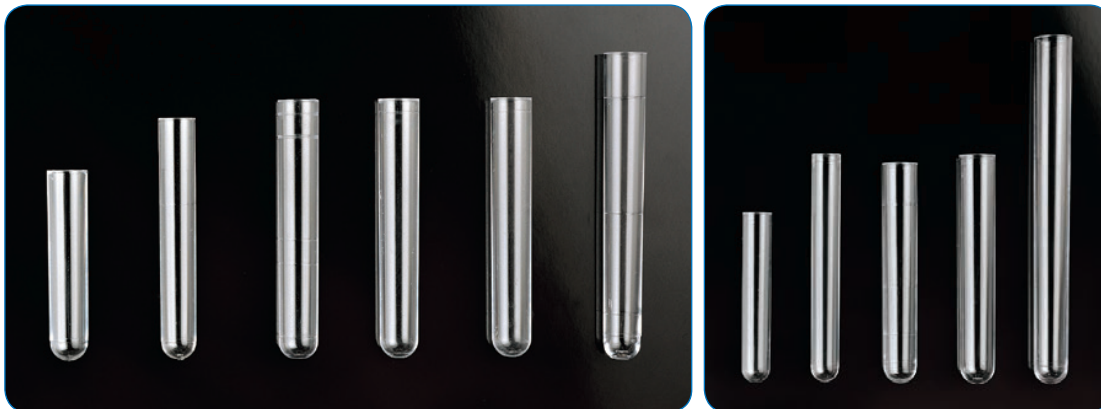
Conical test tubes DELTALAB

Manufactured in polypropylene and polystyrene. Art. No.s 301200, 401200 and 401204 have internal graduations. Art. No.s 301213 and 301212 are flared at their top for easy pouring and have a special sedimentation base. Art. No.s 301200, 401200 and 301202 have an external rim. All models are suitable for centrifugation.
PS tubes: 7.500g; PP tubes: 15.000g.
Except Art. No. 301212 and 301213 to 3.000g.

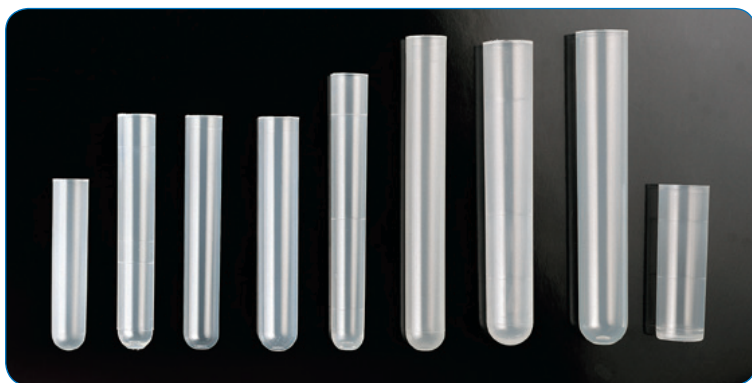
Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Material	Tubes/box	Pack (u.)	Art. No.
PS tube	Conical	12	16x102	PS	500	5x500	027-301200
PS tube	Conical	12	16x100	PS	500	5x500	027-301201
PS tube	Conical	12	16x102	PS	500	5x500	027-301202
PS tube	Conical	12	17x105	PS	1.500	1x1.500	027-301212
PS tube	Conical	12	16x105	PS	1.500	1x1.500	027-301213
PS tube	Conical	12	16x102	PP	500	2x500	027-401200
PS tube	Conical	12	16x100	PP	500	5x500	027-401201
PS tube	Conical	12	16x100	PP	500	5x500	027-401204

Round bottom polystyrene tubes DELTALAB

Tubes are made in one piece to ensure uniformity and dimensional accuracy from tube to tube. Art. No. 300800 is graduated at 1, 2,5 and 4,0ml; Art. No. 300400 is graduated at 1, 2,5 and 5,0ml. Suitable for centrifugation up to 7.500g. All tubes are suitable for laboratory use. Excepting Art. No. 300100, which does not withstand centrifugation.



Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Material	Tubes/box	Pack (u.)	Art. No.
PS Tube. Without leveling	Round	5	12x75	PS	1.000	4x1.000	00300800.1
PS Tube. Thick wall	Round	5	12x75	PS	1.000	4x1.000	00300800.2
PS Tube	Round	4	11x70	PS	1.000	3x1000	027-300300
PS Tube	Round	6	12x88	PS	1.000	4x1.000	027-300400
PS Tube	Round	3	11x55	PS	2.000	2000	027-300500
PS Tube	Round	5	12x75	PS	1.000	4x1.000	027-300800
PS Tube	Round	17	16x150	PS	1.000	1x1.000	027-300100
PS Tube	Round	5	13x75	PS	1.000	4x1.000	027-300700
PS Tube	Round	11	16x100	PS	500	5x500	027-300705
PS Tube	Round	10	16x95	PS	500	5x500	027-300900
PS Tube	Round	7	13x100	PS	500	6x500	027-301700
Capped tube	Round	6	13x75	PS	2.000	2.000	027-300702
Capped tube	Round	9	15x100	PS	500	500	027-300907



Ultraclear polypropylene tubes
DELTALAB

Tubes are made in one piece to ensure uniformity and dimensional accuracy from tube to tube. Autoclavable up to 121°C. Art. No.s: 400800, 400400, 400900 and 401100 have graduation rings. 400800 at 1, 2,5 and 4ml. 400400 at 1, 2,5 and 5ml. 400900 at 2,5, 5 and 10ml. 401100 at 2,5 and 5ml. Suitable for centrifugation up to 15.000g.

Ultraclear

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Material	Tubes/box	Pack (u.)	Art. No.
PP ultraclear tube	Round	5	12x75	PP	1.000	4x1.000	00400800.1
PP ultraclear tube	Round	6	12x88	PP	1.000	4x1.000	027-400400
PP ultraclear tube	Round	3	11x55	PP	2.000	2x2.000	027-400500
PP ultraclear tube	Round	5	13x75	PP	1.000	4x1.000	027-400700
PP ultraclear tube	Round	10	16x100	PP	500	5x500	027-400705
PP ultraclear tube	Round	5	12x75	PP	1.000	4x1.000	027-400800
PP ultraclear tube	Round	10	16x95	PP	500	5x500	027-400900
PP ultraclear tube	Round	5	15x50	PP	1.000	5x1.000	027-401100
PP ultraclear tube	Round	7	13x100	PP	1.000	4x1.000	027-401700



Conical tubes 15ml polypropylene
SCHARLAU

Description	Dim. Ø ext.xH (mm)	Resist. centrif. (g)	Sterile	Pack (u.)	Art. No.
15ml. Molded graduation. Blue cap	17x120	5.000	No	750	PCT0151000



Conical tubes 15ml polypropylene
GOSSELIN SAS

Description	Dim. Ø ext.xH (mm)	Resist. centrif. (g)	Sterile	Pack (u.)	Art. No.
15ml. Printed graduation and writing area	17x120	3.000	No	20x25	00TC15A-03

Stoppers for test tubes
in **page 755**

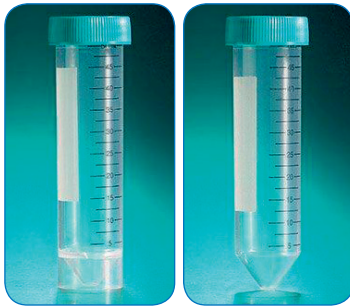




Conical tubes 15ml polypropylene DELTALAB

Description	Dim. Ø ext.xH (mm)	Resist. centrif. (g)	Sterile	Pack (u.)	Art. No.
15ml. Molded graduation and writing area	17x120	5.000	No	500	027-429910
15ml. Molded graduation and writing area	17x120	5.000	Sterile	5x100	027-429920
15ml. High resistance. Printed graduation. Free of DNase, RNase, endotoxins and metals	17x118	17.000	Sterile	10x50	027-409920

Conical tubes 50ml polypropylene GOSSELIN SAS



Description	Dim. Ø ext.xH (mm)	Resist. centrif. (g)	Sterile	Pack (u.)	Art. No.
50ml. Conical base. Printed graduation and writing area	29,2x113,5	9.600	No	20x25	630TC50-01
50ml. Conical base. Printed graduation and writing area	29,2x113,5	9.600	Sterile	20x25	630TC50-04
50ml. Self standing. Printed graduation and writing area	29,2x113,5	9.600	No	20x25	00TU50-012
50ml. Self standing. Printed graduation and writing area	29,2x113,5	9.600	Sterile	20x25	00TU50-013



Conical tubes 50ml polypropylene DELTALAB

Description	Dim. Ø ext.xH (mm)	Resist. centrif. (g)	Sterile	Pack (u.)	Art. No.
50ml. Conical base. Molded graduation	29,5x118,5	12.000	No	500	027-429900
50ml. Conical base. Molded graduation. Unit bag	29,5x118,5	7.000	Sterile	500	027-429926
50ml. Self standing. Printed graduation. High resistance. Free of DNase, RNase, endotoxins and metals	29,6x114,6	20.000	Sterile	10x50	027-409922
50ml. Self standing. Molded graduation	29,5x118,5	12.000	No	500	027-429901
50ml. Self standing. Molded graduation. Unit bag	29,5x118,5	7.000	Sterile	500	027-429927
50ml. High resistance. Printed graduation. Free of DNase, RNase, endotoxins and metals	29,6x114,6	10.000	Sterile	10x50	027-409923

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Sterile culture tubes in polystyrene DELTA LAB

Tubes supplied with either a two position ribbed polyethylene cap, which can be left loose for aerobic work or sealed for anaerobic cultures. Can withstand up to 1.400g centrifugation and 70°C.

Dim. ØxH (mm)	Pack (u.)	Art. No.
12x75	1.000	027-300807
17x100	1.000	027-300808



Straigh container 60ml polystyrene and screw cap GOSSELIN SAS

Description	Dim. ØxH (mm)	Pack (u.)	Art. No.
PS	33x70	700	00TP35-002
PS. Sterile	33x70	700	00TP35-103



30ml universal polystyrene containers DELTA LAB

Description	Dim. ØxH (mm)	Pack (u.)	Art. No.
PS	30,8x92,5	400	027-309202
PS. Unit bag	30,8x92,5	400	027-309222
PS. Unit bag. Sterile	30,8x92,5	400	00309222.0



Durham tubes SCHARLAU

Description	Bottom	Cap. (ml)	Dim. ØxLength (mm)	Material	Tubes/box	Pack (u.)	Art. No.
Durham (bell) tube	Round	0,6	6x20	Soda	100	1	124-00620C
Durham (bell) tube	Round	0,9	6x30	Soda	100	1	124-00630C
Durham (bell) tube	Round	1,1	6x40	Soda	100	1	124-00640C
Durham (bell) tube	Round	1,1	7x30	Soda	100	1	124-00730C
Durham (bell) tube	Round	1,4	7x40	Soda	100	1	124-00740C
Durham (bell) tube	Round	1,5	8x30	Soda	100	1	124-00830C
Amber glass tube	Round	4	11x50	Amber soda	100	1	073-003654

For further information, please contact scharlab@scharlab.com


Kjeldahl digestion tube for Tecator equipment
SCHARLAU

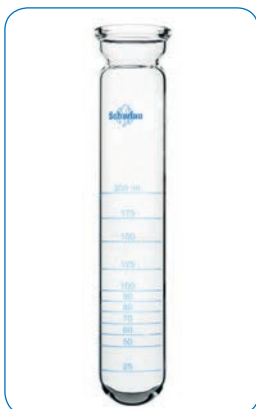
Dim. ØxH (mm)	Cap. (ml)	Pack (u.)	Art. No.
42x300	250	1	073-001362


Kjeldahl digestion tubes for Selecta equipment
SCHARLAU

Dim. ØxH (mm)	Type	Cap. (ml)	Pack (u.)	Art. No.
26x300	One mark	100	1	073-001360
42x300	Graduated	250	1	073-001358

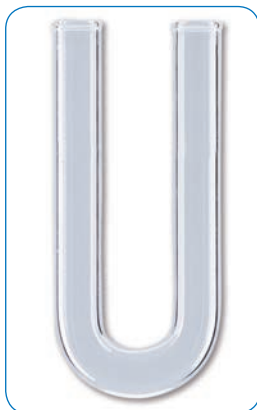

Kjeldahl digestion tube constricted for Tecator equipment
SCHARLAU

Dim. ØxH (mm)	Type	Pack (u.)	Art. No.
42x300	One mark	1	073-001361


Kjeldahl digestion tube for Büchi equipment
SCHARLAU

Dim. ØxH (mm)	Type	Pack (u.)	Art. No.
48x260	Graduated	1	073-001359

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Drying tubes, "U" shape
SCHARLAU

Length (mm)	Ø (mm)	Pack (u.)	Art. No.
120	12	1	073-001307
200	20	1	073-001310


Drying tubes, "U" shape with two glass stopcocks
SCHARLAU

Length (mm)	Ground joints	Pack (u.)	Art. No.
125	2x14/23	1	073-001316
150	2x19/26	1	073-001317


Drying tubes, angled
SCHARLAU

Cone	Pack (u.)	Art. No.
14/23	1	073-001298
19/26	1	073-001299
29/32	1	073-001301


Thiele tubes for melting point
SCHARLAU

Dim. ØxH (mm)	Pack (u.)	Art. No.
22x150	1	073-001284
30x180	1	073-001285

For further information, please contact scharlab@scharlab.com


Nessler tubes with spout
SCHARLAU

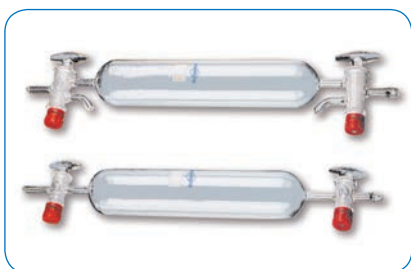
Ø (mm)	Cap. (ml)	Length (mm)	Pack (u.)	Art. No.
26	50	150	1	073-001259
26	25/50	150	1	073-001260
32	100	200	1	073-001261
32	50/100	200	1	073-001262


Nessler tubes without spout
SCHARLAU

Ø (mm)	Cap. (ml)	Length (mm)	Pack (u.)	Art. No.
24	50	180	1	073-001255
24	25/50	180	1	073-001256
28	100	280	1	073-001257
28	50/100	280	1	073-001258


Gas collecting tubes with two oblique glass stopcocks
SCHARLAU

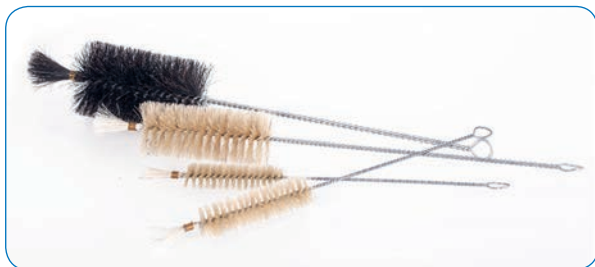
Cap. (ml)	Thread GL	Pack (u.)	Art. No.
100	14	1	073-000941
250	14	1	073-000942
500	14	1	073-000943
1.000	14	1	073-000944


Gas collecting tubes with two glass stopcocks
SCHARLAU

Cap. (ml)	Pack (u.)	Art. No.
100	1	073-000937
250	1	073-000938
500	1	073-000939
1.000	1	073-000940

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TUBES: Brushes



Brushes

Brushes made of natural hair for glass material cleaning. Metallic and flexible handle.

For big flasks

Total length (mm)	Usable length (mm)	Ø (mm)	Pack (u.)	Art. No.
620	130	100	5	233-402-14
550	120	90	5	233-402-13
500	100	75	5	233-402-12
370	100	70	5	233-0402-7

For middle flasks

Total length (mm)	Usable length (mm)	Ø (mm)	Pack (u.)	Art. No.
320	90	60	5	233-0402-6
360	100	45	5	233-0402-4
250	75	50	5	233-0402-5

For small flasks

Total length (mm)	Usable length (mm)	Ø (mm)	Pack (u.)	Art. No.
270	95	35	5	233-0402-3

For burettes

Total length (mm)	Usable length (mm)	Ø (mm)	Pack (u.)	Art. No.
670	100	23	5	233-402-10

For test tubes

Total length (mm)	Usable length (mm)	Ø (mm)	Pack (u.)	Art. No.
200	85	25	1	233-0402-2
250	75	20	5	233-0402-8
250	75	15	5	233-0402-0
220	60	10	5	233-402-00

For pipettes

Total length (mm)	Usable length (mm)	Ø (mm)	Pack (u.)	Art. No.
500	85	7	5	233-0402-9
400	75	5	5	233-402-15

For further information, please contact scharlab@scharlab.com

TUBING AND ACCESSORIES

- Accessories for tubes, *page 770*
- Various tubes, *page 773*

TUBING AND ACCESSORIES: Accessories for tubes



Hoffmann type pinchcocks BOCHEM

Brass, nickel-plated. With flap, heavy type.

Brass clamp

Max. clamping range (mm)	Pack (u.)	Art. No.
50	1	1254000000
60	1	1254100000
70	1	1254200000

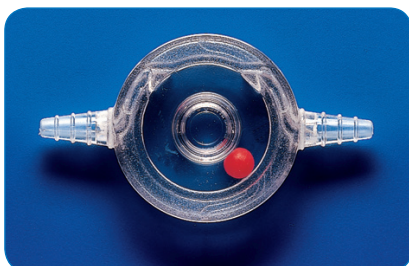


Pinchcock BOCHEM

18/10 stainless steel. Open side.

Steel clamp

Max. clamping range (mm)	Pack (u.)	Art. No.
40	1	1254500000



Flow indicators KARTELL

Description	Pack (u.)	Art. No.
Flow indicators (ball) for tubes 6,5 to 10mm	1	425-000538
Flow indicators(turbine) for tubes 6 to 11mm	1	425-000539

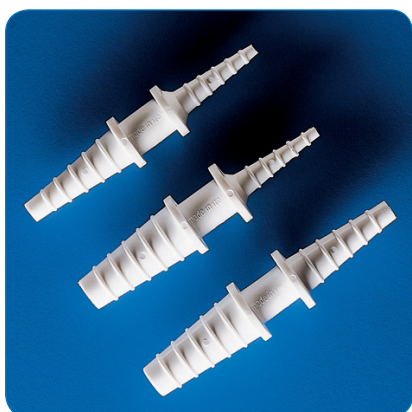
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Straight connectors, equal

KARTELL

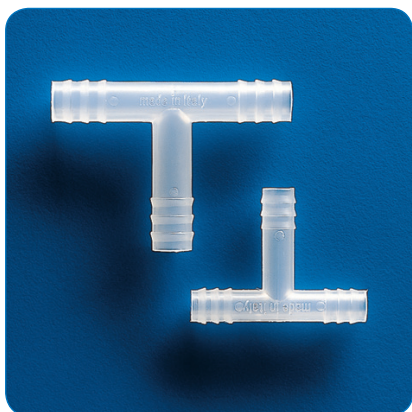
Description	Pack (u.)	Art. No.
Double olive tube for 6-7 and 8mm splice	20	425-000511
Double olive tube for 10-11 and 12mm splice	20	425-000513
Double olive tube for 14-15 and 16mm splice	20	425-000515



Straight unions, unequal

KARTELL

Description	Pack (u.)	Art. No.
Reduction double olive tube for 4/6/8 to 10/12 splice	20	425-000877
Reduction double olive tube for 4/6/8 to 12/14/16 splice	20	425-000878
Reduction double olive tube for 8/10/12 to 14/16 splice	20	425-000879



T connectors

KARTELL

Connector with serrations for semirigid tubing.

Description	Pack (u.)	Art. No.
T tube 10mm Ø PP	20	425-000462
T tube 12mm Ø PP	20	425-000463
T tube 14mm Ø PP	20	425-000520



Y connectors

KARTELL

Description	Pack (u.)	Art. No.
Y tube 12mm Ø PP	20	425-000468
Y tube 14mm Ø PP	20	425-000525
Y tube 16mm Ø PP	20	425-000526

For further information, please contact scharlab@scharlab.com



Nylon clamps

Nylon clamps simply closed by pressing together. Sterilizable up to 150°C. Operating range -30°C to +120°C.

Width (mm)	Clamping range (mm)	Pack (u.)	Art. No.
4,6	6,50 to 7,90	1	0009207707
4,6	7,90 to 9,20	1	0009207708
4,8	9,20 to 10,30	1	0009207709
7,5	10,20 to 11,80	1	0009207710
7,5	12,00 to 13,80	1	0009207712
7,5	13,10 to 15,10	1	0009207713
7,5	15,00 to 17,10	1	0009207715
7,5	24,50 to 27,60	1	0009207725
7,5	26,50 to 29,50	1	0009207727



Steel clamps with screw

Steel clamps with hexagonal screw.

Clamping range (mm)	Pack (u.)	Art. No.
5,5 to 10	1	00SP10-5,5
8,5 to 12	1	00SP12-8,5
9,5 to 14	1	00SP14-9,5
12 to 17	1	00NH17-12
16 to 21	1	00SP21-16



Steel clamps with screw

Galvanized steel, with chrome-plated screw.

Width (mm)	Clamping range (mm)	Pack (u.)	Art. No.
5	7 to 11	1	0SGL7115ZY
5	11 to 19	1	SGL11195ZY

According to norm DIN 3017

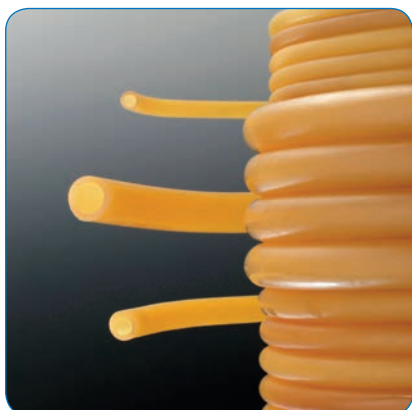
Width (mm)	Clamping range (mm)	Pack (u.)	Art. No.
7,5	10 to 16	1	T101675C6X
9	12 to 22	1	T12229C7W2
9	16 to 27	1	T16279C7W2
9	20 to 32	1	T20329C7W2
9	25 to 40	1	T25409C7W2



Steel clamps with screw, anticorrosion

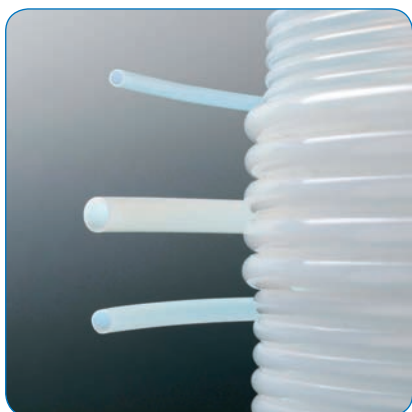
Steel clamps, corrosion resistant.

For Ø ext. (mm)	Width (mm)	Pack (u.)	Art. No.
6	7	1	00000S67ZY
7	7	1	00000S77ZY
8	7	1	00000S87ZY
9	9	1	00000S99ZY
10	9	1	0000S109ZY
12	9	1	0000S129ZY
17	12	1	000S1712SZ
18	12	1	000S1812SZ

TUBING AND ACCESSORIES: Various tubes

Latex tubing
DEUTSCH & NEUMANN

Clear transparent tubing, sterilized at 120°C.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
4	1	10	3050406-10
5	1	10	3050507-10
6	1	10	3050608-10
7	1,5	10	3050710-10
8	2	10	3050812-10
9	2	10	3050913-10
10	2	10	3051014-10


Polyethylene tubing
DEUTSCH & NEUMANN

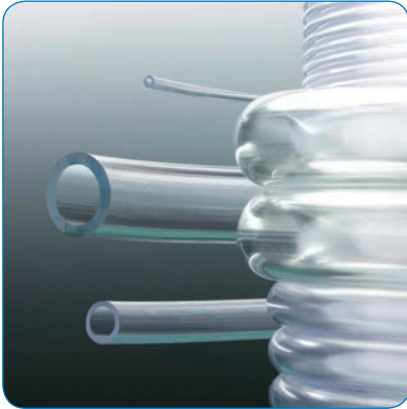
Transparent tubing, resistant to acids, alcohols and saline solutions up to temperatures of 80°C.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
1,5	1	5	3551535-05
2	1	5	3550204-05
3	1	5	3550305-05
4	1	5	3550406-05
5	1	5	3550507-05
6	1	5	3550608-05
6	1,5	5	3550609-05
7	1,5	5	3550710-05
8	1,5	5	3550811-05
9	2	5	3550913-05
10	1,5	5	3551013-05
10	2	5	3551014-05
12	1,5	5	3551215-05
12	2	5	3551216-05


PTFE tubing
DEUTSCH & NEUMANN

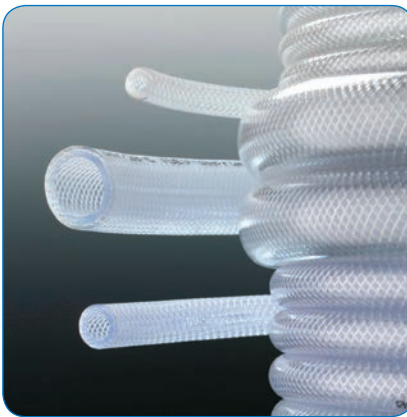
White tubing, temperature resistance up to aprox. 270°C.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
0,5	0,25	5	3400501-05
0,6	0,35	5	3400613-05
0,8	0,25	5	3400813-05
1	0,24	5	3400115-05
1,15	0,3	5	3400175-05
1,3	0,25	5	3401318-05
1,5	0,3	5	3401521-05
2	1	5	3400204-05
2,7	0,25	5	3402732-05
3	0,5	5	3400304-05
4	0,5	5	3400405-05
5	0,5	5	3400506-05
6	1	5	3400608-05
7	0,75	5	3400785-05
8	0,75	5	3400895-05
8	1,5	5	3400811-05
9	1	5	3400911-05
10	1	5	3401012-05
12	1	5	3401214-05


PVC tubing
DEUTSCH & NEUMANN

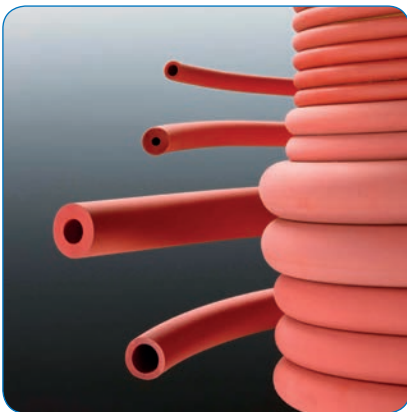
Transparent tubing, flexible and temperature resistance up to aprox. 60°C.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
3	1	5	3500305-05
4	1	5	3500406-05
5	1	5	3500507-05
6	1,5	5	3500609-05
6	2	5	3500610-05
7	1,5	5	3500710-05
7	2	5	3500711-05
8	2	5	3500812-05
9	2	5	3500913-05
10	2	5	3501014-05


PVC tubing with reinforcing webbing
DEUTSCH & NEUMANN

Reinforced PVC tubing.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
6	3	5	3520612-05
8	3	5	3510814-05
9	3	5	3510915-05
10	3	5	3511016-05
12	4,5	5	3511221-05


Rubber tubing
DEUTSCH & NEUMANN

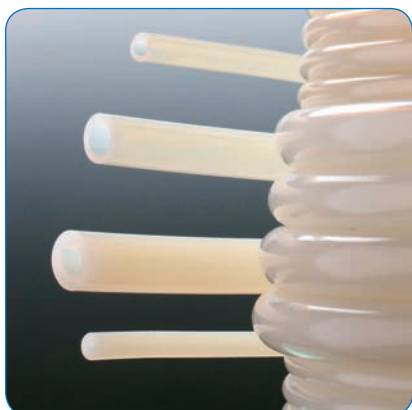
Natural rubber (NR), red, Durometer 50 Shore A, red coloured.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
4	2	25	3010408-25
5	1,5	25	3010508-25
5	2	25	3010509-25
6	1,5	25	3010609-25
6	2	25	3010610-25
7	1,5	25	3010710-25
7	2	25	3010711-25
8	2	25	3010812-25
9	2	25	3010913-25
10	2	25	3011014-25
12	2,5	25	3011217-25

Vacuum quality

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
5	5	5	3020515-05
6	5	5	3020616-05
6	6	5	3020618-05
7	5	5	3020717-05
8	5	5	3020818-05
8	6	5	3020820-05
8	8	5	3020824-05

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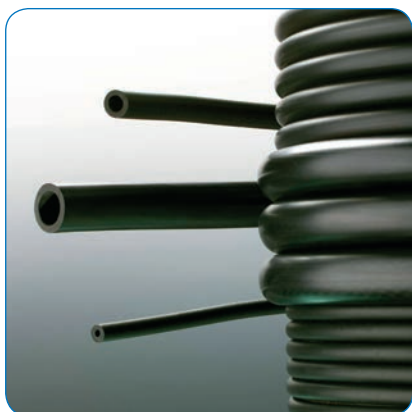
Silicone tubing DEUTSCH & NEUMANN

Transparent silicone rubber, Durometer 60 Shore A.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
0,5	1	25	3100525-25
1	1	25	3100103-25
1	1,5	25	3100104-25
1	2,5	25	3100106-25
1,5	1	25	3101535-25
1,5	1,25	25	3101504-25
2	1	25	3100204-25
2	1,5	25	3100205-25
2	2	25	3100206-25
2,5	1	25	3102545-25
3	1	25	3100305-25
3	1,5	25	3100306-25
3	2	25	3100307-25
4	1	25	3100406-25
4	1,5	25	3100407-25
4	2	25	3100408-25
4	2,5	25	3100409-25
5	1	25	3100507-25
5	1,5	25	3100508-25
5	2	25	3100509-25
5	2,5	25	3100510-25
6	1	25	3100608-25
6	1,5	25	3100609-25
6	2	25	3100610-25
7	1	25	3100709-25
7	1,5	25	3100710-25
7	2	25	3100711-25

Vacuum quality

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
5	5	15	3110515-15
6	3	25	3110612-25
7	3	25	3110713-25
7	4	25	3110715-25
7	5	15	3110717-15
8	4	25	3110816-25



Viton® tubing DEUTSCH & NEUMANN

Fluoroelastomer rubber (FPM), black, temperature range -10°C to over +200°C.

Ø int. (mm)	Wall thickness (mm)	Pack (m)	Art. No.
2	1	25	3200204-25
3	1	25	3200305-25
4	1	25	3200406-25
5	1	25	3200507-25
6	1	25	3200608-25
7	1	25	3200709-25
8	1	25	3200810-25

For further information, please contact scharlab@scharlab.com

VIALS

- Chromatography vials, page 776
- Storage vials, page 783

VIALS: Chromatography vials
SCHARLAU

Scharlab has available a wide range of autosampler vials. These are high quality vials, made of borosilicate glass type 1, expansion 33 and are very heat resistant and very inert. The shape of the vial is highly uniform for maximum safety in the autoinjector and in the use of inserts. If you have any doubt about the vial you require, please contact us indicating the brand and model of your autoinjector. We offer the option of online orders for your convenience and timely deliveries.

Crimp top 2ml vials 12x32mm, wide opening
SCHARLAU

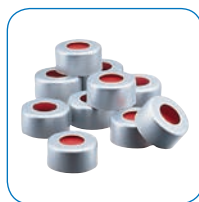
The 2ml crimp top vial 12x32mm is one of the most commonly used in chromatography. A crimper is required for sealing the cap and the vial. High quality vials, made of borosilicate clear glass Type 1, 33 expansion, are very thermal resistance and inert. The uniform vial shape for maximum autosampler safety as well as in the use of inserts. Most of the existing instruments accept this vial. If you have doubts with regard to choosing your vial, please consult us indicating the brand and model of your autosampler. These vials are in stock for immediate delivery. In any case, we offer the option of a programmed delivery service for your convenience and punctuality. Detailed below are the vials and caps as well as the most common accessories for these vials.



VTRCR12X32



VAMCR12X32



CRIMPCAP12/00S200-100



S-WIC47000



00WIC47095



00S200-246

Description	Material	Pack (u.)	Art. No.
Crimp top vial	Transparent glass	100	VTRCR12X32
Crimp top vial	Amber glass	100	VAMCR12X32
Cap	Aluminium with septum PTFE/rubber	100	CRIMPCAP12
Cap	Aluminium with septum PTFE/rubber	1.000	00S200-100
Cap	Aluminium with septum PTFE/silicone	100	S-WIC44300
Vial and seal closures with septum	Transparent glass/septum PTFE/rubber	1.000	VTRCRIM12M
Vial and seal closures with septum	Amber glass/septum PTFE/rubber	1.000	VAMCRIM12M
Insert conical bottom 200µl	Transparent glass	100	S-WIC47000
Insert flat bottom 350µl	Transparent glass	100	00WIC47095
Crimper 11mm	-	1	00S200-246
Non-crimp top 11mm	-	1	00S500-442
Pliers 11mm	-	1	00S200-248
Rack for 50 vials	Polypropilene	1	00S500-142

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9-425 screw top 2ml vials 12x32mm, wide opening SCHARLAU

The 9-425 2ml screw top vial 12x32mm is the most popular screw top vial. It has a "short" thread with a similar height to the aluminum caps, not as high as screw top vials with a narrow opening. High quality vials, made from borosilicate clear glass Type 1, 33 expansion with great thermal resistance and inert. Uniform vial shape for maximum autosampler safety as well as in the use of inserts. Most of the existing instruments accept this vial. If you have doubts when choosing your vial, please consult us indicating the brand and model of your autosampler. These vials are available for immediate delivery. In any case, we offer the option of a programmed delivery service for your convenience and punctuality. Detailed below are the vials and caps as well as the most common accessories for these vials.



VARBE12X32



VTRRB12X32



RBBSILCAP



S-WIC47000



00WIC47095

Description	Material	Pack (u.)	Art. No.
Screw top vial	Transparent glass	100	VARBE12X32
Screw top vial	Amber glass	100	VTRRB12X32
Cap	With septum PTFE/silicone	100	RBBSILCAP
Cap	With septum PTFE/precut silicone	100	0WIC43945B
Vial and cap	Transparent glass/septum PTFE/silicone	1.000	VTRRBCAPSM
Vial and cap	Amber glass/septum PTFE/silicone	1.000	VAMRBCAPSM
Vial and cap	Transparent glass/septum PTFE/precut silicone	1.000	VTRRBSLITM
Vial and cap	Amber glass/septum PTFE/precut silicone	1.000	VAMRBSLITM
Insert conical bottom 200µl	Transparent glass	100	S-WIC47000
Insert flat bottom 350µl	Transparent glass	100	00WIC47095
Rack for 50 vials	Polypropilene	1	00S500-142

8-425 2ml screw top vials 12x32mm, narrow opening

The 8-425 2ml screw top vial 12x32mm is a less used vial than the former. High quality vials, made of borosilicate clear glass Type 1, 33 expansion with great thermal resistance and inert. Uniform vial shape for maximum autosampler safety as well as in the use of inserts. Most of the existing instruments accept this vial. If you have doubts when choosing your vial, please consult us indicating the brand and the model of your autosampler. These vials are available for immediate delivery. In any case, we offer the option of a programmed delivery service for your convenience and punctuality. Detailed below are the vials and caps as well as the most common accessories for these vials.



S11015100C



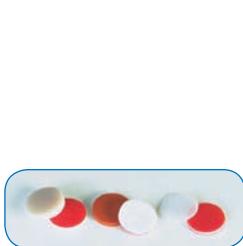
00S500-554



00S500-062



00S200-288



00S200-344

Description	Material	Pack (u.)	Art. No.
Screw top vial	Transparent glass	100	S11015100C
Screw top vial	Amber glass	100	00S500-554
Cap	With septum PTFE/silicone	1.000	S500-062SP
Cap	With septum PTFE/silicone	100	00S500-062
Septum	PTFE/silicone	1.000	00S200-344
Cap (without septum)	Polypropilene	1.000	00S200-288
Rack for 50 vials	Polypropilene	1	00S500-142

For further information, please contact scharlab@scharlab.com

Crimp top vials for headspace

Flat bottom vials are used for Agilent and Carlo Erba autosamplers. Those with a conical bottom are specific for Perkin-Elmer, Tekmar and Varian/ Bruker. Amber vials for headspace are also available, please contact us for more information.



VTRCR2238P



VTRCR2346P



VTRCR2375R

Description	Material	Pack (u.)	Art. No.
Vial 6ml 22x38mm	Transparent glass flat bottom	100	VTRCR2238P
Vial 10ml 23x46mm	Transparent glass flat bottom	100	VTRCR2346P
Vial 20ml 23x75mm	Transparent glass flat bottom	100	VTRCR2375P
Vial 10ml 23x46mm	Transparent glass round bottom	100	VTRCR2346R
Vial 20ml 23x75mm	Transparent glass round bottom	100	VTRCR2375R
Seal closures	Aluminium with septum PTFE/silicone	100	160-500272
Magnetic cap	With septum PTFE/silicone	100	00WIC44560
Seal closures	Aluminium with septum PTFE/silicone	100	S20AC0100R
Seal closures	Aluminium with septum PTFE/silicone	1.000	S20AC01000
Seal closures	Aluminium with central hole without septum	1.000	160-500334
Septum	PTFE/red rubber	1.000	160-504772
Crimper 20mm	-	1	00S200-972
Pliers 20mm	To non-crimp	1	00S200-974
Non-crimp top 20mm	-	1	00S500-446

Screw top vials for headspace



00WIC41800



00WIC41820



00WIC41830



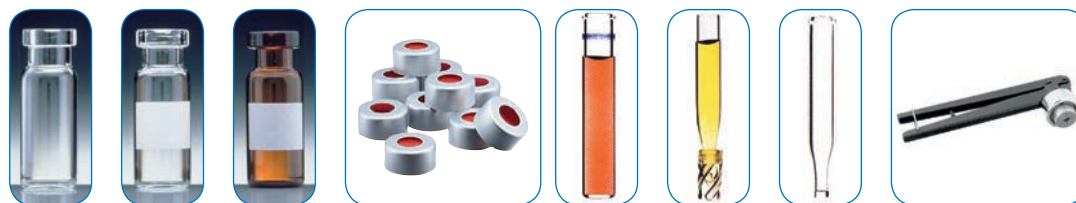
00WIC41870

Description	Material	Pack (u.)	Art. No.
Screw top vial 10ml	Transparent glass	100	00WIC41800
Screw top vial 10ml	Amber glass	100	00WIC41810
Screw top vial 20ml	Transparent glass	100	00WIC41820
Screw top vial 20ml	Amber glass	100	00WIC41830
Magnetic cap	With silicone septum/PTFE 1,3mm	100	00WIC41850
Magnetic cap	With rubber septum butyl / PTFE 1,6mm	100	00WIC41860
Magnetic cap	With silicone septum/PTFE 1,5mm	100	00WIC41870

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Crimp top vials 12x32mm 2ml, wide opening NATIONAL SCIENTIFIC

- Wide opening vials are easier to fill.
- Fit most autosamplers that accommodate the 12x32mm vial format.
- Superior quality 33 expansion borosilicate clear glass Type 1, Class A or 51A amber glass.
- Uniformly flat bottom for security with inserts.
- Require aluminum seal closures and crimpers for its sealing.



Description	Material	Vol. (µl)	Pack (u.)	Art. No.
Crimp top vial	Transparent glass	-	100	60821G1232
Crimp top vial	Transparent glass with writing area	-	100	60821W1232
Crimp top vial	Amber glass with writing area	-	100	00C4011-2W
Seal closures	Aluminium with rubber septum/PTFE	-	100	0073825-11
Seal closures	Aluminium with PTFE septum	-	1.000	00C4011-6A
Seal closures	Aluminio con septum silicona/PTFE	-	100	073824T-11
Insert	Flat bottom glass	-	500	060830-631
Insert	Conical bottom glass	300	100	060843-629
Insert	Polypropilene with Polyspring	300	100	60843P-629
Insert	Conical bottom glass	350	100	060840-631
Crimper 11mm	-	-	1	0069901-11
Non-crimp top 11mm	-	-	1	0069903-11
Pliers 11mm	To non-crimp	-	1	0C4012-101
Rack	50 vials, high quality of polypropilene	-	5	00C4012-25

Vials 12x32mm 2ml 9-425 thread, wide opening NATIONAL SCIENTIFIC

- Wide opening vials are easier to fill.
- Fit most autosamplers that accommodate the 12x32mm vial format.
- Superior quality 33 expansion borosilicate clear glass Type 1, Class A or 51A amber glass.
- Uniformly flat bottom for security with inserts.
- 9-425 thread, the most common nowadays.
- Pre-slit septa are easier to pierce with thin gauge needles. Commonly used in UPLC with Waters equipments.



Description	Material	Vol. (µl)	Pack (u.)	Art. No.
Screw top vial	Vidrio transparente	-	100	60800-1232
Screw top vial	Transparent glass, with writing area	-	100	60800W1232
Screw top vial	Amber glass, with writing area	-	100	60805W1232
Screw top vial	Polypropilene 300µl	-	100	00C4000-11
Screw cap	Black polypropilene	-	100	73801A9425
Septum	Silicone/PTFE	-	100	0073809C-8
Septum	Rubber/PTFE	-	100	0073809A-8
Screw cap	Black Polypropylene with rubber septum / PTFE	-	100	73791A9425
Screw cap	Black Polypropylene with silicone septum / PTFE	-	100	73793A9425
Screw cap	Red Polypropylene with rubber septum / PTFE	-	100	0C4000-51R
Screw cap	Blue Polypropylene with rubber septum / PTFE	-	100	0C4000-51B
Insert	Flat bottom glass	400	500	060830-631
Insert	Conical bottom glass with Polyspring	300	100	060843-629
Insert	Polypropilene with Polyspring	300	100	60843P-629
Rack	50 vials, high quality of polypropilene	-	5	00C4012-25

Vials 12x32mm 2ml 8-425 thread, narrow opening NATIONAL SCIENTIFIC

- Wide opening vials are easier to fill.
- Fit most autosamplers that accommodate the 12x32mm vial format.
- Superior quality 33 expansion borosilicate clear glass Type 1, Class A or 51A amber glass.
- Uniformly flat bottom for security with inserts.
- 8-425 thread, standard opening (or narrow), the classic one.
- It is advisable to confirm your autosampler compatibility with this thread.



60810-1232



60815-1232



73806A8425



0073818T-8



73804A8425

Description	Material	Vol. (µl)	Pack (u.)	Art. No.
Screw top vial	Transparent glass	-	100	60810-1232
Screw top vial	Amber glass	-	100	60815-1232
Screw top vial	Amber glass with writing area	-	100	60815W1232
Screw cap	Black	-	100	73806A8425
Septum	Rubber/PTFE	-	100	0073816T-8
Septum	Silicone/PTFE	-	100	0073818T-8
Septum	Silicone/PTFE with slit	-	100	0073818H-8
Septum	Disposable PTFE	-	1.000	0073819T-8
Screw cap	Black with silicone septum/PTFE	-	100	73804A8425
Insert	Flat bottom glass	250	500	0C4012-465
Insert	Conical bottom glass with Polyspring	200	100	060843-529
Insert	Polypropilene with Polyspring	175	100	60843P-529
Rack	50 vials, high quality of polypropilene	-	5	00C4012-25

Vials 12x32mm 2ml 10-425 thread, wide opening NATIONAL SCIENTIFIC

- Wide opening vials are easier to fill.
- Fit most autosamplers that accommodate the 12x32mm vial format.
- Superior quality 33 expansion borosilicate clear glass Type 1, Class A or 51A amber glass.
- Uniformly flat bottom for security with inserts.
- 10-425 thread, wide opening, only compatible with some autosamplers.
- It is advisable to confirm your autosampler compatibility with this thread.



60812-1232



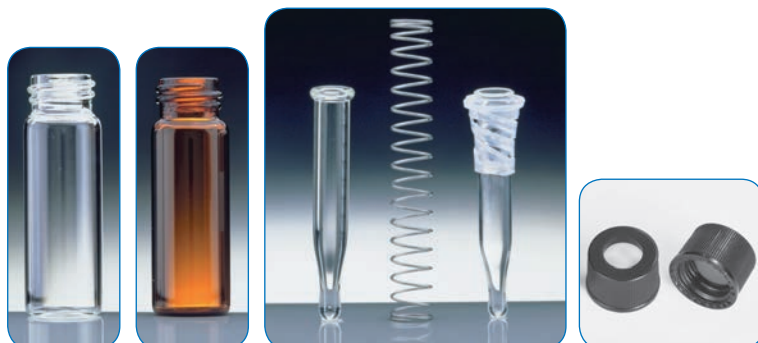
60815A1232

Description	Material	Vol. (µl)	Pack (u.)	Art. No.
Screw top vial	Transparent glass	-	100	60812-1232
Screw top vial	Amber glass	-	100	60815A1232
Screw cap	Black	-	100	73806A0425
Septum	Silicone/PTFE	-	100	073818A-10
Septum	Disposable PTFE	-	1.000	0073819-10
Insert	Flat bottom glass	400	500	060830-631
Insert	Conical bottom glass with Polyspring	300	100	060843-629
Insert	Polypropilene with Polyspring	300	100	60843P-629
Rack	50 vials, high quality of polypropilene	-	5	00C4012-25

Vials 15x45mm 4ml 13-425 thread

NATIONAL SCIENTIFIC

- Vial designed for Waters™ 4ml WISPTM.
- Superior quality 33 expansion borosilicate clear glass Type 1, Class A or 51A amber glass.
- Uniformly flat bottom for security with inserts.



60810-1545 60815-1545 60840T-639, 060841-639, 0060842A-2 73804A3425

Description	Material	Vol. (µl)	Pack (u.)	Art. No.
Screw Top vial	Transparent glass	-	100	60810-1545
Screw Top vial	Amber glass	-	100	60815-1545
Screw cap	Black polypropilene	-	100	73806A3425
Septum	Red PTFE/silicone	-	100	073818B-13
Septum	Disposable PTFE	-	1.000	073819T-13
Screw cap	Black polypropilene with PTFE septum/silicone	-	100	73804A3425
Insert	Conical bottom glass	300	100	60840T-639
Insert	Conical bottom glass with Top spring	300	100	060841-639
Spring	-	-	100	0060842A-2
Rack	50 positions, polypropilene	-	5	00C4015-25

8x40mm 1ml shell vial kit with polyethylene SepCap

NATIONAL SCIENTIFIC

- Original 1ml shell vial for the Waters™ 96-position tray.
- Manufactured from superior quality borosilicate glass.
- Polyethylene SepCap with starburst center design eases syringe needle penetration.



00C4015-96, 00C4015-99

Description	Material	Pack (u.)	Art. No.
Vial and cap	Transparent glass	200	00C4015-96
Vial and cap	Amber glass	200	00C4015-99
Vial and cap	Polypropilene	100	60832P-840
Vial and cap	Polypropilene	100	060749-840
Insert	Conical bottom glass with Polyspring	100	60840K-529

For further information, please contact scharlab@scharlab.com


Crimp top vials for headspace
NATIONAL SCIENTIFIC

National Scientific headspace vials are manufactured to provide uniform glass thickness which insures even heat distribution for consistent sampling reliability. All National Scientific headspace vials meet or exceed OEM instrument manufacturer's specifications. National Scientific Headspace vials are available in 6mL, 10mL, 20ml and 27ml versions. Use Tin plate seals with magnetic pick autosamplers. Pressure release seals are designed to open when internal pressures exceed 3.0±0.5 bar, protecting equipment during analysis of highly volatile samples. Flat bottom vials are used for Agilent and Carlo Erba autosamplers. Those with conical bottom are specific for Perkin-Elmer, Tekmar and Varian/Bruker.

- PTFE/rubber septum are resistant to solvents and within a temperature range from -40°C to +100°C.
- PTFE/silicone septum is an excellent option for volatiles. Great chemical compatibility. Suggested temperatures from -60°C to +200°C.
- PTFE/molded gray butyl septum have a central part made of PTFE and an external part of butyl. The central part provides chemical compatibility and the external better sealing and adaptation. Temperature range goes from -20°C to +125°C.



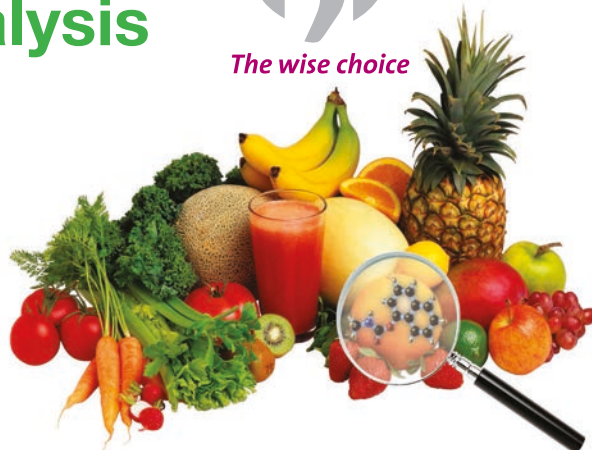
Description	Material	Pack (u.)	Art. No.
Vial 6ml 22x38mm	Transparent glass flat bottom	1.000	00C4020-60
Vial 10ml 23x46mm	Transparent glass flat bottom	100	00C4020-10
Vial 20ml 23x75mm	Transparent glass flat bottom	100	60827T2375
Vial 10ml 23x46mm	Transparent glass round bottom	100	60827A2346
Vial 20ml 23x75mm	Transparent glass round bottom	100	60827A2375
Seal closure	Aluminum center hole	1.000	00C4020-3A
Seal closure	Magnetic, gold with central hole	1.000	00C4020-3M
Seal closure	Center Tab Tear-Off, silver	1.000	00C4020-5A
Seal closure	Pressure Release, silver	1.000	00C4020-6A
Seal closure	Aluminium with PTFE septum/silicone	100	073824T-20
Seal closure	Aluminium with PTFE septum/butyl "molded"	100	0073832-20
Seal closure	Aluminium with PTFE septum/rubber	100	073834T-20
Seal closure	Aluminium with PTFE septum/silicone Pressure Release type	100	073833P-20
Seal closure	Aluminium with PTFE septum/butyl Pressure Release type	100	073832P-20
Seal closure	Aluminium with PTFE septum/rubber Pressure Release type	100	073834P-20
Seal closure	Aluminium with aluminium septum/high temperature silicone.	100	073834B-20
Septum	PTFE/rubber	100	073830A-20
Septum	PTFE/silicone	100	073831A-20
Septum	PTFE/grey butyl "molded"	100	073832A-20
Cap	Grey butyl	1.000	0073827-21
Crimper 20mm	-	1	0069901-20
Non-crimp top 20mm	-	1	0069903-20
Pliers 20mm	To non-crimp	1	0069902-20

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Consumables and reagents for pesticide residue analysis



Scharlau
 The wise choice



QuEChERS kits · GC columns
 HPLC columns · Syringes · Standards · Solvents for GC residue analysis

VIALS: Storage vials

**Storage vials
NATIONAL SCIENTIFIC**

- Storage glassware manufactured in Type 1, Class A, 33 expansion borosilicate glass or 51A amber glass.
- Capacity ranges from 2ml to 40ml.
- Provide constant pH for duration of sample storage life.
- Chemically inert caps.
- Top grade PTFE/silicone septa used for cleanliness.



60810-1545 60815-1545 73802U 73802

Description	Material	Pack (u.)	Art. No.
Vial 2ml 12x32mm, thread 8-425	Transparent glass	100	60810-1232
Vial 2ml 12x32mm, thread 8-425	Amber glass	100	60815-1232
Vial 4ml 15x45mm, thread 13-425	Transparent glass	100	60810-1545
Vial 4ml 15x45mm, thread 13-425	Amber glass	100	60815-1545
Vial 8ml 17x60mm, thread15-425	Transparent glass	200	60810-1760
Vial 8ml 17x60mm, thread 15-425	Amber glass	200	60815-1760
Vial 12ml 19x65mm, thread 15-425	Transparent glass	200	60810-1965
Vial 12ml 19x65mm, thread 15-425	Amber glass	200	60815-1965
Vial 20ml 23x85mm, thread 20-400	Transparent glass	200	60810-2385
Vial 40ml 28x95mm, thread 24-400	Transparent glass	100	000B7999-6
Vial 40ml 28x95mm, thread 24-400	Amber glass	100	000B7999-6A
Cap without hole,thread 8-425	White urea, with PTFE gasket	144	73802U8425
Cap without hole,thread 13-425	White urea, with PTFE gasket	144	73802U3425
Cap without hole, thread 15-425	White urea, with PTFE gasket	144	73802U5425
Cap without hole,thread 20-400	White urea, with PTFE gasket	144	73802U0400
Cap without hole,thread 8-425	Black phenolic, with PTFE gasket	144	73802-8425
Cap without hole, thread 13-425	Black phenolic, with PTFE gasket	144	7380213425
Cap without hole,thread 15-425	Black phenolic, with PTFE gasket	144	7380215425
Cap without hole,thread 20-400	Black phenolic, with PTFE gasket	144	7380220400
Cap without hole,thread 24-400	Polypropilene	100	000B7815-24

For further information, please contact scharlab@scharlab.com

Scharlau syringe filters



Scharlau
The wise choice

VISCOMETERS, GLASS

Cannon-Fenske viscometers for opaque liquids. ASTM D445. With calibration certificate

Made of borosilicate glass.
 Gauging and brands colourfast.
 Indicating the value of the constant at 40°C and 100°C in the documentation.

Serial num.	Approx. constant (mm ² /s)	Interval in Centistokes (mm ² /s)	Pack (u.)	Art. No.
50	0,004	0,8 to 4	1	073-001414
100	0,015	3 to 15	1	073-001416
150	0,0035	7 to 35	1	073-001417
200	0,1	20 to 100	1	073-001418
300	0,25	50 to 25	1	073-001419
350	0,5	100 to 500	1	073-001420
400	1,2	240 to 1.200	1	073-001421
450	2,5	500 to 2.500	1	073-001422
500	8	1.600 to 8.000	1	073-001423
600	20	4.000 to 20.000	1	073-001424


Cannon-Fenske viscometers for transparent liquids. ASTM D445. With calibration certificate

Made of borosilicate glass.
 Gauging and brands colourfast.
 Indicating the value of the constant at 40°C and 100°C in the documentation.

Serial num.	Approx. constant (mm ² /s)	Interval in Centistokes (mm ² /s)	Pack (u.)	Art. No.
25	0,002	0,5 to 2	1	073-001380
50	0,004	0,8 to 4	1	073-001381
75	0,008	1,6 to 8	1	073-001382
100	0,015	3 to 15	1	073-001383
150	0,0035	7 to 35	1	073-001384
200	0,1	20 to 100	1	073-001385
300	0,25	50 to 25	1	073-001386
350	0,5	100 to 500	1	073-001387
400	1,2	240 to 1.200	1	073-001388
450	2,5	500 to 2.500	1	073-001389
500	8	1.600 to 8.000	1	073-001390
600	20	4.000 to 20.000	1	073-001391


Ubbelohde viscometers. ASTM D445. With calibration certificate

Made of borosilicate glass.
 Gauging and brands colourfast.
 Indicating the value of the constant at 40°C and 100°C in the documentation.

Serial num.	Approx. constant (mm ² /s)	Interval in Centistokes (mm ² /s)	Pack (u.)	Art. No.
0C	0,003	0,6 to 3	1	073-001425
0B	0,005	1 to 5	1	073-001426
I	0,01	2 to 10	1	073-001427
IC	0,03	6 to 30	1	073-001428
II	0,1	20 to 100	1	073-001429
IIC	0,3	60 to 300	1	073-001430
III	1	200 to 1.000	1	073-001431
IIIC	3	600 to 3.000	1	073-001432
IV	10	2.000 to 10.000	1	073-001433

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WASTE

- Waste caps, *page 785*
- Waste containers, *page 787*

WASTE: Waste caps

Waste caps
SCAT

Laboratory efficiency and excellence come by avoiding potentially hazardous vapours and solvents and, also, by reducing the risk and nuisance of laboratory waste management. Safe management of waste solvents starts with the screw cap, because all of them are provided with a bore for the exhaust fumes trap (absorbent activated carbon). Trap not included. See end of table.

Thread GL 45, trap not included



Description: type, thread, complements	Connectors (mm OD)	Pack (u.)	Art. No.
Waste Cap 3 GL45 and escape	3x2,3/3,2mm (1/8")	1	1368107912
Waste Cap 2 + 1 GL45 and escape	2x2,3/3,2mm (1/8") + 1x(6,4 to 9mm)	1	1368107923
Waste Cap 4 + 1 GL45 and escape	4x2,3/3,2mm (1/8") + 1x(6,4 to 9mm)	1	1368108921
Waste Cap 1 + 1 GL45 escape, and funnel with safety piston	1x2,3/3,2mm (1/8") + 1x(6,4 to 9mm)	1	1368108149

Thread S50, trap not included



Description: type, thread, complements	Connectors (mm OD)	Pack (u.)	Art. No.
Waste Cap 3 S50 and escape	3x3,2mm (1/8")	1	1368108023
Waste Cap 2 + 1 S50 and escape	2x3,2mm (1/8") + 1x(6,4 a 9mm)	1	1368108025
Waste Cap 2 S50, escape and funnel with safety piston	2x3,2mm (1/8")	1	1368108132

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Thread S55 (equivalent 53,5mm Ø, approximately). Trap not included


Description: type, thread, complements	Connectors (mm OD)	Pack (u.)	Art. No.
Waste Cap 3 S55 and escape	3x3,2mm (1/8")	1	1368107917
Waste Cap 2 + 1 S55 and escape	2x3,2mm (1/8") + 1x(6,4 a 9mm)	1	1368107924
Waste Cap 2 S55, escape and funnel with safety piston	2x3,2mm (1/8")	1	1368108033

Liquid waste collecting systems
SCAT

Black container with visible band and Waste Cap 4 S90, exhaust and funnel with lid and stopcock. Politainer (SCAT) is a plastic and cardboard container, disposable or reusable, prepared for adapting the GL45 version Waste cap specially designed for chromatography solvents.



Black barrel with visible band



Politainer SCAT

Description: type, thread, complements	Thread size	Connectors (mm OD)	Pack (u.)	Art. No.
Black barrel with visible band	S90	4x3,2mm (1/8")	1	1368104S90
Politainer SCAT Art. No. 1368107334 of 5l + caps Art. No. 1368107912 + 1368107338 + 1368107330	GL45	-	1	1368POLI05
Politainer SCAT Art. No. 1368107335 of 10l + cap Art. No. 1368107912 + 1368107338 + 1368107331	GL45	-	1	1368POLI10

Exhaust filters
SCAT

An exhaust filter is essential in any safety cap. The mixture of activated carbon with additives avoids agglomeration and guarantees its durability. Its versatility ensures 99% retention of volatile substances.

→ Continued on the next page



Small filter

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Large filter

Description	Pack (u.)	Art. No.
Small filter for containers <5 liters. 3 months shelf life	1	1368107911
Small filters for containers <5 liters. 3 months shelf life	4	1368190911
Medium filter for containers <20 liters. 6 months shelf life	1	1368107914
Medium filters for containers <20 liters. 6 months shelf life	3	1368190914
Large filter for containers >20 liters. 9 months shelf life	1	1368107615

WASTE: Waste containers



Biosafety containers

Made of rigid polypropylene. Shock, puncture and solvent resistant. Incinerable, without residual waste. Suitable for solid waste from groups II and III. Manufactured according to ISO 9001 and approved according to ADR for transport.

Description	Dimensions (mm)	Capacity (l)	Pack (u.)	Art. No.
Oval aperture and for syringes	107x90x190	1	1	027-011000
Five types of openings for items of different sizes	195x120x170	2	1	027-012000
Five types of openings for items of different sizes	175x175x248	4	1	027-040004
Five types of openings for items of different sizes	175x175x382	7	1	027-040007



Biosafety containers with handle

Made of virgin totally incinerable materials, without residual waste. Suitable for solid waste types II and III. Complies with almost all European and international regulations (ADR;ONU).

Description	Height (mm)	Capacity (l)	Pack (u.)	Art. No.
Not autoclavable	162	2	1	027-022000
Autoclavable	172	4	1	027-024000
Autoclavable	201	6	1	027-026000
With full or partial opening of the lid	255	11	1	027-030011

For further information, please contact scharlab@scharlab.com



Wide mouth barrels for waste

Made of high density polyethylene.
Red screw top lid, with rubber joint for sealing, to avoid water or air entry.
UN-X approval for solid and pasty substances.
Approved for food, chemical and pharmaceutical products.
Cadmium and other heavy metals free.
Maximum temperature while filling: 80°C.
Resistant to -30°C.

Height (mm)	Capacity (l)	Pack (u.)	Art. No.
173	3	1	004-0K2801
265	6	1	004-007881
239	10	1	004-0L9581
328	15	1	004-007891
418	20	1	004-0L9591
426	26	1	004-007901
632	68	1	004-054591



Waste collecting buckets

Buckets made of polypropylene for waste collecting. Identification labels not included.

Description	Dim. WxHxD (cm)	Capacity (l)	Pack (u.)	Art. No.
Green bucket	40x50x40	50	1	221-VRD050
Blue bucket	40x50x40	50	1	221-ARD050
Yellow bucket	40x50x40	50	1	221-LRD050
Grey bucket	40x50x40	50	1	221-35GR50

Safety caps in [page 383](#)



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Collection station

Liquid waste collecting systems

The collecting waste station is composed of a bucket and 4 cans with a level control buoy to make correct waste management easier.



SCAT drum, 2,5l



Set of 4 drums SCAT

Description: type, thread, complements	Thread size	Pack (u.)	Art. No.
Tank for 4x10l cans, complete	4x120mm or S55	1	004-050741
Loose drum 10l white	S55	1	004-0A2511
Loose drum 10l yellow	S55	1	004-0A2521
Loose drum 10l green	S55	1	004-0A2531
Loose drum 10l blue	S55	1	004-0A2541
SCAT PEHD drum, 2,5l	GL45	1	1368107950
SCAT PEHD drum, 5l	GL45	1	1368107951
SCAT PEHD drum, 10l	GL45	1	1368107952
SCAT PEHD drum, 5l	S55	1	1368107957
SCAT container 5l + Art. No. 1368107923 + Art. No. 1368107911	GL45	1	1368107307
SCAT container 5l + Art. No. 1368108025 + Art. No. 1368107911	S50	1	1368107328
2 containers before Art. No. + support Art. No. 1368199050	S50	1	13681K7998



Trash/rubbish bag rolls

Trash/rubbish bag rolls.

Description	Dimensions (cm)	Pack (u.)	Art. No.
Gauge 90	52x60	25x1	80088-9000
Gauge 150	85x105	10x1	80090-1500

For further information, please contact scharlab@scharlab.com

WEIGHING ELEMENTS: watch glasses, weighing bottles, weighing funnels...

**Watch glasses, soda, fused edges, DIN 12431
SCHARLAU**

Ø (mm)	Pack (u.)	Art. No.
40	1	038-182040
50	1	038-182050
60	1	038-182060
70	1	038-182070
80	1	038-182080
100	1	038-182100
120	1	038-182120
150	1	038-182150
200	1	038-182200
40	10	0381182040
50	10	0381182050
60	10	0381182060
70	10	0381182070
80	10	0381182080
100	10	0381182100
120	10	0381182120
150	10	0381182150
200	10	0381182200


**Weighing bottles external lid
SCHARLAU**

Borosilicate glass 3.3. Column Dim. ØxH (mm) refers to complete weighing aid dimensions.

Description	Dim. ØxH (mm)	Pack (u.)	Art. No.
Complete	24x35	1	073-000841
Interchangeable lid. Female: 24/10	24x35	1	073-000842
Body, 35mm length. Male: 24/10	24x35	1	073-000843
Complete	28x35	1	073-000844
Interchangeable lid. Female: 29/10	28x35	1	073-000845
Body, 35mm length. Male: 29/10	28x35	1	073-000846
Complete	44x40	1	073-000847
Interchangeable lid. Female: 45/12	44x40	1	073-000848
Body, 40mm length. Male: 45/12	44x40	1	073-000849
Complete	54x40	1	073-000850
Interchangeable lid. Female: 55/15	54x40	1	073-000851
Body, 40mm length. Male: 55/15	54x40	1	073-000852

Balances in page 801



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Weighing bottles internal lid SCHARLAU

Borosilicate glass 3.3. Column Dim. ØxH (mm) refers to complete weighing bottle dimensions.

Description	Dim. ØxH (mm)	Pack (u.)	Art. No.
Complete	28x30	1	073-000829
Interchangeable lid. Male: 29/10	28x30	1	073-000830
Body, 35mm length. Female: 29/10	28x30	1	073-000831
Complete	44x40	1	073-000832
Interchangeable lid. Male: 40/12	44x40	1	073-000833
Body, 40mm length. Female: 40/12	44x40	1	073-000834
Complete	50x40	1	073-000835
Interchangeable lid. Male: 45/12	50x40	1	073-000836
Body, 40mm length. Female: 45/12	50x40	1	073-000837
Complete	60x40	1	073-000838
Interchangeable lid. Male: 55/12	60x40	1	073-000839
Body, 40mm length. Female: 55/12	60x40	1	073-000840



Weighing funnels SCHARLAU

Cap. (ml)	Ø Stem (mm)	Pack (u.)	Art. No.
3	7	1	073-000853
6	10	1	073-000854
10	12	1	073-000855
20	12	1	073-000856
50	12	1	073-000857



Aluminium weighing dish

Ø (mm)	Pack (u.)	Art. No.
56	500	0BP1200056
72	500	0BP1200072
93	500	1BP1200093



Aluminium weighing boats

Length (mm)	Width (mm)	Pack (u.)	Art. No.
70	32	1	1281000B0C
90	32	1	1281100B0C
105	32	1	1281200B0C

For further information, please contact scharlab@scharlab.com



Aluminium foils

Aluminium foils, one side bright and one side matt.

Thickness (mm)	Width (mm)	Length (m)	Pack (u.)	Art. No.
0,013	300	100	1	0000060071
0,015	300	150	1	0000060100
0,013	400	300	1	064-040300

Supports

Foil width (mm)	Pack (u.)	Art. No.
300	1	0000A-1150
450	1	0000A-1151



Clear film foils

Clear film foils.

Width (mm)	Length (m)	Pack (u.)	Art. No.
325	20	1	0000122115



PARAFILM®

Width (cm)	Length (m)	Pack (u.)	Art. No.
50	15	1	022-701501
10	38	1	022-701605
10	75	1	022-701606
5	75	1	022-701611

Dispenser

Description	Pack (u.)	Art. No.
Dispenser with knife	1	022-701650

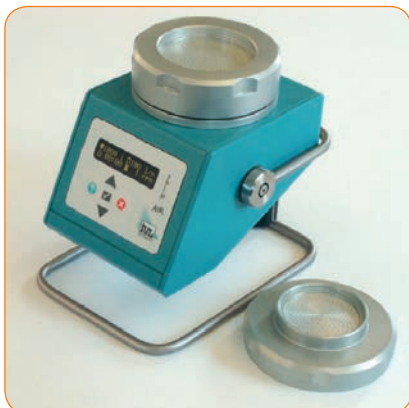
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AIR SAMPLERS



Air samplers Spin Air IUL

Spin Air samplers grant users a compact, portable, simple solution to air sampling. Accuracy and precision-enhancing Spin technology enables Spin Air samplers to outperform the accuracy of other air sampling systems.

- Spin technology enhances air sampling accuracy, precision and resolution even when sampling in mid / highly contaminated environments (particularly useful for GMP Grade C and D clean-rooms and regular environment sampling). This sampling technology uses 100% of the Petri plate agar surface to plate microorganisms.

- Compact and portable, they can be attached to a tripod for adequate sampling direction.

- Comply with USP 797 & 1116 regulations. DQ, IQ and OQ documentation will be supplied with the device.

- Full traceability: LIMS friendly data records, printer connectivity, and barcode reader compatibility all enable full sampling traceability.

SPIN AIR: Spin technology for precision, accuracy and resolution enhancement. Full sampling traceability. LIMS connectivity. Use a barcode reader for quick sample and operator identification. Allows for duplicate sampling when connected to a Slave unit.

SPIN AIR SLAVE: Spin, technology for precision, accuracy and resolution enhancement. All the advantages of the Spin Air main unit to which it must be connected to operate.

SPIN AIR BASIC: Spin, technology for precision, accuracy and resolution enhancement. Very affordable cost.

BASIC AIR: Regular static Andersen air sampler. Extremely friendly to low budgets.

Technical data

- Air flow: 100 l/m (90mm plate) - 60 l/m (Rodac plate). Controlled by microprocessor.
- Air Total Volume: 10-9900 l
- Delay to Start: 60 minutes, divided in seconds.
- Rotation Speed: 0,1,2,3 and 4 rpm.
- Tripod thread: At the bottom.
- Communication: RS232C to PC/Printer.
- Format Communication: XML, CSV.
- Bar-code connection: With IUL bar-code device.
- Switching adapter: 100-240V AC 50/60 Hz 12V CC 15W
- Battery Pack: Ni metal Hydride 7,2V
- Range: 8 hours full charge (without Slave) - decreasing with aging.
- Weight: 1.7Kg Spin Air - 1.3Kg Spin Air Slave - 2.2Kg Carrying case

Model	Weight (Kg)	Pack (u.)	Art. No.
Spin Air , for 90mm Petri dishes with carrying case and switching adapter	1,7	1	0090005500
Spin Air Slave, for 90mm Petri dishes with carrying case and connection cable	1,3	1	0090005502
Spin Air Basic, for 90 mm Petri dishes	1,35	1	0090005532
Basic Air, for 90 mm Petri dishes	1	1	0090005533

Accessories

Model	Pack (u.)	Art. No.
Set for 90mm Petri dishes (holder and cover)	1	0090005504
Set for 60mm Rodac plates (holder and cover)	1	0090005505
Cable for PC/Printer communication	1	0090005510
Tripod	1	0090005511
Bar-code reader	1	0090005700

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AUTOCLAVES

- Control by microprocessor, *page 795*
- Electronic controller, *page 796*
- Pressure regulated thermostat, *page 796*
- Accessories and complements, *page 797*

AUTOCLAVES: Control by microprocessor



Autoclaves Autester

J.P. SELECTA

Versatile autoclaves. B class bench top models also included (Autester ST DRY PV) suitable for sterilizing material in contact with blood. Power supply: 230 V.

Model	Drying cycle	Cap. (l)	Temp. (°C)	Pressure (bar)	Consumption	Regulation	Position	Weight (Kg)	Dim. HxWxD (cm)	Pack (u.)	Art. No.
Autester P 1,5	No	1,5	105-121 and 134	0,21-1 and 2	1100	Microprocessor	Desktop vertical	17,2	34x20x45	1	0194001726
Autester ST DRY PV-B 12	Yes	12	121-134	1 and 2	1800	Microprocessor	Desktop horizontal	42,2	39,2x48,7x60	1	0194001727
Autester ST DRY PV-B 18	Yes	18	121-134	1 and 2	1800	Microprocessor	Desktop horizontal	46,6	49,5x46x60	1	0194001728
Autester ST DRY PV-B 23	Yes	23	121-134	1 and 2	2300	Microprocessor	Desktop horizontal	48	49,5x55x76	1	0194001731
Autester ST DRY PV-II 25	Yes	25	105-134	0,21 to 2	2510	Microprocessor	Desktop horizontal	52	48x46x55	1	0194002415
Autester ST DRY PV-II 50	Yes	50	105-134	0,21 to 2	3600	Microprocessor	Vertical	108	117x48x62	1	0194002515
Autester ST DRY PV-II 80	Yes	80	105-134	0,21 to 2	3600	Microprocessor	Vertical	136	107x58x72	1	0194002425
Autester ST DRY PV-II 150	Yes	150	105-134	0,21 to 2	7500	Microprocessor	Vertical	250	118x80x95	1	0194002426

For further information, please contact scharlab@scharlab.com

AUTOCLAVES: Electronic controller

**Autoclaves Presoclave II
J.P. SELECTA**

Automatic regulation of temperature. Heater element made of hard waring, resistant to corrosion and high temperatures stainless steel. Automatic atmospheric purge. Power supply: 230 V

Model	Drying cycle	Cap. (l)	Temp. (°C)	Pressure (bar)	Consumption	Regulation	Position	Weight (Kg)	Dim. HxWxD (cm)	Pack (u.)	Art. No.
Presoclave II 50	No	50	115-134	0,62 to 2	3600	Electronical	Vertical	75	117x48x62	1	0194001725
Presoclave II 80	No	80	115-134	0,62 to 2	3600	Electronical	Vertical	100	107x58x72	1	0194002136

AUTOCLAVES: Pressure regulated thermostat

**Semiautomatic autoclaves MICRO 8, MED 12 and MED 20
J.P. SELECTA**

External case, top and heater element made of stainless steel. Safety device to prevent lid opening. It comes with a stainless steel wire basket. Power supply: 230 V.

MED 12

Model	Drying cycle	Cap. (l)	Temp. (°C)	Pressure (bar)	Consumption	Regulation	Position	Weight (Kg)	Dim. HxWxD (cm)	Pack (u.)	Art. No.
Micro 8	No	8	121-134	1 and 2	1000	Pressure	Desktop Vertical	13	40x38x38	1	0194001745
Med 12	No	12	121-134	1 and 2	1800	Pressure	Desktop Vertical	18	46x38x38	1	0194001756
Med 20	No	20	121-134	1 and 2	2500	Pressure	Vertical	41	70x38x38	1	0194001757

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AUTOCLAVES: Accessories and complements



**Bags for autoclave sterilization, PP
DELTALAB**

Printed with the biohazard graphic symbol and instructions of use in five languages. Do not close the bags hermetically when placing them in the autoclave.

Dim. WxH (cm)	Thickness (μ)	Pack (u.)	Art. No.
50x75	30	100	027-200100
30x60	35	500	027-200310
40x75	40	300	027-200311
60x75	40	200	027-200312
75x90	40	100	027-200318



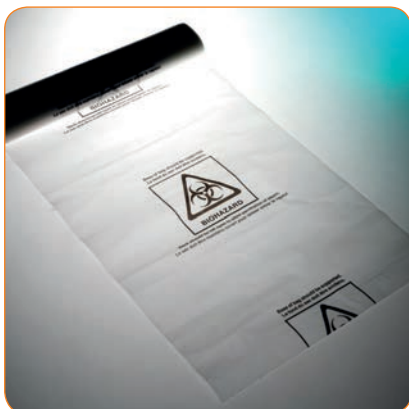
**Autoclave resistant bags PP
DELTALAB**

Bags printed with the standard biohazard warning symbol and precautionary procedures. Autoclavable to 138°C. They feature a sterilization indicator patch that darkens when exposed to steam sterilization. Do not close the bags hermetically when placing them in the autoclave.

Dim. WxH (cm)	Volume (l)	Pack (u.)	Art. No.
48x58	24,4	200	027-200320
65x91	75,1	200	027-200321
78x96	121	200	027-200322

**Autoclavable bags
GOSSELIN SAS**

Made of PP or HDPE. Do not close the bags hermetically when placing them in the autoclave.



SA03-05

Volume (l)	Dim. WxH (cm)	Thermal resist. (°C)	Material	Pack (u.)	Art. No.
3	40x25,5	134°C	PP	500	630-SA0301
9	50x30	134°C	PP	500	630-SA0901
14	60x40	134°C	PP	500	630-SA1401
21	78x40	134°C	PP	500	630-SA2101
33	78x60	134°C	PP	500	630-SA3301
3	40x25,5	121°C	HDPE	1.000	630-SA0305
9	50x30	121°C	HDPE	750	630-SA0905
14	60x40	121°C	HDPE	450	630-SA1403
21	78x40	121°C	HDPE	400	630-SA2105
33	80x50	121°C	HDPE	500	630-SA3303

For further information, please contact scharlab@scharlab.com


PT100 Sensor
J.P. SELECTA

PT100 sensor to guarantee in all circumstances that the system has completed the cycle to the set time and temperature.
 For models Presoclave II and Autester ST DRY PV-II. (Needs to be factory fitted in the ordered model).

Description	Pack (u.)	Art. No.
PT100 Sensor	1	0194001219

Thermal printer
J.P. SELECTA

Continuous paper roll with print out of temperature, pressure, time and mode.
 (Needs to be factory fitted in the ordered model).

Description	Pack (u.)	Art. No.
Thermal printer	1	0194002417


Stainless steel wire baskets
J.P. SELECTA

For vertical autoclaves.

For models	Pack (u.)	Art. No.
For Micro and Med autoclaves, 22 Øx14 high (cm)	1	0191004771
For Micro and Med autoclaves, 22 Øx24 high (cm)	1	0191004772
For autoclaves 0194001725 - 0194002515, 22,5 Øx20 high (cm)	1	0191000495
For autoclaves 0194002136 - 0194002425, 36 Øx28 high (cm)	1	0191000496
For Autester autoclave 150I, 44,5 Øx22 high (cm)	1	0191000780

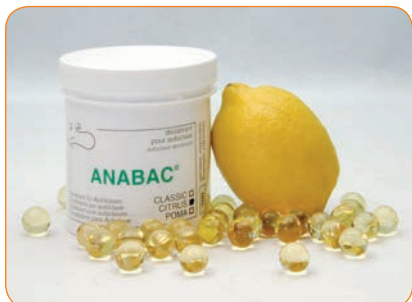

Stainless steel wire dividers
J.P. SELECTA

For models	Compartment dividers	Pack (u.)	Art. No.
4 compartments, for basket: 0191000495	4	1	0191001217
6 compartments, for basket: 0191000496	6	1	0191001218
7 compartments, for basket: 0191000780	7	1	0191001222


Containers for pipette sterilization

Description	Pack (u.)	Art. No.
AlSI 304 Stainless steel. HeightxØ (mm): 400x72	1	0191000829
AlSI 304 Stainless steel. HeightxØ (mm):400x130	1	0191001126
Borosilicate glass and GL45 screw cap. Ideal for sterile Pasteur pipettes. HeightxØ (mm): 250x40	1	073-0Q4103
Borosilicate glass and GL45 screw cap.HeightxØ (mm): 330x40	1	073-0Q5500

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Autoclave deodorants ANABAC

It eliminates the bad smells due to autoclaving in the lab and provides a nice perfume for great work comfort. 100% natural. Melts without leaving residue and has no effect on the disinfection process of the autoclave. 100% biodegradable. Single use only.
 Dosage: 1 capsule per autoclaving cycle up to 200 liters.
 Presentation: sealed pot with 100 spherical capsules.

Classic: mint and eucalyptus fragrance. Well perfumed. All applications.
 Poma: apple fragrance. Sweet perfume. Food industry.
 Citrus: lemon fragrance. Sweet perfume. Food industry.
 Floral: flower fragrance. Well perfumed. All applications.
 Peach: peach fragrance. Well perfumed. All applications.

Description	Pack (u.)	Art. No.
Autoclave deodorant ANABAC®-Poma	100	603-000001
Autoclave deodorant ANABAC®-Classic	100	603-000002
Autoclave deodorant ANABAC®-Citrus	100	603-000005
Autoclave deodorant ANABAC®-Floral	100	603-000013
Autoclave deodorant ANABAC®-Peach	100	603-000014

Torpedo deodorant

Description	Pack (u.)	Art. No.
Torpedo deodorant	200	1128-25998



Sterilization bags (peelable)

Multilayer plastic film with a clear side with great resistance which enables opening without tearing. White kraft paper with high resistance to moisture which performs well under steam sterilization cycles. They include an indicator which changes colour when the sterilization cycle is carried out correctly.

Medical grade paper:

- Bleached pure cellulose
- Sterilization resistant
- Biological barrier

Plastic film:

- Composed of 2 single sheets
- Film with great resistance to wearing that improves peelability

Permanent ink:

- For steam and ethylene oxide sterilization
- Printed on the film interleaf so they can not leave toxic residues

Conform to norm EN-687-1 for A class process controls.

Conform to European norms regarding containers for sterilization EN-686-5 and EN-868-1.

Dim. WxH (mm)	Pack (u.)	Art. No.
75x250	1.200	0011007525
100x250	1.000	0011001025
100x300	1.000	0011001030
150x300	1.000	0011001530
210x350	1.000	0011002135
250x380	1.000	0011002538
320x500	500	0011003250



Sterilization bags (adhesive)

Same characteristics as the mixed peelable bags but easily sealed using an adhesive strip. Do not require a sealing machine. Ideal for users with low consumption. For steam sterilization or for ethylene oxide sterilization.

Dim. WxH (mm)	Pack (u.)	Art. No.
90x230	1.000	00AA009023
133x245	1.000	00AA001325
133x356	1.000	00AA001333
190x330	1.000	00AA002033
305x390	500	00AA003039

For further information, please contact scharlab@scharlab.com



Portable sealer 150-C for bags

Plastic sealer, PE, PP and thermoplastic material such as cellophane, Aluminium covered paper and craft paper up to 0,6mm thickness. Easy to use pressure clamp. Parallel seal for both sides of the bag. Superior heaters covered in PTFE that produce a parallel hermetic seal. Two temperature selection switch 120°C and 180°C.

Description	Pack (u.)	Art. No.
Portable sealer 150-C for bags	1	0195800038



Bag sealer S-400

Suitable for sealing polypropylene-polyester sterilizing bags with a paper base. Metal epoxy covered case. Pressure sealer. Manual cut. Stainless steel AISI 304 reel support at the back. Illuminated mains switch. Lamp "ON" when the thermostat has reached the pre-set working temperature. Power supply: 230 V.

Description	Pack (u.)	Art. No.
Bag sealer S-400	1	0194100041



027-19122

027-191223

Sterilization indicator tapes

Self-adhesive, the stick on different surfaces (plastic, metal, fabrics, cardboard, etc). They change its colour when sterilization process has been completed.

Application	Dim. HxW	Sterility indication	Pack (u.)	Art. No.
Ethylene oxide	50mx19mm	Word GAS from brown to green	1	027-191050
Dry head	50mx19mm	Brands green to brown	1	027-191051
Steam autoclave	50mx19mm	Lines white to brown	1	425-010528
Steam autoclave	13mx19mm	Appears the word STERILIZED	1	027-191222
Steam autoclave	13mx19mm	Appears the word STERILIZED	1	027-191223

Bio-Sel detergent

Specific for cleaning and maintenance of autoclaves. Biodegradable and phosphate free.

Description	Volume (l)	Pack (u.)	Art. No.
Bio-Sel detergent	1	1	0191000025
Bio-Sel detergent	4	1	0191000026

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AUTOMATIC TITRATORS



KF Titrator

Karl Fischer Titrators CRISON

Simple, accurate and adaptable systems for multiple chemical, food and drink laboratory applications. Ready for Karl-Fischer titration. Autocalibration burette and open programmes on standard mode or titrator mode. Power supply: 230 V.

KF Series

Model	Sample volume (ml)	Pack (u.)	Art. No.
KF 1S with 1 piston and 1 burette	Variable	1	058-008670
KF 2B, with 1 piston, 2 pumps and 1 burette	Variable	1	058-008671
KF 2S2B with 2 pistons and 2 burettes	Variable	1	058-008672

BALANCES



CM

Pocket balances CM KERN

Practical balance with hard case cover.
 - Hard case cover as protection against pressure and dust
 - Integrated calculator

Technical data:

- Standard batteries (2 x 1,5V AAA)
- Dimensions of weighing plate WxD 70x80mm
- Overall dimensions WxHxD 85x25x130mm
- Aprox. net weight 180g

Model	Readability (g)	Capacity (g)	Pack (u.)	Art. No.
CM 60-2N	0,01	60	1	315CM60-2N
CM 150-1N	0,1	150	1	315CM1501N
CM 320-1N	0,1	320	1	315CM3201N
CM 1K 1N	1	1.000	1	315-CM1K1N

For further information, please contact scharlab@scharlab.com



EMB plate 150mm

Precision balances EMB KERN

Entry level laboratory balance with tremendous weighing performance.

- Ready for use: Batteries included, 9V, operating time approx. 12 h.
- AUTO-OFF function to preserve the battery, can be switched off
- Tare function facilitates formulation work
- Particularly flat design
- Secure and non-slip positioning with rubber feet

Technical data:

- Large LCD display, digit height 15mm
- Dimensions of weighing plate (plastic): 82mm, 105mm, 150mm
- Overall dimensions WxDxH 170x240x39mm
- Net weight approx. 0,5kg
- Permissible ambient temperature 5°C / 35°
- Power supply: 220-240 V

Available accessories like draft shield or mains adapter external are detailed below.
Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.

Model	Readability (g)	Capacity (g)	Reproducibility (g)	Linearity (g)	Plate (mm)	Calibration	Optional cert.	Pack (u.)	Art. No.
EMB 100-3	0,001	100	0,001	±0,003	82	External	315-963127	1	00EMB100-3
EMB 200-2	0,01	200	0,01	±0,02	105	External	315-963127	1	00EMB200-2
EMB 200-3	0,001	200	0,001	±0,003	82	External	315-963127	1	00EMB200-3
EMB 600-2	0,01	600	0,01	±0,03	105	External	315-963127	1	00EMB600-2
EMB 1000-2	0,01	1.000	0,01	±0,03	150	External	315-963127	1	0EMB1000-2
EMB 2000-2	0,01	2.000	0,01	±0,03	150	External	315-963127	1	0EMB2000-2
EMB 500-1	0,1	500	0,1	±0,2	150	External	315-963127	1	00EMB500-1
EMB 1200-1	0,1	1.200	0,1	±0,3	150	External	315-963127	1	0EMB1200-1
EMB 2200-0	1	2.200	1	±2	150	External	315-963127	1	0EMB2200-0
EMB 3000-1	0,1	3.000	0,1	±0,3	150	External	315-963127	1	0EMB3000-1
EMB 6000-1	0,1	6.000	0,1	±0,3	150	External	315-963128	1	0EMB6000-1
EMB 5.2K1	1	5.200	1	±3	150	External	315-963128	1	315EMB52K1
EMB 5.2K5	5	5.200	5	±10	150	External	315-963128	1	315EMB52K5

**Weighing elements
in page 790**



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**Precision balances PCB
KERN**

The standard in the laboratory.

Features:

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar
- Ring-shaped draft shield standard, only for models with weighing plate size 81mm, weighing space ØxH 90x40mm

Technical data:

- Backlit LCD display, digit height 15mm
- Dimensions of weighing plate (stainless steel*): 81mm, 105mm, 130x130mm, 150x170mm
- Optional battery operation, 9V, not included. AUTO-OFF function to preserve the battery, can be switched off
- Overall dimensions (without draft shield) WxDxH: 163x245x79mm
- Net weight approx. 1,1kg
- Permissible ambient temperature 5°C / 35°C
- Power supply: 220-240 V

Available accessories like printer or working cover or hook for underfloor weighing are detailed below.
Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.



PCB plate 105mm



PCB plate 150x170mm

Model	Readability (g)	Capacity (g)	Reproducibility (g)	Linearity (g)	Plate (mm)	Calibration	Min. piece weight (counting) g/piece	Optional cert.	Pack (u.)	Art. No.
PCB 100-3	0,001	100	0,001	±0,003	81	External	0,002	315-963127	1	00PCB100-3
PCB 250-3	0,001	250	0,001	±0,003	81	External	0,002	315-963127	1	00PCB250-3
PCB 350-3	0,001	350	0,002	±0,004	81	External	0,002	315-963127	1	00PCB350-3
PCB 200-2	0,01	200	0,01	±0,02	105	External	0,02	315-963127	1	00PCB200-2
PCB 1000-2	0,01	1.000	0,01	±0,03	130x130	External	0,02	315-963127	1	0PCB1000-2
PCB 2500-2	0,01	2.500	0,01	±0,03	130x130	External	0,02	315-963127	1	0PCB2500-2
PCB 3500-2	0,01	3.500	0,02	±0,04	130x130	External	0,02	315-963127	1	0PCB3500-2
PCB 1000-1	0,1	1.000	0,1	±0,2	130x130	External	0,2	315-963127	1	0PCB1000-1
PCB 2000-1	0,1	2.000	0,1	±0,2	130x130	External	0,2	315-963127	1	0PCB2000-1
PCB 6000-1	0,1	6.000	0,1	±0,3	150x170	External	0,2	315-963128	1	0PCB6000-1
PCB 10000-1	0,1	10.000	0,1	±0,3	150x170	External	0,2	315-963128	1	PCB10000-1
PCB 6000-0	1	6.000	1	±2	150x170	External	2	315-963128	1	0PCB6000-0

For further information, please contact scharlab@scharlab.com

Precision balances 440

KERN

The bestseller in basic laboratory balances.

Features:

- Ring-shaped draft shield standard, only for models with weighing plate size 81mm, weighing space ØxH 90x40mm

Technical data:

- Backlit LCD display, digit height 15mm
- Dimensions of weighing plate (stainless steel*): 81mm, 105mm*, 130x130mm*, 150x170mm*
- Optional battery operation, 9V, not included. AUTO-OFF function to preserve the battery, can be switched off
- Overall dimensions (without draft shield) WxDxH: 165x230x80mm
- Net weight approx. 1kg
- Permissible ambient temperature 5°C / 35°C
- Power supply: 220-240 V

Available accessories like printer, rechargeable battery pack internal or protective working cover are detailed below. Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.



440 plate 81mm



440 plate 150x170mm

Model	Readability (g)	Capacity (g)	Reproducibility (g)	Linearity (g)	Plate (mm)	Calibration	Min. piece weight (counting) g/piece	Optional cert.	Pack (u.)	Art. No.
440-21A	0,001	60	0,001	±0,003	81	External	0,002	315-963127	1	315440-21A
440-33N	0,01	200	0,01	±0,2	105	External	0,02	315-963127	1	031544033N
440-35N	0,01	400	0,01	±0,03	105	External	0,02	315-963127	1	031544035N
440-35A	0,01	600	0,01	±0,03	105	External	0,02	315-963127	1	315-44035A
440-43N	0,1	400	0,1	±0,2	130x130	External	0,2	315-963127	1	315-44043N
440-45N	0,1	1.000	0,1	±0,2	130x130	External	0,2	315-963127	1	031544045N
440-47N	0,1	2.000	0,1	±0,2	130x130	External	0,2	315-963127	1	031544047N
440-49N	0,1	4.000	0,1	±0,3	150x170	External	0,2	315-963127	1	031544049N
440-49A	0,1	6.000	0,1	±0,3	150x170	External	0,2	315-963128	1	315-44049A
440-51N	1	4.000	1	±2	150x170	External	2	315-963127	1	315440-51N
440-53N	1	6.000	1	±2	150x170	External	2	315-963128	1	315-44053N

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**Precision balances KB
KERN**

Convenient model at a basic price, also with EC-Type Approval (M).

Features:

- User guidance step by step through Yes/ No dialogue on the display
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar
- Ring-shaped draft shield standard, only for models with weighing plate sizes 81mm, weighing space ØxH 90x40mm

Technical data:

- Backlit LCD display, digit height 9mm
- Dimensions of weighing plate (stainless steel*): 81mm, 130x130mm*, 150x170mm*
- Overall dimensions (without draft shield) WxDxH: 167x250x123mm
- Net weight approx. 1,1kg
- Permissible ambient temperature KB-N: 10°C / 40°C, KB-NM: 15°C / 30°C
- Power supply: 100-240 V

Available accessories like printer, rechargeable battery pack internal or protective working cover are detailed below. Optional DKD calibration certificate is available. It must be requested on the same order along with the balance. Models with optional verification, must also be requested on the same order along with the balance.



KB plate 81mm



KB plate 150x170mm

Model	Readability (g)	Capacity (g)	Reproducibility (g)	Linearity (g)	Plate (mm)	Calibration	Optional cert.	Verification value (g)	Verification option	Pack (u.)	Art. No.
KB 120-3N	0,001	120	0,001	±0,003	81	External	315-963127	-	-	1	00KB120-3N
KB 240-3N	0,001	240	0,001	±0,003	81	External	315-963127	-	-	1	00KB240-3N
KB 360-3N	0,001	360	0,001	±0,005	81	External	315-963127	-	-	1	00KB360-3N
KB 1200-2N	0,01	1.210	0,01	±0,03	130x130	External	315-963127	-	-	1	0KB1200-2N
KB 2000-2N	0,01	2.010	0,01	±0,03	130x130	External	315-963127	-	-	1	0KB2000-2N
KB 2400-2N	0,01	2.410	0,01	±0,03	130x130	External	315-963127	-	-	1	0KB2400-2N
KB 3600-2N	0,01	3.610	0,01	±0,05	130x130	External	315-963127	-	-	1	0KB3600-2N
KB 10K0.05N	0,05	10.100	0,05	±0,15	150x170	External	315-963128	-	-	1	KB10K0.05N
KB 10000-1N	0,1	10.100	0,1	±0,3	150x170	External	315-963128	-	-	1	KB10000-1N
KB 650-2NM	0,01	650	0,001	±0,03	130x130	External	315-963127	0,1	Optional (950-116)	1	0KB650-2NM
KB 6500-1NM	0,1	6.500	0,1	±0,2	150x170	External	315-963128	1	Optional (950-117)	1	KB6500-1NM

For further information, please contact scharlab@scharlab.com

Precision balances PKP

KERN

Robust laboratory and industrial scales with graphics display.

Features:

- The key to success in the laboratory, KERN 572, now also with clear graphics display
- Weighing with tolerance range (checkweighing): a visual signal helps with portion division, dispensing or grading
- 40 memories for each mode
- Robust metal housing, ensures stability, protects the weighing technology elements and is robust enough to cope with everyday use

Functions:

- Capacity display
- Dispensing assistance (subtractive, additive)
- Piece counting with reference
- Automatic reference optimisation
- Tare deduction from the memory unit
- Input of item or batch description, operator etc.
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar
- Date/time
- Individual printout configuration

Technical data:

- Backlit Graphic LCD display, screen diagonal 3,2" (approx. 81mm)
- Dimensions of weighing plate (stainless steel): 106mm, 150mm, 160x200mm
- Overall dimensions WxDxH: 180x310x90mm
- Approx. net weight 2,3kg (except those who admit more than 12Kg of weighing, which weight 2,7Kg)
- Permissible ambient temperature 10°C / 40°C
- Power supply: 100-240 V

Available accessories like printer, draft shield, rechargeable battery pack internal or protective working cover are detailed below. Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.



PKP plate 106mm



PKP plate 150mm



PKP plate 160x200mm

Model	Readability (g)	Capacity (g)	Reproducibility (g)	Linearity (g)	Plate (mm)	Calibration	Min. piece weight (counting) g/piece	Optional cert.	Pack (u.)	Art. No.
PKP 300-3	0,001	300	0,002	±0,005	106	External	0,001	315-963127	1	00PKP300-3
PKP 420-3	0,001	420	0,002	±0,005	106	External	0,001	315-963127	1	00PKP420-3
PKP 3000-2	0,01	3.010	0,02	±0,05	150	External	0,01	315-963127	1	0PKP3000-2
PKP 4200-2	0,01	4.210	0,02	±0,05	150	External	0,01	315-963127	1	0PKP4200-2
PKP 12K0.05	0,05	12.100	0,05	±0,15	160x200	External	0,05	315-963128	1	PKP12K0.05
PKP 16K0.1	0,1	16.100	0,1	±0,3	160x200	External	0,1	315-963128	1	0PKP16K0.1
PKP 24K0.1	0,1	24.100	0,1	±0,3	160x200	External	0,1	315-963128	1	0PKP24K0.1

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EG plate 180x160mm

- Power supply: 220-240 V

Available accessories like printer, draft shield, rechargeable battery pack internal or protective working cover are detailed below. Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.

Model	Readability (g)	Capacity (g)	Reproducibility (g)	Linearity (g)	Plate (mm)	Calibration	Optional cert.	Verification value (g)	Verification option	Pack (u.)	Art. No.
EG 220-3NM	0,001	220	0,001	±0,002	118	Internal	315-963127	0,01	Yes	1	0EG200-3NM
EG 420-3NM	0,001	420	0,001	±0,003	118	Internal	315-963127	0,01	Yes	1	00EG4203NM
EG 620-3NM	0,001	620	0,001	±0,004	118	Internal	315-963127	0,01	Yes	1	00EG6203NM
EG 2200-2NM	0,01	2.200	0,01	±0,01	180x160	Internal	315-963127	0,1	Yes	1	EG2200-2NM
EG 4200-2NM	0,01	4.200	0,01	±0,02	180x160	Internal	315-963127	0,1	Yes	1	EG420002NM



ABS-ABJ

- Permissible ambient temperature 10°C / 30°C
 - Net weight approx. 6kg
 - Power supply: 110-230 V

Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: Steady weight values within approx. 3 sec under laboratory conditions
- Shock proof construction
- High corner load performance

Available accessories like printer, interface RS232C or ionizer are detailed below.

Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.

Model	Readability (mg)	Capacity (g)	Reproducibility (mg)	Linearity (mg)	Min. load (mg)	Optional cert.	Verification value (mg)	Verification option	Calibration	Pack (u.)	Art. No.
ABS 80-4N	0,1	80	0,2	±0,3	-	315963-101	-	-	External	1	00ABS80-4N
ABS 120-4N	0,1	120	0,2	±0,3	-	315963-101	-	-	External	1	0ABS120-4N
ABS 220-4N	0,1	220	0,2	±0,3	-	315963-101	-	-	External	1	0ABS220-4N
ABS 320-4N	0,1	320	0,2	±0,3	-	315963-101	-	-	External	1	0ABS320-4N
ABJ 120-4NM	0,1	120	0,2	±0,3	10	315963-101	1	Optional (315-950101)	Internal	1	ABJ120-4NM
ABJ 220-4NM	0,1	220	0,2	±0,3	10	315963-101	1	Optional (315-950101)	Internal	1	ABJ220-4NM
ABJ 320-4NM	0,1	320	0,2	±0,3	10	315963-101	1	Optional (315-950101)	Internal	1	ABJ320-4NM

Precision balances EG

KERN

Top of the range cost-effectiveness.

- Internal adjustment (CAL) by rotary knob on the side. Guarantees high degree of accuracy and makes the location irrelevant
- Capacity display: A bar lights up to show how much of the weighing range is still available
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading
- Draft shield standard for models with weighing plate sizes A. Removable metal cover with pipette opening. Weighing space WxDxH: 158x130x78mm

Technical data:

- Large LCD display, digit height 17mm
- Dimensions of weighing plate (stainless steel): 118mm, 180x160mm
- Overall dimensions (without draft shield) WxDxH plate 118mm: 182x235x75mm, plate 180 192x265x87mm
- Net weight approx. 1,9kg
- Permissible ambient temperature 10°C / 30°C

Analytical balances ABS/ABJ

KERN

Entry level analytical balance with high-quality single cell weighing system.

Features:

- Only ABS: Adjusting program CAL, external test weights at an additional price
- Only ABJ: Automatic internal adjustment in the case of a change in temperature > 0,5°C or time-controlled every 4 hours
- Dosage aid: High-stability mode and other filter settings can be selected
- Simple recipeweighing and documenting with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value
- Identification number: 4 numeric positions, printed on calibration protocol
- Automatic data output to the PC/printer each time the balance reaches a steady state

Technical data:

- Large LCD display, digit height 14mm
- Dimensions of weighing plate Ø 91mm
- Overall dimensions WxDxH 210x340x325mm
- weighing space WxDxH 174x162x227mm



AEJ-C

Analytical balances AES-C/AEJ-CM KERN

Compact high-end analytical balance.

Features:

- Only AES-C: Adjusting program CAL, for quick setting of the balance accuracy, external test weights at an additional price
- Only AEJ-CM: Automatic internal adjustment in the case of a change in temperature > 0,5°C or time-controlled every 4 hours
- Ergonomically optimised keypad for left and righthanded users
- Compact housing with anti-static plastic draught shield with 3 sliding doors for easy access to the goods to be weighed
- Short stabilisation time: Steady weight values within approx. 3 sec under laboratory conditions
- Capacity display: A bar lights up to show how much of the weighing range is still available
- GLP/ISO record keeping of weight values with date, time and serial number

Technical data:

- Backlit LCD display, digit height 17mm
- Dimensions of weighing plate Ø 78mm
- Overall dimensions WxDxH 213x290x314mm
- Weighing space WxDxH 178x170x209mm
- Net weight approx. 3,2kg
- Permissible ambient temperature 10°C / 30°C
- Power supply: 110-230 V

Available accessories like printer, set for density determination or ionizer are detailed below. Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.

Model	Readability (mg)	Capacity (g)	Reproducibility (mg)	Linearity (mg)	Min. load (mg)	Optional cert.	Verifica- tion value (mg)	Verification option	Calibration	Pack (u.)	Art. No.
AES 100-4C	0,1	160	0,2	±0,2	-	315963-101	-	-	External	1	0AES100-4C
AES 200-4C	0,1	220	0,2	±0,2	-	315963-101	-	-	External	1	0AES200-4C
AEJ 100-4CM	0,1	160	0,2	±0,3	10	315963-101	1	Optional (315-965201)	Internal	1	AEJ100-4CM
AEJ 200-4CM	0,1	220	0,2	±0,3	10	315963-101	1	Optional (315-965201)	Internal	1	AEJ200-4CM
AEJ 200-5CM	0,01/0,1	60/220	0,04/0,1	±0,1/±0,2	1	315963-101	1	-	Internal	1	AEJ200-5CM

**Weighing elements
in page 790**



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**Platform scales DS
KERN**

Industrial scale with laboratory accuracy, also with EC-Type Approval [M]

Features:

- User guidance step by step through Yes/ No dialogue on the display
- Numerical subtraction of tare weight for known container weight. Useful for checking fill-levels
- Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Particularly wide range of applications: triple range balances KERN DS-TM

Technical data:

- Backlit LCD display, digit height 18mm
- Dimensions of weighing plate (stainless steel): 228x228x70mm, 308x318x75mm, 450x350x115mm
- Dimensions of display device WxDxH: 225x115x60mm
- Permissible ambient temperature 10°C / 40°C
- Power supply: 100-240 V

Available accessories like printer, protective working cover, mounts or rechargeable battery pack external are detailed below. Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.



DS plate 228x228mm



DS plate 450x350mm

Model	Readability (g)	Capacity (kg)	Reproducibility (g)	Linearity (g)	Min. piece weight (counting) g/piece	Weight (Kg)	Plate (mm)	Calibration	Optional cert.	Pack (u.)	Art. No.
DS3K0.01S	0,01	3,0	0,02	±0,05	0,01	5,1	228x70x228	External	315-963127	1	0DS3K0.01S
DS5K0.05S	0,05	5,0	0,05	±0,15	0,05	5,1	228x70x228	External	315-963128	1	0DS5K0.05S
DS8K0.05	0,05	8,0	0,05	±0,15	0,05	7,5	308x75x318	External	315-963128	1	00DS8K0.05
DS10K0.1S	0,1	10,0	0,1	±0,3	0,1	4,5	228x70x228	External	315-963128	1	0DS10K0.1S
DS30K0.1	0,1	30,0	0,1	±0,3	0,1	7,5	308x75x318	External	315-963128	1	00DS30K0.1
DS36K0.2	0,2	36,0	0,2	±0,6	0,2	7,5	308x75x318	External	315-963128	1	00DS36K0.2
DS60K0.2	0,2	60,0	0,2	±0,6	0,2	9,5	450x115x350	External	315-963129	1	00DS60K0.2

For further information, please contact scharlab@scharlab.com

Platform scales DE

KERN

Multi-functional scale with IP65 display.

Features:

- High mobility: Battery operation/rechargeable battery pack (optional), compact, flat construction and low weight make this balance ideal for use in several locations (production, warehouse, dispatch department, ...)
- Flexible positioning of display device: eg. free-standing or mounted to the wall (optional)
- Display device: IP65. Protected against dust and water splashes (only when using battery or rechargeable battery pack)
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also recall the total weight of all the ingredients
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar

Technical data:

- Large backlit LCD display, digit height 25mm
- Dimensions of weighing plate (stainless steel) WxDxH: 318x308x75mm, 318x308x85mm, 522x406x100mm, 522x403x90mm, 650x500x105mm
- Dimensions of display device WxDxH: 225x110x45mm
- Optional battery operation, 9V, not included
- Permissible ambient temperature 5°C / 35°C
- Power supply: 220-240 V

Available accessories like printer, protective working cover, mounts or rechargeable battery pack external are detailed below. Optional DKD calibration certificate is available. It must be requested on the same order along with the balance.



DE plate 318x308mm



DE plate 522x403

Model	Readability (g)	Capacity (kg)	Reproducibility (g)	Linearity (g)	Min. piece weight (counting) g/piece	Weight (Kg)	Plate (mm)	Calibration	Optional cert.	Pack (u.)	Art. No.
DE6K1D	1/2	3/6	1/2	±3/6	4	4	318x75x308	External	315-963128	1	315-DE6K1D
DE15K2D	2/5	6/15	2/5	±6/15	10	4	318x75x308	External	315-963128	1	315DE15K2D
DE35K5D	5/10	15/35	5/10	±15/30	10	4	318x75x308	External	315-963128	1	315DE35K5D
DE35K5DL	5/10	15/35	5/10	±15/30	10	16	522x90x403	External	315-963128	1	00DE35K5DL
DE60K10D	10/20	30/60	10/20	±30/60	20	4	318x75x308	External	315-963129	1	00DE60K10D
DE60K10DL	10/20	30/60	10/20	±30/60	20	16	522x90x403	External	315-963129	1	00DE60K10DL
DE150K20D	20/50	60/150	20/50	±60/150	40	4	318x75x308	External	315-963129	1	00DE150K20D
DE150K20DL	20/50	60/150	20/50	±60/150	40	16	522x90x403	External	315-963129	1	DE150K20DL
DE150K20DXL	20/50	60/150	20/50	±60/150	40	28	650x105x500	External	315-963129	1	DE150K20DX
DE300K50D	50/100	150/300	50/100	±150/300	100	16	522x90x403	External	315-963129	1	00DE300K50D
DE300K50DL	50/100	150/300	50/100	±150/300	200	28	650x105x500	External	315-963129	1	DE300K50DL
DE15K0.2D	0,2/0,5	6/15	0,2/0,5	±0,8/2	0,4	4	318x85x308	External	315-963128	1	00DE15K0.2D
DE35K0.5D	0,5/1	15/35	0,5/1	±2/4	1	4	318x85x308	External	315-963128	1	00DE35K0.5D
DE60K1D	1/2	30/60	1/2	±4/8	2	4	318x85x308	External	315-963129	1	315DE60K1D
DE60K1DL	1/2	30/60	1/2	±4/8	2	16	522x100x406	External	315-963129	1	00DE60K1DL
DE150K2D	2/5	60/150	2/5	±8/20	4	4	318x85x308	External	315-963129	1	00DE150K2D
DE150K2DL	2/5	60/150	2/5	±8/20	4	16	522x100x406	External	315-963129	1	00DE150K2DL
DE300K5DL	5/10	150/300	5/10	±20/40	10	16	522x100x406	External	315-963129	1	00DE300K5DL

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Accessories for KERN balances

KERN

Description	For models	Pack (u.)	Art. No.
Rechargeable battery pack internal	PCB	1	000PCB-A01
Rechargeable battery pack internal	440	1	315FCB-A01
Rechargeable battery pack internal	KB, DS	1	315-KB-A01
Rechargeable battery pack internal	PKP, DS	1	315-KS-A01
Rechargeable battery pack internal	EG (118mm)	1	315-EG-A04
Rechargeable battery pack internal	EG (180x160mm)	1	315-EG-A06
Rechargeable battery pack internal	DE	1	315NDE-A02
Mains adapter external EU	EMB	1	315440-902
Data interface RS-232 interface cable included	ABS-N/ABJ-NM	1	315ACS-A01
Protective working cover	440 (81mm)	1	440-210002
Protective working cover	440 (105mm)	1	440-330002
Protective working cover	440 (130x130mm)	1	440-450002
Protective working cover	440 (150x170mm)	1	440-530002
Protective working cover	81mm: PCB, KB	1	315PCB-A02
Protective working cover	PCB (105mm)	1	315PCB-A03
Protective working cover	130x130mm: PCB, KB	1	315PCB-A04
Protective working cover	150x170mm: PCB, KB	1	315PCB-A05
Protective working cover	PKP	1	315572-A02
Protective working cover	DS, DE	1	315-DE-A12
Protective working cover	EG (118mm)	1	315-EG-A05
Protective working cover	EG (180x160mm)	1	315-EG-A09
Protective working cover	AES-N/AEJ-NM	1	315ALS-A02
Hook for underfloor weighing	PCB	1	315440-A01
Matrix needle printer	PCB, 440, KB, PKP, EG, ABS-N/ABS-NM, AES-N/AEJ-NM, DS, DE	1	315911-013
Statistics printer	PCB, 440, KB, PKP, EG, ABS-N/ABS-NM, AES-N/AEJ-NM, DS, DE	1	315-YKS-01
Thermal printer	PCB, 440, KB, PKP, EG, ABS-N/ABS-NM, AES-N/AEJ-NM, DS, DE	1	315YKB-01N
Ioniser to neutralise electrostatic charge	ABS-N/ABS-NM, AES-N/AEJ-NM	1	315-YBI-01
Ring-shaped draft shield, plastic	EMB (only for 82mm)	1	315EMB-A01
Large glass draught shield	PKP (only for 106mm)	1	315572-A05
Large glass draught shield	EG (118mm)	1	315-EG-A03
Set for density determination	AES-N/AEJ-NM	1	315AES-A01
Set for underfloor weighing	DS (308x75x318)	1	315-DS-A01
Wall mount for display device	DS	1	315-DS-A02
Wall mount for display device	DE	1	315-DE-A13
Mount to fasten the display device to the platform	DS, DE	1	315-DE-A11
Stand to elevate display device	DS, DE	1	315-DE-A10

Moisture analyzer Kern
in page 954



For further information, please contact scharlab@scharlab.com

Test weights
KERN

Correctly selected test weights with DKD calibration certificate are the pre-requisite for ensuring that your balances are not only correctly adjusted, but also correctly calibrated. Scheduled testing of your balances with such test weights helps to guarantee your quality requirements and to maintain your quality targets.

A balance can never be more accurate than the test weight used to adjust it, it depends on its tolerance.

Accuracy of the test weight: Should correspond to the readout d of the balance, rather than something better.

Nominal weight value: This is shown in adjust mode „CAL“ in the balance display. Given the choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal weight value are specified, the suitable test weight is selected according to the tolerances „Tol“ of the individual accuracy classes E1-M3, see column „Tol \pm mg“ at the respective weight in the next table.

Exception, analytical balances (readout $d \leq 0,1$ mg):

E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DKD calibration certificate will also be sufficient.

Nominal value	OIML R111-2004 Maximum permissible errors for weights = permissible tolerances „Tol \pm mg“						
	E1	E2	F1	F2	M1	M2	M3
1 mg	$\pm 0,003$ mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	–	–
2 mg	$\pm 0,003$ mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	–	–
5 mg	$\pm 0,003$ mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	–	–
10 mg	$\pm 0,003$ mg	$\pm 0,008$ mg	$\pm 0,025$ mg	$\pm 0,08$ mg	$\pm 0,25$ mg	–	–
20 mg	$\pm 0,003$ mg	$\pm 0,010$ mg	$\pm 0,03$ mg	$\pm 0,10$ mg	$\pm 0,3$ mg	–	–
50 mg	$\pm 0,004$ mg	$\pm 0,012$ mg	$\pm 0,04$ mg	$\pm 0,12$ mg	$\pm 0,4$ mg	–	–
100 mg	$\pm 0,005$ mg	$\pm 0,016$ mg	$\pm 0,05$ mg	$\pm 0,16$ mg	$\pm 0,5$ mg	$\pm 1,6$ mg	–
200 mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	$\pm 0,6$ mg	$\pm 2,0$ mg	–
500 mg	$\pm 0,008$ mg	$\pm 0,025$ mg	$\pm 0,08$ mg	$\pm 0,25$ mg	$\pm 0,8$ mg	$\pm 2,5$ mg	–
1 g	$\pm 0,010$ mg	$\pm 0,03$ mg	$\pm 0,10$ mg	$\pm 0,3$ mg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg
2 g	$\pm 0,012$ mg	$\pm 0,04$ mg	$\pm 0,12$ mg	$\pm 0,4$ mg	$\pm 1,2$ mg	$\pm 4,0$ mg	± 12 mg
5 g	$\pm 0,016$ mg	$\pm 0,05$ mg	$\pm 0,16$ mg	$\pm 0,5$ mg	$\pm 1,6$ mg	$\pm 5,0$ mg	± 16 mg
10 g	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	$\pm 0,6$ mg	$\pm 2,0$ mg	$\pm 6,0$ mg	± 20 mg
20 g	$\pm 0,025$ mg	$\pm 0,08$ mg	$\pm 0,25$ mg	$\pm 0,8$ mg	$\pm 2,5$ mg	$\pm 8,0$ mg	± 25 mg
50 g	$\pm 0,03$ mg	$\pm 0,10$ mg	$\pm 0,3$ mg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg	± 30 mg
100 g	$\pm 0,05$ mg	$\pm 0,16$ mg	$\pm 0,5$ mg	$\pm 1,6$ mg	$\pm 5,0$ mg	± 16 mg	± 50 mg
200 g	$\pm 0,10$ mg	$\pm 0,3$ mg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg	± 30 mg	± 100 mg
500 g	$\pm 0,25$ mg	$\pm 0,8$ mg	$\pm 2,5$ mg	$\pm 8,0$ mg	± 25 mg	± 80 mg	± 250 mg
1 kg	$\pm 0,5$ mg	$\pm 1,6$ mg	$\pm 5,0$ mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	$\pm 1\ 000$ mg
5 kg	$\pm 2,5$ mg	$\pm 8,0$ mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	$\pm 2\ 500$ mg
10 kg	$\pm 5,0$ mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	$\pm 1\ 600$ mg	$\pm 5\ 000$ mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	$\pm 1\ 000$ mg	$\pm 3\ 000$ mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	$\pm 2\ 500$ mg	$\pm 8\ 000$ mg	± 25 g
100 kg	–	± 160 mg	± 500 mg	$\pm 1\ 600$ mg	$\pm 5\ 000$ mg	± 16 g	± 50 g
200 kg	–	± 300 mg	$\pm 1\ 000$ mg	$\pm 3\ 000$ mg	± 10 g	± 30 g	± 100 g
500 kg	–	± 800 mg	$\pm 2\ 500$ mg	$\pm 8\ 000$ mg	± 25 g	± 80 g	± 250 g
1 000 kg	–	$\pm 1\ 600$ mg	$\pm 5\ 000$ mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg	–	–	± 10 g	± 30 g	± 100 g	± 300 g	$\pm 1\ 000$ g
5 000 kg	–	–	± 25 g	± 80 g	± 250 g	± 800 g	$\pm 2\ 500$ g

E2. Single weight, compact shape, polished stainless steel. Material case (available as an option): lined plastic or wood (317140-100).


Weight (g)	Tol \pm mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	0,03	317-020400	315962-331	1	315-316-01
2	0,04	317-020400	315962-332	1	315-316-02
5	0,05	317-030400	315962-333	1	315-316-03
10	0,06	317-040400	315962-334	1	315-316-04
20	0,08	317-050400	315962-335	1	315-316-05
50	0,1	317-060400	315962-336	1	315-316-06
100	0,16	317-070400	315962-337	1	315-316-07
200	0,3	317-080400	315962-338	1	315-316-08
500	0,8	317-090400	315962-339	1	315-316-09
1.000	1,6	317-110400	315962-341	1	315-316-11
2.000	3	317-120400	315962-342	1	315-316-12
5.000	8	317-130400	315962-343	1	315-316-13
10.000	16	317-140400	315962-344	1	315-316-14

E2. Single weight, cylindrical, polished stainless steel. Material case (available as an option): lined plastic or wood.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	0,03	317-020400	315962-331	1	315-317-01
2	0,04	317-020400	315962-332	1	315-317-02
5	0,05	317-030400	315962-333	1	315-317-03
10	0,06	317-040400	315962-334	1	315-317-04
20	0,08	317-050400	315962-335	1	315-317-05
50	0,1	317-060400	315962-336	1	315-317-06
100	0,16	317-070400	315962-337	1	315-317-07
200	0,3	317-080400	315962-338	1	315-317-08
500	0,8	317-090400	315962-339	1	315-317-09
1.000	1,6	317-110400	315962-341	1	315-317-11
2.000	3	317-120400	315962-342	1	315-317-12
5.000	8	317-130400	315962-343	1	315-317-13
10.000	16	317-140400	315962-344	1	315-317-14
20.000	30	317-150100	315962-345	1	315-317-15
50.000	80	317-160100	315962-346	1	315-317-16

E2. Milligram weight, flat polygonal sheet, aluminium / german silver. Material case (available as an option): wood.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
0,001	0,006	347-009400	315962-351	1	315-318-01
0,002	0,006	347-009400	315962-352	1	315-318-02
0,005	0,006	347-009400	315962-353	1	315-318-03
0,01	0,008	347-009400	315962-354	1	315-318-04
0,02	0,01	347-009400	315962-355	1	315-318-05
0,05	0,012	347-009400	315962-356	1	315-318-06
0,1	0,016	347-009400	315962-357	1	315-318-07
0,2	0,02	347-009400	315962-358	1	315-318-08
0,5	0,025	347-009400	315962-359	1	315-318-09

F1. Single weight, compact shape, polished stainless steel. Material case (available as an option): lined plastic.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	0,02	347-030400	315962-431	1	315-326-01
2	0,025	347-030400	315962-432	1	315-326-02
5	0,16	347-030400	315962-433	1	315-326-03
10	0,2	347-050400	315962-434	1	315-326-04
20	0,25	347-050400	315962-435	1	315-326-05
50	0,3	347-070400	315962-436	1	315-326-06
100	0,5	347-070400	315962-437	1	315-326-07
200	1	347-080400	315962-438	1	315-326-08
500	2,5	347-090400	315962-439	1	315-326-09
1.000	5	347-110400	315962-441	1	315-326-11
2.000	10	347-120400	315962-442	1	315-326-12
5.000	25	347-130400	315962-443	1	315-326-13
10.000	50	347-140400	315962-444	1	315-326-14

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F1. Single weight, cylindrical, polished stainless steel. Material case (available as an option): lined plastic or wood.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	0,1	347-030400	315962-431	1	315-327-01
2	0,12	347-030400	315962-432	1	315-327-02
5	0,16	347-030400	315962-433	1	315-327-03
10	0,2	347-050400	315962-434	1	315-327-04
20	0,25	347-050400	315962-435	1	315-327-05
50	0,3	347-070400	315962-436	1	315-327-06
100	0,5	347-070400	315962-437	1	315-327-07
200	1	347-080400	315962-438	1	315-327-08
500	2,5	347-090400	315962-439	1	315-327-09
1.000	5	347-110400	315962-441	1	315-327-11
2.000	10	347-120400	315962-442	1	315-327-12
5.000	25	347-130400	315962-443	1	315-327-13
10.000	50	347-140400	315962-444	1	315-327-14
20.000	100	347-150400	315962-445	1	315-327-15
50.000	250	347-160400	315962-446	1	315-327-16

F1. Single weight, cylindrical, nickel-plated and brass. Material case (available as an option): lined plastic or wood.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	0,1	347-030400	315962-431	1	315-327-61
2	0,12	347-030400	315962-432	1	315-327-62
5	0,16	347-030400	315962-433	1	315-327-63
10	0,2	347-050400	315962-434	1	315-327-64
20	0,25	347-050400	315962-435	1	315-327-65
50	0,3	347-070400	315962-436	1	315-327-66
100	0,5	347-070400	315962-437	1	315-327-67
200	1	347-080400	315962-438	1	315-327-68
500	2,5	347-090400	315962-439	1	315-327-69
1.000	5	347-110400	315962-441	1	315-327-71
2.000	10	347-120400	315962-442	1	315-327-72
5.000	25	347-130400	315962-443	1	315-327-73
10.000	50	347-140400	315962-444	1	315-327-74
20.000	100	347-150400	315962-445	1	315-327-75
50.000	250	347-160400	315962-446	1	315-327-76

F1. Single weight, compact shape, finely turned stainless steel. Material case: lined plastic. Build type: not in accordance with OIML, adjusted to error limit class F1.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	0,1	347-030400	315962-431N	1	315-329-01
2	0,12	347-030400	315962-432N	1	315-329-02
5	0,16	347-030400	315962-433N	1	315-329-03
10	0,2	347-050400	315962-434N	1	315-329-04
20	0,25	347-050400	315962-435N	1	315-329-05
50	0,3	347-070400	315962-436N	1	315-329-06
100	0,5	347-070400	315962-437N	1	315-329-07
200	1	347-080400	315962-438N	1	315-329-08
500	2,5	347-090400	315962-439N	1	315-329-09
1.000	5	347-110400	315962-441N	1	315-329-11
2.000	10	347-120400	315962-442N	1	315-329-12
5.000	25	347-130400	315962-443N	1	315-329-13
10.000	50	347-140400	315962-444N	1	315-329-14

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F2. Single weight, cylindrical, finely turned stainless steel. Material case (available as an option): lined plastic or wood.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	0,3	347-030400	315962-431	1	315-337-01
2	0,4	347-030400	315962-432	1	315-337-02
5	0,5	347-030400	315962-433	1	315-337-03
10	0,6	347-050400	315962-434	1	315-337-04
20	0,8	347-050400	315962-435	1	315-337-05
50	1	347-070400	315962-436	1	315-337-06
100	1,6	347-070400	315962-437	1	315-337-07
200	3	347-080400	315962-438	1	315-337-08
500	8	347-090400	315962-439	1	315-337-09
1.000	16	347-110400	315962-441	1	315-337-11
2.000	30	347-120400	315962-442	1	315-337-12
5.000	80	347-130400	315962-443	1	315-337-13
10.000	160	347-140400	315962-444	1	315-337-14
20.000	300	337-150200	315962-445	1	315-337-15
50.000	800	337-160200	315962-446	1	315-337-16

M1. Single weight, cylindrical, finely turned stainless steel. Material case (available as an option): lined plastic.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	1	347-030400	315962-631	1	315-347-01
2	1,2	347-030400	315962-632	1	315-347-02
5	1,6	347-030400	315962-633	1	315-347-03
10	2	347-050400	315962-634	1	315-347-04
20	2,5	347-050400	315962-635	1	315-347-05
50	3	347-070400	315962-636	1	315-347-06
100	5	347-070400	315962-637	1	315-347-07
200	10	347-080400	315962-638	1	315-347-08
500	25	347-090400	315962-639	1	315-347-09
1.000	50	347-110400	315962-641	1	315-347-11
2.000	100	347-120400	315962-642	1	315-347-12
5.000	250	347-130400	315962-643	1	315-347-13
10.000	500	347-140400	315962-644	1	315-347-14

M1. Single weight, cylindrical, finely turned brass. Material case (available as an option): lined plastic.


Weight (g)	Tol±mg	Case	Certificate DKD	Pack (u.)	Art. No.
1	1	347-030400	315962-631	1	315-347-41
2	1,2	347-030400	315962-632	1	315-347-42
5	1,6	347-030400	315962-633	1	315-347-43
10	2	347-050400	315962-634	1	315-347-44
20	2,5	347-050400	315962-635	1	315-347-45
50	3	347-070400	315962-636	1	315-347-46
100	5	347-070400	315962-637	1	315-347-47
200	10	347-080400	315962-638	1	315-347-48
500	25	347-090400	315962-639	1	315-347-49
1.000	50	347-110400	315962-641	1	315-347-51
2.000	100	347-120400	315962-642	1	315-347-52
5.000	250	347-130400	315962-643	1	315-347-53
10.000	500	347-140400	315962-644	1	315-347-54

For further information, please contact scharlab@scharlab.com

ENTRIS® analytical and precision balances
SARTORIUS

- Economic high precision balances.
- Monolithic weigh cell ensures long-term precision.
- Embedded applications number: weighing, density, percent, counting, animal weighing and conversion.
- Keys integrated functions that facilitate the management .
- Backlit high-contrast display.
- Level indicator glass bubble for centering.
- Selectable weighing units
- As internal or external calibration models.
- Multi-language.
- RS232-C Interface 25-pin.
- Power supply: 100-240 V.

Analytical balances



BALANCES

Model	Weighing capacity (g)	Readability (mg)	Repeatability (mg)	Linearity (mg)	Typical stabilization time (s)	Weighing pan size (mm)	Dimensions DxWxH (mm)	Calibration	Pack (u.)	Art. No.
ENTRIS64-1S	60	0,1	0,1	0,2	2,5	Ø 90	230x303x330	External	1	ENTRIS64-1S
ENTRIS64i-1S	60	0,1	0,1	0,2	2,5	Ø 90	230x303x330	Internal	1	ENTR64I-1S
ENTRIS124-1S	120	0,1	0,1	0,2	2,5	Ø 90	230x303x330	External	1	ENTR124-1S
ENTRIS124i-1S	120	0,1	0,1	0,2	2,5	Ø 90	230x303x330	Internal	1	ENT124I-1S
ENTRIS224-1S	220	0,1	0,1	0,2	2,5	Ø 90	230x303x330	External	1	ENTR224-1S
ENTRIS224i-1S	220	0,1	0,1	0,2	2,5	Ø 90	230x303x330	Internal	1	ENT224I-1S

→ Continued on the next page

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Precision balances



Picture 1



Picture 2



Picture 3

Model	Weighing capacity (g)	Readability (mg)	Repeatability (mg)	Linearity (mg)	Typical stabilization time (s)	Weighing pan size (mm)	Dimensions DxWxH (mm)	Calibration	Pack (u.)	Art. No.
Picture 1:										
ENTRIS153-1S	620	1	1	2	1,0	Ø 115	230x303x136	External	1	ENTR153-1S
ENTRIS153i-1S	620	1	1	2	1,0	Ø 115	230x303x136	Internal	1	ENT153i-1S
ENTRIS323-1S	420	1	1	2	1,0	Ø 115	230x303x136	External	1	ENTR323-1S
ENTRIS323i-1S	420	1	1	2	1,0	Ø 115	230x303x136	Internal	1	ENT323i-1S
ENTRIS423-1S	320	1	1	2	1,1	Ø 115	230x303x136	External	1	ENTR423-1S
ENTRIS423i-1S	320	1	1	2	1,1	Ø 115	230x303x136	Internal	1	ENT423i-1S
ENTRIS623-1S	150	1	1	2	1,3	Ø 115	230x303x136	External	1	ENTR623-1S
ENTRIS623i-1S	150	1	1	2	1,3	Ø 115	230x303x136	Internal	1	ENT623i-1S
Picture 2:										
ENTRIS822-1S	820	10	10	30	1,5	Ø 150	230x303x87	External	1	ENTR822-1S
ENTRIS822i-1S	820	10	10	30	1,5	Ø 150	230x303x87	Internal	1	ENT822i-1S
Picture 3:										
ENTRIS2202-1S	2,200	10	10	30	1,5	180x180	230x303x91	External	1	ENT2202-1S
ENTRIS2202i-1S	2,200	10	10	30	1,5	180x180	230x303x91	Internal	1	ENT2202i-1S
ENTRIS3202-1S	3,200	10	10	30	1,5	180x180	230x303x91	External	1	ENT3202-1S
ENTRIS3202i-1S	3,200	10	10	30	1,5	180x180	230x303x91	Internal	1	ENT3202i-1S
ENTRIS4202-1S	4,200	10	10	30	1,5	180x180	230x303x91	External	1	ENT4202-1S
ENTRIS4202i-1S	4,200	10	10	30	1,5	180x180	230x303x91	Internal	1	ENT4202i-1S
ENTRIS6202-1S	6,200	10	10	30	1,5	180x180	230x303x91	External	1	ENT6202-1S
ENTRIS6202i-1S	6,200	10	10	30	1,5	180x180	230x303x91	Internal	1	ENT6202i-1S
ENTRIS2201-1S	2,200	100	100	300	1,5	180x180	230x303x91	External	1	ENT2201-1S
ENTRIS2201i-1S	2,200	100	100	300	1,5	180x180	230x303x91	Internal	1	ENT2201i-1S
ENTRIS5201-1S	5,200	100	100	300	1,5	180x180	230x303x91	External	1	ENT5201-1S
ENTRIS5201i-1S	5,200	100	100	300	1,5	180x180	230x303x91	Internal	1	ENT5201i-1S
ENTRIS8201-1S	8,200	100	100	300	1,5	180x180	230x303x91	External	1	ENT8201-1S
ENTRIS8201i-1S	8,200	100	100	300	1,5	180x180	230x303x91	Internal	1	ENT8201i-1S

For further information, please contact scharlab@scharlab.com



Practum® analytical balances SARTORIUS

Start Weighing Right.

Features:

- Obtain professional results with a world-class weighing instrument.
- Balances are made in Germany.
- Rely on consistent readings with outstanding repeatability and overload protection guaranteeing many years of reliability.
- Gain peace of mind knowing that the supervisor lock will prevent any unintentional changes to the settings.
- Transfer data from your balance to a printer or a computer quickly and easily with plug & play technology.
- For indoor use.
- Safety of electrical equipment according to norm EN 61010-1/IEC 61010-1.
- Electromagnetic compatibility according to norm EN 61326-1/IEC 61326-1.
- Capable of using in industrial and residential areas.

Technical data:

- Interface: Mini USB.
- External calibration.
- Dimensions of weighing plate \varnothing 90mm
- Overall dimensions WxDxH 216x360x320mm
- Weighing chamber height: 209mm
- Permissible ambient temperature +10°C to +30°C
- Power supply: 100-240 V.

Practum analytical balances

Model	Readability (mg)	Capacity (g)	Reproduc. (mg)	Linearity (mg)	Weight (kg)	Pack (u.)	Art. No.
PRACTUM224-1S	0,1	220	0,1	0,2	4,5	1	PRAC224-1S
PRACTUM124-1S	0,1	120	0,1	0,2	4,5	1	PRAC124-1S
PRACTUM64-1S	0,1	60	0,1	0,2	4,5	1	PRACT64-1S



Practum® precision balances SARTORIUS

Start weighing right.

Features:

- Obtain professional results with a world-class weighing instrument.
- Balances are made in Germany.
- Rely on consistent readings with outstanding repeatability and overload protection guaranteeing many years of reliability.
- Gain peace of mind knowing that the supervisor lock will prevent any unintentional changes to the settings.

- Transfer data from your balance to a printer or a computer quickly and easily with plug & play technology.
- For indoor use.
- Safety of electrical equipment according to norm EN 61010-1/IEC 61010-1.
- Electromagnetic compatibility according to norm EN 61326-1/IEC 61326-1.
- Apt for use in industrial and residential areas.

Technical data:

- Interface: Mini USB.
- External calibration.
- Dimensions of weighing plate \varnothing 120mm and \varnothing 180mm
- Overall dimensions WxDxH: plate 120mm: 216x360x320mm, plate 180mm: 216x360x95mm
- Weighing chamber height for plate of 120mm: 209mm
- Permissible ambient temperature +10°C to +30°C
- Power supply: 100-240 V.

Practum precision balances

Model	Readability (mg)	Capacity (g)	Reproduc. (mg)	Linearity (mg)	Plate (mm)	Weight (g)	Pack (u.)	Art. No.
PRACTUM513-1S	1	510	1	2	\varnothing 120	4,9	1	PRAC513-1S
PRACTUM313-1S	1	310	1	3	\varnothing 120	4,9	1	PRAC313-1S
PRACTUM213-1S	1	210	1	3	\varnothing 120	4,9	1	PRAC213-1S
PRACTUM3102-1S	10	3100	10	30	\varnothing 180	3,1	1	PRA3102-1S
PRACTUM2102-1S	10	2100	10	30	\varnothing 180	3,1	1	PRA2102-1S
PRACTUM1102-1S	10	1100	10	30	\varnothing 180	3,1	1	PRA1102-1S
PRACTUM612-1S	10	610	10	30	\varnothing 180	3,1	1	PRAC612-1S
PRACTUM412-1S	10	410	10	30	\varnothing 180	3,1	1	PRAC412-1S
PRACTUM6101-1S	100	6100	100	300	\varnothing 180	3,1	1	PRA6101-1S
PRACTUM5101-1S	100	5100	100	300	\varnothing 180	3,1	1	PRA5101-1S
PRACTUM2101-1S	100	2100	100	300	\varnothing 180	3,1	1	PRA2101-1S
PRACTUM6100-1S	1000	6100	500	1000	\varnothing 180	3,1	1	PRA6100-1S
PRACTUM5100-1S	1000	5100	1000	1000	\varnothing 180	3,1	1	PRA5100-1S



Quintix® analytical balances
SARTORIUS

Redefining Standards.

Features:

- Guided intuitive application.
- Maximum accuracy at all the time thanks to isoCAL; fully automatic internal calibration and balance adjustment.
- Easy to clean.
- Make your record keeping easier with Quintix® USB “Plug and Work” connectivity to a GLP-compliant printer or a computer
- For indoor use.
- Safety of electrical equipment according to norm EN 61010-1/IEC 61010-1.
- Electromagnetic compatibility according to norm EN 61326-1/IEC 61326-1.
- Apt for use in industrial and residential areas.

Technical data:

- Interface: Mini USB.
- Internal isoCAL calibration, external calibration.
- Dimensions of weighing plate ø 90mm
- Overall dimensions WxDxH 216x360x320mm
- Weighing chamber height: 209mm
- Permissible ambient temperature +10°C to +30°C
- Power supply: 100-240 V.

Certified models with certificates of approval for specific models can be ordered for every country.

Quintix analytical balances

Model	Readability (mg)	Capacity (g)	Reproduc. (mg)	Linearity (mg)	Weight (kg)	Pack (u.)	Art. No.
QUINTIX224-1S	0,1	220	0,1	0,2	4,9	1	QUIN224-1S
QUINTIX124-1S	0,1	120	0,1	0,2	4,9	1	QUIN124-1S
QUINTIX64-1S	0,1	60	0,1	0,2	4,9	1	QUINT64-1S



Quintix® precision balances
SARTORIUS

Redefining Standards.

Features:

- Guided intuitive application.
- Maximum accuracy all the time thanks to isoCAL; fully automatic internal calibration and balance adjustment.
- Easy to clean.
- Make your record keeping easier with Quintix® USB “Plug and Work” connectivity to a GLP-compliant printer or a computer
- For indoor use.

- Safety of electrical equipment according to norm EN 61010-1/IEC 61010-1.
- Electromagnetic compatibility according to norm EN 61326-1/IEC 61326-1.
- Apt for use in industrial and residential areas.

Technical data:

- Interface: Mini USB.
- Internal isoCAL calibration, external calibration.
- Dimensions of weighing plate ø 120mm and ø 180mm
- Overall dimensions WxDxH: plate 120mm: 216x360x320mm, plate 180mm: 216x360x95mm
- Weighing chamber height for plate of 120mm: 209mm
- Permissible ambient temperature +10°C to +30°C
- Power supply: 100-240 V.

Certified models with certificates of approval for specific models can be ordered for every country.

Quintix precision balances

Model	Readability (mg)	Capacity (g)	Reproduc. (mg)	Linearity (mg)	Plate (mm)	Weight (g)	Pack (u.)	Art. No.
QUINTIX613-1S	1	610	1	2	ø 120	4,9	1	QUIN613-1S
QUINTIX513-1S	1	510	1	2	ø 120	4,9	1	QUIN513-1S
QUINTIX313-1S	1	310	1	2	ø 120	4,9	1	QUIN313-1S
QUINTIX213-1S	1	210	1	2	ø 120	4,9	1	QUIN213-1S
QUINTIX6102-1S	10	6100	10	20	ø 180	5,2	1	QUI6102-1S
QUINTIX5102-1S	10	5100	10	20	ø 180	5,2	1	QUI5102-1S
QUINTIX3102-1S	10	3100	10	20	ø 180	5,2	1	QUI3102-1S
QUINTIX2102-1S	10	2100	10	30	ø 180	4,7	1	QUI2102-1S
QUINTIX1102-1S	10	1100	10	30	ø 180	4,7	1	QUI1102-1S
QUINTIX612-1S	10	610	10	30	ø 180	4,7	1	QUIN612-1S
QUINTIX412-1S	10	410	10	30	ø 180	4,7	1	QUIN412-1S
QUINTIX6101-1S	100	6100	100	300	ø 180	4,7	1	QUI6101-1S
QUINTIX5101-1S	100	5100	100	300	ø 180	4,7	1	QUI5101-1S
QUINTIX2101-1S	100	2100	100	300	ø 180	4,7	1	QUI2101-1S
QUINTIX6100-1S	1000	5100	500	1000	ø 180	4,7	1	QUI6100-1S
QUINTIX5100-1S	1000	5100	500	1000	ø 180	4,7	1	QUI5100-1S



Secura® analytical balances

SARTORIUS

Easy, Reliable Weighing in Regulated Areas

Features:

- Weighing without risk – data transfer to a printer or a computer is blocked when:
 - The balance is not correctly leveled
 - No SQmin value is reached.
 - The balance is not correctly calibrated
- For indoor use.
- Safety of electrical equipment according to norm EN 61010-1/IEC 61010-1.
- Electromagnetic compatibility according to norm EN 61326-1/IEC 61326-1.
- Apt for use in industrial and residential areas.

Technical data:

- Interface: Mini USB.
- Internal isoCAL calibration, external calibration.
- Dimensions of weighing plate \varnothing 90mm
- Overall dimensions WxDxH 216x360x320mm
- Weighing chamber height: 209mm
- Permissible ambient temperature +10°C to +30°C
- Power supply: 100-240 V.

Certified models with certificates of approval for specific models can be ordered for every country.

Secura analytical balances

Model	Readability (mg)	Capacity (g)	Reproduc. (mg)	Linearity (mg)	min. Weight (g)	Weight (kg)	Pack (u.)	Art. No.
SECURA224-1S	0,1	220	0,1	0,2	0,12	5,1	1	SECU224-1S
SECURA124-1S	0,1	120	0,1	0,2	0,12	5,1	1	SECU124-1S



Secura® precision balances

SARTORIUS

Easy, Reliable Weighing in Regulated Areas

Features:

- Weighing without risk – data transfer to a printer or a computer is blocked when:
 - The balance is not correctly leveled
 - No SQmin value is reached.
 - The balance is not correctly calibrated
- For indoor use.
- Safety of electrical equipment according to norm EN 61010-1/IEC 61010-1.
- Electromagnetic compatibility according to norm EN 61326-1/IEC 61326-1.
- Apt for use in industrial and residential areas.

Technical data:

- Interface: Mini USB.
- Internal isoCAL calibration, external calibration.
- Dimensions of weighing plate \varnothing 120mm and \varnothing 180mm
- Overall dimensions WxDxH: plate 120mm: 216x360x320mm, plate 180mm: 216x360x95mm
- Weighing chamber height for plate of 120mm: 209mm
- Permissible ambient temperature +10°C to +30°C
- Power supply: 100-240 V.

Certified models with certificates of approval for specific models can be ordered for every country.

Secura precision balances

Model	Readability (mg)	Capacity (g)	Reproduc. (mg)	Linearity (mg)	Plate (mm)	min. Weight (g)	Weight (g)	Pack (u.)	Art. No.
SECURA613-1S	1	610	1	2	\varnothing 120	1,5	5,1	1	SECU613-1S
SECURA513-1S	1	510	1	2	\varnothing 120	1,5	5,1	1	SECU513-1S
SECURA313-1S	1	310	1	2	\varnothing 120	1,5	5,1	1	SECU313-1S
SECURA213-1S	1	210	1	2	\varnothing 120	1,5	5,1	1	SECU213-1S
SECURA6102-1S	10	6100	10	20	\varnothing 180	12	5,2	1	SEC6102-1S
SECURA5102-1S	10	5100	10	20	\varnothing 180	12	5,2	1	SEC5102-1S
SECURA3102-1S	10	3100	10	20	\varnothing 180	12	5,2	1	SEC3102-1S
SECURA2102-1S	10	2100	10	20	\varnothing 180	12	5,2	1	SEC2102-1S
SECURA1102-1S	10	1100	10	20	\varnothing 180	12	5,2	1	SEC1102-1S
SECURA612-1S	10	610	10	20	\varnothing 180	12	5,2	1	SECU612-1S

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Accessories for Quintix, Practum and Secura balances SARTORIUS

Description	Pack (u.)	Art. No.
Standard laboratory printer	1	00000YDP40
Data cable for 9-pin mini USB/R232	1	OYCC03-D09
Data cable for mini USB / USB A	1	OYCC04-D09
Battery pack for standard laboratory balances	1	0000YRB11Z

BATHS

- Sandbaths, *page 821*
- Shaking water baths, *page 822*
- Thermostatic baths, *page 826*
- Ultrasonic baths, *page 837*
- Water and oil baths, *page 843*
- Water baths, *page 847*
- Accessories for wather baths, *page 848*

BATHS: Sandbaths

Sandbaths GESTIGKEIT

Electrical sandbaths with variable temperature control, with or without a thermostatic controller.

- Robust construction for continuous performance.
- Because of the asymmetrical, long-term heating system (hotplate corners and edges are subjected to more heat) an even temperature is guaranteed over the entire heating surface.
- Aluminium alloy hotplate with a screwed-on.
- The sand lays directly on the hotplate.
- Max. temperature: 370°C.
- Power supply: 230 V.



Type	Power (W)	Bath dim. WxHxD (mm)	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
SD 7	2200	360x50x360	358x220x358	13	1	0000000SD7
SD 8	2850	360x50x510	364x220x514	21	1	0000000SD8
SD 9-230	4000	440x50x590	442x220x592	27	1	000SD9-230

For further information, please contact scharlab@scharlab.com

BATHS: Shaking water baths



Shaking water baths 1083, 1086 and 1092 GFL

Features:

- Microprocessor-controlled temperature regulation ensures fast heating up to the set temperature and an excellent temperature constancy: $\pm 0.1^{\circ}\text{C}$, temporal
- Optimum temperature distribution throughout the whole bath interior
- Models 1086 and 1092: integrated cooling coil
- Temperature display and setting digitally via LED display, in 0.1°C increments. Fast and exact setting, exact reproducibility of the preset temperature
- Electronic monitoring of the temperature controller. In case of a fault, the cause is displayed on the LED.
- Over-temperature cut-out: electronic, 4°C above set temperature and electro-mechanical $> 130^{\circ}\text{C}$.
- Constant shaking frequency, independent of load, even when in continuous operation.
- Maintenance-free and durable shaking device, electronically controlled and continuously settable shaking motion, gentle start-up. In models 1083 and 1086, the shaking device is guided on corrosion-resistant special ball bearings.
- Easily removable shaking rack.
- Bath interior and shaking rack made of stainless steel.
- No dripping back of condensate into the vessels due to double-walled insulating lid with interior camber.
- Drain cock to empty the bath.

Applications: incubations, fermentations, homogenisations, chemical and biochemical reactions, enzyme and tissue studies.

Technical data:

- Shaking frequency: 10 to 250 min^{-1}
- Working height (incl. lid): 190mm (above shaking cage)
- Max. water level above shaking cage / tray: 105 / 90mm
- Power supply: 230 V.

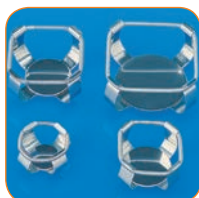
Baths

Type	T Range ($^{\circ}\text{C}$)	T Stability ($^{\circ}\text{C}$)	Capacity (l)	Stirring width (mm)	Int. dim. WxHxD (mm)	Ext. dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
1083	5 to 99,9	0,1	20	22	450x160x300	715x330x520	28	1	000GFL1083
1086	10 to 99,9 with coil	0,1	20	22	450x160x300	715x330x520	30	1	000GFL1086
1092	10 to 80 with coil	0,1	20	14	450x160x300	635x400x505	35	1	000GFL1092

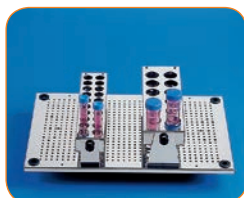
Accessories



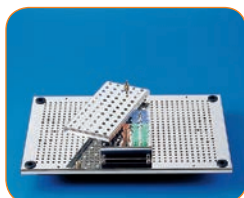
Tray 3960



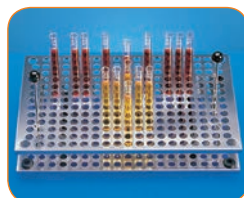
Clamps



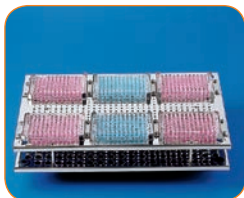
Test Tube Rack 3924



Reaction Vessels Holder



Test Tube Rack 3920



Rack for test plates 3923



Regulator

Shaking Tray with holes to accommodate clamps for Erlenmeyer flasks and racks.

Description	Pack (u.)	Art. No.
Shaking Tray 3690 made of stainless steel, without accessories (ordered separately)	1	000GFL3960

→ Continued on the next page

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Clamps made of Stainless Steel for screwing onto shaking tray 3960.

Type	For flasks (ml)	Max. per tray	Pack (u.)	Art. No.
3983	25	52	1	000GFL3983
3984	50	33	1	000GFL3984
3985	100	22	1	000GFL3985
3986	200	15	1	000GFL3986
3987	250 to 300	13	1	000GFL3987
3988	500	10	1	000GFL3988
3989	1.000	6	1	000GFL3989

Test Tube Rack made of stainless steel. It can be screwed onto shaking tray 3960.

Description	Pack (u.)	Art. No.
Test Tube Rack 3924, max. 20 tubes Ø 12-17mm, max. 4 racks per tray	1	000GFL3924
Test Tube Rack 3925, max. 12 tubes Ø 25-29mm, max. 3 racks per tray	1	000GFL3925

Reaction Vessels Holder made of stainless steel. It can be screwed onto shaking tray 3960.

Description	Pack (u.)	Art. No.
Reaction Vessels Holder for 58 reaction vessels 1,5 - 2,0ml, max. 3 holders per tray	1	000GFL3926

Test Tube Rack is made of stainless steel, with two handles for easy inserting and removing from the bath.

Description	Pack (u.)	Art. No.
Test Tube Rack 3920, for 243 test tubes Ø 16/17mm, max. length 180mm	1	000GFL3920
Test Tube Rack 3921, for 63 test tubes Ø 31mm	1	000GFL3921
Test Tube Rack 3922, for 372 test tubes Ø 12mm, max. length 180mm	1	000GFL3922

Rack made of stainless steel, raised, with holders for 6 test plates.

Description	Pack (u.)	Art. No.
Rack 3923, for 6 test plates	1	000GFL3923

Regulator

Description	Pack (u.)	Art. No.
Water level Regulator, type 1919	1	000GFL1919

Precise reciprocal shaking baths Unitronic controlled by microprocessor

J.P. SELECTA

Precise reciprocal shaking baths controlled by microprocessor and with refrigeration.

Unitronic reciprocating shaking bath linear: temperature range from ambient +5°C to 99,9°C. (Stability±0,05°C, homogeneity±0,1°C, set temp. error±1°C, resolution 0,1°C).

Unitronic reciprocating shaking bath C linear: temperature range from 0°C to 99,9°C. (Stability±0,05°C, homogeneity±0,1°C, set temp. error±1°C, resolution 0,1°C).

Features:

- Linear motion sliding tray from 10 to 100 oscillations per minute, with a variable stroke length of 32 or 46mm.
- Digital display and selection of temperature, oscillations and time.
- Controllable time from 1 minute to 99 hours 59 minutes.
- Temperature sensor: thermo-resistant Pt100.
- Rack frame support made of AISI 304 stainless steel incorporated in the tank that can accommodate a selection of flasks and racks.
- Internal tank made of AISI 310 stainless steel with an external case of AISI 304 stainless steel.
- Built in drain tap.
- Power supply: 230 V.

Baths



→ Continued on the next page

Model	T Range (°C)	Capacity (l)	Ext. dim. WxHxD (cm)	Usable dim. ØxH (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
UNITRONIC RECIPROCAL	5 to 99,9	27	74x30x40,5	48x18x29	25	1500	1	0196032011
UNITRONIC RECIPROCAL C	0 to 99,9	27	74x30x63,5	48x18x29	43	1750	1	0196001173

Accessories



Support Platform for Erlenmeyers flasks



Adapter clips for Erlenmeyer flasks



Steel Rack



Gable Lid

Description	Pack (u.)	Art. No.
Support Platform for Erlenmeyers flasks. Stainless steel	1	0193001004
Adapter clips for Erlenmeyer flasks 50ml	1	0191001003
Adapter clips for Erlenmeyer flasks 100ml	1	0191000978
Adapter clips for Erlenmeyer flasks 250ml	1	0191000979
Adapter clips for Erlenmeyer flasks 500ml	1	0191000980
Adapter clips for Erlenmeyer flasks 1000ml	1	0191000981
Racks for 70 tubes up to 13mm Ø. Capacity: 2 racks		0191001233
Racks for 48 tubes up to 16mm Ø. Capacity: 2 racks	1	0191001234
Racks for 48 tubes up to 20mm Ø. Capacity: 2 racks	1	0191001235
Gable Lid	1	0196000713



**Shaking water baths SW
JULABO**

Features:

- Bright multi-display (LED)
- Seamless, splash-proof keypad
- Splash-proof mains switch
- Electronic timer for setting the running time (0:01 to 9:59h:min)
- On-line communication via built-in RS232 interface
- Early warning system with high and low temperature limits
- Drain screw for conveniently emptying the bath
- Dry-running protection / safety temperature fixed at 130°C
- Wide range of accessories including lift-up Makrolon bath cover available
- EasyTemp control software is available free of charge
- Removable shaking carriage
- Shaking frequency adjustable from 20 to 200rpm
- Shaking frequency indicated on MULTI-DISPLAY (LED)
- Shaking stroke 15mm
- With integrated circulation pump
- Power supply: 115-230 V.

Type	T Range (°C)	T Stability (°C)	Capacity (l)	Heating (kW)	Aperture WxD/H (cm)	Ext. dim. WxHxD (cm)	Pack (u.)	Art. No.
SW22	20 to 99,9	0,2	8 to 20	2	50x30/18	70x35x43	1	0009550322
SW23	20 to 99,9	0,02	8 to 20	2	50x30/18	70x35x43	1	0009550323

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Thermostated digital bath with horizontal shaker OVAN

- Thermostated bath with horizontal shaking.
- Mobile inner tank made of stainless steel AISI 304, and metallic housing with Epoxi paint of great resistance to aggressive surroundings.
 - Temperature controlled by microprocessor, by means of an integrated Pt100 sensor, with "ARA V2" algorithm of temperature regulation with "fuzzy logic" control.
 - Digital Display LCD backlighted showing the selected and actual temperature and speed.
 - Membranepush-button control.
 - Double safety thermostat: cut out indicator lamp, the unit will cut out if there is insufficient liquid or if the temperature exceeds the maximum temperature.
 - Safety automatic disconnection with acoustic alarm that prevents overheating from the programmed temperature (+5°C). Connects again when the set temperature is below the limit.
 - Indication on the display of high temperature on the tank, that provides protection against burn. From 45°C.
 - Memory of the last settings.
 - Automatic restart after unexpected shut down keeping the same parameters as before the incident.

- An incident sign appears on the display.
- Mains switch ON/OFF protected against splashes.
- Water drainage faucet and handles for an easy transport.

Technical data:

- Temp. Range (°C): amb T + 5 – 100
- Resolution (°C): 0,1
- Power (W): 50
- Type of movement: horizontal
- Amplitude (mm): 40
- Speed Range (rpm): 10-100
- Resolution (rpm): 5
- Tank material: Stainless steel AISI 304

Baths

Max. vol. (l)	Thermal power (W)	Usable dim. (cm)	External dim. (cm)	Weight (Kg)	Pack (u.)	Art. No.
27	1600	35x26x17	65x40x40	20	1	1000001114
45	3200	49x45x17	73x60x40	27	1	1000001132

Accessories. Order platforms together with the instrument, has to be mounted in factory.

Description	Pack (u.)	Art. No.
Cover of stainless steel (for bath of 27l)	1	2000000110
Cover of stainless steel (for bath of 45l)	1	2000000149
Universal support with 5 rollers (for bath of 27l)	1	2000000142
Universal support with 5 rollers (for bath of 45l)	1	2000000155
Support platform for erlenmeyer flasks (for bath of 27l)	1	2000000132
Support platform for erlenmeyer flasks (for bath of 45l)	1	2000000156
Clip for Erlenmeyers flasks of 50ml (30units fits)	1	2000000046
Clip for Erlenmeyers flasks of 100ml (20units fits)	1	2000000047
Clip for Erlenmeyers flasks of 250ml (12units fits)	1	2000000048
Clip for Erlenmeyers flasks of 500ml (9units fits)	1	2000000049
Clip for Erlenmeyers flasks of 1000ml (6units fits)	1	2000000099
Fastening rings to fix different vessels	2	2000000043

For further information, please contact scharlab@scharlab.com

BATHS: Thermostatic baths



Bath thermostats CC HUBER

Heating circulation bath thermostats with baths made from polycarbonate or stainless steel are simple to use and are suitable for many applications such as: sample temperature control, analysis, materials testing or checking food. The units offer high temperature stability and are fitted with overtemperature and low level protection suitable for Safety Class III/FL (DIN 12876) for use with flammable fluids. A powerful pressure/suction pump ensures optimal circulation and temperature homogeneity in the bath and also allows temperature control of externally attached applications using a pump adapter (accessory). The products are rounded off with a range of accessories including inserts, variable adjustable platforms, bath covers, probes as well as hoses, temperature control fluids and various adapters.

The new multi-touch controller Pilot ONE offers a brilliant 5.7" touchscreen with graphic functions and a comfortable navigation menu in 11 languages. All important operating parameters and temperature values are neatly displayed on the touchscreen. Thanks to the new favourites menu, the one-click operation and the integrated technical glossary the operation is very easy, just like on a smartphone. Integrated USB and Ethernet ports allows connection to a PC or network, e.g. for remote control or data transmission.

Power supply: 230 V.

All models are also available with MPC temperature control Microprocessor, contact us!

Type	T Range (°C)	T Stability (°C)	Thermal power (kW)	Volume (l)	Aperture WxD (cm)	Bath depth (cm)	Pack (u.)	Art. No.
CC-106A, polycarbonate	25 to 100	±0,02	2	4,9	130x110	150	1	2001000101
CC-108A, polycarbonate	25 to 100	±0,02	2	6,6	130x210	150	1	2001000201
CC-110A, polycarbonate	25 to 100	±0,02	2	8,4	130x310	150	1	2001000301
CC-112A, polycarbonate	25 to 100	±0,02	2	12	303x161	150	1	2001000401
CC-118A, polycarbonate	25 to 100	±0,02	2	18	303x321	150	1	2001000501
CC-208B, stainless steel	25 to 100	±0,02	2	8,5	230x127	150	1	2002000101
CC-212B, stainless steel	25 to 100	±0,02	2	12	290x152	150	1	2002000201
CC-215B, stainless steel	25 to 100	±0,02	2	15	290x152	200	1	2002000301
CC-220B, stainless steel	25 to 100	±0,02	2	20	290x329	150	1	2002000401
CC-225B, stainless steel	25 to 100	±0,02	2	25	290x329	200	1	2002000501



Cooling circulators CC-K HUBER

Cooling bath thermostats with insulated cooling baths are an economic solution for controlling the temperature of objects directly within the thermostat bath. The units are therefore suitable for a number of typical heating and cooling tasks such as sample temperature control, materials testing, quality control, analyses, etc. Cooling circulators operate with natural refrigerants and are therefore environmentally friendly. In addition the cooling circulators are fitted with automatic refrigeration capacity adjustment, reducing energy consumption and waste heat down to the absolute essential. With low level protection and adjustable over heating protection the systems fulfil the requirements of Safety Class III/FL according to DIN 12876. The thermostats can also be used for externally attached applications using an optional pump adapter.

The new multi-touch controller Pilot ONE offers a brilliant 5,7" touchscreen with graphic functions and a comfortable navigation menu in 11 languages. All important operating parameters and temperature values are neatly displayed on the touchscreen. Thanks to the new favourites menu, the one-click operation and the integrated technical glossary the operation is very easy, just like on a smartphone. Integrated USB and Ethernet ports allows connection to a PC or network, e.g. for remote control or data transmission.

Power supply: 230 V.

Type	T Range (°C)	T Stability (°C)	Thermal power (kW)	Cool. power (kW)	Volume (l)	Aperture WxD (cm)	Bath depth (cm)	Pack (u.)	Art. No.
CC-K6	From -25 to 200	±0,02	2	0,2 (20°C), 0,05 (-20°C)	4,5	140x120	150	1	2008000501
CC-K12	From -20 to 200	±0,02	2	0,25 (20°C), 0,05 (-20°C)	12	290x152	150	1	2009000201
CC-K15	From -20 to 200	±0,02	2	0,25 (20°C), 0,05 (-20°C)	15	290x152	200	1	2010000201
CC-K20	From -30 to 200	±0,02	2	0,4 (20°C), 0,16 (-20°C)	20	290x329	150	1	2011000201
CC-K25	From -30 to 200	±0,02	2	0,4 (20°C), 0,16 (-20°C)	25	290x329	200	1	2012000201

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Cooling circulators Ministat HUBER

Huber Ministats are the smallest cooling circulator in the world. Their small dimensions allow Ministats to be placed in the smallest of spaces, for example in a laboratory fume cupboard or inside technical plant. Despite their minimal size the systems are extensively fitted out and offer sufficient performance for temperature control of photometers, refractometers, viscometers, distillation apparatus, reaction vessels and mini-plants. The main applications are using external applications however the bath opening allows objects to be thermoregulated directly in a thermostat bath. A powerful pressure/suction pump with an infinitely controlled rotational speed ensures optimal circulation. The maximum pressure can also be regulated by an optional pressure sensor, meaning that sensitive glass reactors and apparatus can reliably be protected from breakage. Additionally, Ministats offer the "professional" level Pilot ONE controller as standard with a colour TFT display and comfortable operator guidance. Analogue connections according to NAMUR are available via the optional Com.G@te module allowing Ministats to integrate into plant

and process control systems.

The new multi-touch controller Pilot ONE offers a brilliant 5,7" touchscreen with graphic functions and a comfortable navigation menu in 11 languages. All important operating parameters and temperature values are neatly displayed on the touchscreen. Thanks to the new favourites menu, the one-click operation and the integrated technical glossary the operation is very easy, just like on a smartphone. Integrated USB and Ethernet ports allow connection to a PC or network, e.g. for remote control or data transmission.

Power supply: 230 V.

Type	T Range (°C)	T Stability (°C)	Thermal power (kW)	Cool. power (kW)	Volume (l)	Aperture WxD (cm)	Bath depth (cm)	Pack (u.)	Art. No.
Ministat 125	From -25 to 150	±0,02	1	0,3 (100°C)	2	178x80	120	1	2014001101
Ministat 230	From -40 to 200	±0,02	2	0,4 (100°C)	2,8	170x87	135	1	2015000501
Ministat 240	From -45 to 200	±0,02	2	0,6 (100°C)	4,5	205x85	157	1	2016000501



Dynamic temperature control systems Petite Fleur HUBER

The Petite Fleur models are the smallest dynamic temperature control systems in the Unistat® range.

Temperature control of small research reactors count amongst the most frequent applications. As for all Unistats® also the Petite Fleur® models have unique thermodynamic properties. In a direct comparison to other devices in this price class the systems stand alone when it comes to the highest temperature control speed. All models are extremely space saving, simple to operate and can be used flexibly at operating temperatures of -40 to +200°C. There is available a water refrigerated version, consult us.

Within the gamma of dynamic temperature control systems we can find the models Tango and Unistat, which are also available. Contact us and we will make you an offer with the equipment, adapters, connection lines and thermofluids more adequate for your application.

Power supply: 230 V.

Type	T Range (°C)	T Stability (°C)	Thermal power (kW)	Cool. power (kW)	Pressure (l/min) - bar	Volume (l)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Petite Fleur	From -40 to 200	±0,01	1,5	0,5 (200°C)	33 - 0,9	1,5	260x504x450	1	1030000101

For further information, please contact scharlab@scharlab.com



Immersion coolers TC HUBER

The TC immersion coolers are suitable for unsupervised use, for cooling tasks which require continuous cooling. The models with the type affix "E" can regulate with a precision of $\pm 0,5K$ with a Pt100 probe (included in the standard equipment). The LED display has a resolution of 0,1K. Flexible cooling connection line, in special single-tube construction with a protective hose with smooth surface. The compact housing and the evaporator are made from high quality stainless steel. All models can be delivered with a flexible evaporator coil (no extra cost). The model name and number of these units have the suffix "-F".
 Power supply: 230 V.

Type	T Range (°C)	Refrigerator power (kW) at 0°C	Dim. WxHxD (mm)	Pack (u.)	Art. No.
TC100	From -100 to 40	0,16	294x560x470	1	3005000199
TC100E	From -100 to 40	0,16	294x560x470	1	3005000299
TC45	From -45 to 100	0,24	190x360x295	1	3003000199
TC45E	From -45 to 100	0,24	190x360x295	1	3003000299
TC50	From -50 to 50	0,3	260x415x330	1	3004000199
TC50E	From -50 to 50	0,3	260x415x330	1	3004000299



Recirculation thermostat Ultraterm-200 J.P. SELECTA

Microprocessor temperature control. The following parameters can be configured and shown on the LCD display:

- Maximum and minimum temperature limits.
- Select °C or °F
- Display resolution 0,1°C
- External temperature (Probe).
- Over temperature set limits for alarm.
- Calibration
- Low liquid level indicator.
- Power supply: 230 V.

Temperature probe PT100.

Heating element made of stainless steel INCOLOY resistant to high temperatures and corrosive environments.

Circulation Pump for internal or external temperature control. (Polarimeters, refractometers and viscometers, etc).

Cooling coil to maintain ambient temperatures using tap water.

External temperature control connection using a PT100 probe.

RS-232 interface for computer control or printing data.

External metal case coated in a corrosive resistant epoxy.

All parts in contact with liquid are made of AISI 304 stainless steel.

- Maximum working volume to maintain maximum temperature: 8 litres.
- AISI 304 stainless steel top and lid with an inner tank of AISI 310 stainless steel.
- A drain tap is also fitted.

Model	Capacity (l)	T Range (°C)	Usable dim. WxHxD (cm)	Ext. dim. WxHxD (cm)	Pump pressure /flow	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
ULTRATERM-200	8	+5 to 200	20x15x14	28x36x36	150mbar/12l/min	2060	9,5	1	0196000383

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Refrigerated cooling coils for baths Frigedor and Frigedor-Reg

J.P. SELECTA

Temperatures from -20°C to $+20^{\circ}\text{C}$.

Designed for bath and tank applications that require below ambient temperatures.

The unit is bench mountable and contains within the epoxy coated case a CFC free hermetically sealed compressor with condenser and evaporator, the cooling coil is made of AISI 304 stainless steel.

Coil: Refrigerated immersion length: 900mm, Cooling coil \varnothing : 45mm, Coil length: 150mm.

Mains switch with "ON" indicator lamp.

It is recommend to use thermally insulated baths (detailed before at Thermostats immersion Digiterm-100 and Digiterm-200).

Power supply: 230 V.

FRIGEDOR

- No temperature controller incorporated.
- Continually operates the compressor.

FRIGEDOR-REG

- Equipped with a temperature controller with digital control and display.
- Includes a PT100 temperature probe. Resolution: 1 digit.
- Mains switch with indicator "ON" lamp.
- Digital temperature controller with push buttons.
- Connector for the PT100 temperature probe.



FRIGEDOR



FRIGEDOR-REG

Model	T Range ($^{\circ}\text{C}$)	Stability ($\pm^{\circ}\text{C}$)	Ext. dim. WxHxD (cm)	Refrig. power (W)	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
FRIGEDOR	-20 to +20	-	21x41x34	At -20°C , 50	285	14	1	0193000778
FRIGEDOR-REG	-20 to +20	1,5	21x41x34	At -20°C , 50	285	14	1	0193001214

For further information, please contact scharlab@scharlab.com



Refrigerated recirculation baths Frigiterm-10 and Frigiterm-30

J.P. SELECTA

Microprocessor temperature control. The following parameters can be configured and shown on the LCD display:

- Maximum and minimum temperature limits.
- Select °C or °F
- Display resolution 0,1°C
- External temperature (Probe).
- Over temperature set limits for alarm.
- Calibration
- Low liquid level indicator.
- Power supply: 230 V.

Temperature probe PT100.

Heating element made of stainless steel INCOLOY resistant to high temperatures and corrosive environments.

Circulation Pump for internal or external temperature control. (Polarimeters, refractometers and viscometers, etc).

Cooling coil to maintain ambient temperatures using tap water.

External temperature control connection using a PT100 probe.

RS-232 interface for computer control or printing data.

External metal case coated in a corrosive resistant epoxy.

All parts in contact with liquid are made of AISI 304 stainless steel.

- Maximum working volume to maintain maximum temperature: 8 litres.
- AISI 304 stainless steel top and lid with an inner tank of AISI 310 stainless steel.
- Complete with a pump for internal and external liquid circulation with inlet and outlet connectors.
- A hermetically sealed compressor is mounted on anti-vibration mounts.
- A drain tap is placed at the side of the unit.

Model	Capacity (l)	T Range (°C)	Usable dim. WxHxD (cm)	Ext. dim. WxHxD (cm)	Pump pressure/flow	Consumption (W)	Weight (Kg)	Compressor power H.P.	Pack (u.)	Art. No.
FRIGITERM-10	8	-10 to +100	20x12x14	66x36x44	150mbar/12l/min	1150	28	1/8	1	0196000382
FRIGITERM-30	8	-30 to +100	20x12x14	66x36x44	150mbar/12l/min	1460	30	3/8	1	0196001091



Thermostats immersion Digiterm-100 and Digiterm-200

J.P. SELECTA

Microprocessor temperature control. The following parameters can be configured and shown on the LCD display:

- Maximum and minimum temperature limits.
- Select °C or °F
- Display resolution 0.1°C
- External temperature (Probe).
- Over temperature set limits for alarm.
- Calibration
- Low liquid level indicator.
- Power supply: 230 V.

Temperature probe PT100.

Heating element made of stainless steel INCOLOY resistant to high temperatures and corrosive environments.

Circulation Pump for internal or external temperature control. (Polarimeters, refractometers and viscometers, etc).

Cooling coil to maintain ambient temperatures using tap water.

External temperature control connection using a PT100 probe.

RS-232 interface for computer control or printing data.

External metal case coated in a corrosive resistant epoxy.

All parts in contact with liquid are made of AISI 304 stainless steel.

- Maximum working volume to maintain maximum temperature: 20 litres.
- A clamp and finger screw attach the unit to the tank, alternatively the extendible support bridge accessory can be used.
- Minimum fixing depth to the tank: 14cm.

Thermostats

Model	T Range (°C)	Stability (±°C)	Ext. dim. WxHxD (cm)	Pump pressure /flow	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
DIGITERM-100	+5 to 100	0,05	18x28x19	150mbar/5,6l/min	1060	3,9	1	0193000542
DIGITERM-200	+5 to 200	at 100°C, 0,05	18x28x19	150mbar/5,6l/min	2060	4,5	1	0193000613

→ Continued on the next page

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Accessories



Pt100 temperature sensor with handle



Extension support bridge

Description	Pack (u.)	Art. No.
Pt100 temperature sensor with handle	1	0191000893
Extension support bridge	1	0196001092

Baths. Double skinned with an AISI 304 stainless steel exterior and internal bath of AISI 310 stainless steel. Stainless steel baths, thermally insulated. Ideal for low temperatures. with internal expanded foam insulation that prevents external condensation or heat loss, working temperature range from -40°C to +90°C.



Type	Capacity (l)	Usable dim. WxHxD (cm)	Ext. dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Metallic	9	29x15x22	34x20x28	3,5	1	0196000390
Metallic	12	30x15x31	37x20x35	4,3	1	0196000391
Metallic with drain tap and lifting handle	20	48x15x30	55x20x35	6,6	1	0196000392
Metallic with drain tap and lifting handle	27	48x20x30	55x25x35	7,6	1	0196000393
Metallic with drain tap and lifting handle	45	62x15x50	70x23x56	11	1	0196001093
Special metal	9	29x15x22	40x24x34	6	1	0196003901
Special metal with drain tap and lifting handle	20	48x15x30	61x24x41	9	1	0196003921
Special metal with drain tap and lifting handle	27	48x20x30	61x29x41	11	1	0196003931



**Bridge mounted circulator SE-Z
JULABO**

Bridge mounted circulator with extendable bridge for any bath tank. The model offers high pump and heating capacities for temperature control of large baths up to 100 liters. Including a built-in cooling coil for counter-cooling with tap water.

Advantages:

- VFD COMFORT DISPLAY
- Keypad for setpoints, warning/safety values and menu functions
- ICC (Intelligent Cascade Control), self-optimizing temperature control
- ATC3 3-Point-Calibration
- Pt100 External sensor connection for measurement and control
- SMART PUMP, electronically adjustable pump stages
- Early warning system for low liquid level (DBGM 203 06 059.8)
- Adjustable high temperature cut-out, visible via display
- RS232 interface for online communication
- Integrated programmer for 10 program steps
- Expandable bridge from 31 to 66cm
- Built-in cooling coil

-Power supply: 230 V.

Type	T Range (°C)	T Stability (°C)	Heating (kW)	Pump flow (l/min)	Suction (bar)	Pressure (bar)	Pack (u.)	Art. No.
SE-Z	20 - 300	0,01	3	22 to 26	0,2 - 0,4	0,4 - 0,7	1	0009252218

For further information, please contact scharlab@scharlab.com



Heating circulator TopTech JULABO

Upper middle class with ext. Pt100 sensor connection +20°C..200°C.

JULABO constant temperature circulators with a stainless steel bath tank for internal and external temperature control tasks. They are designed primarily for external temperature control. They have elevated performance for controlling the temperature of large or open systems. Smaller objects may be inserted directly into the circulator's bath at the same time.

Advantages:

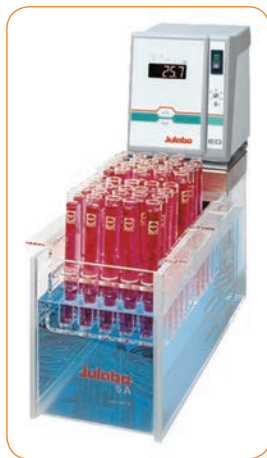
- VFD COMFORT DISPLAY
- Keypad for setpoints, warning/safety values and menu functions
- PID3 cascade temperature control
- ATC3 3-Point-Calibration
- Pt100 External sensor connection for measurement and control
- SMART PUMP, electronically adjustable pump stages
- Early warning system for low liquid level (DBGM 203 06 059.8)
- Adjustable high temperature cut-out, visible via display
- RS232 interface for online communication
- Integrated programmer for 10 program steps
- Integrated cooling coil for tap water connection for temperature applications below or near ambient temperature
- Includes 2 barbed fittings for tubing 8 and 10mm inner diameter each (pump connections with M10x1 female)

Technical data:

- Heating capacity: 2kW
- Temperature stability: $\pm 0,01^{\circ}\text{C}$
- Flow rate: 11 to 16l/min
- Pressure: 0,23 to 0,45bar
- Power supply: 230 V



Type	Volume (l)	Aperture WxD/H (cm)	Ext. dim. WxHxD (cm)	Pack (u.)	Art. No.
ME-6	6	130x150/200	210x420x430	1	0009162506
ME-12	12	220x150/200	300x450x430	1	0009162512



Heating circulator with open bath ED-5A JULABO

Open Bath Circulator with Plexiglas bath tank for internal and external temperature applications.

However these units are mainly used for internal temperature tasks performed directly in the bath. Temperature applications with external, closed systems are possible via the attachable pump connectors. There are a wide selection of models within the Economy and TopTech series' with different bath sizes and features. Different test tube racks and bath covers are available as accessories.

Advantages:

- Bright LED temperature display, resolution 0,1°C
- Keypad for setpoint, switches automatically to the actual value
- PID1 temperature control
- Adjustable high temperature cut-out / dry-running protection

Power supply: 230 V.

Type	T Range (°C)	T Stability ($\pm^{\circ}\text{C}$)	Heating (kW)	Pump flow (l/min)	Pressure (bar)	Pack (u.)	Art. No.
ED-5A	20 to 60	0,03	2	15	0,35	1	0009116305

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Heating circulators with open bath

JULABO

For internal temperature applications in the circulator bath up to 150°C, plus pump connections for external applications. With bath tanks made of stainless steel.

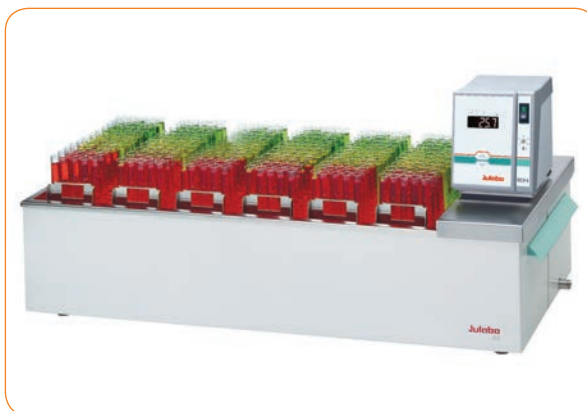
- Large bath openings for samples of any kind.
 - Incl. 2 barbed fittings for tubing 8 and 10mm inner Ø each (pump connections with M10 x 1 female).
 - Bright LED temperature display, resolution 0,1°C
 - Keypad for setpoint, switches automatically to the actual value
 - PID1 temperature control
 - Adjustable high temperature cut-out / low liquid level protection
- ED-5, EH-5 and MB-5 models: include bath cover and cooling coil.
EH-33 model: with integrated drain.

Technical data:

- Heat capacity: 2kW
- Bath opening (W x L)/depth (D): 15x15/15cm (ED-5/EH-5/MB-5); 67x30/15cm (EH-33)
- Dimensions (WxLxH): 17x33x36cm (ED-5/EH-5/MB-5); 91x33x38cm (EH-33)
- Power supply: 230 V



ED-5



EH-33

Type	T Range (°C)	T Stability (±°C)	Pump flow (l/min)	Pressure (bar)	Capacity (l)	Pack (u.)	Art. No.
EH-5	20 to 150	0,03	15	0,35	4,5	1	0009118405
EH-33	20 to 150	0,03	15	0,35	33	1	0009118433
MB-5	20 to 100	0,02	10	0,12	4,5	1	0009142405



Heating immersion circulators

JULABO

Heating Immersion Circulators with attachment clamp for any bath tank up to 50l. These units are equipped with a bath attachment clamp for wall thicknesses up to 26mm. Alternatively, the circulator may be fastened to a laboratory stand. The clamp makes it easy to install the circulator onto an existing bath tank. Parts that are immersed in bath liquid are constructed of high quality stainless steel or synthetic material. Common applications include controlling the temperature of samples, temperature testing of food or luxury articles, materials testing, and evaluation, adjustment, and calibration of thermometers and thermal switches. Its dimensions are 13x33x13cm (WxHxD). Immersion depth ranges from 8 to 14,5cm.

- The ME modelo can be externally connected to a Pt100 probe for measuring and control.
- The EH model has ATC calibration at one point and timer function.

Power supply: 230 V.

Thermostats

Type	T Range (°C)	T Stability (±°C)	Heating (kW)	Pump flow (l/min)	Pressure (bar)	Pack (u.)	Art. No.
ED	20 to 100	0,03	2	15	0,35	1	0009116000
EH	20 to 150	0,03	2	15	0,35	1	0009118000
MB	20 to 100	0,02	2	10	0,12	1	0009142000
ME	20 to 200	0,01	2	11 to 16	0,23 to 0,45	1	0009162000
MA	20 to 200	0,01	2	11 to 16	0,23 to 0,45	1	0009153000

→ Continued on the next page

Stainless steel bath tanks, to 150°C


Description	Volume (l)	Int. dim. WxHxD (cm)	Ext. dim. WxHxD (cm)	For models	Pack (u.)	Art. No.
Bath tank-5	5	33x15x15	33x18x19	ED, EH, MB, MC, ME	1	0009902405
Bath tank-13	13	33x15x30	38x18x33	ED, EH, MB, MC, ME	1	0009902413
Bath tank-17	17	33x20x30	38x23x33	ED, EH, MB, MC, ME	1	0009902417
Bath tank-19	19	50x15x30	56x18x33	ED, EH, MB, MC, ME	1	0009902419
Bath tank-27 with drain	27	50x20x30	56x23x33	ED, EH, MA, ME	1	0009902427
Bath tank-33 with drain	33	83x15x30	90x20x33	ED, EH, MA, ME	1	0009902433
Bath tank-39 with drain	39	50x30x30	54x35x33	ED, EH, MA, ME	1	0009902439

Makrolon® bath tank, to 100°C

Description	Volume (l)	Int. dim. WxHxD (cm)	Ext. dim. WxHxD (cm)	For models	Pack (u.)	Art. No.
Makrolon bath tank 5M	5	39x15x12	41x18x14	ED, MB	1	0009900505
Makrolon bath tank 13M	13	32x15x30	41x18x33	ED, EH	1	0009909513
Makrolon bath tank 19M	19	47x15x30	55x18x33	ED, EH	1	0009900519

Plexiglass®-bath tank, to 60°C

Description	Volume (l)	Int. dim. WxHxD (cm)	Ext. dim. WxHxD (cm)	For models	Pack (u.)	Art. No.
Plexiglass-bath tank 5A	5	39x15x12	41x17x14	ED, MB	1	0009900305
Plexiglass-bath tank 7A	7	49x15x12	51x17x14	ED, MB	1	0009900307
Plexiglass-bath tank 13A	13	32x15x30	41x17x33	ED, MB, MA	1	0009900313
Plexiglass-bath tank 19A	19	47x15x30	55x17x33	ED, MB, MA	1	0009900319


**Immersion coolers
JULABO**

JULABO immersion coolers are primarily employed for countercooling open bath circulators to ambient temperature or below as well as for rapidly cooling liquids. They have a small footprint and represent an economic solution preventing tap water usage for cooling. Ease of operation make this model series the ideal instruments for a variety of cooling applications. The models with integrated temperature control and external Pt100 sensor can hold any desired temperature constant.

Advantages:

- Rapid cooling of liquids down to low temperatures
- Counter-cooling of liquids in combination with heating circulators
- Environmentally friendly by saving precious tap water
- FT402 and FT902 with temperature control and display as well as
- External Pt100 sensor (200 x 6mm dia., stainless steel)
- User-friendly operation and handling
- Compact design, small footprint
- Dry ice substitution
- Environmentally friendly by conserving precious tap water
- Integrated temperature control and display
- With external Pt100 sensor (200 x6mm Ø, stainless steel)

Technical data:

- FT402. Hose length: 1200mm
- FT902. Hose length: 1600mm
- FT402. Immersion probe / flex. probe (Lengthxdiameter): 12x5cm
- FT902. Immersion probe / flex. probe (Lengthxdiameter): 65x1,5cm flexible
- Power supply: 230 V

Type	T Range (°C)	Refrig. 20/10/-20/-40/-80°C (kW)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
FT402	-40 to +30	0,45/0,36/0,14/0,03/-	200x430x300	1	0009650842
FT902	-90 to +30	0,3/0,27/0,24/0,2/0,07	380x600x550	1	0009650892



F250 recirculating cooler

JULABO

JULABO F models require very little space and have very low procurement costs. Recirculating coolers of the F Series are a great way to replace costly tap water and are ideal for basic cooling tasks.

Advantages:

- Environmentally-friendly operation with low energy consumption
- Compact design
- Splash-proof membrane keypad with LED temperature display
- Straightforward filling and draining
- Filling level indicator
- May be used with water, water/glycol, JULABO Thermal G

Technical data:

- Working temperature range (°C) -10 to 40
- Temperature stability (°C) ±0,5
- Setting / display resolution 0,1°C
- Temperature Display LED
- Cooling capacity (Medium Ethanol): 20°C 0,25 kW, 10°C 0,22 kW, 5°C 0,21 kW, 0°C 0,18 kW, -5°C 0,09 kW
- Pump capacity flow rate (l/min) 15
- Pump capacity flow pressure (bar) 0,35
- Pump connections M10x1
- Filling volume (liters) 1,7 to 2.6
- Dimensions W x L x H (cm) 24 x 40 x 52
- Weight (kg) 27
- Included with each unit 2 each barbed fittings for tubing 8 and 10mm inner diameter (pump connections M10x1 male)

- Cooling of compressor: Air
- Power supply: 230 V

Description	Pack (u.)	Art. No.
Recirculating Cooler EcoChiller F250	1	0009620025



Refrigerated/heating circulator Economy Series

JULABO

For routine applications with nonflammable bath fluids. Temperature control of external systems. Bath opening for internal applications.

Powerful circulating pump systems and high heating and cooling capacities guarantee short heat-up and cool-down times. Easily removable venting grill, which allows an easy cleaning. Depending on the model, the units are equipped with handles or castors for an easy transportation. All models have a drain screw on the front allowing the fluid to be drained easily. The compact assembly of each unit enables a space to be saved in the laboratory.

Advantages:

- Bright LED temperature display, resolution 0,1°C
- Keypad for setpoint, switches automatically to the actual value
- PID1 temperature control
- Adjustable high temperature cut-out / dry-running protection
- Includes 2 barbed fittings for tubing 8 and 10mm inner diameter each (pump connections with M10x1 female)
- Cooling of compressor: Air

Technical data:

- Heating capacity: 2kW
- Stability: ±0,03°C
- Flow rate: 15l/min
- Pressure: 0,35bar
- Cooling capacity at 20/0/-20°C: 0,16/0,1/0,02 kW (F12-ED); 0,45/0,32/0,14 kW (F34-ED)
- Power supply: 230 V

Type	T Range (°C)	Volume (l)	Aperture WxD/H (mm)	Ext. dim. WxHxD (mm)	Pack (u.)	Art. No.
F12-ED	-20 to +100	4,5	130x150/130	200x560x360	1	0009116612
F34-ED	-20 to +100	20	240x300/150	380x620x580	1	0009116634

For further information, please contact scharlab@scharlab.com

Temperature control system Presto® PLUS

JULABO

The Highly Dynamic Temperature Control Systems Presto and Magnum are the perfect solution for precise, external temperature applications. The units offer extremely rapid heat-up and cool-down times, wide working temperature ranges without the necessity of changing fluids and exceptional performance at reduced dimensions. The units provide self-optimizing ICC Intelligent Cascade Control. All models have a backlit, 4-line LCD display and a bright VFD-Info-Display. The pump pressure is adjustable in stages and indicated on the illuminated display. All this together with the splash-proof keypad and the high temperature cut-out (safety value) ensure safe and convenient operation. Reciprocal sensor monitoring, self-test after switch-on, pump motor and compressor overload protection as well as permanent performance supervision of sensors guarantee reliable performance and provide high safety for your samples. Analog connections, digital interfaces and the optional Profibus allow future-oriented automation technology. The high standard of heating, cooling and pump capacities in combination with outstanding ICC temperature control help to produce reliable and quick results.

Advantages:

- For highly precise, external temperature applications
- Rapid heating and cooling
- For isotherm realization of chemical processes
- Wide working temperature ranges without changing fluids
- Highest performance with small footprint
- Bright VFD-Info-Display and interactive LCD display
- RS232 interface for on-line communication (LIMS capability)
- RS485 interface for bus data exchange
- Analog setpoint/programmer input (0 to 20mA / 0 to 10V)
- Upper and lower temperature warning functions with interval tone
- Integrated programmer stores up to 6 profiles (60 sections each)
- Removable control module
- Filling system accessible from the front
- Removable venting grid for simplified removal of dust

Technical data:

- Temperature stability (°C) ±0,01-0,05
- Pump capacity flow rate (l/min) 16-30
- Cooling of compressor: air (LH40, LH47); water (LH41, LH50), air/water (LH46, LH50)
- Power supply: 230 V



LH41



LH47

Type	T Range (°C)	Thermal power (kW)	Refrig. 200/20/-20 /-40°C (kW)	Capacity (l)	Pressure (bar)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
LH40	-40 to +250	2,6	1,6/0,9/0,35/0,01	3,1	0,5 to 1,6	300x640x490	1	0009410240
LH41	-40 to +250	2,6	1,6/1,0/0,40/0,05	3,1	0,5 to 1,6	300x640x490	1	0009410241
LH46	-45 to +250	2	2,5/2,3/0,70/0,10	3,7	0,5 to 1,6	500x640x590	1	0009410246
LH47	-47 to +250	2	3,7/3,0/0,90/0,20	5,7	0,5 to 1,6	400x1270x550	1	0009410247
LH50	-50 to +250	6	5,5/7,0/2,60/0,50	13,5	0,7 to 2,2	400x1270x550	1	0009410250
LH85	-80 to +250	1,8	1,4/0,9/0,80/0,70 /0,5/0,01 (-80)	3,7	0,5 to 1,6	500x640x590	1	0009410285

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BATHS: Ultrasonic baths

Accessories for baths Sonorex BANDELIN

Baskets made from stainless steel mesh or perforated plastic. Basket with a maximum capacity of 10kg.



K 08



K 3 C

Description	For models	Dim. WxHxD (mm)	Pack (u.)	Art. No.
K08, stainless steel	RK 31 / H; DT 31 / H	170x50x65	1	000000209
K1C, stainless steel	RK 52/H; DT 52/H	120x40x110	1	000003024
K3C, stainless steel	RK 100/H, 102 H; DT 100/H, 102 H/H-RC; DK 102 P	200x40x110	1	000003025
K3CL, stainless steel	RK 103H; DT 103 H	200x40x110	1	000003026
K5C, stainless steel	RK 255/H; DT 255/H/H-RC; DK 255 P	260x40x110	1	000003027
K6, stainless steel	RK 106; DT 106	0x50x215	1	000000356
K6L, stainless steel	RK 156; DT 156	460x50x100	1	000000202
K6BL, stainless steel	RK 156 BH; DT 156 BH; DK 156 BP	460x50x100	1	000000629
K10, stainless steel	RK 510/H; DT 510/H/H-RC	250x50x195	1	000000359
K10B, stainless steel	RK 512 H/CH; DT 512 H; DK 512 P	250x50x195	1	000000230
K14, stainless steel	RK 514/H; DT 514/H	275x50x245	1	000000354
K14B, stainless steel	RK 514 BH; DT 514 BH/BH-RC; DK 514 BP	275x50x245	1	000000205
K28, stainless steel	RK 1028/H; DT 1028/H; DK 1028 P	455x50x245	1	000000358
K28 C, stainless steel	RK 1028 C, 1028 CH; DT 1028 CH	455x50x245	1	000000181
K40, stainless steel	RK 1040	0x50x480	1	000000123
K50C, stainless steel	RK 1050 CH; DT 1050 CH	545x50x450	1	000000138
MK180, stainless steel	RM 180 UH	940x90x460	1	0000008424
PK1C, plastic	RK 52/H; DT 52/H	90x66x90	1	0000003046
PK2C, plastic	RK 100/H, 102 H; DK 102 P; DT 100/H, 102 H/H-RC	187x56x90	1	0000003082
PK3C, plastic	RK 103 H, DT 103 H	187x56x90	1	0000003047

GV Handles for baskets. Registered patent 200 017 14. Stainless steel. GV handles make a continuous adjustment of the immersion baskets depth. They don't float, don't tip over, and laboratory flasks don't get flooded. Fast and easily fixed to the baskets.



Description	For models	Pack (u.)	Art. No.
GV 3, Handles	K 1 C, K 3 C / CL, K 5 C, K 6 BL	2	000000079
GV 10, Handles	K 10, K 10 B, K 14 B, K 28 / C	2	000000092

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Lids made of stainless steel, for protecting the liquid from external dirt. Condensation drops into the oscillating tank.



Description	For models	Pack (u.)	Art. No.
D08, stainless steel	RK31/H; DT31/H	1	000000218
D52, stainless steel	RK 52/H; DT 52/H	1	0000003002
D100, stainless steel	RK 100/H, 102 H, 103 H, 103 CH; DT 100/H, 102 H/H-RC, 103 H; DK 102 P	1	0000003003
D510, stainless steel	RK 510/H, 512 H/CH; DT 510/H/H-RC, 512 H; DK 512 P	1	0000003008
D514, stainless steel	RK 514/H, 514 BH; DT 514/H, 514 BH/BH-RC; DK 514 BP	1	0000003010
D6, stainless steel	RK 106; DT 106	1	0000000346
D156, stainless steel	RK 156, 156 BH; DT 156, 156 BH; DK 156 BP	1	0000003004
D255, stainless steel	RK 255/H; DT 255H/H-RC; DK 255 P	1	0000003007
D1028, stainless steel	RK 1028/H; DT 1028/H; DK 1028 P	1	0000003011
D1028 C, stainless steel	RK 1028 C, 1028 CH; DT 1028 CH	1	0000003012
D40, stainless steel	RK 1040	1	0000000603
D1050 C, stainless steel	RK 1050, 1050 CH; DT 1050 CH	1	0000003013
MD40, stainless steel	RM 40 UH	1	0000008442
MD180, stainless steel	RM 180 UH	1	0000008447



Cleaning solutions for ultrasonic baths

BANDELIN

- Stammopur 24. Slightly alkaline solution, pH 9,4 (1%). Simultaneous intensive cleaning and disinfection, residue-free rinsing, neutral scent. Very gentle to material, anticorrosive. Free from aldehydes, chlorine and phenols. Extended endurance of the used solution: 3 days. Bactericidal (incl. Tb-B.), fungicidal, virucidal against Vaccinia, BVDV, influenza virus, H5N1, HBV, HCV, HIV. Mildly alkaline, pH 9,4 (1%), dosage 1%, 15min (with ultrasound). Contamination: general contamination, biofilms, soot, pigments, oil- and fat-containing residues etc. Objects to be cleaned can be glass, ceramics, plastics, rubber, steel, stainless steel, non-ferrous-, precious- and light metals, instruments, pipettes, respirators, protective goggles etc.

- Tickopur R 60. Intensive cleaner, without phosphate. Alkaline, pH 12,8 (1%), dosage 2 to 20%, 1 to 10min. Contamination: coking residues, resinous residues, soot, pigments, grease, oil, wax, silicone oil, coloured fog, drilling-, grinding-, polishing- and lapping residues. Objects to be cleaned can be glass, ceramics, plastics, rubber, steel, stainless steel. Not for light metals, tin and zinc!

- Tickopur R 27. Special cleaner based on phosphoric acid, anticorrosive, acid, pH 1,9 (1%), dosage 5%, 1 to 10 min. Contamination: heavy mineral residues like lime, silicate, phosphate, rust, cement, temper colours, metal oxides, grease and oil films etc. Objects to be cleaned can be glass, ceramics, plastics, rubber, steel, stainless steel, precious metals. Not for light and non-ferrous metals, tin and zinc!

- Tickopur RW 77. Special cleaner with ammonia, without phosphate, gentle to material, mildly alkaline, pH 9,9

(1%), dosage 5%, 1 to 10min. Contamination: resinous residues, soot, grease, oils, waxes, pigments, coloured fog, silicone oils, flux media, oxides on copper, brass, bronze and precious metals. Objects to be cleaned can be glass, ceramics, plastics, rubber, steel, stainless steel, non-ferrous- and precious metals, analysis sieves. Caution with light metals!

- Tickopur R 30. Neutral cleaner - gentle cleaning, anticorrosive, neutral, pH 7, dosage 1 to 5%, 1 to 10min. Contamination: light drilling-, grinding-, polishing- and lapping residues, dust, soot, oily and greasy residues etc. Objects to be cleaned can be glass, ceramics, plastics, rubber, steel, stainless steel, non-ferrous-, precious- and light metals.

- Tickopur J 80 U. Deoxidation with tarnish protection, ready for use, cyanide-free, acid, pH 1,5. Application only in insert beakers! Application with ultrasonic: < 30s. Contamination: layers of oxides and sulfides, flux. Objects to be cleaned can be precious metals and their alloys, copper, bronze, brass.

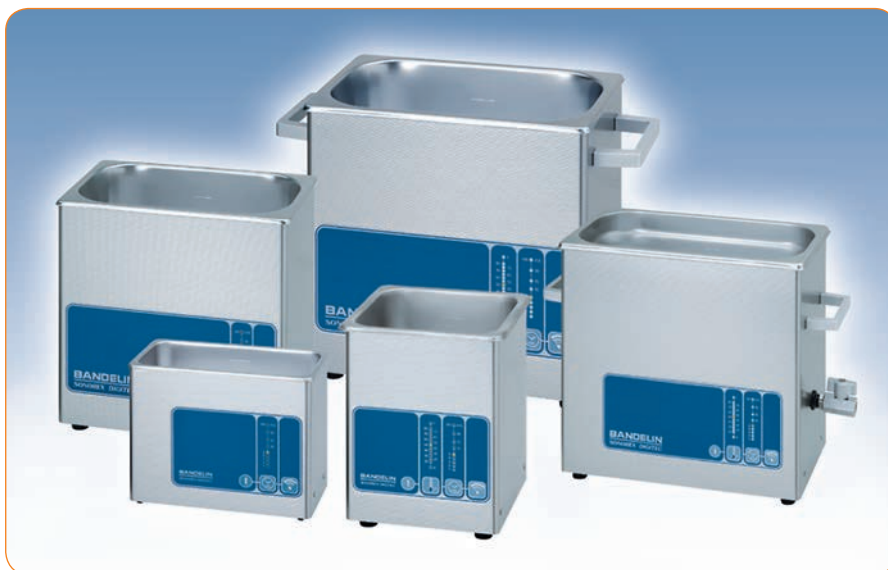
- Tickopur TR 7. Universal cleaner. Demulsifying, mildly alkaline, pH 8,9 (1%). Application 0,1 to 5%, 1 to 10min. Contamination: fat, oil, wax, pigments, flux, soldering pastes, drilling-, grinding-, polishing- and lapping residues. Objects to be cleaned can be metal, glass, ceramic, plastics, rubber etc.

- Tickopur R 33. Universal cleaner anticorrosive for laboratory, service and industry, gentle cleaning, mildly alkaline, pH 9,9 (1%), dosage 1 to 5%, 1 to 10min. Contamination: general contamination, oily and greasy residues, soot, ink, drilling-, grinding-, polishing- and lapping residues etc. Objects to be cleaned can be glass, ceramics, plastics, rubber, steel, stainless steel, non-ferrous-, precious- and light metals, sieves, pipettes, respirators, PC-boards, glasses. Caution with tin and zinc!

- Tickopur TR 14. Flux remover. Free of organic solvents, tenside-free - non-foaming, alkaline, pH 10,7 (1%). Application 10%, 30 to 180s. Contamination: resinous flux, soldering pastes, ionic- and non-ionic residues, drilling-, grinding-, polishing- and lapping residues, fingerprints, fat, oil etc. Objects to be cleaned can be printed circuit boards, printed-board assemblies, soldering frames, electronic components and assemblies, parts made of metal, glass, ceramics, plastics, rubber etc.

Description	Volume (l)	Pack (u.)	Art. No.
Stammopur 24	2	1	0000000977
Tickopur R 60	5	1	0000000818
Tickopur R 27	1	1	0000000815
Tickopur RW 77	1	1	0000000870
Tickopur R 30	2	1	0000000879
Tickopur J 80	1	1	0000000880
Tickopur TR 7	5	1	0000000838
Tickopur R 33	1	1	0000000830
Tickopur TR 14	5	1	0000000861

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Ultrasonic cleaning units Sonorex Digitec BANDELIN

Housing made of stainless steel, protected against spray, timer for count-down and continuous operation, 'H'-types with built-in heating 20 to 80°C, degas function, optical signal in case of excess temperature.

- Cleaning of technical glassware like burettes, pipettes, petri dishes and laboratory flasks.
- Disinfection and cleaning at the same time.
- Degassing of beer samples for analysis of alcohol contents, original worth, colour, pH value.
- Degassing of food samples from cans for analysis of stannous contents.
- Extraction of quaternary ammonium compounds (QAC) of wood.
- Extraction of herbs samples for determination of aflatoxins (causing mold decay on food).
- Extraction of soil samples for determination of hydrocarbons.

- Test method for freeze-thaw resistance of concrete: CDF test - through sonication, loosely adhering scaled particles are removed from surface.
- SweepTec®
- Power supply: 230 V.

Model	Volume (l)	Ext. dim. WxHxD (mm)	Dim. int WxHxD (mm)	Heat power (W)	Heating	Drain duct	Pack (u.)	Art. No.
DT 31	0,9	205x170x100	190x60x85	-	No	-	1	0000003200
DT 31 H	0,9	205x170x100	190x60x85	70	Yes	-	1	0000003220
DT 52	1,8	175x230x165	150x100x140	-	No	-	1	0000003205
DT 52 H	1,8	175x230x165	150x100x140	140	Yes	-	1	0000003225
DT 100	3	260x250x160	240x100x140	-	No	-	1	0000003210
DT 100 H	3	260x250x160	240x100x140	140	Yes	-	1	0000003230
DT 102 H	3	260x250x160	240x100x140	140	Yes	G 1/4	1	0000003235
DT 103 H	4	260x310x160	240x150x140	200	Yes	G 1/4	1	0000003201
DT 106	5,6	∅ 265x270	∅ 240x130	-	No	G 1/4	1	0000003270
DT 156	6	530x245x165	500x100x140	-	No	G 1/4	1	0000003275
DT 156 BH	9	530x300x165	500x150x140	600	Yes	G 1/4	1	0000003221
DT 255	5,5	325x295x175	300x150x150	-	No	G 1/4	1	0000003215
DT 255 H	5,5	325x295x175	300x150x150	280	Yes	G 1/4	1	0000003240
DT 510	9,7	325x305x265	300x150x240	-	No	G 1/2	1	0000003245
DT 510 H	9,7	325x305x265	300x150x240	400	Yes	G 1/2	1	0000003206
DT 512 H	13	325x350x265	300x200x240	400	Yes	G 1/2	1	0000003226
DT 514	13,5	355x305x325	325x150x300	-	No	G 1/2	1	0000003250
DT 514 H	13,5	355x305x325	325x150x300	600	Yes	G 1/2	1	0000003211
DT 514 BH	18,7	355x385x325	325x200x300	600	Yes	G 1/2	1	0000003216
DT 1028	28	535x400x325	500x200x300	-	No	G 1/2	1	0000003255
DT 1028 H	28	535x400x325	500x200x300	1300	Yes	G 1/2	1	0000003231
DT 1028 CH	45	540x500x340	500x300x300	1450	Yes	G 1/2	1	0000003266

For further information, please contact scharlab@scharlab.com



RK 510 H

Ultrasound cleaning units Sonorex Super BANDELIN

PZT-transducers produce the high-powered ultrasonic intensity throughout the entire oscillating tank. Concentrated ultrasonic energy without irritating surface waves. Constant power and automatic frequency control always ensure optimum distribution of ultrasonic energy and reproducible results, regardless of the sizes of the pieces to be cleaned.

Features:

- PZT-large area oscillating systems
- HF-Frequency 35kHz, SpeedTec®
- Timer 1 - 15 minutes and continuous operation
- H-types with built-in heating, 30 - 80°C (86 to 176°F) thermostatically adjustable, RK 31 H
- Fixed at 65°C/149°F
- Oscillating tank of stainless steel, RK 102 H stainless steel, hard chromium plated
- Housing of stainless steel - drip proof
- Drain cock included for easy emptying (from RK 100 SH upward)
- Power supply: 230 V.

Model	Volume (l)	Ext. dim. WxHxD (mm)	Dim. int WxHxD (mm)	Heat power (W)	Heating	Drain duct	Pack (u.)	Art. No.
RK 31	0,9	205x170x100	190x60x85	-	No	-	1	0000000329
RK 52	1,8	175x225x165	150x100x140	-	No	-	1	0000000311
RK 52 H	1,8	175x225x165	150x100x140	140	Yes	-	1	0000000164
RK 100	3	260x250x160	240x100x140	-	No	-	1	0000000301
RK 100 H	3	260x250x160	240x100x140	140	Yes	-	1	0000000312
RK 102 H	3	260x310x160	240x100x140	140	Yes	G 1/4	1	0000000303
RK 103 H	4	160x310x260	240x150x140	200	Yes	G 1/4	1	0000000326
RK 106	5,6	Ø 265x270	Ø 240x130	-	No	G 1/4	1	0000000306
RK 156	6	530x245x165	500x100x140	-	No	G 1/4	1	0000000305
RK 156 BH	9	530x300x165	500x150x140	600	Yes	G 1/4	1	0000000646
RK 255 H	5,5	325x305x175	300x150x150	280	Yes	G 1/4	1	0000000316
RK 510	9,7	325x305x265	300x150x240	-	No	G 1/2	1	0000000327
RK 510 H	9,7	325x305x265	300x150x240	400	Yes	G 1/2	1	0000000321
RK 512 H	13	325x350x265	300x200x240	400	Yes	G 1/2	1	0000000795
RK 514	13,5	355x305x325	325x150x300	-	No	G 1/2	1	0000000277
RK 514 H	13,5	355x305x325	325x150x300	600	Yes	G 1/2	1	0000000207
RK 514 BH	18,7	355x385x325	325x200x300	600	Yes	G 1/2	1	0000000263
RK 1028	28	535x400x325	500x200x300	-	No	G 1/2	1	0000000322
RK 1028 H	28	535x400x325	500x200x300	1300	Yes	G 1/2	1	0000000324
RK 1028 C	45	540x500x340	500x300x300	-	No	G 1/2	1	0000000661
RK 1028 CH	45	540x500x340	500x300x300	1450	Yes	G 1/2	1	0000000143
RK 1040	38	Ø 540x500	Ø 500x195	-	No	G 1/2	1	0000000319
RK 1050 CH	90	640x530x540	600x300x500	1950	Yes	G 1/2	1	0000000184



Accessories for Elma ELMA

→ Continued on the next page

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Cover

Description	For model	Capacity (l)	Pack (u.)	Art. No.
Plastic	Elmasonic 10	0,8	1	00100-3278
Plastic	Elmasonic 15	1,75	1	00100-3280
Plastic	Elmasonic 30/40	2,75/4,25	1	00100-3281
Plastic	Elmasonic 60	5,75	1	00100-3282
Plastic	Elmasonic 70/80	6,9/9,4	1	00100-3283
Plastic	Elmasonic 100/120	9,5/12,75	1	00100-3285
Plastic	Elmasonic 180	18	1	00100-3286
Plastic	Elmasonic 300/150	28	1	00100-3287
Stainless steel	Elmasonic 30/40	2,75/4,25	1	2070300000
Stainless steel	Elmasonic 60/60H	5,75	1	2070930000
Stainless steel	Elmasonic 10/10H	0,8	1	2070520000
Stainless steel	Elmasonic 15/15H	1,75	1	2070290000

Baskets. It's very important use baskets to protect the bath

Description	For model	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Stainless steel	Elmasonic 10	73x177x30	1	00100-4170
Stainless steel	Elmasonic 15	103x112x103	1	00100-4209
Stainless steel	Elmasonic 30	106x198x50	1	00100-4176
Stainless steel	Elmasonic 40	105x190x75	1	00100-4232
Stainless steel	Elmasonic 60	115x225x75	1	00100-4243
Stainless steel	Elmasonic 70	106x465x50	1	00100-4247
Stainless steel	Elmasonic 80	106x455x75	1	00100-4265
Stainless steel	Elmasonic 120	190x250x115	1	00100-4277
Stainless steel	Elmasonic 150	250x455x55	1	00103-1243
Stainless steel	Elmasonic 180	250x280x115	1	00100-4275
Stainless steel	Elmasonic 300	250x455x115	1	00100-4271



Cleaning solutions for ultrasonic baths

ELMA

- A20sf: Universal cleaning solution, mildly alkaline, of glassware (calibrated pipettes, burettes, measuring cylinders & volumetric graduated vessels); instruments of volumetric analysis from stainless steel, glass, ceramics and plastic materials. Not for aluminium, magnesium & alloys of light-metals.
- A25: Universal cleaning solution, alkaline, for Labware & medical instruments from metal, alkali-resistant glass, porcelain, ceramic and alkali-resistant plastic materials. Not for aluminium, magnesium & alloys of light-metals. Removes blood, saliva, protein, and other organic substances.
- N10: Neutral cleaning solution. Suitable for cleaning of sensitive materials, such as aluminum and light metals. Removes soaps, light oils and fingerprints and grease.
- S10: Acidic cleaning solution for Labware from metal (incl. aluminium & its alloys), glass, ceramic and plastic materials. Check magnesium alloys & acidsensitive glassy materials before. Removes Ca- and Mg-bound contaminations (lime, lime soaps); oxides and tarnish of brass, bronze (colored metals); light mineral oils & greases, emulsions, fingerprints, dust.
- A10: Universal cleaning solution, mildly alkaline, for Labware from metal, glass, porcelain, ceramic and plastic materials. Not for aluminium, magnesium & alloys of light-metals. Removes emulsions, greases & oils, greases for ground-glass joints, weakly resinified residues, markings, labels, fingerprints and dust, lime soaps and lime residues.
- S20: High acidic cleaning solution for Labware. Removes easily Ca- and Mg-bound contaminations (lime, lime soaps); metal oxides (rust), flux- and inorganic residues; mineral oils & greases, emulsions, fingerprints, dust. Not for aluminium, magnesium and alloys of light metals.

Description	Volume (l)	Pack (u.)	Art. No.
Elma Lab Clean A20sf	1	1	0008000055
Elma Lab Clean A25	1	1	0008000085
Elma Lab Clean N10	1	1	0008000075
Elma Lab Clean S10	1	1	0008000095
Elma Lab Clean A10	1	1	0008000180
Elma Lab Clean S20	1	1	0008000190

For further information, please contact scharlab@scharlab.com



P 30 H

Ultrasonic cleaning units Elmasonic P line ELMA

Ultrasonic cleaning units in six different sizes. Digital displays, self-explanatory operation, clear indication of all parameters, set and actual values at a glance. Two different ultrasonic frequencies in one unit (frequency can be changed during operation):

- 37 kHz: for coarse contaminations, for dissolving, blending, dispersing and degassing.
- 80 kHz: noise-reduced operation, ideal for quiet work areas, prolonged ultrasonic cleaning cycle, perfect for the cleaning of hollow spaces, e. g. capillaries.
- Elmasonic P 30 SE without drain duct.

Features:

- Normal: standard operation mode for laboratory applications such as blending, dissolving, dispersing
- Pulse: activatable power increase of approx. 20% by enforcement of the peak performance
- Sweep: for an even distribution of the power in the cleaning tank
- Degas: for the quick degassing of HPLC samples or solvents
- Power control: for sensitive surfaces the ultrasonic power can be reduced in preset steps

Model	Volume (l)	Ext. dim. WxHxD (mm)	Dim. int WxHxD (mm)	Heat power (W)	Heating	Drain duct	Pack (u.)	Art. No.
P 30 H	2,75	300x221x179	240x100x137	200	Yes	Yes	1	00101-3737
P 30 SE	2,75	300x221x179	240x100x137	200	Yes	No	1	00104-6694
P 60 H	5,75	365x271x186	300x150x151	400	Yes	Yes	1	00101-3761
P 70 H	6,9	568x221x179	505x100x137	600	Yes	Yes	1	00101-3735
P 120 H	12,75	365x321x278	300x200x240	800	Yes	Yes	1	00101-3777
P 180 H	18	390x321x340	327x200x300	800	Yes	Yes	1	00101-3804
P 300 H	28	568x321x340	505x200x300	1.200	Yes	Yes	1	00101-3810



S 30 H

Ultrasonic cleaning units Elmasonic S line ELMA

Available in 10 different sizes 0,8 to 28l.

- Electronic timer till 30 min and continuous: precise time adjustment for reliable and repeatable process times. Optimised process control by: display of pre-selected operation time (fix LED) and remaining runtime (blinking LED).

- Electronic temperature selection: precise temperature adjustment for reliable and repeatable process conditions. Optimised process control by: display of pre-selected temperature (fix LED) and actual temperature (blinking LED).

- Dry run proof ceramic heating: to deliver the most robust tool for the daily usage.

- Start / Autostart - option:

Start: Start operation of unit at any time.

Autostart: Start operation only after pre-selected temperature is reached.

- Three different modes: Degas, Normal & Sweep:

Fast degassing with options Degas / Autodegas.

Normal mode: Creates optimised water movement for lab work e. g. solving, mixing etc.

Sweep mode: Better and faster cleaning due to homogenous distribution of ultrasound.

- Frequency: 37 kHz.

Model	Volume (l)	Dim. int WxHxD (mm)	Heating	Drain duct	Pack (u.)	Art. No.
S 10	0,8	190x60x85	-	-	1	00100-5507
S 10 H	0,8	190x60x85	Yes	-	1	00100-1214
S 15	1,75	151x100x137	-	-	1	00100-4626
S 15 H	1,75	151x100x137	Yes	-	1	00100-2060
S 30	2,75	240x100x137	-	Yes	1	00100-4631
S 30 H	2,75	240x100x137	Yes	Yes	1	00100-1955
S 40	4,25	240x150x137	-	Yes	1	00100-4635
S 40 H	4,25	240x150x137	Yes	Yes	1	00100-2006
S 60	5,75	300x150x151	-	Yes	1	00100-4643
S 60 H	5,75	300x150x151	Yes	Yes	1	00100-2238
S 70	6,9	505x100x137	-	Yes	1	00100-4650
S 70 H	6,9	505x100x137	Yes	Yes	1	00100-2140
S 80	9,4	505x150x137	-	Yes	1	00100-4652
S 80 H	9,4	505x150x137	Yes	Yes	1	00100-2170
S 120	12,75	300x200x240	-	Yes	1	00100-4658
S 120 H	12,75	300x200x240	Yes	Yes	1	00100-2825
S 150	14	505x100x300	-	Yes	1	00100-8721
S 180	18	327x200x300	-	Yes	1	00100-4662
S 180 H	18	327x200x300	Yes	Yes	1	00100-2877
S 300	28	505x200x300	-	Yes	1	00104-9018
S300 H	28	505x200x300	Yes	Yes	1	00104-9017



Heating cleaning bath Ultrasons-HD

J.P. SELECTA

Digital electronic regulation of temperature and time. For temperatures from ambient +5°C till 80°C. Optimum cleaning efficiency. Power supply: 230 V.

Features:

- Double body container, completely made of stainless steel and with waste drain device

Control panel:

- Illuminated main switch
- Start-stop push button
- Increase/decrease time push button in minutes (from 0' to 60')
- Increase/decrease temperature push button in °C

It comes complete with a universal basket, small basket for small items, lid with handle and drain device.

Capacity (l)	Ext. dim. WxHxD (cm)	Int. dim. WxHxD (cm)	Generator power (W)	Heater power W	Weight (Kg)	Voltage (V)	Pack (u.)	Art. No.
5	31x27x18	24x15x14	120	75	3,8	75	1	0193000865
6	35x27x18	30x15x15	180	75	5,8	75	1	0193000866
10	38x35x28	30x15x24	240	225	8,2	225	1	0193000867
22	58x27x35	50x15x30	600	375	15	375	1	0193000868

BATHS: Water and oil baths

Accessories for baths Precisdig and Precistern

J.P. SELECTA

The perforated lid avoids the lock of the Makrolon® folding lid.



Fixed, constant liquid level



Thermometer support with locking screw



Thermometer

Description	For models	Pack (u.)	Art. No.
Support frame	For model of 5l	1	0191001199
Support frame	For model of 12l	1	0191001200
Support frame	For model of 20l	1	0191001201
Support frame	For model of 45l	1	0191001205
Rack for 24 tubes up to 16mm Ø	For all models except 2l	1	0191001203
Rack for 24 tubes up to 20mm Ø	For all models except 2l	1	0191001204
Rack for 36 tubes up to 13mm Ø	For all models except 2l	1	0191001202
Fixed, constant liquid level	For all	1	0196000123
Lid with concentric reduction rings	For model of 2l	1	0196003231
Lid with concentric reduction rings	For model of 5l	1	0196003232
Lid with concentric reduction rings	For model of 12l	1	0196003234
Lid with concentric reduction rings	For model of 20l	1	0196003236
Lid with concentric reduction rings	For model of 45l	1	0196001603
Gable lid	For model of 5l	1	0196000710
Gable lid	For model of 12l	1	0196000711
Gable lid	For model of 20l	1	0196000712
Gable lid	For model of 45l	1	0196000714
Thermometer support with locking screw	Only for Precistern	1	0196000896
Thermometer up to 120°C	Only for Precistern	1	0191000120
Thermometer up to 120°C extra long	Only for Precistern, gable lid	1	0191000872
Thermometer up to 200°C	Only for Precistern	1	0191000200
Thermometer up to 200°C extra long	Only for Precistern, gable lid	1	0191000873



**Water and oil baths Precistern
J.P. SELECTA**

Adjustable temperature range from ambient +5°C up to 110°C. Stability±1°C.
Adjustable temperature range from ambient +5°C up to 200°C. Stability±2°C.
Power supply: 230 V.

- Features:**
- Capacity; from 2 liters up to 45 liters.
 - Double skinned tank of AISI 310 stainless steel with an exterior case of AISI 304 stainless steel.
 - Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.

- Control panel:**
- Illuminated mains power switch.
 - Hydraulic thermostat temperature control, synchronised with the "ON" indicator lamp.
 - Safety thermostat cut out indicator lamp.
- All water baths are supplied with heating elements protection shelf.
Models 0196000142 and 0196000389 with built in drain tap.

Max. T (°C)	Capacity (l)	Ext. dim. WxHxD (cm)	Usable dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
110	2	20x20x27	15x15x13	3,5	390	1	0196000137
200	2	20x20x27	15x15x13	3,5	640	1	0196000385
110	5	37x20x27	30x15x14	6	600	1	0196000138
200	5	37x20x27	30x15x14	6	1110	1	0196000386
110	12	40x20x42	30x15x30	8	1100	1	0196000140
200	12	40x20x42	30x15x30	8	1400	1	0196000387
110	20	58x20x42	48x15x30	10	1500	1	0196000141
200	20	58x20x42	48x15x30	10	2100	1	0196000388
110	45	69x22x62	62x15x50	18	2400	1	0196000142
200	45	69x22x62	62x15x50	18	3800	1	0196000389

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Water baths with or without anti-evaporation folding lid Precisdig J.P. SELECTA

Digital control and display of temperature and time. Adjustable temperature range from ambient +5°C to 99,9°C (Stability:±0,1°C, homogeneity±1°C) or to 200°C (Stability:±0,5°C, homogeneity±2,5°C). Power supply: 230 V. DIN 12877.2 Standard. The unit will cut out if there is insufficient liquid or if the bath temperature exceeds the set temperature. A manual reset adjustable temperature safety thermostat is placed at the back of the unit.

Features:

- Double skinned tank of AISI 310 stainless steel with an external case of AISI 304 stainless steel.
- Heating elements embedded in INCOLOY heat and corrosion resistant stainless steel.
- Comes complete with drain tap.

All baths with heating shelf and drainage. Faucet included.

Models are available with or without MAKROLON folding lids. Due to its transparency, you can visualize the bath's inside. It improves temperature stability, and restricts evaporation and pollution.

Baths without lid



Max. T (°C)	Capacity (l)	Ext. dim. WxHxD (cm)	Usable dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
99,9	5	37x20x27	30x15x14	6	600	1	0196001195
200	5	37x20x27	30x15x14	6	1100	1	0196001236
99,9	12	40x20x42	30x15x30	8	1100	1	0196001196
200	12	40x20x42	30x15x30	8	1400	1	0196001237
99,9	20	58x20x42	48x15x30	10	1500	1	0196001197
200	20	58x20x42	48x15x30	10	2100	1	0196001238
99,9	45	69x20x62	62x15x50	18	2400	1	0196001198
200	45	69x20x62	62x15x50	18	3800	1	0196001239

Baths with MAKROLON® lid



Max. T (°C)	Capacity (l)	Ext. dim. WxHxD (cm)	Usable dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
99,9	12	40x40x42	30x15x30	8	1100	1	0196001186
99,9	20	58x40x42	48x15x30	10	1500	1	0196001187
99,9	45	69x40x62	62x15x50	18	2400	1	0196001188

For further information, please contact scharlab@scharlab.com



Water and oil baths Univeba J.P. SELECTA

Adjustable temperature from ambient +5°C to 110°C (Stability±1°C) or to 200°C (Stability±2°C). To be used with a rotary evaporator or as a stand alone Bains Marie bath. Power supply: 230 V.

Features:

- Tank interior and exterior case made of AISI 304 stainless steel.
- The heater element is embedded in a protective INCOLOY stainless steel shield.

Control panel:

- Illuminated main power switch indicator lamp.
- Hydraulic temperature thermostat regulator synchronised with an indicator lamp.
- Safety thermostat cut out indicator lamp.

Baths

Model	Max. T (°C)	Capacity (l)	Ext. dim. WxHxD (cm)	Usable dim. ØxH (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
UNIVEBA	110	2,5	22x19x27	18x13	4	390	1	0193000400
UNIVEBA	200	2,5	22x19x27	18x13	4	640	1	0193000401

Accessories

Description	Pack (u.)	Art. No.
Heating element cover shelf	1	0196000033
Reduction ring cover lid	1	0197004001
Rack for 24 tubes up to 13mm Ø	1	0197004002
Rack for 24 tubes up to 18mm Ø	1	0197000541
Thermometer up to 120°C	1	0191000120
Thermometer up to 200°C	1	0191000200



Water bath Aquaterm J.P. SELECTA

Adjustable temperature from 30°C to 110°C. Stability±2°C. Power supply: 230 V.

Features:

- AISI 304 stainless steel tank with epoxy coated base.
- Heater element embedded in high temperature, corrosive resistant INCOLOY.
- Temperature regulator thermostat switch, synchronised with an indicator lamp.

Bath

Model	T Range (°C)	Capacity (l)	Ext. dim. ØxH (cm)	Usable dim. ØxH (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
AQUATERM	30 to 110	1,5	22x20,5	20x11,5	1,3	640	1	0193000916

Accessories



Perforated shelf



Flat Lid with 5 concentric ring set

Description	Pack (u.)	Art. No.
Perforated shelf	1	0196000998
Flat Lid with 5 concentric ring set	1	0193000917

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BATHS: Water baths



1002-1013 incubation/inactivation baths GFL

For incubations and inactivations of cultures.

- Short heating-up times
- Microprocessor-controlled temperature regulation
- Temperature display and setting digitally via LED display, in 0,1°C increments
- Electronic over-temperature cut-out
- Interior made of stainless steel
- The circulation system of type 1012 and 1013 ensures optimum temperature uniformity throughout the whole bath. The models 1002 and 1013 are adequate for incubations and inactivation of cultures, e.g. heating bacteriological environments, perform chemical reactions and defrost samples.
- Power supply: 230 V.

Baths

Type	T Range (°C)	T Stability (°C)	Capacity (l)	Heating (kW)	Int. dim. WxHxD (mm)	Ext. dim. WxHxD (mm)	Pack (u.)	Art. No.
1002	+5 to 99,9	0,1	7	1	245x145x200	330x255x395	1	000GFL1002
1003	+5 to 99,9	0,1	14	1,5	400x145x245	485x255x440	1	000GFL1003
1004	+5 to 99,9	0,1	21	1,5	600x145x245	685x255x440	1	000GFL1004
1005	+5 to 99,9	0,1	40	1,5	410x315x296	495x445x490	1	000GFL1005
1008	+5 to 99,9	0,1	20	1,5	400x205x245	485x325x440	1	000GFL1008
1012	+5 to 99,9	0,1	7	1	245x145x200	330x325x395	1	000GFL1012
1013	+5 to 99,9	0,1	14	1,5	400x145x245	485x325x440	1	000GFL1013

Stainless steel racks

Description	Pack (u.)	Art. No.
1920 Rack, 20 holes Ø 18mm, for tubes 16/17mm, max. height 185mm	1	000GFL1920
1921 Rack, 5 holes Ø 31mm, max. height 185mm	1	000GFL1921
1922 Rack, 20 holes Ø 13mm, for tubes 12mm, max. height 185mm	1	000GFL1922
1923 Rack to the water bath, type 1005	1	000GFL1923
1924 Rack, 12 holes Ø 56mm	1	000GFL1924

Regulator

Description	Pack (u.)	Art. No.
Water Level Regulator Type 1919	1	000GFL1919

For further information, please contact scharlab@scharlab.com



**Water baths TW8
JULABO**

High-quality water baths with microprocessor technology and a temperature stability of $\pm 0,2^{\circ}\text{C}$. The working temperature range offers many application possibilities, e.g. routine laboratory applications, temperature control of samples, incubations, dental applications, material testing, corrosion tests, tempering of cultures as well as temperature testing of food and luxury articles. Power supply: 230 V.

Type	T Range (°C)	T Stability (°C)	Capacity (l)	Heating (kW)	Aperture WxD/H (cm)	Ext. dim. WxHxD (cm)	Pack (u.)	Art. No.
TW8	20 to 99,9	0,2	3 to 8	2	23x27/14	29x28x32 without lid	1	0009550108

BATHS: Accessories for wather baths

Accessories for water baths

The PP balls cover all the bath surface, saving energy and reducing evaporation losses, improving the work conditions, smells, etc. Risk of explosive gases between the liquid and the lid is avoided.



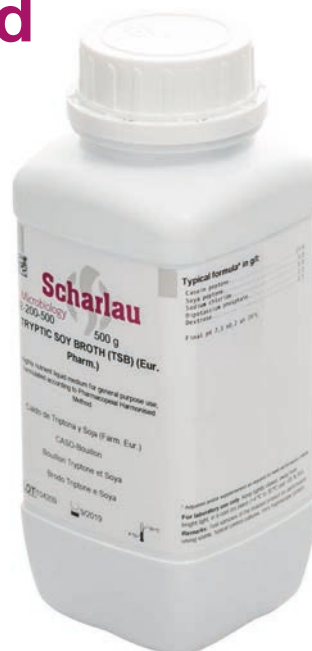
Description	Pack (u.)	Art. No.
PP ball, 20mm	1.000	0005003390
Ball with ring, 45mm	100	00RKAP4145

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CABINETS

- Biosafety cabinets, *page 849*
- Ductless fume hoods, *page 853*
- Fluorescence analysis workstations, *page 857*
- Laminar flow cabinets, *page 858*
- PCR Cabinets, *page 860*

CABINETS: Biosafety cabinets



TopSafe

Biosafety cabinets TopSafe

CRUMA

Cruma TopSafe microbiological safety cabinets are supplied in three different sizes (1.2mt, 1.5mt and 1.8mt). These last generation Microbiological Safety Cabinets, have been certified according to the most stringent safety standards (EN12469-2000). The internal design, the air flow aerodynamics and monitoring, the built-in safety devices and the very accurate manufacturing, guarantees the highest performances at the most stringent safety levels, as specified by EN12469, NSF49 and AS2252 standards and have been certified by the most prestigious European certification bodies for Safety Cabinets.

Serial equipment

- Gas tap
- Vacuum tap
- Electrical outlet Schuko (two in model 1.8) and multifunction jack
- Removable front panel lock

Technical features

- Class II type A2 cabinet
- Ability to take the class cabin configuration I
- Certification UNE-EN 12469: 2000 by TUV-NORD
- Fixed front window with safety glass 6mm thick (manual opening for easy cleaning procedure)
- Airflow Control Microprocessor
- Speed of air rollstop 0.5 m / s
- Frontal opening of 200mm
- Light intensity on work surface > 1000 lux
- Noise level according to ISO 11 022 <58 dB
- Safety key to prevent unwanted operations
- UV fluorescent light switched Worktop in AISI 304 stainless steel with 2B finish (includes retention tray)
- Power supply: 220-240 V

Model	Ext. dim. LxDxH (mm)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
TopSafe 1.2	1380x795x1450	0,4	58	180	1	209LDA0000
TopSafe 1.5	1685x795x1450	0,4	58	220	1	209LDB0000
TopSafe 1.8	1990x795x1450	0,4	58	220	1	209LDC0000

For further information, please contact scharlab@scharlab.com



SafeMate

Biosafety cabinets SafeMate CRUMA

These last generation Microbiological Safety Cabinets Class II type A 2, have been certified according to the most stringent safety standards (EN 12469-2000).

New equipments are already assembled and tested. You won't have to do anything. Well, just plug it in

Serial equipment

- Gas tap
- Vacuum tap
- Electrical outlet Schuko (two in model 1.8) and multifunction jack

Technical features

- Sloped front design for the highest operational comfort. Sloped back side of the working chamber for the best down flow disbution (cabinet carcass EN12298 tested and certified for air tightness)
- Utilities inlets from the top of the cabinet
- Stainless Steel internal surfaces with 2B finishing (including spillage tray).
- Solid work surface (3 sections)and special designed front grill
- Electrically operated sliding multilayer safety glass window (max opening at 120°)
- Comfortable 200mm front opening
- Easy to install retrofit options through lateral sides
- Exposed exhaust HEPA filter for easy visual integrity check
- H14 class High Efficiency Particulate Airfilters with 99.995% efficiency on.3micron particles (most penetrating particle diameter) (EN 1822-1 and EN 13091:1999 tested and certified)
- Both exhaust and Main Filters are equipped with a micromesh membran elocated downstream which acts as airspeed equalizer expansion plenum, as well as a clear indicator of filter damages
- Filter change and maintenance from the front of the cabinet
- Exhaust transitions easily installable

- Key operated. The key can be removed when the unit is in SAFE mode, in order to avoid unwanted operation. In case of power failure, the cabinet is reset to original working conditions
- Self calibration cycle performed when cabinet is switched on
- High speed rinse and set up cycle performed, before reaching the SAFE operating mode
- Visual display of SAFE conditions. Pre-warning before actual alarm conditions are reached (visual and acoustic alarms)
- Soft touch control with keys for standard service utilities. Interconnected UV and fluorescent lights
- Exhaust and recirculating flow rates ensure 25 air changes/min in the working area (30% 70% split)
- Front barrier air speed $\geq 0.5 \text{ m/s}$
- Aperture protection Factor (Apf) $\geq 1.5 \times 10^5$
- Cleanability Index CC grade. (EN 12296 tested and certified)
- Light intensity on work surface $> 900 \text{ lux}$
- Noiselevel $\leq 56 \text{ dB (A)}$ 1.2mt Model (ISO 11201, ISO 4871 and ISO EN 3744 tested and certified)
- Work surface displacement (vibration) $< 0.005 \text{ mm RMS}$ between 20Hz and 20,000Hz (ISO 5349 tested and certified)
- 230V, 50Hz
- Max power (for each powerpoint) 3Amps
- Microprocessor equipped with analogical watch dog
- Power supply: 220-240 V

Model	Ext. dim. LxDxH (mm)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
SafeMate 0.9	1074 x 840 x 1450	0,4	58	160	1	209LDD0000
SafeMate 1.2	1380 x 840 x 1450	0,4	58	190	1	209LDE0000
SafeMate 1.5	1685 x 840 x 1450	0,4	58	230	1	209LDF0000
SafeMate 1.8	1990 x 840 x 1450	0,4	58	300	1	209LDG0000

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SafeMate Cyto

Cytostatic biosafety cabinet SafeMate Cyto CRUMA

Cytotoxic drugs preparation cabinet. SafeMate Cyto is manufactured in accordance with DIN 12980 standard and provide the laboratory technician.

Serial equipment

- Vacuum tap
- Electrical outlet Schuko

Technical features

- Four levels of safety are therefore provided:

1. Safety for the operator, (extremely high Aperture protection factor) identical to the one provided by a Biological Safety Cabinet
2. Safety for the environment (double H14 filtration stage in the exhaust)
3. Safety for the product and between products (class 100 in the work area)
4. Safety for the engineers when changing the tertiary filter stage (bag-in bag-out procedure)

- Microprocessor controlled motor blower, with volumetric sensor for exhausted air flow monitoring
- State of the art Microprocessor control system offering:
 - Large screen monitor.
 - Automatic control of preset airflow volumes
 - Sliding sash window with smart control
 - Permanent monitoring of HEPA filters life span
 - Alarms. Multilevel alarms, with redundancy functions
 - Permanent display of working conditions
 - Highest air flow stability both in case of transitional disturbances or to progressive filter clogging
 - Semi-automatic fumigation cycle (EN 12297 tested and certified)
 - Continuous monitoring of front barrier air flow for the highest operator safety
 - Low barrier alarm
 - Power failure alarm
 - Volt-free contact for remote monitoring of exhaust fan
 - Automatic reset of initial conditions in case of power failure

- Power supply: 220-240 V

Model	Ext. dim. LxDxH (mm)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
SafeMate Cyto 0.9	1074x840x2220	0,4	58	350	1	209LY10000
SafeMate Cyto 1.2	1380x840x2220	0,4	58	400	1	209LY20000
SafeMate Cyto 1.8	1990x840x2220	0,4	58	750	1	209LY40000



SafeFlow

Biosafety cabinets SafeFlow CRUMA

These highly sophisticated Microbiological Safety Cabinets Class II Type A2, provide the highest safety for the operator and the environment for them anipulation of Risk Groups 1 to 3 of pathogens (WHO Classification of Infective Microorganisms by Risk Group, 2004).

Technical features

- Fully EN12469 certified (by TÜV Hamburg and LNE Paris)
- The control panel registers operating hours of the car, filters and UV lamp, provides information on the state of saturation of the filter, records of maintenance interventions and controls the fumigation with formalin cycle.
- Automatic fan control activates three alarm types, both acoustically and visually as to the parameters set for the air face velocity, the air velocity in the working chamber and the air velocity in expulsion.
- The fan is automatically controlled to maintain the recirculation and expulsion constant relationship progressive saturation conditions of the filters and the fluctuation of voltage.
- Controlling power interruptions logs events and automatically restarts the cabin. The commissioning and maintenance operations are controlled by two different passwords.
- Accessing the Maintenance menu, those responsible are the manufacturers default settings in the installation phase and can easily recalibrate the cabin after the change filters.
- There are two free functions available to allow the user to equip the cabinet with further accessories (eg removal kit).
- The software allows to manage a data transmission kit in hyperterminal on PC and enjoy a continuity (accessory) in order to avoid any cuts or power downs.
- Very silent and quite operation <54 dB(A) due to special soft plenum design and highly vibration-free

suspensions of the fan(s).

- Air-and aerosol-tight electrical sliding sash with smart functions. User friendly swing-out feature for effective cleaning and sanitation of the inner glass surface.
- UPS Emergency Power Supply Interactive emergency power supply for the safest power failure management of the Cabinet. In case of main power failure this device allows an adequate exit time for the operator in order to complete any unfinished tasks, and subsequently closes the front window and shutdown the cabinet automatically. Pre-failure operating conditions are resumed when power returns.
- Automatic Sterilisation Cycle.
- Power supply: 220-240 V

Model	Ext. dim. LxDxH (mm)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
SafeFlow 0.9	1055 x 792 x 1455	0,4	58	200	1	209LD80000
SafeFlow 1.2	1360 x 792 x 1455	0,4	58	230	1	209LD60000
SafeFlow 1.8	1970 x 792 x 1455	0,4	58	240	1	209LD70000



Bio II Advance

Biosafety cabinets Bio II Advance TELSTAR

The Telstar Bio II Advance series is a new generation of biological safety cabinets providing a compact design for easy installation within the laboratory, without losing valuable working space. It has also been designed to the highest standards of safety, ergonomics, energy efficiency, reliability and ease of use in its class.

Certified Safety: EN 12469.

The Bio II Advance is specified for working with levels 1, 2 and 3 pathogenic agents. It also conforms to the main requirements NSF/ANSI 49 (Class II A2), JIS K3800, SFDA YY-0569 and AS2252.

Specifications:

- Cabinet depth 759mm (compatible with most laboratory doors)
- Overall height 1260mm
- 10° sloped front window for a better working position
- 304L stainless steel chamber with rounded angles and hardened security glass sides
- Hermetically closable sealing around the front window
- Security anti-reflective front window with UV protection, with no visual obstacles on the lower edge
- Microprocessor control with filter-loading-self-compensation
- Main screen showing the laminar flow speed and the filter dogging level

- Ecomode function
 - Control panel with international colour code to indicate cabinet status
 - Manual sliding window with external pneumatic pistons to facilitate maintenance and internal cleaning of the cabinet and entering large objects and accessories into the working chamber
 - UV light and fans with timer to be programmable
 - Four predefined languages (Spanish, English, French and German)
 - Access to all the maintenance areas via the front side of the cabinet.
- Power supply: 230 V.

NOTE: Standard equipped with 2 splash-proof power sockets, UV germicidal kit and 2 HEPA filter stufes. For other options please contact scharlab@scharlab.com.

Model	Ext. dim. WxDxH (mm)	Exhaust volum (m ³ /h)	Down/low velocity (m/s)	Weight (Kg)	Pack (u.)	Art. No.
Bio-II-Advance 3	1049x759x1260	295	0,35	180	1	133-072307
Bio-II-Advance 4	1354x759x1260	402	0,35	200	1	133-068227
Bio-II-Advance 6	1964x759x1260	620	0,35	280	1	133-072308



BioVanguard (Green Line)

Biosafety cabinets BioVanguard (Green Line) TELSTAR

Telstar BioVanguard Series, our newest range of high quality Class Biological Safety Cabinets ensures the highest level of protection for operator, product and environment, minimizing hazards inherent to working with agents assigned to biosafety levels 1, 2 and 3.

This Series has been designed according to the highest standards of quality, biological safety, reliability, ergonomics and usability and meets the latest customer requirements such as low energy consumption and low sound level.

- Low energy
- Low sound level
- Superior quality
- High performance
- Ergonomic design
- Easy to operate
- Easy to clean
- Easy to decontaminate
- Low maintenance
- Easy installation
- According highest standards
- Microprocessor safety control
- GMP and PIC's compliant
- Enhanced safety features

BioVanguard Series is designed and manufactured according to international biosafety standards EN12469 (Class II), NSF49 (Class II Type A2), JIS K 3800 (Class II Type A2) and PIC's. The working area is classified as ISO 14644-1 (Class 5) and GMP Annex 1 (Class A). Bio Vanguard B is also designed and manufactured according to DIN 12980 (Class II).

Power supply: 230 V.

NOTE: Standard equipped with pre-filter & drip tray, 2 electrical sockets and 2 HEPA filter stufes. For other options please contact scharlab@scharlab.com.

Model	Ext. dim. WxDxH (mm)	Exhaust volum (m ³ /h)	Down/low velocity (m/s)	Weight (Kg)	Pack (u.)	Art. No.
Bio Vanguard 3	1072x794x1602	300	0,36	200	1	133H301001
Bio Vanguard 4	1374x794x1602	400	0,36	215	1	133H401001
Bio Vanguard 5	1679x794x1602	540	0,36	275	1	133H501001
Bio Vanguard 6	1984x794x1602	600	0,36	300	1	133H601001

CABINETS: Ductless fume hoods



CrumaGas Camma

**Ductless fume hoods
CRUMA**

Ductless fume hood perfect for small working space with protection to gaseous polluting agents. Construction of steel plate with antiacid polymerized epoxy coating and methylpropylene of high transparency. Filter with electronic chip. Include fluorescent illumination, liquid retention tray, digital anemometer, open door alarm, identification of filter, fan failure alarm, filter expiry date alarm and counter of working hours of the filter. Power supply: 220 V.

CRUMAGAS



670



990



1200



ECO 2



P-1

Model	Ext. dim. WxHxD (mm)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
670. For small working spaces	600x930x600	0,4-0,6	48	43	1	209-CR670G
870. For medium working spaces	800x1030x600	0,4-0,6	48	52	1	209-CR870G
990. Equipment and total protection	1000x1030x600	0,4-0,6	48	64	1	209-CR990G
1010. Applications at high temperature	1000x1225x600	0,4-0,6	48	67	1	209CR1010G
1200. The largest working surface	1200x1100x800	0,4-0,6	48	72	1	209CR1200G
ECO 2. Economic and ecological	780x1010x600	0,4-0,6	50	41	1	209-CRECO2
P-1. For weighings	800x1137x600	0,4-0,6	48	75	1	209-CR1PES

For further information, please contact scharlab@scharlab.com

Ductless fume hoods

LABOPUR

Personal and environmental protection extractors. NFX 15-211 Class 2 Chemical protection. Power supply: 220-240 V.



H range extraction

Model	Ext. dim. WxHxD	Weight	Pack (u)	Art. No.
LABOPUR® H 200 Cabinet+ CORG 201 Filter	600x980x620	34	1	178-EFH205
LABOPUR® H 201 Cabinet+ CAR 200 Filter + HEPA Complete filter	600x980x620	34	1	178-EFH206
LABOPUR® H 201 Cabinet + CORG 201 Filter+ HEPA Complete filter	600x980x620	34	1	178-EFH207
LABOPUR® H Cabinet 300 + CORG 301 Filter	800x720x620	33	1	178-EFH305
LABOPUR® H 301 Cabinet + CAR 300 Filter + HEPA Complete filter	800x720x620	33	1	178-EFH306
LABOPUR® H 301 Cabinet + Filtro CORG 301 Filter+ HEPA Complete filter	800x720x620	33	1	178-EFH307
LABOPUR® H 400 Cabinet + CORG 401 Filter	800x980x620	44	1	178-EFH405
LABOPUR® H 401 Cabinet + CAR 400 Filter + HEPA Complete filter	800x980x620	44	1	178-EFH406
LABOPUR® H 401 Cabinet + CORG 401 Filter + HEPA Complete filter	800x980x620	44	1	178-EFH407
LABOPUR® H 500 Cabinet + CORG 501 Filter	900x1200x740	55	1	178-EFH505
LABOPUR® H 501 Cabinet + CAR 500 Filter + HEPA Complete filter	900x1200x740	55	1	178-EFH506
LABOPUR® H 501 Cabinet + CORG 501 Filter + HEPA Complete filter	900x1200x740	55	1	178-EFH507
LABOPUR® H 1300 Cabinet + CORG 1301 Filter	1000x1200x740	60	1	178EFH1305
LABOPUR® H 1301 Cabinet + CAR 1300 Filter + HEPA Complete filter	1000x1200x740	60	1	178EFH1306
LABOPUR® H 1301 Cabinet + CORG 1301 Filter + HEPA Complete filter	1000x1200x740	60	1	178EFH1307
LABOPUR® H Cabinet 1500 + CORG 1501 Filter	1000x1200x740	61	1	178EFH1505
LABOPUR® H 1501 Cabinet + CAR 1500 Filter + HEPA Complete filter	1000x1200x740	61	1	178EFH1506
LABOPUR® H 1501 Cabinet+ CORG 1501 Filter + HEPA Complete filter	1000x1200x740	61	1	178EFH1507
LABOPUR® H 2300 Cabinet + CORG 2301 Filter	1300x1200x740	78	1	178EFH2305
LABOPUR® H 2301 Cabinet+ CAR 2300 Filter + HEPA Complete filter	1300x1200x740	78	1	178EFH2306
LABOPUR® H 2301 Cabinet + CORG 2301 Filter + HEPA Complete filter	1300x1200x740	78	1	178EFH2307
LABOPUR® H 2500 Cabinet + CORG 2501 Filter	1300x1200x740	79	1	178EFH2505
LABOPUR® H 2501 Cabinet + CAR 2500 Filter + HEPA Complete filter	1300x1200x740	79	1	178EFH2506
LABOPUR® H 2501 Cabinet + CORG 2501 Filter + HEPA Complete filter	1300x1200x740	79	1	178EFH2507
LABOPUR® H 3500 Cabinet + CORG 3501 Filter	1600x1200x740	97	1	178EFH3505
LABOPUR® H 3501 Cabinet+ CAR 3500 Filter + HEPA Complete filter	1600x1200x740	97	1	178EFH3506
LABOPUR® H 3501 Cabinet + CORG 3501 Filter + HEPA Complete filter	1600x1200x740	97	1	178EFH3507

→ Continued on the next page

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Accessories

Model	Pack (u.)	Art. No.
Tempered glass base for Labopur series 3500 cabinet	1	178-APL335
Support stand with shelf for series 3500 cabinet	1	178-OTR335
Support stand for series 3500 cabinet	1	178-OTA335
Illumination for series 3500 cabinet	1	178-OLU335
SERIES H - Filter- alarm	1	178-00SFA2
SERIES H- Hand pump	1	178-00PMAF
SERIES H- Box of 10 reactive tubes for the control of organic gases	1	178-00TROR
SERIES H - Box of 10 reactive tubes for the control of corrosive gases	1	178-00TRAC
SERIES H- Box of 10 reactive tubes (organic 5 + corrosive 5)	1	178-00TLOA
SERIES H- Extraction and storage cabinet with air recirculation system and ductless exhaust	1	178PMSF200

Filters

Model	Ext. dim. WxHxD	Weight (Kg)	Pack (u)	Art. No.
SERIES H - Activated carbon for organic vapors	390x70x390	8	1	178-00RG50
SERIES H - FUniversal activated carbon filter	390x70x390	9	1	178-CORG51
SERIES H - Activated carbon for formaldehyde vapors	390x70x390	9	1	178-0FOR50
SERIES H - Kit for use with filterless cabins	390x70x390	2	1	178-0CAR50



Serie H0

Ventilation and filtration units LABOPUR

Personal protection cabinets.

Model	Ext. dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
SERIES V - Steel ventilation unit	260x235x250	9,5	1	178-00CDVA
SERIES V - Steel filtration unit with filter	545x285x285	13	1	178-00CDFA
SERIES V - Cellular PVC filtration unit with filter	580x305x300	10	1	178-00CDFP
SERIES V - Connection kit	-	1	1	178-KITKRC
SERIES V - Flange clamp Ø 100mm	-	-	1	178-CDS100
SERIES V - Activated carbon for formaldehyde vapors	100x20x400	12	1	178-0FORFC
SERIES V - Activated carbon for organic vapors	100x20x400	12	1	178-0ORGFC

Class II protection

Model	Ext. dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
SERIES 12 - Pre filter	390x20x390	0,1	1	178-PREFCR
SERIES 12 - Universal active carbon filter	100x20x400	12	1	178-CORGFC
SERIES 12-X - Filter of activated carbon for formaldehyde vapors	730x70x380	12	1	178-FOR300

For further information, please contact scharlab@scharlab.com


**Filters
LABOPUR**

Extraction cabinet spares.

Model	Ext. dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
SERIES 12.X - Activated carbon for organic and corrosive vapors for AF 10	150x150	3	1	178CDFCORG
SERIES 12.X - Activated carbon for formaldehyde vapors for AF 10	150x150	3	1	178-CDFFOR
SERIES 12.X - Activated carbon for organic vapors for AF 10	150x150	3	1	178-CDFORG
SERIES 12.X - Activated carbon for organic vapors	730x70x380	12	1	178-ORG300
SERIES 12.X - Universal activated carbon filter	730x70x380	12	1	178CORG301
SERIES 14.X - Activated carbon for formaldehyde vapors	390x70x390	9	1	178-OFOR50
SERIES 14.X - Activated carbon for organic vapors	390x70x390	8	1	178-0ORG50
SERIES 14.X - Universal activated carbon filter	390x70x390	9	1	178-CORG51
SERIES H - Activated carbon filter for formaldehyde vapors	585x70x380	12	1	178-FOR200
SERIES H - Activated carbon filter for formaldehyde vapors	730x70x380	16	1	178-FOR300
SERIES H - Activated carbon filter for formaldehyde vapors	730x70x380	24	1	178-FOR500
SERIES H - Activated carbon filter for formaldehyde vapors - In accordance with MF 3-F	565x100x405	-	1	178-FOR203
SERIES H - Activated carbon filter for formaldehyde vapors - In accordance with MF 4-F	755x100x405	-	1	178-FOR303
SERIES H - Activated carbon filter for organic vapors	585x70x380	11	1	178-ORG200
SERIES H - Activated carbon filter for organic vapors	730x70x380	16	1	178-ORG300
SERIES H - Activated carbon filter for organic vapors	730x70x380	22	1	178-ORG500
SERIES H - Activated carbon filter for organic vapors - In accordance with MF 3-AS	565x100x405	-	1	178-ORG203
SERIES H - Activated carbon filter for organic vapors - In accordance with MF 4-AS	755x100x405	-	1	178-ORG303
SERIES H - Activated carbon for formaldehyde vapors	390x70x390	9	1	178-OFOR50
SERIES H - Activated carbon for organic vapors	390x70x390	8	1	178-0ORG50
SERIES H - Universal activated carbon filter	390x70x390	9	1	178-CORG51
SERIES H - Universal activated carbon filter	585x70x380	11,5	1	178CORG201
SERIES H - Universal activated carbon filter	730x70x380	15	1	178CORG301
SERIES H - Universal activated carbon filter	730x70x380	23	1	178CORG501
SERIES H - Universal activated carbon filter - In accordance with MF 3-BE	565x100x405	-	1	178CORG203
SERIES H - Universal activated carbon filter - In accordance with MF 4-BE	755x100x405	-	1	178CORG303
SERIES V - Activated carbon filter for organic and corrosive vapors	150x150	3	1	178CDFCORG
SERIES V - Activated carbon filter for formaldehyde vapors	150x150	3	1	178-CDFFOR
SERIES V - Activated carbon filter for organic vapors	150x150	3	1	178-CDFORG

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CABINETS: Fluorescence analysis workstations

**Fluorescence analysis workstations
SPECTRONICS**

Pinhole cameras with portable lamps that emit ultraviolet light for fluorescence analysis. Used to read thin layer plates.

Characteristic:

- Lamp can be removed from the cabinet for use in other applications. Also has LONGLIFE™ filter glass which has an exceptionally long life and ensures greater initial light intensity
 - New lighter polymeric carcass
 - The display is protected by a window that absorbs UV light for eye protection
 - It has a removable bottom so that the cabinet can be attached to one of our transilluminators providing better contrast in U.V. fluorescence analysis
 - WixHexDe: 22,9x30,5x16,5cm
 - Weight: CM-24A (3,2kg), CM-26A (3,4kg)
- CM-26A: Includes two tubes that produce 6W 365nm light (intensity 350µW/cm²) and 254nm (390µW/cm² intensity).
 CM-24A: Includes two tubes that produce 4W 365nm light (intensity 300µW/cm²) and 254nm (310µW/cm² intensity).



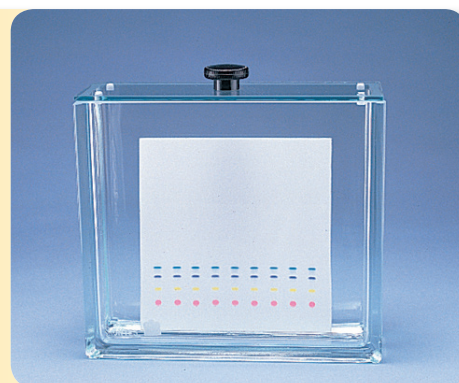
CM-24A



CM-26A

Model	Replacement tubes	Pack (u.)	Art. No.
CM-24A, complete with lamp ENF-240C LW/SW de 4W	112BLE270W, 00BLE2537S (254nm)	1	112-0CM24A
CM-26A, complete with lamp ENF-260C LW/SW de 6W	00BLE6T365 (365nm), 00BLE6254S (254nm)	1	112-0CM26A

TLC plates in [page 748](#)



For further information, please contact scharlab@scharlab.com

CABINETS: Laminar flow cabinets


870E-FL

Vertical laminar flow cabinets FL CRUMA

CRUMA vertical laminar flow hood with ISO Class 5 air purity creates a sterile environment free of particles and/or microorganisms that ensures the reliability of any test inside the hood. It incorporates a HEPA H-14 absolute filter whose minimum efficiency is of 99.999% for particles of 0.3µm, and a 15W UV germicide lamp designed to decontaminate the hood before and after each use. Cruma has updated the cabinet with the latest techniques for a better protection of the samples. In compliance with the EN-1822, DIN-24184, US St-209, ISO-14644, EN-ISO 90001:2000.

New features
More information on the new LCD

- Date, time and countdown timer
- Counter of working hours of the filter and the cabinet

Extra features

- Initial cycle flow adequacy and final cycle purge
- Airflow Control by microprocessor

New warning scheduled

- Low airflow

Standard equipment installed

- Illumination 800 lux
- Programmable UV lamp
- Gas and vacuum inlets
- Electrical socket inside
- Liquid retention tray
- Safety glass working surface
- Fan failure alarm
- Synthetic biofibre prefilter Class G4

Model	Ext. dim. WxDxH (mm)	Average volume of air treated/hour (m ³ /h)	Internal volume (m ³)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
670E-FL	600x600x930	256	0,181	0,4	48	43	1	209670E-FL
870E-FL	800x600x1125	810	0,287	0,4	48	52	1	209870E-FL



FL-1

Vertical laminar flow cabinets FL-1 and FL-2 CRUMA

Cruma breaks with the tradition of laminar flow cabinets mountable by offering an innovatives cabinets in one piece with the following characteristics:

- Digital control screen
- Filter change warning
- Programmable timer
- Front panel with bigger working sizes
- Commutable power socket

New features
More information on the new LCD

- Date, time and countdown timer
- Counter of working hours of the filter and the cabinet

Extra features

- Initial cycle flow adequacy and final cycle purge - Airflow Control by microprocessor

New ads scheduled

- Next review

Plugs&Play

- As easy as taking it out of the box and start working

Standard equipment installed

- Absolute HEPA filter (High Efficiency Particulate Air) class H14 of 99,999% efficiency for particles of 0,3 micras (test DOP) - Synthetic biofibre prefilter Class G4
- Illumination 900 lux
- UV lamp
- Electrical socket inside
- Gas tap
- Power supply: 220 V.

Model	Ext. dim. WxDxH (mm)	Average volume of air treated/hour (m ³ /h)	Internal volume (m ³)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
FL-1	800x600x1137	473,76	0,236	0,4	48	64	1	209000FL-1
FL-2	1200x600x1140	473,76	0,356	0,45	52	120	1	209000FL-2

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Vertical laminar flow cabinet MINI CRUMA

AURA Mini Cabinet is supplied in one compact size only (895mm). These state of the art compact down-flow cabinet, provide an ultimate cleanliness Class 100 work area where the highest safety for the products is achieved. The internal design, the air flow aerodynamics, the special H14 filter and the Filtrete® exhaust filter (or prefilters) guarantees the highest performances at the most stringent safety levels and operator comfort.

Serial equipment:

- Removable perforated work surface and back wall of the work chamber made of AISI304 stainless steel
- Cabinet outer surfaces made of cold rolled steel with paint finish
- Front and side panels in tempered glass
- H14 class High Efficiency Particulate Airfilters guaranteed with 99.995% efficiency on 0.3 micron particles (most penetrating particle diameter) (EN1822-1 and EN13091: 1999 tested and certified)
- Exhaust filter (or pre-filter) type Filtrete® with a gravimetric efficiency higher than 99% on 3µm particles
- Standard features includes: Fluorescent lamp, elapsed Time meter, UV and fluorescent lamps interconnected
- Electrical equipment according to International Standards and EMC directives
- Soft touch keys on the control panel provide control of the lighting, motorblower, UV light.
- Power supply: 230 V.

Model	Ext. dim. WxHxD (mm)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
Aura Mini	820x790x580	0,4	52	55	1	209CV-MINI



HZ 48

Horizontal laminar flow cabinets HZ CRUMA

HZ Cabinets powered by Euroclone are supplied in two different sizes (1.2 mt and 1.8 mt). These state of the art cross-flow cabinets, provide an ultimate cleanliness Class 100 work area where the highest safety for the products is achieved. The internal design, the air flow aerodynamics and monitoring, the special H14 filter with Micromesh downstream equalising plenum, guarantees the highest performances at the most stringent safety levels and operator comfort.

Serial equipment:

- External surfaces of cold-rolled steel coated gray / ocher enameled oven, resistant to chemicals used for sterilization
- Worktop in stainless steel AISI 304 2B
- Tempered glass side walls
- HEPA absolute filter
- Moto fan
- Dashboard. Soft-touch keyboard
- Counter operation cabin and filter
- Lighting
- Power supply: 230 V

Model	Ext. dim. WxDxH (mm)	Air average speed (m/s)	Sound level (dB)	Weight (Kg)	Pack (u.)	Art. No.
HZ48	1270x1360x1050	0,4	57	130	1	209CH-HZ48
HZ72	1920x1360x1050	0,4	59	195	1	209CH-HZ72



V-100

Vertical laminar flow cabinets TELSTAR

Vertical laminar flow Telstar benches.

Features:

- Cabinet frame made of stove-enamel coated steel. Access to main filter direct from the chamber, for a comfortable replacement.
- AISI 304 stainless steel divided working tray to allow easy cleaning.
- Removable tempered glass chamber sides increase the available light inside the work area and support a comfortable work environment.
- Front with pneumatic piston elevators.

Technical data:

- Lighting (lux): > 800 lux.
- Noise level (dBA): < 60.
- HEPA/ULPA H14 filters: efficiency > 99,999% (DOP) class 10.
- Fans: centrifugal high efficiency with speed control.
- Power supply: 230 V.

Model	Flow (m³/h)	Air average speed (m/s)	Ext. dim. WxDxH (mm)	Power (kW)	Weight (Kg)	Pack (u.)	Art. No.
PV-100 (0,8m)	600	0,4	802x845x1290	0,5	100	1	133-001503
AV-100 (1,2m)	1000	0,4	1260x845x1290	0,6	140	1	133-031400
BV-100 (1,5m)	1300	0,4	1565x845x1290	1,0	160	1	133-035170
CV-100 (1,8m)	1600	0,4	1870x845x1290	1,0	190	1	133-001005



H-100

Horizontal laminar flow cabinets

TELSTAR

The internal design, the air flow aerodynamics and monitoring, the special H14 filter with Micro-mesh downstream equalising plenum, guarantees the highest performances at the most stringent safety levels and operator comfort. Telstar H-100 Series units features, options and accessories are particularly well adapted to hospital, control laboratories and life science environments. All models are supplied with working area Class 10 as defined by U.S.Fed. Std. 209 and B.S. 5295.

Features:

- Cabinet frame is made of epoxy powder coated finish zinc steel; easy access to main filter from the chamber, for replacement.
- Polished AISI 304 stainless steel one piece working tray.
- Removable tempered U.V. resistant glass chamber sides.

Technical data:

- Mini H model is a Class 100 bench with a prefilter 85% ASHRAE.
- Lighting of 645 lux and noise level of 56 dBA.

All other horizontal benches present the following technical data:

- Lighting (lux): fluorescent tube of > 1000 lux illuminance.
- Noise level (dBA): < 58.
- HEPA/ULPA H14: efficiency > 99,999% (DOP) Class 10.
- Fans: centrifugal high efficiency with speed regulation.

Model	Flow (m ³ /h)	Air average speed (m/s)	Ext. dim. WxDxH (mm)	Power supply	Weight (Kg)	Pack (u.)	Art. No.
Mini H 0,8 m	940	0,45	798x795x1157	0,6 kW - 230V	80	1	133-011366
AH-100 1,2 m	1400	0,45	1260x845x1291	0,5kW - 220V	140	1	133-001001
MH-100 1,5 m	1800	0,45	1565x845x1290	1,0kW - 220V	160	1	133-001006
BH-100 1,8 m	2100	0,45	1870x845x1292	1,0kW - 220V	190	1	133-001002

CABINETS: PCR Cabinets



PRC

PCR Cabinet

CRUMA

The Cruma PCR cabinet has been specifically designed for DNA carry-over blocking by using PCR technique (Polymerase Chain Reaction). The three UV tubes and the inclusion of a timer allow the total sterilization of the material inside the chamber as well as of the whole working surface preventing possible cross-contamination of DNA and ARN samples, that can determine false positive test results. The 4mm tempered glass works as a filter to UV radiation therefore protecting the operator and the environment. In case of accidental front door opening, UV lamps are automatically disconnected to guarantee total protection of the operator. Compact cabinet, no assembly required.

Standard equipment installed:

- Multifunction digital timer, switchable with UV and lighting
- 3 UV lamps tubes of 15W
- Tempered glass door sash
- Security system for accidental door opening
- Worktop with safety glass
- Interior shelf
- Lighting (900 lux)
- Power supply: 220 V.

Model	Ext. dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
PCR	600x775x600	40,2	1	20900CRPCR



Mini V PCR

Vertical laminar flow cabinet Mini V/PCR

TELSTAR

Bench top cabinet with non recirculated vertical laminar flow. Compact dimensions compatible with all laboratory doors and dimensions. Epoxy powder coated finish zinc steel cabinet. AISI 304 stainless steel work bench. Prefilter 85% ASHRAE, in the inlet side. Class 100 work station according to Fed. Std. 209 and BS 5295.

Technical data:

- Lighting > 750 lux
- Noise level: 56 dBA.
- H14 HEPA filter with 99,999% efficiency for particles >0,3 micron easily accessible for replacement.
- Includes fluorescent light, built-in UVlight with timer, electrical socket in working area, stainless steel bench.
- 85% ASHRAE pre-filter easily accessible on the side of the unit
- Power supply: 230 V.

Model	Ext. dim. DxWxH (mm)	Weight (Kg)	Pack (u.)	Art. No.
Mini V PCR, 0,7m	670 x 520 x 1225	70	1	133-011215

CENTRIFUGES



Biocen 22

Centrifuge Biocen 22 ORTOALRESA

The Biocen 22 is designed to prevent contamination by interaction with the centrifuge and temperature increasing by: chamber stainless steel centrifuge easily sterilized, rotors with tight lids and ventilation system that helps reduce the temperature. Designed for small volume, allows 24 microtubes Centrifuge 2,2ml, 32ml of 0,2 up to 24 tubes of 1,5 x 75mm, up to 15.000rpm / 21.885 x g. Reduce spin time by controlling the different stages, allowing braking according to the type of sample.

Centrifuge (rotor not included)

Model	Refrigerated	Dimensions WxHxD (mm)	Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	Pack (u.)	Art. No.
Biocen 22	No	390x272x276	17	220-240	50-60	180	1	095-0CE146

Rotors for Biocen 22



Rotor RT227



Rotor RT228



Rotor RT229

Rotor RT227

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT227	Angle fixed 45°	24x1,5-2ml	15000	82	20627	1	095-ORT227

Accessories for rotor RT227

Description	Pack (u.)	Art. No.
Adapters for 24 microtubes of 0,5-0,6ml	24	095-ORE305
Adapters for 24 microtubes of 0,2-0,4ml	24	095-ORE304

Rotor RT228

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT228	Horizontal	24x1,5x75mm	15000	87	21885	1	095-ORT228

Rotor RT229

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT229	Angle fixed 45°	32x0,2ml	15000	55	13835	1	095-ORT229

For further information, please contact scharlab@scharlab.com



Unicen 21

Centrifuge Unicen 21 ORTOALRESA

Universal, compact, versatile and quiet, are concepts which define the Unicen 21. Essential on demanding labs which need a reliable result on a short time, without sacrificing the number of samples. Maximum capacity 4 x 100ml, reach up to 4.200 rpm/ 2.899 x g, with 9 interchangeable rotors and up to 40 set of different adapters, covering the basic requirement on separation of clinics, industries and research centers. Speed and time are shown on digital displays easily readable, and lid can be open automatically at the end of the run, allowing to the operator a higher autonomy on routine process.

Centrifuge (rotor not included)

Model	Refrigerated	Dimensions WxHxD (mm)	Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	Pack (u.)	Art. No.
Unicen 21	No	530x320x410	36	220-240	50-60	200	1	095-0CE126

Rotors for Unicen 21



Rotor RT177



Rotor RT175



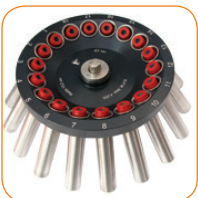
Rotor RT173



Rotor RT226



Rotor RT160



Rotor RT161



Rotor RT163



Rotor RT167

Rotor RT177

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT177	Swingout	8x15ml	4200	145	2860	1	095-ORT177

Accessories for rotor RT177

Description	Pack (u.)	Art. No.
Adapters for 8x10ml hs tubes	8	095-ORE398
Adapters for 8x10ml tubes or 8x7/10ml blood tubes	8	095-ORE371
Adapters for 8x5ml tubes or 8x5ml blood tubes	8	095-ORE377

Rotor RT175

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT175	Swingout	4x50ml	4200	145	2860	1	095-ORT175

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Accessories for rotor RT175

Description	Pack (u.)	Art. No.
Capacity for 50ml tubes	4	095-ORE445
Adapters for 4x50ml hs tubes, 4x50ml	4	095-ORE378
Adapters for 4x50ml conical tubes with or without skirt in 50ml	4	095-ORE342
Adapters for 4x30ml hs tubes, 4x50ml	4	095-ORE379
Adapters for 4x30ml tubes, 4x50ml	4	095-ORE333
Adapters for 4x10ml blood tubes, 4x15ml tubes, 4x10ml hs or 4x15ml conical tubes	4	095-ORE329
Adapters for 12x5ml or 12x10ml tubes	4	095-ORE313
Adapters for 4x5ml blood tubes, or 4x7/10ml blood tubes	4	095-ORE337
Adapters for 12 tubes of 1,5-2,2ml	4	095-ORE463

Rotor RT173

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT173	Swingout	4x100 ml	4200	147	2899	1	095-ORT173

Accessories for rotor RT173

Description	Pack (u.)	Art. No.
Capacity for 50ml tubes	4	095-ORE446
Adapters for 4x80ml hs tubes	4	095-ORE380
Adapters for 4x80ml tubes	4	095-ORE338
Adapters for 4x50ml hs tubes	4	095-ORE381
Adapters for 4x50ml tubes, 4x100ml	4	095-ORE335
Adapters for 4x50ml conical tubes with or without skirt in 100ml	4	095-ORE341
Adapters for 4x30ml hs tubes	4	095-ORE382
Adapters for 4x30ml tubes	4	095-ORE332
Adapters for 16x10ml blood tubes, 16x10ml hs or 16x15ml tubes	4	095-ORE316
Adapters for 4x15ml conical tubes	4	095-ORE339
Adapters for 20x5ml blood tubes, or 20x7/10ml blood tubes, 20x5ml or 2010ml tubes	4	095-ORE320
Adapters for 20 microtubes of 1,5-2,2ml	4	095-ORE408
100ml beakers	4	095-ORE355

Rotor RT226

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT226	Angle fixed 30°	8x15 ml	4200	91	1795	1	095-ORT226

Accessories for rotor RT226

Description	Pack (u.)	Art. No.
Adapters for 8x10ml hs tubes	8	095-ORE398
Adapters for 8x10ml tubes, or 8x7/10ml blood tubes	8	095-ORE371
Adapters for 8x5ml tubes or 8x5ml blood tubes	8	095-ORE377

Rotor RT160

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT160	Angle fixed 35°	12x15ml	4200	106	2090	1	095-ORT160

Accessories for rotor RT160

Description	Pack (u.)	Art. No.
Adapters for 12x10ml hs tubes	12	095-ORE399
Adapters for 12x10ml tubes, or 12x7/10ml blood tubes	12	095-ORE400
Adapters for 12x5ml tubes or 12x5ml blood tubes	12	095-ORE302

Rotor RT161

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT161	Angle fixed 35°	18x15ml	4200	132	2603	1	095-ORT161

→ Continued on the next page

Accessories for rotor RT161

Description	Pack (u.)	Art. No.
Adapters for 18x10ml hs tubes	18	095-0RE383
Adapters for 18x10ml tubes, or 18x7/10ml blood tubes	18	095-0RE359
Adapters for 18x5ml tubes or 18x5ml blood tubes	18	095-0RE303

Rotor RT163

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT163	Angle fixed 35°	24x15ml	4200	132/114	2603/2248	1	095-0RT163

Accessories for rotor RT163

Description	Pack (u.)	Art. No.
Adapters for 24x10ml hs tubes	24	095-0RE384
Adapters for 24x10ml tubes, or 24x7/10ml blood tubes	24	095-0RE385
Adapters for 24x5ml tubes or 24x5ml blood tubes	24	095-0RE306

Rotor RT167

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT167	Angle fixed 35°	6x50ml	4200	132	2603	1	095-0RT167

Accessories for rotor RT167

Description	Pack (u.)	Art. No.
Capacity for 6 tubes of 50ml	6	095-0RE447
Adapters for 6x50ml hs tubes	6	095-0RE386
Adapters for 6x50ml conical tubes	6	095-0RE365
Adapters for 6x30ml hs tubes	6	095-0RE387
Adapters for 6x30ml tubes	6	095-0RE362
Adapters for 6x10ml blood tubes, 6x15ml tubes, 10ml hs or 6x15ml conical tubes	6	095-0RE361
Adapters for 18x5ml or 18x10ml tubes	6	095-0RE360
Adapters for 6x5ml blood tubes, or 6x7/10ml blood tubes	6	095-0RE364
Adapters for 18 tubes of 1,5-2,2ml	6	095-0RE464



Unicen 21

Centrifuge Microcen 23 ORTOALRESA

The centrifuge Microcen 23 is a compact and practical device which meets the essential requirements that demand a reliable result in a short space of time. Ideal for run a reduced number of samples, it's undoubtedly the most appropriated choice for emergency labs, due to its reduce the time on sample preparation.

Microcen 23

Refrigerated	Dim. WxHxD (mm)	Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	Pack (u.)	Art. No.
No	276x272x390	17	220-240	50-60	140	1	095-0CE180

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Rotors for Microcen 23



Rotor RT246



Rotor RT247



Rotor RT248

Model	Rotor type	Max. Capacity	RPM	Radius (mm)	Factorxg	Braking time (s)	Pack (u.)	Art. No.
Rotor RT 246	Angle fixed 30°	8x15 ml	8.000	91	3.663	15	1	095-ORT246
Rotor RT 247	Angle fixed 30°	12x5 ml	8.000	72	2.898	15	1	095-ORT247
Rotor RT 248	Angle fixed 30°	10x15 ml	8.000	89	3.582	15	1	095-ORT248



Digicen 21

**Centrifuge Digicen 21 / 21R
ORTOALRESA**

The centrifuge Digicen 21 highlights for its versatility among the universal centrifuges. It's controlled through LCD screen showing centrifugation values as time, RPM/RCF, as well as braking time, graphic for open lid, progress bar, messages and acoustic signals for error or end of program, which provides the user the process monitoring.

Centrifuge (rotor not included)

Model	Refrigerated	Dim. WxHxD (mm)	Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	Pack (u.)	Art. No.
Digicen 21	No	530x320x410	36	220-240	50-60	280	1	095-OCE110
Digicen 21R	Yes	680x320x590	67	220-240	50-60	700	1	095-OCE113

Rotors for Digicen 21/21R



Rotor RT143



Rotor RT138



Rotor RT183



Rotor RT150



Rotor RT128



Rotor RT151



Rotor RT110



Rotor RT106



Rotor RT108



Rotor RT121



Rotor RT152



Rotor RT153



Rotor RT154

→ Continued on the next page

Rotor RT143

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT143	Swingout	4x50ml	5300	145	4554	-4	1	095-ORT143

Accessories for rotor RT143

Description	Pack (u.)	Art. No.
Capacity for 50ml tubes	4	095-ORE445
Adapters for 4x50ml hs, 4x50ml tubes	4	095-ORE378
Adapters for 4x50ml hs conical tubes and 4x50ml tubes	4	095-ORE342
Adapters for 4x30ml hs, 4x50ml tubes	4	095-ORE379
Adapters for 4x30ml, 4x50ml tubes	4	095-ORE333
Adapters for 4x10ml blood tubes, 4x15ml tubes, 4x10ml hs or 4x15ml conical tubes	4	095-ORE329
Adapters for 12x5ml/ 10ml tubes	4	095-ORE313
Adapters for 4x5ml blood tubes, or 4x7/10ml blood tubes	4	095-ORE337
Adapters for 36 haemolysis tubes of 10x100mm	4	095-ORE326
Adapters for 12 tubes of 1,5-2,2ml	4	095-ORE463

Rotor RT138

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT138	Oscillating	4x100ml	5000	147	4109	-4	1	095-ORT138

Accessories for rotor RT138

Description	Pack (u.)	Art. No.
Capacity for 50ml tubes	4	095-ORE446
Adapters for 4x80ml hs tubes	4	095-ORE380
Adapters for 4x80ml tubes	4	095-ORE338
Adapters for 4x50ml hs tubes	4	095-ORE381
Adapters for 4x50ml, 4x100ml tubes	4	095-ORE335
Adapters for 4x50ml conical tubes, 4x100ml tubes	4	095-ORE341
Adapters for 4x30ml hs tubes	4	095-ORE382
Adapters for 4x30ml tubes	4	095-ORE332
Adapters for 16x10ml blood tubes, 16x10ml hs or 16x15ml tubes	4	095-ORE316
Adapters for 4x15ml conical tubes	4	095-ORE339
Adapters for 20x5ml blood tubes, or 20x 7/10ml blood tubes, 20x5ml or 20x10ml tubes	4	095-ORE320
Adapters for 20 microtubes of 1,5-2ml	4	095-ORE408
100 ml beakers	4	095-ORE355

Rotor RT183

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT183	Angle fixed	32x0,2ml	16500	55 (medium radius on bucket)	16741	2	1	095-ORT183

Rotor RT150

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT150	Swingout	2,4 or 6 micro-titer	4000	122 (medium radius on bucket)	2182	0	1	095-ORT150

Accessories for rotor RT150

Description	Pack (u.)	Art. No.
Adapters for 72 microtubes of 1,5-2ml in microtiter plates	2	095-ORE401

Rotor RT128

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT128	Horizontal	24x1,5x75mm	13000	86	16250	1	1	095-ORT128

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Rotor RT151

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT151	Angle fixed 45°	24x1,5/2ml	16500	82	24959	2	1	095-ORT151

Accessories for rotor RT151

Description	Pack (u.)	Art. No.
Adapters for 24 microtubes of 0,2-0,4ml	24	095-ORE304
Adapters for 24 microtubes of 0,5-0,6ml	24	095-ORE305

Rotor RT110

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT110	Angular	24x5ml	6500	113	5338	1	1	095-ORT110

Rotor RT106

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT106	Angle fixed 35°	18x15ml	4200	132	2603	0	1	095-ORT106

Accessories for rotor RT106

Description	Pack (u.)	Art. No.
Adapters for 18x10ml hs tubes	18	095-ORE383
Adapters for 18x7/10ml blood tubes or 18x10ml tubes	18	095-ORE359
Adapters for 18x5ml blood tubes or 18x5ml tubes	18	095-ORE303

Rotor RT108

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT108	Angle fixed 35°	24x15ml	4200	132/114	2603/2248	-1	1	095-ORT108

Accesorios para rotor RT108

Description	Pack (u.)	Art. No.
Adapters for 24x10ml hs tubes	24	095-ORE384
Adapters for 24x7/10ml blood tubes or 24x10ml tubes	24	095-ORE385
Adapters for 24x5ml blood tubes or 24x5ml tubes	24	095-ORE306

Rotor RT121

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT121	Angle fixed 45°	6 x 50ml	6000	132	5313	1	1	095-ORT121

Accessories for rotor RT121

Description	Pack (u.)	Art. No.
Capacity for 6x50ml tubes	6	095-ORE447
Adapters for 6x50ml hs tubes	6	095-ORE386
Adapters for 6x50ml conical tubes	6	095-ORE365
Adapters for 6x30ml hs tubes	6	095-ORE387
Adapters for 6x30ml tubes	6	095-ORE362
Adapters for 6x10ml blood tubes, 6x15ml tubes, 6x10ml hs tubes or 6x15ml conical tubes	6	095-ORE361
Adapters for 18x5ml or 18x10ml tubes	6	095-ORE360
Adapters for 6x5ml blood tubes or 6x7/10ml blood tubes	6	095-ORE364
Adapters for 18 tubes of 1,5 to 2ml	6	095-ORE464

Rotor RT152

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT152	Angle fixed 30°	12x10ml hermetic	15000	78	19621	4	1	095-ORT152

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Accessories for rotor RT152

Description	Pack (u.)	Art. No.
Adapters for 12x5ml blood tubes or 12x5ml in 15ml hermetic	12	095-ORE389

Rotor RT153

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT153	Angle fixed 30°	8x30ml hermetic	13500	92	18746	4	1	095-ORT153

Accessories for rotor RT153

Description	Pack (u.)	Art. No.
Adapters for 8x15ml, 8x30ml tubes	8	095-ORE406
Adapters for 8x10ml, 8x30ml tubes	8	095-ORE407
Adapters for 8x10ml hs, 8x30ml tubes	8	095-ORE391
Adapters for 8x5ml blood tubes or 8x5ml in 30ml hermetic	8	095-ORE390

Rotor RT154

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT154	Angle fixed 28°	6x50ml hermetic	9000	101	9146	1	1	095-ORT154

Accessories for rotor RT154

Description	Pack (u.)	Art. No.
Adapters for 6x30ml hs tubes, 6x50ml hermetic	6	095-ORE392
Adapters for 6x30ml tubes, 6x50ml hermetic	6	095-ORE393
Adapters for 6x10ml blood tubes or 6x15ml tubes	6	095-ORE394
Adapters for 6x10ml hs tubes, 6x50ml hermetic	6	095-ORE395
Adapters for 6x10ml tubes or 6x7/10ml blood tubes	6	095-ORE396
Adapters for 6x5ml blood tubes or 6x5ml, 6x50ml hermetic	6	095-ORE397
Adapters for 18 tubes of 1,5 to 2ml	6	095-ORE433

Rotor RT207

Model	Rotor type	Capacity	RPM	Pack (u.)	Art. No.
RT207	Oscillating	4xcyto-containers	2500	1	095-ORT207



Biocen 22R

**Centrifuge Biocen 22 R
ORTOALRESA**

The Biocen 22 R can reach up to 30,034 x g, becoming the necessary tool for most demanding labs, allows 24 microtubes of 2,2ml, 32ml of 0,2 and 8 x 15ml conical tubes. Orto Alresa has built the Biocen 22 R with several advantages which allow a safe analysis, without interaction of centrifuge, as: cooling system which maintains the sample temperature at 4°C at max speed, regardless of the rotor, chamber of centrifugation in stainless steel, allowing an easy disinfection on samples leakages, avoiding contamination from the centrifuge, rotors with hermetic lids and accessories sterilizables.

Centrifuge (rotor not included)

Model	Refrigerated	Dimensions WxHxD (mm)	Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	Pack (u.)	Art. No.
Biocen 22 R	Yes	640x272x276	34	220-240	50-60	540	1	095-OCE148

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Rotors for Biocen 22R



Rotor RT222



Rotor RT223



Rotor RT224

Rotor RT222

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT222	Angle fixed 45°	24x1,5-2ml	18100	82	30034	1	095-ORT222

Accessories for rotor RT222

Description	Pack (u.)	Art. No.
Adapters for 24 microtubes of 0,5-0,6ml	24	095-ORE305
Adapters for 24 microtubes of 0,2-0,4ml	24	095-ORE304

Rotor RT223

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT223	Angle fixed 30°	8x15ml conics	8000	91	6511	1	095-ORT223

Accessories for rotor RT223

Description	Pack (u.)	Art. No.
Adapters for 8x10ml tubes or 8x7/10ml blood tubes	8	095-ORE371
Adapters for 8x10ml hs tubes	8	095-ORE398
Adapters for 8x5ml tubes or 8x5ml blood tubes	8	095-ORE377

Rotor RT224

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT224	Angle fixed 45°	32x0,2ml	18100	55	20145	1	095-ORT224



Consul 21

Centrifuge Consul 21/21R ORTOALRESA

High capacity on a bench top offering several advantages to the operator, until now exclusively available on devices for research. The TFT touch screen made easy the value selection, including in only one screen timer, RPM, RCF, acceleration and braking. The user menu, allows the customization of several values as open lid, RPM/RCF locking along centrifugation, countdown, etc. Along centrifugation a graphic shown the operator the current status as well as time to end of program.

Centrifuge (rotor not included)

Model	Refrigerated	Dimensions WxHxD (mm)	Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	Pack (u.)	Art. No.
Consul 21	No	620x390x490	47	220-240	50-60	440	1	095-0CE111
Consul 21 R	Yes	770x390x670	72	220-240	50-60	1040	1	095-0CE114

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Rotores para Digtor 21/21R



Rotor RT197



Rotor RT199



Rotor RT203



Rotor RT205



Rotor RT206



Rotor RT219

Rotor RT197

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT197	Angle fixed 45°	8x50ml	6000	149	5997	-4	1	095-0RT197

Accessories for rotor RT197

Description	Pack (u.)	Art. No.
Capacity for 8x50ml tubes	8	095-0RE448
Adapters for 8x50ml conical tubes with or without skirt	8	095-0RE375
Adapters for 8x30ml tubes	8	095-0RE370
Adapters for 8x10ml blood tubes, 8x15ml blood tubes, 8x15ml tubes or 8x15ml conical tubes	8	095-0RE369
Adapters for 24x5ml or 24x10ml tubes	8	095-0RE366
Adapters for 8x5ml blood tubes, or 8x7/10ml blood tubes	8	095-0RE373
Adapters for 24 haemolysis tubes of 10x100mm	8	095-0RE367

Rotor RT199

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT199	Angle fixed 30°	4x250 ml	4700	153	3779	-4	1	095-0RT199

Accessories for rotor RT199

Description	Pack (u.)	Art. No.
Adapters for 4x100ml tubes	4	095-0RE327
Adapters for 4x80ml tubes, 4x250ml	4	095-0RE422
Adapters for 4x50ml tubes	4	095-0RE334
Adapters for 4x50ml conical tubes with or without skirt	4	095-0RE340
Adapters for 12x30ml tubes	4	095-0RE312
Adapters for 20x15ml conical tubes	4	095-0RE321
Adapters for 28x10ml, 28x15ml blood tubes, 28x15ml tubes	4	095-0RE376
Adapters for 40x5ml or 40x10ml tubes	4	095-0RE343
Adapters for 28x5ml blood tubes, or 28x7/10ml blood tubes	4	095-0RE324
Adapters for 52 haemolysis tubes of 10x100mm	4	095-0RE346

Rotor RT203

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT203	Swingout	4x250ml	4200	183	3609	-2	1	095-0RT203

→ Continued on the next page

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Accessories for rotor RT203

Description	Pack (u.)	Art. No.
Capacity of 250ml tubes	4	095-ORE449
Adapters for 4x100ml tubes	4	095-ORE327
Adapters for 4x80ml tubes, 4x250ml	4	095-ORE422
Adapters for 4x50ml tubes	4	095-ORE334
Adapters for 4x50ml conical tubes with or without skirt	4	095-ORE340
Adapters for 12x30ml tubes	4	095-ORE312
Adapters for 20x15ml conical tubes	4	095-ORE321
Adapters for 28x10ml blood tubes or 28x15ml tubes	4	095-ORE376
Adapters for 40x5ml or 40x10ml tubes	4	095-ORE343
Adapters for 28x5ml blood tubes, or 28x7/10ml blood tubes	4	095-ORE324
Adapters for 52 haemolysis tubes of 10x100mm	4	095-ORE346
Adapters for 24 tubes of 1,5-2ml	4	095-ORE440

Rotor RT205

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT205	Swingout	4x400ml	4000	180	3220	-4	1	095-ORT205

Accessories for rotor RT205

Description	Pack (u.)	Art. No.
Capacity for 400ml tubes in 400ml	4	095-ORE450
Adapters for 4x400ml in 4x400ml bottles	4	095-ORE436
Adapters for 4x350ml tubes, 4x400ml	4	095-ORE423
Adapters for 4x250ml tubes, 4x400ml	4	095-ORE457
Adapters for 4x200ml tubes, 4x400ml	4	095-ORE430
Adapters for 4x100ml tubes, 4x400ml	4	095-ORE412
Adapters for 12x50ml conical tubes with or without skirt in 400ml	4	095-ORE413
Adapters for 8x50ml tubes, 8x400ml	4	095-ORE414
Adapters for 20x30ml tubes, 20x400ml	4	095-ORE415
Adapters for 28x15ml conical tubes in 400ml	4	095-ORE416
Adapters for 48x10ml blood tubes or 48x15ml in 400ml	4	095-ORE417
Adapters for 72x5ml tubes or 72x10ml in 400ml	4	095-ORE418
Adapters for 48x5ml blood tubes, or 48x7/10ml blood tubes in 400ml	4	095-ORE419
Adapters for 48 microtubes of 1,5ml to 2ml in 400ml	4	095-ORE431
Adapters for 76 haemolysis tubes of 10x100mm in 400ml	4	095-ORE420
400ml beakers	4	095-ORE405

Rotor RT206

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT206	Angle fixed 45°	30x1,5/2ml	14310	96	20804	-4	1	095-ORT206

Accessories for rotor RT206

Description	Pack (u.)	Art. No.
Adapters for 30 tubes of 0,5/0,6ml	30	095-ORE428
Adapters for 30 tubes of 0,2/0,4ml	30	095-ORE427

Rotor RT219

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT219	Swingout	12 microplates	3500	149	2041	-4	1	095-ORT219

For further information, please contact scharlab@scharlab.com



Digtor 21

Centrifuge Digtor 21/21R ORTOALRESA

The centrifuge Digtor 21 is a versatile device, allowing be present on routine labs, research, biotechnology, quality control, hospitals, etc. It is provided of several advantages as the incorporation of a TFT touch screen allowing operator the highest autonomy, controlling the separation, as well as a save energy system selectable. Always shown on screen real values of RCF, based on accessories selection, automatically, no data introduction is required. Accessories for bio containment.

Centrifuge (rotor not included)

Model	Refrigerated	Dimensions WxHxD (mm)	Weight (Kg)	Voltage (V)	Frequency (Hz)	Consumption (W)	Pack (u.)	Art. No.
Digtor 21	No	650x390x540	50	220-240	50-60	600	1	095-0CE112
Digtor 21 R	Yes	805x390x720	95	220-240	50-60	1200	1	095-0CE115

Rotores



Rotor RT191



Rotor RT192



Rotor RT195



Rotor RT197



Rotor RT198



Rotor RT199



Rotor RT206



Rotor RT201



Rotor RT202



Rotor RT210

Rotor RT191

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT191	Swingout	4x750ml	3700	204	3030	-4	1	095-0RT191

→ Continued on the next page

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Accessories for rotor RT191

Description	Pack (u.)	Art. No.
Capacity for 4x750ml tubes	4	095-ORE434
Adapters for 4x500ml tubes	4	095-ORE310
Adapters for 4x400ml tubes	4	095-ORE435
Adapters for 4x250ml tubes	4	095-ORE330
Adapters for 4x125ml tubes	4	095-ORE409
Adapters for 16x50ml tubes	4	095-ORE317
Adapters for 20x50ml conical tubes	4	095-ORE472
Adapters for 16x50ml conical tubes	4	095-ORE318
Adapters for 24x30ml tubes	4	095-ORE322
Adapters for 72x10ml blood tubes or 72x5ml tubes	4	095-ORE348
Adapters for 52x15ml conical tubes	4	095-ORE347
Adapters for 32x15ml blood tubes	4	095-ORE441
Adapters for 84x5ml or 84x10ml tubes	4	095-ORE354
Adapters for 72x5ml or 72x7/10ml blood tubes	4	095-ORE349
Adapters for 144 haemolysis tubes of 10x100mm	4	095-ORE315
Plate holder for 12 microtiter plates	4	095-ORE307
Adapters for 72 microtubes 1,5-2ml	4	095-ORE426
750ml beakers	4	095-ORE356

Rotor RT192

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT192	Swingout	4x250ml	4200	202	3984	-2	1	095-ORT192

Accessories for rotor RT192

Description	Pack (u.)	Art. No.
Seats for 4 tubes of 250ml	4	095-ORE449
Adapters for 4x100ml tubes	4	095-ORE327
Adapters for 4x80ml tubes, 4x250ml	4	095-ORE422
Adapters for 4x50ml tubes	4	095-ORE334
Adapters for 4x50ml conical tubes	4	095-ORE340
Adapters for 12x30ml tubes	4	095-ORE312
Adapters for 28x10ml and 28x15ml blood tubes or 28x15ml tubes	4	095-ORE376
Adapters for 20x15ml conical tubes	4	095-ORE321
Adapters for 40x5ml or 40x10ml tubes	4	095-ORE343
Adapters for 28x5ml or 28x7/10ml blood tubes	4	095-ORE324
Adapters for 52 haemolysis tubes of 10x100mm	4	095-ORE346
Adapters for 24 microtubes 1,5-2ml	4	095-ORE440

Rotor RT195

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT195	Swingout	104x5ml	3800	185	583	-4	1	095-ORT195

Accessories for rotor RT195

Description	Pack (u.)	Art. No.
Vessels for 104x7/10ml blood tubes or 104x10ml tubes	4	095-ORE309

Rotor RT197

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT197	Angle fixed 45°	8x50ml	6000	149	5997	-4	1	095-ORT197

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Accessories for rotor RT197

Description	Pack (u.)	Art. No.
Capacity for 8x50ml tubes	8	095-ORE448
Adapters for 8x50ml conical tubes	8	095-ORE375
Adapters for 8x30ml tubes	8	095-ORE370
Adapters for 8x10ml blood tubes, 8x15ml blood tubes, 8x15ml conical tubes, 8x15ml tubes	8	095-ORE369
Adapters for 24x5ml or 24x10ml tubes	8	095-ORE366
Adapters for 8x5ml blood tubes, 8x7/10ml blood tubes	8	095-ORE373
Adapters for 24 haemolysis tubes of 10x100mm	8	095-ORE367

Rotor RT198

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT198	Angle fixed 45°	4x100ml	5600	138	4838	-4	1	095-ORT198

Accessories for rotor RT198

Description	Pack (u.)	Art. No.
Capacity for 4x100ml tubes	4	095-ORE446
Adapters for 4x80ml hs tubes	4	095-ORE380
Adapters for 4x80ml tubes	4	095-ORE338
Adapters for 4x50ml hs tubes	4	095-ORE381
Adapters for 4x50ml tubes, 4x100ml	4	095-ORE335
Adapters for 4x50ml conical tubes, 4x100ml	4	095-ORE341
Adapters for 4x30ml hs tubes	4	095-ORE382
Adapters for 4x30ml tubes	4	095-ORE332
Adapters for 16x10ml blood tubes, 16x10ml hs tubes or 16x15ml tubes	4	095-ORE316
Adapters for 4x15ml conical tubes	4	095-ORE339
Adapters for 20x5ml blood tubes, 20x7/10ml blood tubes, 20x15ml or 20x10ml tubes	4	095-ORE320
Adapters for 20 microtubes 1,5-2ml	4	095-ORE408
Adapters for 36 haemolysis tubes of 10x100mm in 100mm	4	095-ORE326

Rotor RT199

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT199	Angle fixed 30°	4x250ml	4700	153	3779	-4	1	095-ORT199

Accessories for rotor RT199

Description	Pack (u.)	Art. No.
Capacity for 4x250ml tubes	4	095-ORE449
Adapters for 4x100ml tubes	4	095-ORE327
Adapters for 4x80ml tubes, 4x250ml	4	095-ORE422
Adapters for 4x50ml tubes	4	095-ORE334
Adapters for 4x50ml conical tubes	4	095-ORE340
Adapters for 12x30ml tubes	4	095-ORE312
Adapters for 20x15ml conical tubes	4	095-ORE321
Adapters for 28x10ml blood tubes, 28x15ml blood tubes, 28x15ml tubes	4	095-ORE376
Adapters for 40x5ml or 40x10ml tubes	4	095-ORE343
Adapters for 28x5ml blood tubes, 28 for 7/10ml blood tubes	4	095-ORE324
Adapters for 52 haemolysis tubes of 10x100mm	4	095-ORE346
Adapters for 28 microtubes 1,5-2ml	4	095-ORE440

Rotor RT206

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT206	Angle fixed 30°	30x1,5/2ml	14300	96	20804	-4	1	095-ORT206

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Accessories for rotor RT206

Description	Pack (u.)	Art. No.
Adapters for 30 tubes x0,5/0,6ml	30	095-ORE428
Adapters for 30 tubes x 0,2/0,4ml	30	095-ORE427

Rotor RT201

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT201	Swingout	4 blood bags	3700	204	3030	-4	1	095-ORT201

Accessories for rotor RT201

Description	Pack (u.)	Art. No.
Capacity for 4x750ml tubes	4	095-ORE434
Adapters for 4x500ml tubes	4	095-ORE310
Adapters for 4x400ml tubes	4	095-ORE435
Adapters for 4x250ml tubes	4	095-ORE330
Adapters for 4x125ml tubes	4	095-ORE409
Adapters for 16x50ml tubes	4	095-ORE317
Adapters for 20x50ml conical tubes	4	095-ORE472
Adapters for 16x50ml conical tubes	4	095-ORE318
Adapters for 24x30ml tubes	4	095-ORE322
Adapters for 72x10ml blood tubes or 72x15ml tubes	4	095-ORE348
Adapters for 52x15ml conical tubes	4	095-ORE347
Adapters for 32x15ml blood tubes	4	095-ORE441
Adapters for 84x5ml or 84x10ml tubes	4	095-ORE354
Adapters for 72x5ml blood tubes, 72x7/10ml blood tubes	4	095-ORE349
Adapters for 144 haemolysis tubes of 10x100mm	4	095-ORE315
Plate holder for 12 microtiter plates	4	095-ORE307
Adapters for 72 microtubes 1,5-2ml	4	095-ORE426
750ml beakers	4	095-ORE356
Adapters for blood bags	4	095-ORE308

Rotor RT202

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Min. T at max. speed (°C)	Pack (u.)	Art. No.
RT202	Swingout	12 microtiter plates	3500	182 (medium radius on bucket)	2493	-4	1	095-ORT202

Rotor RT210

Model	Rotor type	Capacity	RPM	Radius (mm)	Factorxg	Pack (u.)	Art. No.
RT210	Swingout	4x50ml syringe	3000	179	1801		095-ORT210

For further information, please contact scharlab@scharlab.com



UNIVERSAL 320 R

Benchtop centrifuges UNIVERSAL 320 HETTICH

The UNIVERSAL 320 / 320 R impress by excellent performance in the high and low speed range and versatile, easily exchangeable accessories. In the low speed range, they process standard tubes up to a volume of 100 ml, microtitre plates, conical tubes with screw cap, blood collection tubes and cyto accessories. Microliter tubes can be accelerated to an RCF of 21382. A selection of 19 rotors is available for the UNIVERSAL 320 / 320 R. With frequency drive, microprocessor control, impulse key for short centrifuging, quick-entry foil keypad, digital display. As necessary, a switch key enables entry / display of RPM (speed) or RCF. Ten complete running programmes can be stored and recalled. Temperature in the UNIVERSAL 320 / 320 R is controllable within a range of - 20 to + 40°C.

UNIVERSAL 320: air-cooled version.

Technical data:

- Max. RCF: 21382
- Max. RPM (speed): 15000 min⁻¹
- Max. capacity: 4 x 100ml / 32 x 15ml
- Dimensions (H x W x D): 346 x 395 x 520mm (UNIVERSAL 320)
- 346 x 401 x 695mm (UNIVERSAL 320 R)
- Weight: approx. 31kg (UNIVERSAL 320) approx. 53kg (UNIVERSAL 320 R)

Centrifuges (rotor not included)

Model	Refrigerated	Dim. WxHxD (mm)	Weight (Kg)	Voltage (V)	Pack (u.)	Art. No.
UNIVERSAL 320	No	395x346x520	31	240	1	0000001401
UNIVERSAL 320 R	Yes	401x346x695	53	240	1	0000001406

Common rotors. Other accessories available

Description	Pack (u.)	Art. No.
Oscillating rotor 4x100ml (90°), max. RCF 4.193	1	0000001494
Angular rotor 30x1,5/2ml, max. RCF 21.255	1	000001689A
Angular rotor 6x85ml, max. RCF 9.509	1	000001620A
Rotor Cyto rotor/8 slide preparations, max. RCF 2.218	1	0000001648



MIKRO 200 R

Benchtop centrifuges MIKRO 200 HETTICH

- Fast turn and cooling.
- Centrifugation of thermal-unstable probes.
- Silent run.
- With frequency drive.
- Powered lid locking.
- 4 programmable memories.

Additional features with MIKRO 200 R:

- Temperature range of - 10 to + 40°C, Fast Cool function, stand-by mode, automatic deactivation when lid is opened.

Technical data:

- Max. RCF: 21382
- Max. RPM (speed): 15000 min⁻¹
- Max. capacity: 30 x 1.5 to 2.0 ml
- Dimensions: (H x W x D): 260 x 275 x 344mm (MIKRO 200)
- 260 x 281 x 547mm (MIKRO 200 R)
- Weight: approx. 11.5 kg (MIKRO 200)
- approx. 28 kg (MIKRO 200 R)

Centrifuges (rotor not included)

Model	Refrigerated	Dim. WxHxD (mm)	Weight (Kg)	Voltage (V)	Pack (u.)	Art. No.
MIKRO 200	No	275x260x344	11,5	240	1	0000002400
MIKRO 200 R	Yes	281x260x547	28	240	1	0000002405

Common rotors. Other accessories available

Description	Pack (u.)	Art. No.
Angular rotor 24x0,2ml with standard lid RCF 21.382	1	000002424B

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Benchtop centrifuges ROTINA 380 HETTICH

The high-performance centrifuge ROTINA 380 / 380 R delivers separation technology to satisfy the highest standards. Samples with capacities of up to 4 x 290ml can be processed with a max. RCF of 4863. Angle rotors with a max. RCF of 16504 for higher speeds are available. Accessories with bio-containment protect against aerosols.

- Main fields of application: clinical chemistry, genetic research, microbiology.
 - With frequency drive, microprocessor control, impulse key for short centrifuging, automatic lid locking and 98 programmable memories.
 - Advanced C control panel.
 - Parameter selection via symbol keys.
 - Values are set with a control knob and recorded by pressing the start key.
- Temperature in the ROTINA 380 R is controllable within a range - 20 to + 40°C.
 ROTINA 380 S: air-cooled version.

Technical data:

- Max. RCF: 24400
- Max. speed: 15000min⁻¹
- Max. capacity: 4 x 290ml
- Dimensions (H x B x T): 418 x 457 x 600mm (ROTINA 380)
418 x 457 x 750mm (ROTINA 380 R)
- Weight: approx. 51 kg (ROTINA 380)
approx. 81 kg (ROTINA 380 R)

Centrifuges (rotor not included)



ROTINA 380



ROTINA 380 R

Model	Refrigerated	Dim. WxHxD (mm)	Weight (Kg)	Voltage (V)	Pack (u.)	Art. No.
ROTINA 380	No	457x418x600	51	240	1	0000001701
ROTINA 380 R	Yes	457x418x750	81	240	1	0000001706

Common rotors. Other accessories available

Description	Pack (u.)	Art. No.
Oscillating rotor 4x290ml (90°), max. RCF 4.863	1	0000001754
Angular rotor 30x1,5/2ml, max. RCF 24.400	1	000001789A
Angular rotor 6x94ml, max. RCF 13.640	1	0000001792
Rotor Cyto rotor/8 slide preparations, max. RCF 2.415	1	0000001748

For further information, please contact scharlab@scharlab.com

Centrifuges ROTANTA 460 HETTICH

For sample processing in clinical chemistry, biotechnology, molecular biology and pharmaceutical industry, a wide selection of adapters is available to accommodate the most varied types of tubes. Developed for large volumes, the ROTANTA 460 models offer frequency drive, microprocessor control, impulse key for short centrifuging and powered lid locking. As necessary, a switch key enables entry / display of RPM (speed) or RCF. All versions of the ROTANTA 460 line feature the sophisticated C control panel. The C control panel provides 98 programmable memories. Temperature in the refrigerated ROTANTA 460 R is controllable within a range of - 20 to + 40°C. On request, model ROTANTA 460 R can also be supplied in heating / cooling version with a temperatura range of - 20 to + 90°C. Model ROTANTA 460 is the air-cooled version. Model ROTANTA 460 RC: underbench centrifuge, with cooling. Model ROTANTA 460 RF: floorstanding centrifuge, with cooling.

Technical Data

- Max. RCF: 24400
- Max. RPM (speed): 15000min⁻¹
- Max. capacity: 4 x 750ml

Centrifuges (rotor not included)



ROTANTA 460



ROTANTA 460 R



ROTANTA 460 RF

Model	Refrigerated	Dim. WxHxD (mm)	Weight (Kg)	Voltage (V)	Pack (u.)	Art. No.
ROTANTA 460	No	554x456x706	93	240	1	0000005650
ROTANTA 460 R	Yes	770x457x706	133	240	1	0000005660
ROTANTA 460 RC	Yes	554x683x697	140	240	1	0000005670
ROTANTA 460 RF	Yes	554x961x697	164	240	1	0000005675

Common rotors. Other accessories available

Description	Pack (u.)	Art. No.
Oscillating rotor 4x750ml (90°), max. RCF 5.063	1	0000005624
Angular rotor 30x1,5/2ml (45°), max. RCF 24.400	1	000004489A
Angular rotor 6x250ml (25°), max. RCF 11.228	1	0000005645
Oscillating rotor 12 microtiter plates (90°), max. RCF 5.838	1	0000004620

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COLONY COUNTERS

- Automatic counters, *page 879*
- Manual counters, *page 880*

COLONY COUNTERS: Automatic counters



- Powerful zoom: x7 for Scan[®] 300 and Scan[®] 500 and up to x28 for Scan[®] 1200.
- Long lasting LED lighting.
- Exportable data to Excel[™], PDF, JPEG, BMP.
- Connection to LIMS network and report printing.
- Power supply: 240 V.

Delivered with: Scan[™] software CD-ROM, FireWire (PCI, PCMCIA, Expresscard, adapter 6/4 pins).

Model	Resolution	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Scan [®] 300	640x480 pixels	27x27x29	6,6	1	603-436300
Scan [®] 500	640x480 pixels	27x27x29	6,6	1	603-436000
Scan [®] 1200	1280x960 pixels	27x27x38	8,7	1	603-437000

Accessories

Description	Model	Pack (u.)	Art. No.
Barcode reader	Scan [®] 300, Scan [®] 500 and Scan [®] 1200	1	603-522000
55mm dishes adapter	Scan [®] 300, Scan [®] 500 and Scan [®] 1200	1	603-436005
Petri Film [®] adapter	Scan [®] 1200	1	603-436002
RIDA [®] count/Sanita kun [®] adapter	Scan [®] 1200	1	603-436001

Automatic colony counters Scan[®] INTERSCIENCE

Counters with a digital camera and a high technology software that can be linked to a PC via a FireWire connection. They count all colonies on a Petri dish in less than 1 second and provide a complete, fast, accurate and traceable reading of the result.

Counting can be done on different plates depending on model:
 Scan[®] 300: on Petri dish surface, mass and Spiral (55-90mm).
 Scan[®] 500: on Petri dish surface, mass and Spiral (55-90mm), chromogenic Petri dish and inhibition zones.
 Scan[®] 500: on Petri dish surface, mass and Spiral (55-90mm), chromogenic Petri dish and inhibition zones, Compact Dry[®], Petri Film[®], RIDA[®] count/Sanita kun[®] and Petri dishes with filtration membranes.

Technical specifications:

- 6 optimized lighting & contrast combinations.
- Automatic adaptation to any agar type
- Detects and counts up to seven different colours on same Petri dish.
- Count in 1 second.
- Minimum size of colonies: Scan[®] 300 and Scan[®] 500: 0,1mm and Scan[®] 1200: 0,05mm.
- Automatic separation of confluent colonies.
- Polygonal exclusion areas generation.

For further information, please contact scharlab@scharlab.com



Automatic colony counter Flash and Go IUL

This optical instrument is to be used in conjunction with a Windows Vista or Xp computer to obtain a powerful automatic colony counter. Allows counting all kinds of colonies in different media types, comes with a high definition color camera which detects colonies of 1/15mm approximately. Software upgrades are available for increasing counting performance and specific applications such as antibiotic inhibition zones measurement.

Specifications:

- LED lighting.
- Dark or bright background field.
- Minimum colony size: 0,06mm.
- Image field: 97x97mm.
- Image capture: true color, 24 bits per pixel.
- Power supply: 240 V.

Provided with basic software.

Model	Resolution	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Flash & go	1536x1536 pixels	18x36x22	5,4	1	107-006010

Accessories

Description	Pack (u.)	Art. No.
Colony counter support for Rodac plates	1	107-006085
Petrifilm adapter	1	107-006096
Upgraded advanced Software for colony counters	1	107-006017
Upgraded advanced Software for inhibition zone measurement	1	107-006018

COLONY COUNTERS: Manual counters



Digital colony counter Scan® 100 INTERSCIENCE

Scan® 100 is a high-tech manual colony counter remarkable for its user-friendly functions and wonderful ergonomics. A LED lighting system with Dark-Field technology give an accurate and contrasted view of the colonies. The integrated USB port allows export of the results to the software of your choice (PC/Mac) to guarantee traceability.

Technical specifications:

- Touch surface with adjustable sensitivity
- For all Petri dishes: ø55, 65, 90, 150mm
- Multifunction digital display
- Counting: from 0 to 1999 CFU
- Integrated USB port

Delivered with: white diffusing background, 90mm dish adapter, power supply, USB cable. Magnifying glass not included.

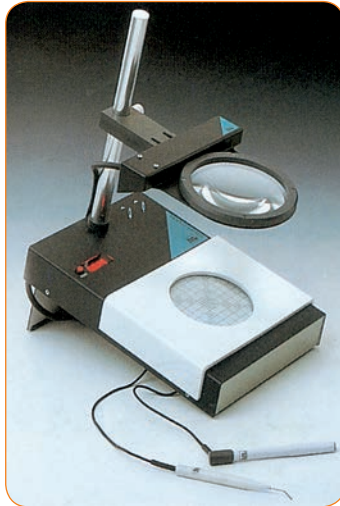
- Power supply: 240 V.

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Scan® 100	31x25x17	5,2	1	603-435000

Accessories

Description	Pack (u.)	Art. No.
Magnifying glass (x2) with arm	1	603-435001
Kit Spiral®. White diffusing background (90/150mm)	1+1	603-435010

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Digital colony counters
IUL

4 digit display. Fiber marker with switch or fiber marker and metal pointer for direct mark over colony. High comfort inclination and magnifying glass for user comfort. Immediate exchangeable opaque and transparent field. Optional top light. For Petri dishes of up to 150mm. Power supply: 240 V.

Description	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Colony counter with Fibre marker standard accessories and magnifying glass of 100mm Ø	20x30x40cm	3	1	107-000602
Colony counter with Fibre marker standard accessories and illuminated magnifying glass of 120mm Ø	20x30x40cm	3	1	107-000604
Colony counter with Fibre marker/metal pointer, standard accessories and illuminated magnifying glass of 120mm Ø	20x30x40cm	3	1	107-000601

Accessories

Description	Pack (u.)	Art. No.
Pointer steel contact	1	107-000618
Dark contrast screen	1	107-000638
Spare fiber marker	5	107-000639
Spare indelible marker	1	107-000687



Digital colony counter Digital-S
J.P. SELECTA

For Petri dish up to 100mm diameter. The unit records each pulsed colony count on the digital screen to a total of 999 counts. Pressure to count can be made by any way (pencil, or pen tip, etc.). Epoxy coated casing. Reversible interior background part in white or black. Steady, (glare free) fluorescent illumination, clear and wide view visibility. Removable plates for housing varying sizes of Petri dishes. Location for reversible contrast plates. Magnifying glass X2 with adjustable height and rotation support. Mains switch. Numerical digital display: 3 digits. Audible confirmation beep for each count. Zero reset button. RESET. Power supply: 230 V.

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Digital S	25x23x30	3,54	1	0194905000

For further information, please contact scharlab@scharlab.com

Freeze dried supplements

- Plastic screw cap and rubber septum for easy and safe handling
- Boxes with 10 vials



The wise choice



COLONY COUNTERS

CRYOGENIC VESSELS

- Dewar vessels, *page 882*
- Liquid nitrogen vessels, *page 883*

CRYOGENIC VESSELS: Dewar vessels

Large insulating Dewar flasks
ISOTHERM

Borosilicate glass 3.3, DIN 12 492, insulated lid including grip.

Capacity (l)	Ø int. (mm)	Ø ext. (mm)	Pack (u.)	Art. No.
10	200	350	1	00031C1242
14	200	500	1	00032C1243
21	250	480	1	00033C1244
28	250	620	1	00034C1245
40	280	650	1	00035C1246

Dewar carrying flasks
ISOTHERM

Borosilicate glass 3.3, DIN 12 492, blue coated metal cover, spring clips and aluminium handle.

Blue metallic body


Content (l)	Ø int. (mm)	Int. height (mm)	Pack (u.)	Art. No.
1	100	150	1	022-001211
2	138	170	1	022-001212
3	138	230	1	022-001213
4	138	310	1	022-001214

Stainless steel body


Content (l)	Ø int. (mm)	Int. height (mm)	Pack (u.)	Art. No.
1	100	150	1	022-001221
2	138	170	1	022-001222
3	138	230	1	022-001223
4	138	310	1	022-001224



Dish-shaped Dewar flasks

ISO THERM

Borosilicate glass, DIN 12 492, structured aluminium cover, suitable for use on magnetic stirrer.

Round bottom

Capacity (ml)	Ø int. (mm)	Int. height (mm)	For round bottom flasks (ml)	Pack (u.)	Art. No.
80	67	40	50	1	0225032421
120	77	50	100	1	0225032422
260	100	65	250	1	0225032423
400	110	70	250	1	0225032425
680	138	80	500	1	0225032426
1600	170	110	1000	1	0225032427



Dewar flasks cylindrical

ISO THERM

Borosilicate glass 3.3 DIN 12 492 cylindrical, silvered.

Metal cylinder, without handle

Capacity (ml)	Ø int. (mm)	Ø ext. (mm)	Int. height (mm)	Pack (u.)	Art. No.
100	40	63	90	1	0225032011
200	40	63	170	1	0225032012
300	47	72	190	1	0225032013
450	47	72	270	1	0225032014
500	57	81	210	1	0225032015
800	67	90	240	1	0225032018
1.200	67	90	350	1	0225032019
1.000	77	105	235	1	0225032021
1.500	77	105	345	1	0225032022
1.500	90	124	245	1	0225032024
2.000	90	124	340	1	0225032025
1.500	100	130	240	1	0225032027
2.000	100	130	290	1	0225032028
2.500	110	140	290	1	0225032030
3.000	138	165	230	1	0225032032
4.000	138	165	310	1	0225032033
8.000	138	165	600	1	0225032034

CRYOGENIC VESSELS: Liquid nitrogen vessels

Automatic level controllers

TAYLOR-WHARTON

1D: Level indication. Alarms for level, lid open, low nitrogen supply and sensor fault. Level monitoring and automatic refilling. Automatic defogging when lid is opened. Quick chill when lid is closed. Manual filling.

T-3L: As CryoCon AF-1D but additionally with: temperature display. Temperature control. Alarms for high temperature. Manual filling. Data logging with serial port for PC/printer for temperature, level, alarm, filling activity etc. Simultaneous or sequential filling in the case of multiple installations. Connection for centralised gas bypass control. Password-controlled access and programming. Update of controller software through PC and cable. Updated software can be forwarded by e-mail or CD.

CryoCon

Description	Pack (u.)	Art. No.
CryoCon AF-1D	1	0000CRAF1D
CryoCon AFT-3L	1	0000CRAFT3
Roller base for LS 750	1	00R0338C00
Roller base for others LS	1	00R05K8C00



K Series

Cryogenic storage systems Bio Med TAYLOR-WHARTON

To store biological specimens or larger objects such as organs for transplantation. The ultra high capacity refrigerators use nitrogen in liquid or vapour phase for cooling. This provides a series of important benefits as compared with mechanical refrigeration systems, especially in terms of environmental considerations: Greater reliability, no heat output, silent operation, lower temperature, virtually maintenance-free, safety back up to power failures. They are designed to accommodate various inventory control systems. The high capacity makes it possible to hold up to 38.350 2ml vials or up to 739.500 0.25 ml straws. Optionally they can be connected to a CryoCon unit, which is an electronic automatic level controller that is available in various models. 10K and larger systems are available with the CE mark in compliance with the Medical Devices Directive MDD 93/42 EC. Recommended LN2 supply tank: XL Series.

K Series

Description	Ext. dim. (mm)	Int. dim. (mm)	Evaporation (l/day)	Static holding time (days)	Weight empty/full (Kg)	Pack (u.)	Art. No.
3K	391 Ø	356 Ø	2,5	19	19,1/56,7	1	00000003K
10K	587x775	533	5	33	111/243	1	000000010K
24K	864x965	787	7	52	184/474	1	000000024K
38K	1067x1397	991	8	74	256/733	1	000000038K



LS Series

Laboratory liquid nitrogen vessels TAYLOR-WHARTON

Large vial capacity in convenient box-type storage racks and at the same time keep N2 consumption to a minimum. The rectangular shape of the racks makes it easier to maintain an overview of and identify stored samples and can be located and removed more easily and faster. LS series cover a range from 750 to 6000 2 ml vials. The LS3000, LS4800 and LS6000 models can be equipped with automatic level control. Optionally they can be supplied with CE mark in compliance with the Medical Devices Directive (MDD 93/42EC). These models can also be used for storage in either the vapour or liquid phase. In case of storage in the vapour phase, the two bottom shelves must be left empty, which reduces the capacity. The use of level controller is recommended.

LS Series

Type	Static holding time (days)	Evaporation (l/day)	Capacity LN2 (l)	Weight empty/full (Kg)	Ø ext. (mm)	Ø neck (mm)	Height (mm)	Pack (u.)	Art. No.
LS750	130	0,27	35	17,7/46	478	119	681	1	0000LS0750
LS3000	106	0,76	81	31,8/97,4	683	216	731	1	0000LS3000
LS4800	162	0,8	130	40,9/146,1	683	216	892	1	0000LS4800
LS6000	194	0,84	165	55/186,4	683	216	991	1	0000LS6000

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XL Series

Liquid cylinders for storage and transportation XL70 to 240

TAYLOR-WHARTON

Inner and outer vessels are made of stainless steel and all vessels comply with the European Directive 1999 / 36 / EC for transportable pressure equipment (TPED). They are designed for the low-pressure requirements of liquid nitrogen filling, storing and dispensing and feature easy, quick liquid withdrawal.

XL Series

Gross/net cap. (l)	Evaporation (N ₂ /%/day)	Max. pressure (bar)	Pressurization	Weight empty/full (Kg)	Ø ext. (mm)	Height (mm)	Rolls	Pack (u.)	Art. No.
70/67	3,5	1,5	Automatic	71/125	508	1115	4	1	0000XL70PB
126/120	2,3	1,5	-	82/179	508	1350	4	1	00000XL120
126/120	2,4	1,5	Automatic	82/179	508	1350	4	1	000XL120PB
163/160	1,5	1,5	-	104/234	508	1464	0	1	00000XL160
186/180	1,3	1,5	-	115/260	508	1635	0	1	000XL18020
189/181	1,3	1,5	-	116/263	660	1280	5	1	000XL18026
189/181	1,3	1,5	Automatic	116/263	660	1280	5	1	0XL18026PB
250/240	1,4	1,5	-	137/332	660	1510	5	1	00000XL240
250/240	1,4	1,5	Automatic	137/332	660	1510	5	1	000XL240PB

Cryogenic gloves in **SAFETY**



For further information, please contact scharlab@scharlab.com

DISPERSERS

Magnetic dispersing instrument SilentCrusher M HEIDOLPH

- With a speed range up to 26,000 rpm, the SilentCrusher M is the silent homogenizer in the world
- Large digital display allows for easy setting and readout even from a distance
- Speed can be adjusted individually from 5,000 - 26,000 rpm
- Your first choice for any quantities from 0.8 - 2,000 ml
- Allows for any viscosity up to 5,000 mPa s
- Choose from 13 different sterilizable generators: from 6 - 22mm diameter you will find options which meet your specification

Homogenisation with high-quality generators made of corrosion resistant stainless steel AISI 316. Easily disassembled for quick cleaning. Autoclavable up to 130°C, air sterilisation up to 180°C. Due to interchangeable ball bearings and chemicalresistant PTFE, all bearings are designed for years of unlimited usage. For larger samples it may be necessary to pre-crush samples with generators which feature additional sprockets (except for 18 G, 18 DG, 22 G). Sealed generators for applications under vacuum down to 20 mbar or pressure up to 6 bar (8 DF, 12 DF, 12 DG, 18 DF, 18 DG). Vessel holding bracket including 2 retainer rings. Note: 2 clamps are required to attach the SilentCrusher M and the vessel holder at the stand.

SilentCrusher M (no generator)

Description	Pack (u.)	Art. No.
SilentCrusherM(provided without accessories)	1	0195595060

SilentCrusher M generators


Type	Ø stator (mm)	Ø rotor (mm)	Slot width (mm)	Length (mm)	Volume (ml)	Original part. (mm)	Pack (u.)	Art. No.
6 F	5,3	3,2	0,6	60	0,8 to 30	< 0,4	1	0195590601
8 F	8,2	6,6	0,6	80	3 to 50	< 0,4	1	0195590801
8 DF	8,2	6,6	0,6	75	3 to 50	< 0,4	1	0195590811
12 F	12	9	0,6	120	25 to 250	< 2	1	0195591201
12 G	12	9	2	120	25 to 250	< 2	1	0195591202
12 DF	12	9	0,6	115	25 to 250	< 2	1	0195591211
12 DG	12	9	2	115	25 to 250	< 2	1	0195591212
18 F	18	12,5	1,5	180	100 to 1500	< 4	1	0195591801
18 G	18	12,5	3	180	100 to 1500	< 4	1	0195591802
18 DF	18	12,5	1,5	175	100 to 1500	< 4	1	0195591811
18 DG	18	12,5	3	175	100 to 1500	< 4	1	0195591812
22 F	22	16,5	1,5	180	100 to 2000	< 4	1	0195592201
22 G	22	16,5	3	180	100 to 2000	< 4	1	0195592202

Accessories for SilentCrusher M


0195701700



0195703110



0195703050

Description	Pack (u.)	Art. No.
Plate stand	1	0195701700
Boss head for SilentCrusher M/Heat-On	1	0195703110
Vessel holding bracket incl. 2 retainer rings	1	0195703010

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T 10 basic ULTRA-TURRAX®

IKA

Small dispersing instrument for volumes from 0,5 to 100ml (H₂O). It offers a wide speed range from 8000 to 30000 min⁻¹ that enables users to work at high circumferential speeds even with small rotor diameters. A broad choice of dispersing elements guarantees a wide range of applications.

- Quick-connect coupling for changing dispersing elements easily.
- Ideal for manual operation due to its light weight and ergonomic design.
- Extremely mobile due to direct line power (no transformer required).
- St. steel dispersing elements can be cleaned quickly and easily as they can be dismantled without tools.
- Plastic disposable dispersing elements are available in two sizes, particularly suitable for PCR analysis.
- High performance drive ensures immense speed stability.
- Quiet operation.

Motor rating input / output: 125 / 75 W

Min. / max. volume (H₂O): 0,5 to 100 ml

Max. viscosity: 5000 mPas

Speed range: 8000 to 30000 min⁻¹

Speed display: scale

Noise without element: 65 dB (A)

Dimensions (W x H x D): 56 x 178 x 66mm

Weight: 0,5 kg

Protection class acc. to DIN EN 60529: IP 30

Mains supply: 230 V, 50 / 60 Hz

The variety of media to be processed also requires a variety of rotor-stator configurations and seals. In many cases it is necessary to use subsequently two dispersing elements, for pre-crushing and fine crushing. The plug-in connectors facilitate the exchange of the dispersing elements.

T 10 basic ULTRA-TURRAX® (Without dispersing element)



Type	Description	Pack (u.)	Art. No.
T 10 basic ULTRA-TURRAX®	Basic device without accessories	1	0223737000

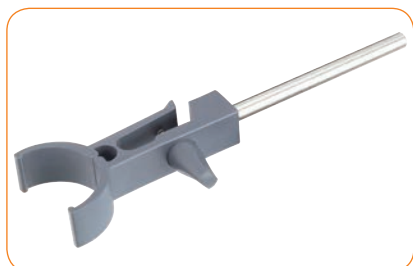
Dispersing elements for T 10 basic ULTRA-TURRAX®



Type	Range (ml)	Ø stator (mm)	Ø rotor (mm)	Circumf. speed (m/s)	Max./min. immersion (mm)	Final suspension (µm)	Final emulsion (µm)	Pack (u.)	Art. No.
S 10 D-7G-KS-65	1 to 20	7	4,8	7,5	20/50	-	-	25	0223433225
S 10 N-5G	0,5 to 10	5	3,8	6	20/75	5 to 25	1 to 10	1	0223304000
S 10 N-8G	1 to 50	8	6,1	9,6	20/95	5 to 25	1 to 10	1	0223305500
S 10 N-10G	1 to 100	10	7,6	11,9	20/100	5 to 25	1 to 10	1	0223370100

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Accessories for T 10 basic ULTRA-TURRAX®


Description	Pack (u.)	Art. No.
H 44 Boss head clamp	1	0222437700
R 200 Clamp	1	0223372000
R 104 Stand	1	0223386000


T 18 digital ULTRA-TURRAX®
IKA

Competitively priced dispersing instrument for volumes from 1 to 1500 ml (H₂O) with digital speed display. It offers a wide speed range from 500 to 25000 min⁻¹ that enables users to work at high circumferential speeds even with small rotor Ø. A broad choice of dispersing elements guarantees a wide range of applications.

- Digital speed display.
- Electronic speed control.
- Electronic overload protection.
- St. steel dispersing elements can be cleaned quickly and easily.
- Plastic disposable dispersing elements are available in 2 sizes.
- Error Art. No. display.
- Quiet operation.

Motor rating input / output: 500 / 300W
 Min. / max. volume (H₂O): 100 to 1500ml
 Max. viscosity: 5000 mPas
 Speed range: 500 to 25000 min⁻¹
 Speed display: LED
 Noise without element: 73 dB (A)
 Dimensions (W x H x D): 100 x 275 x 68mm
 Weight: 2,5 kg
 Protection class acc. to DIN EN 60529: IP 20
 Mains supply: 200 to 240 V, 50 / 60 Hz

The variety of media to be processed also requires a variety of rotor-stator configurations and seals. In many cases it is necessary to use subsequently two dispersing elements, for pre-crushing and fine crushing. The plug-in connectors facilitate the exchange of the dispersing elements.

T 18 digital ULTRA-TURRAX® (without dispersing element)

Type	Description	Pack (u.)	Art. No.
T 18 digital ULTRA-TURRAX®	Basic device without accessories	1	0223720000

Dispersing elements for T 18 digital ULTRA TURRAX®

Type	Range (ml)	Ø stator (mm)	Ø rotor (mm)	Circumf. speed (m/s)	Max./min. immersion (mm)	Final suspension (µm)	Final emulsion (µm)	Pack (u.)	Art. No.
S 18 N-10 G	1 to 100	10	7,5	9,4	25/70	10 to 50	1 to 10	1	022L004639
S 18 N-19 G	10 to 1500	19	12,7	15,9	35/170	10 to 50	1 to 10	1	022L004640

Plastic dispersing element for T 18 digital ULTRA-TURRAX®. Plastic materials used approved by FDA. Autoclavables. T max:100°C

Type	Range (ml)	Ø stator (mm)	Ø rotor (mm)	Circumf. speed (m/s)	Max./min. immersion (mm)	Pack (u.)	Art. No.
S 18 D-10-G-KS	10 to 100	10	6,75	8,5	15/85	10	0223452400
S 18 D-14-G-KS	10 to 500	14	9,5	12	15/85	10	0223452300

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T 25 digital ULTRA-TURRAX® IKA

High-performance dispersing instrument for volumes from 1 to 2000 ml (H₂O) with digital speed display. It offers a wide speed range from 500 to 25000 min⁻¹ that enables users to work at high circumferential speeds even with small rotor Ø. A broad choice of dispersing elements adds versatility. Applications ranges from homogenising waste water samples, use in laboratory reactors, dispersión tasks under vacuum / pressure and sample preparation in medical diagnostics.

- Digital speed display.
- Electronic speed control.
- Electronic overload protection.
- St. steel dispersing elements can be cleaned quickly and easily.
- Plastic disposable dispersing elements are available in 2 sizes.
- Error Art. No. display.
- Quiet operation.

Motor rating input / output: 800 / 500 W
 Min. / max. volume (H₂O): 100 to 2000 ml
 Max. viscosity: 5000 mPas
 Speed range: 500 to 25000 min⁻¹
 Speed display: LED
 Noise without element: 73 dB (A)
 Dimensions (W x H x D): 100 x 275 x 68mm
 Weight: 2.5 kg
 Protection class acc. to DIN EN 60529: IP 20
 Mains supply: 220 to 240 V, 50 / 60 Hz

The variety of media to be processed also requires a variety of rotor-stator configurations and seals. In many cases it is necessary to use subsequently two dispersing elements, for pre-crushing and fine crushing. The plug-in connectors facilitate the exchange of the dispersing elements.

T 25 digital ULTRA-TURRAX® (without dispersing element)

Type	Description	Pack (u.)	Art. No.
T 25 digital ULTRA-TURRAX®	Basic device without accessories	1	0223725000

Dispersing elements for T 25 digital ULTRA-TURRAX®



Type	Range (ml)	Ø stator (mm)	Ø rotor (mm)	Circumf. speed (m/s)	Max./min. immersion (mm)	Final suspension (µm)	Final emulsion (µm)	Pack (u.)	Art. No.
S 25 N-8G	1 to 50	8	6,1	7,7	27/85	10 to 50	1 to 10	1	0221024200
S 25 N-10G	1 to 100	10	7,5	9,4	22/85	10 to 50	1 to 10	1	0220594000
S 25 N-18G	10 to 1500	18	12,7	15,9	40/165	10 to 50	1 to 10	1	0220593400
S 25 N-25G	50 to 2000	25	17	21,4	40/165	15 to 50	1 to 10	1	0221713300
S 25 N-25F	100 to 2000	25	18	22,6	40/165	5 to 25	1 to 5	1	0221713800
S 25 NK-19G	25 to 1500	19	12,7	15,9	40/165	10 to 50	1 to 10	1	0222494700
S 25 KV-18G	10 to 1500	18	12,7	15,9	40/225	10 to 50	1 to 10	1	0222348000
S 25 KV-25G	50 to 2000	25	17	21,4	40/225	15 to 50	1 to 10	1	0222466900

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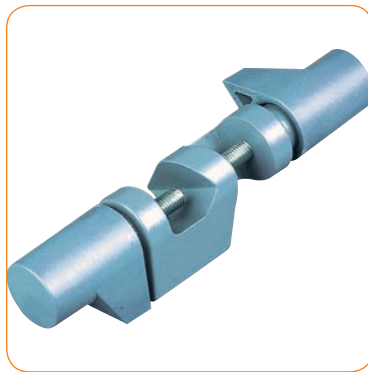
For further information, please contact scharlab@scharlab.com

Plastic dispersing element for T 25 digital ULTRA-TURRAX®. Plastic materials used approved by FDA. Autoclavables. T max:100°C



Type	Range (ml)	Ø stator (mm)	Ø rotor (mm)	Circumf. speed (m/s)	Max./min. immersion (mm)	Pack (u.)	Art. No.
S 25 D-10G-KS	10 to 100	10	6,75	8,5	15/85	10	0223452200
S 25 D-14G-KS	10 to 500	14	9,5	12	15/85	10	0223452100

Accessories for T 18 / T 25 digital ULTRA-TURRAX® IKA



Description	Pack (u.)	Art. No.
R 1825 Plate stand, height 560mm	1	0223160000
R 1826 Plate stand, height 800mm	1	0223160100
R 1827 Plate stand, height 1000mm	1	0223160200
R182 Clamp, from 6 to 16mm	1	0222657700
RH 3 Strap clamp	1	0223008600

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ExtraBond® QuEChERS

Extraction and dispersive kits according to the European (EN 15662) and American (AOAC 2007.01) methods, as well as Scharlau's variant of the European method, EN-A



Scharlau
The wise choice





ULTRA-TURRAX® Tube Drive IKA

Unique and universal dispersing system with hermetically sealable disposable sample tubes. Protection and security for: Infectious sample materials, toxic substances, high-odor substances. The sample containers (tubes) are easily attached to the drive unit. Desired speed and duration are set, then the test is started. An acoustic signal indicates completion of experiment. The tests are any time reproducible and there is no cross-contamination between the samples.

- New: Gamma-sterilized tubes
- New: Tubes with pierceable membrane covers
- New: Tubes with 2 - 15 ml and 15 - 50 ml
- Disperse, stir, homogenize and grind using a single drive unit
- No possibility of cross-contamination
- Hermetically sealable disposable sample tubes
- High level of user safety
- Suitable for individual use and use in series
- Anti-locking function
- Increases safety due to low voltage (24 V)
- Chemical-resistant plastic
- Simple and safe disposal
- Worldwide service guaranteed by IKA
- Patented
- Power supply: 100-240 V

The UTDD Workstation includes, besides the unit: 2xST-20, 2xDT-20, 2xBMT-20 G/S, a removal hook for the removal of the rotor-stator unit.

- UTDD control: USB, collecting tray for protection against leaking liquids, LED display, programmable sample conditions. Workstation UTDD includes besides the unit: 2xST-20, 2xDT-20, 2xBMT-20 G/S, removal hook for removal the rotor-stator unit
- ST: tube with stirring device suitable for, mixing, stirring, extractions, preparation of soil sample
- DT: tube with rotor-stator element suitable for, dispersion, homogenisation, suspensions, pharmacokinetics, metabolism studies, diagnosis
- BMT G/S: tube for grinding with glass balls (G) or with stainless steel balls (S) suitable for dry milling of dry and brittle samples (e. g. kaolin, gypsum, coloured pigments, tablets), cell maceration, processing of materials mixed with fluids
- M: tube with pierceable membrane suitable for addition of fluid during the mixing, dispersion and grinding process, sampling during the mixing, dispersion and grinding process
- gamma: γ -sterilized tube suitable for grinding, mixing or dispersion under sterile conditions, germfree storage of samples (tissue, blood, etc.)

Type	Description	Volume (ml)	Pack (u.)	Art. No.
ULTRA-TURRAX® tube drive	Workstation	-	1	0223645000
UTDD control ULTRA-TURRAX® tube drive control	Workstation	-	1	0224135300
ULTRA-TURRAX® tube drive	Drive	-	1	0223646000
ULTRA-TURRAX® ST-20	Tube with stirring device	20	25	0223703000
ULTRA-TURRAX® BMT-20 G	Tube for grinding with glass balls	20	25	0223703300
ULTRA-TURRAX® BMT-20 S	Tube for grinding with stainless steel balls	20	25	0223703200
ULTRA-TURRAX® ST-20-M-gamma	Tube with stirring device, sterilized-gamma	20	20	0223700500
ULTRA-TURRAX® DT-20-M-gamma	Tube with rotor-stator, sterilized-gamma	20	20	0223700600
ULTRA-TURRAX® DT-20 S-M-gamma	Tube for grinding with stainless steel balls, sterilized-gamma	20	20	0223700700
ULTRA-TURRAX® ST-50	Tube with stirring device	50	10	0223699500
ULTRA-TURRAX® DT-50	Tube with rotor-stator element	50	10	0223699600
ULTRA-TURRAX® BMT-50-G	Tube for grinding with glass balls	50	10	0223699800
ULTRA-TURRAX® BMT-50-S	Tube for grinding with stainless steel balls	50	10	0223699700
ULTRA-TURRAX® ST-50-M-gamma	Tube with stirring device, sterilized-gamma	50	10	0223701500
ULTRA-TURRAX® DT-50-M-gamma	Tube with rotor-stator, sterilized-gamma	50	10	0223701600
ULTRA-TURRAX® BMT-50-S-M-gamma	Tube for grinding with stainless steel balls, sterilized-gamma	50	10	0223701700

For further information, please contact scharlab@scharlab.com

ELECTROCHEMICAL METERS

- pH indicator papers, *page 892*
- pH meters, conductivity, dissolved oxygen and other parameters, *page 893*

ELECTROCHEMICAL METERS: pH indicator papers



pH indicator paper on a roll SCHARLAU

The pH indicator paper is an easy and quick method for measuring pH values of a solution. The pH is determined by a single colour change which can be matched with the colour scale at intervals of 1 pH.

pH indicator paper

Description	Pack (u.)	Art. No.
pH indicator paper 1-14. Rolls of 5mx7mm	1 roll	TP0114000R
pH indicator paper 1-11. Rolls of 5mx7mm	1 roll	TP0111000R



pH indicator strips SCHARLAU

Anti-drip strips produce an extremely clear colour change that is durable and readable until the strips dry out.

Description	Pack (u.)	Art. No.
pH indicator strips 0-14. Readable at intervals of 1 pH. 100 strips per pack.	1	TP0014000S
pH indicator strips 4-10. Readable at intervals of 0,5 pH. 100 strips per pack.	1	TP0410000S
pH indicator strips 7-14. Readable at intervals of 0,5 pH. 100 strips per pack.	1	TP7514000S
pH indicator strips 0-6. Readable at intervals of 0,5 pH. 100 strips per pack.	1	TP0006000S
pH indicator strips 2-9. Readable at intervals of 0,5 pH. 100 strips per pack.	1	TP0209000S

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Monobuf®

The Scharlau ready to use standard buffer solution packaged in single doses



Scharlau
The wise choice

ELECTROCHEMICAL METERS: pH meters, conductivity, dissolved oxygen and other parameters
Multi-parameter meters
LOVIBOND

The SensoDirect is a portable meter for the measurement of pH value, dissolved oxygen, conductivity, TDS and temperature. Complete with probes and carrying case.



SensoDirect 150

Description	Pack (u.)	Art. No.
Meter of pH, conductivity, DO, TDS and temperature	1	644-724200

Portable pH meters and multimeters
CRISON

For field work, convenient and robust. See the range of sensors.

Gamma 25


2550T



2551T



2554T

Model	Version	Temperature sensor	Other benefits	Pack (u.)	Art. No.
2550T	With accessories, briefcase and pH electrode	Yes	No	1	058-02550T
2551T	With accessories, briefcase and difficult samples electrode	Yes	No	1	058-02551T
2554TC	With accessories, briefcase and penetration probe	Yes	No	1	058-02554T
Multi MM 5045	With accessories, briefcase and multisensor electrode	Yes	Redox	1	058-0M5045
Multi MM 40 +	With accessories, briefcase and multisensor electrode	Yes	Redox and conductivity	1	058-004003

For further information, please contact scharlab@scharlab.com

Benchtop pH meters

CRISON

Basic 20 pH meter

- Measurement for stability or continuous.
- pH calibration with 1, 2 or 3 buffers selectable.
- Calibration in mV with redox standard.
- Programmable calibration between 0 hours and 7 days.
- Automatic notification of recalibration.
- pH range: -2 ... 16
- Temperature range: -20 ... 150°C
- Resolution: 0.01 pH; 0.1°C
- Backlit liquid crystal display
- Dimensions 325 x 155 x 98mm.
- Weight 800 g.
- Power supply: 220 V.



Model	Version	Temperature sensor	Pack (u.)	Art. No.
2000	With magnetic stirrer, sensor support, buffers pH 4, pH 7, pH 9 and KCl, without electrode	Yes	1	058-002000
2012T	With magnetic stirrer, sensor support, buffers pH 4, pH 7, pH 9 and KCl, 5012T electrode with glass body	Yes	1	058-02012T

GLP 21 pH meter

Measurement for stability or continuous.

- Provides various calibration modes with 3 buffer groups recognition, a specific pH or user buffers.
- Calibration in mV
- pH range: -2 ... 16
- Temperature range: -20 ... 150°C
- Data Logger for storing the last 400 measurements, calibration data and history of the electrode.
- Connects to a PC, printer, external PC keyboard or barcode reader.
- Selectable resolution from 0.1, 0.01 and 0.001 pH.
- Backlit liquid crystal display
- Dimensions 350 x 200 x 110mm.
- Weight 1100 g.
- Power supply: 220 V.



Model	Version	Temperature sensor	Pack (u.)	Art. No.
2100	With magnetic stirrer, sensor support, buffers pH 4, pH 7, pH 9 and KCl, without electrode.	Yes	1	058-002100
2111T	With magnetic stirrer, sensor support, buffers pH 4, pH 7, pH 9 and KCl, with electrode 5011T for harsh media	Yes	1	058-02111T

→ Continued on the next page

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GLP 22 pH & ion meter

- Double instrument, with 2 channels to measure pH, redox or ISE
- Up to 4 calibration curves with 2-5 standards per channel, as ion meter. Selectable units: mol/l, g/l, mmol/l or mg/l.
- Measurement for stability or continuous.
- Provides various calibration modes with 3 buffer groups recognition, a specific pH or user buffers.
- Calibration in mV
- pH range: -2 ... 16
- Temperature range: -20 ... 150°C
- Data Logger for storing the last 400 measurements, calibration data and history of the electrode.
- Connects to a PC, printer, external PC keyboard or barcode reader.
- Selectable resolution from 0.1, 0.01 and 0.001 pH.
- Backlit liquid crystal display
- Dimensions 350 x 200 x 110mm.
- Weight 1100 g.
- Power supply: 220 V.



Model	Version	Temperature sensor	Pack (u.)	Art. No.
2200	With magnetic stirrer, sensor support, buffers pH 4, pH 7, pH 9 and KCl, without electrode	Yes	1	058-002200
2211T	With magnetic stirrer, sensor support, buffers pH 4, pH 7, pH 9 and KCl, with electrode 5011T for harsh media	Yes	1	058-02211T

Burette 24

Model	Version	Temperature sensor	Other benefits	Pack (u.)	Art. No.
2400 B	pH and 10 ml burette: two in one. Completed with acidity kit or Kit S02	ND	Acidity or sulfurous	1	058-002400

Multimeter 41. Instrument with 2 channels, up to 4 simultaneous measurements and magnetic stirring.



Model	Temperature sensor	Parameters	Pack (u.)	Art. No.
MM41	Yes	pH, conductivity and ISE	1	058-004140

For further information, please contact scharlab@scharlab.com



Threaded probe

Probes and pH electrodes

CRISON

Model	Version	Temperature sensor	Other benefits	Pack (u.)	Art. No.
5014	Basic pH electrode for aqueous solutions	No	Encapsulate, 2 ceramic diaphragms	1	058-005014
5015	5015 pH electrode	No	Encapsulate, 3 ceramic diaphragms	1	058-005015
5026	5026 pH electrode, presence of HF	No	Encapsulate, 1 ceramic diaphragms	1	058-005026
5029	pH electrode for microsamples	No	Encapsulate, 1 ceramic diaphragms	1	058-005029
5044	Reference electrode 5044	No	For ISE, 0.1 M	1	058-005044
5050	pH electrode 5050, MP-5	No	Universal, plastic body	1	058-005050
5053	pH puncture electrode 5053 (steel)	No	Measures even inverted	1	058-005053
5055	Redox electrode 5055, MP-5	No	For ORP	1	058-005055
5120	Celiox D.O. Electrode (polarographic)	No	3 m of cable	1	058-005120
5200	pH electrode 5200	No	Universal, plastic body	1	058-005200
5201	pH electrode 5201	No	Universal, fix cable	1	058-005201
5202	pH electrode 5202	No	Universal, large membrane	1	058-005202
5203	pH electrode 5203	No	Universal, 2 diaphragms	1	058-005203
5207	pH electrode 5207. Without cable	No	For surfaces	1	058-005207
5221	pH electrode 5221	No	Difficult samples	1	058-005221
5240	Reference electrode 5240, diaph. ceramic	No	Silver chloride, up to 80°C	1	058-005240
5241	Reference electrode 5241, diaph. ground glass	No	Silver chloride, up to 80°C	1	058-005241
9655	F- ion selective electrode	No	BNC Cable 1 m	1	058-009655
9661	K+ ion selective electrode	No	BNC Cable 1 m	1	058-009661
5010T	pH + temperature electrode, low cost	Yes	Universal, plastic body	1	058-05010T
5011T	pH electrode (low maintenance)	Yes	For food	1	058-05011T
5014T	pH electrode 5014, pH 0-14	Yes	Universal, glass body	1	058-05014T
5021T	pH electrode 5021T, pH 0-14 of 0-60°C	Yes	Difficult samples	1	058-05021T
5033BNC	Penetration electrode BNC connector	-	Puncture electrodes, POM	1	0585033BNC
5050T	pH electrode + T ^a probe for phmeter PH25	-	Universal, plastic body	1	058-05050T
5051T	pH electrode + temperature sensor 5051	-	For juices, milk ...	1	058-05051T
5052T	pH electrode + temperature sensor for PH25	-	PTFE diaphragm for difficult samples	1	058-05052T
5053T	pH electrode 5053T (steel)	-	Measured even reversed	1	058-05053T
5054T	pH electrode + T ^a sensor for PH25	-	Puncture electrodes, steel	1	058-05054T
5059P	Multisensor for MM 40	-	pH, conductivity and T ^a	1	058-05059P

Complete Kits

HANNA INSTRUMENTS

Reagent kit and accessories to perform a complete on the spot diagnostic test/tests.

Olive oil Acidity Kit. For 6 measurements of acidity in olive oil.



6 measurements of acidity in olive oil

Model	Characteristics	Range	Pack (u.)	Art. No.
HI3897	Certified valuation method, with NaOH	0,00 to 1,00% acidity	1	034-HI3897

→ Continued on the next page

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Legionella briefcase Kit



Legionella briefcase

Model	Characteristics	Range	Pack (u.)	Art. No.
HI9811-5N and HI93102	Control of the main parameters in the prevention of Legionella	Consult data sheet	1	034-HIKISA

Portable meters for one parameter
HANNA INSTRUMENTS

Conductivity



Portable CE meter



Pocket-size CE meter

Model	Characteristics	Range	Pack (u.)	Art. No.
HI9033	Wide range	0,0 μ S/cm to 199,9 mS/cm	1	034-HI9033
Conductivity Meter HI98304, pocket-sized	pocket-sized, 95g	Up to 19,99 ms/cm	1	034HI98304

Dissolved oxygen DO



Portable Dissolved Oxygen Meter

Model	Characteristics	Range	Pack (u.)	Art. No.
HI 9146 and 4 m cable	Polarographic probe of OD, ATC, salinity and height	0,00 to 45,00mg/l	1	034-HI9146

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Portable pHmeter



Portable pHmeter



Pocket-size pH meter

Model	Characteristics	Range	Pack (u.)	Art. No.
HI9125 Portable pHmetre	pH, ORP and T ^a . ATC	Multirrange	1	034-HI9125
HI 98106	Pocket-size: 78g	0,0 to 14,0	1	034HI98106

Multi-Parameter Portable Meters
HANNA INSTRUMENTS

Multi-Parameter GPS



Portable multi-parameter meter

Model	Characteristics	Parameters	Pack (u.)	Art. No.
HI9828 GPS, with barometer and briefcase	4m Cable, probe with 5 parameters, GPS to identify position and readings. Connectable to a PC.	ISE Ion, Nitrate, Ammonium, as probes. pH, DO, EC, T ^a .	1	034GPSMULT

Portable Multi-Parameter



Portable Multi-Parameter

Model	Characteristics	Parameters	Pack (u.)	Art. No.
HI9811-5 with measurement of 5 parameters using a probe	Automatic Temp Compensation, Water Resistant, tutorial messages on screen, simple calibration	pH, EC, TDS, °T	1	034HI98115

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Laboratory bench meters

HANNA INSTRUMENTS

Multi-parameter precision bench top instrument with GLP, data logging.

Multi-parameter



Bench top multi-parameter meter

Model	Characteristics	Range	Pack (u.)	Art. No.
Multi-parameter meter HI2550	Measure pH, ORP, ISE, resistivity, TDS, Temp. With data logging and LPG.	Multi range	1	034-HI2550

Dissolved oxygen



Bench top oximeter

Model	Characteristics	Range	Pack (u.)	Art. No.
Bench top oximeter with registration	Auto altitude, salinity and temperature compensation	0,0 to 45,00 mg/l	1	034-HI2400

pH Bench top instrument



Bench top pHmeter

Model	Characteristics	Range	Pack (u.)	Art. No.
HI2221 bench top pHmeter	pH, ORP and Temp. Cal - check, automatic temperature compensation, data logging, GLP, electrode status display	Multi range	1	034-HI2221

For further information, please contact scharlab@scharlab.com

Accessories

HANNA INSTRUMENTS

pH electrode with BNC connector for general use.

pH Electrode



pH 1131 electrode



pH 1230 electrode



pH 1332 electrode



pH 430 electrode



pH 200 electrode

Model	Characteristics	Range	Pack (u.)	Art. No.
PH electrode for general use with BNC connector	1m Cable; glass probe, BNC	0 to 13	1	034-HI1131
HI1230 B	PEI Probe, 1m cable, BNC	0,0 to 13	1	034-HI1230
HI1332 B	PEI Probe, 1m cable, BNC	0,0 to 13	1	034-HI1332
FC430B, electrode for semi frozen and meat products	PVDF Probe, 1m cable, BNC	0,0 to 12	1	034-FC430B
Kynar pH electrode probe for cheese, dairy, meat and fresh produce	1m Cable; PVDF, BNC probe	0,0 to 12,0	1	034-FC200B

Benchtop pH meters

WTW

Precision laboratory instruments.

Inolab Series

Model	Pack (u.)	Art. No.
Inolab 7310 pH meter with Sentix 4 probe	1	00001AA312

pH electrodes

WTW



SenTix 41-3



SenTix 61

Model	Version	Other benefits	Pack (u.)	Art. No.
Combination pH electrode SenTix 41-3	With temperature	DIN 3m Cable	1	1171040877
pH electrodo SenTix 81	With temperature	DIN 1m Cable	1	0000103642
Electrode gel Sentix 41	With temperature	DIN 1m Cable	1	0005040876

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EXTRACTORS



Solvent extractors SER148/3 and SER148/6 VELP

The solvent extractor SER 148 can be used to separate a substance or a group of elements (e.g. fat extraction) from solid and semi-solid samples according to the Randall technique (consisting of immersion, washing and solvent recovery), the evolution of the traditional Soxhlet extractor, by using solvents.

This technique offers three great benefits over the Soxhlet technique:

- up to 5 times faster than Soxhlet (hot solvent vs. cold solvent)
- low solvent consumption (high solvent recovery)
- limited cost per analysis

In addition, the SER 148 offers full operator safety in compliance with IP55. The main field of application is the determination of the content of soluble products such as fats, detergents, plasticizers and pesticides in food, animal feeds, detergents, rubber and plastic formulas, pharmaceutical products, soil, etc.

SER 148 is available in the following configurations:

SER 148/3, a 3-position solvent extraction system

SER 148/6, a 6-position solvent extraction system

The Hydrolysis Unit HU 6 is now available for performing acid and basic hydrolysis of food and feed samples before the extraction.

Power supply: 230 V.

Extractors

Model	Number of samples	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
SER148/3	3	500	30	480x620x390	1	043-100240
SER148/6	6	950	40	700x620x390	1	043-100242

Accessories included with extractors

Description	Pack (u.)	Art. No.
Extractions cups for SER 148/3	3	0A00001141
Extractions cups for SER 148/6	6	0A00001142
Extraction thimbles 33x80mm	25	0CM0111148
Extraction thimbles holders	3	0A00001142
Inlet tube	1	0010000280
Heat shield for SER 148/3	1	0040000210
Heat shield for SER 148/6	1	0040000220
Butyl seals	3	0010000009
Vitón® seals	3	0010000008

For further information, please contact scharlab@scharlab.com



Solvent recovery extractor for fats and oils Det-gras N
J.P. SELECTA

Equipment for the extraction of fats and soluble substances that will dissolve in solvents.

Based on the Soxhlet methods by Randall, the DETGRAS-N extracts fats (and or other substances) from the sample by dissolving them in a solvent. If compared to the classic standard soxhlet method, a time saving of between 30-70% can be obtained due to a two stage extraction process and high speed in obtaining high temperatures.

Applications: Practically all methods of classic soxhlet extraction can be substituted by the DET-GRAS N.

Typical fat determinations are: in meat products, animal fodder, pre-prepared foods, fish etc. Also suitable for the extraction of soluble components in paper paste, textile fibres etc.

Features:

- Heating by protected electric heater, distributed throughout the radiator

surface that provides homogeneous heating throughout the samples.

- Electrical safety according to IP65.
- Robust temperature control by a durable thermocouple.
- Safety over temperature device.
- Outer case made of solvents resistant epoxy coated steel.
- Extractions can be completed using glass or cellulose thimbles.
- Compatible with most common solvents: Petroleum ether. Diethyl ether, hexane, acetone acetonitrile etc.
- Supplied complete with 2 sets of seals, adapters for different solvent types.
- Typical extraction time (food fats) 50 minutes.

Specifications:

- Cellulose extraction thimbles Øext 26 x 60mm.
- Reusable glass thimbles Øext 34 x 80mm. Working temperature of 90 to 240 oC.
- Solvent recovery 60 to 80%.
- Solvent volume (by sample): up to 50 ml.
- Program memories: 16.
- Extraction time <<boiling>>: from 0 to 99 minutes.
- Extraction time <<rinsing>>: from 0 to 99 minutes.
- Time to recuperate solvents: from 0 to 99 minutes.
- Power supply: 230 V.

Number of places	Ext. dim. WxHxD (cm)	Water consumption (l/min)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
2	45x70x40	1	19	200	1	0194002841
6	75x70x40	2	25	600	1	0194002842



Extractor for the determination of cellulose and fibre Dosi-fiber
J.P. SELECTA

Applications:

- Total Fibre (WEENDE,VAN SOEST or similar).Dietary fibre. Neutral detergent fibre.
- Acid detergent fibre. Other extraction processes which do not use acetic acid, acetic trichloric acid or nitric acid. Textile fibre. Wood and paper fibre.

Equipment description:

- Integral extraction and filtration.
- No sample transfer reduces the risk of sample loss, since the tubes,crucibles and filtre are transferred with the samples in place.
- Excellent results due to reproducible operating conditions.
- Easy sample handling due to the special crucible support stand.
- Versatile and precise test procedure that allows the samples to be weighed at various stages in the extraction process.

Features:

Rugged external case with a "Rilsan" protective coating. All equipment components; condenser, valves, heater, compressed air valves and controls are all protected within the main case. Infrared heating elements.

Comes complete with: crucible with a porosity P-2, Crucible support rack, heater lid and holder manipulator. Without double hotplate for reagents neither beaker, which are supplied as accessories

Technical data:

- Sample size: 0,5 to 3 g (Normally 1 g).
- Reproducibility: approximately±1% for fibre level between 5-30%.
- Cooling water consumption: 1 litre/minute.
- Measuring range: 0,1 to 100%.
- Power supply: 230 V.

Number of places	Ext. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
4	43x56x32	19	1000	1	0194000599
6	57x56x32	25	1500	1	0194000623

Accessories

Description	Pack (u.)	Art. No.
Double hotplate for reagents	1	0194000634
Beaker for reagents	1	0191000635

Spares

Description	Pack (u.)	Art. No.
Support rack for 4 crucibles	1	0194000600
Support rack for 6 crucibles	1	0194000624
Crucibles with a P-2 porosity	1	0194000601



Oenological Distillation unit DE-1626 J.P. SELECTA

Equipment to obtain the distillation of alcohol from alcoholic beverages in accordance with CEE No. 2676/90 (Wine analysis) and CEE No. 2870/2000 (Analysis of spitis).

- Vapour distillation.
- Designed especially to obtain the distillation of wines and spirits to determine the alcohol grade by volume, volatile acid, ascorbic acid and other components.
- Distillation volume up to 400 ml.
- Auto stop at the end of the distillation.
- Simple operation with minimum service.
- Vapour generator protection system.

Includes:

- Tube Ø 42mm for volatile acid samples.
- Tube Ø 52mm for volatile acid samples and 100 ml proof alcohol.
- Tube Ø 80mm for samples of 200 ml for proof alcohol.
- 200 ml Matrix flask to collect distillate.

Technical specifications:

- Validated to the criteria of CEE No. 2676/90 and CEE No. 2870/2000
- Distillation speed: 30-40 ml/min (Recover of 200 ml of distillate in 5/6 minutes).
- Condenser coolant water rate: 80-100 l/hr.
- Generator water consumption: 1 and 1.25 ml for each ml of distillate.
- Vapour generator power: 2400 W.
- Power supply: 230 V.

As complementary devices for this distiller, we offer the oenological analyzer photometer "M-3000", microcentrifuge "Cencom-1", and thermostat incubator "Enobloc". Do not hesitate in making your inquiry.

Distillation unit

Ext. dim. WxHxD(cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
30x90x30	20	2400	1	0194001626

Accessories



Glass tube

Description	Pack (u.)	Art. No.
Glass tube Ø 42 x 300mm	1	0194042300
Glass tube Ø 52 x 300mm	1	0191001422
Glass tube Ø 80 x 300mm	1	0191000646
Rack for Ø 42mm tubes	1	0194000648
Rack for Ø 52mm tubes	1	0194001473
Rack for Ø 80mm tubes	1	0194001613

For further information, please contact scharlab@scharlab.com

GRAVIMETRIC DILUTORS

**DiluFlow®
INTERSCIENCE**


- Ultra low profile: Only 30 cm! Perfect for a laminar flow.
- GeckoGrip System (Patented): holds the bag in all conditions.
- Light Code: intuitive indicator of the status
- Removable DripTray (Patented)
- World's fastest: only 9 s to dispense 225ml (Dilution time for a 25 g sample diluted at 1/10 with booster kit.)
- Distribution and weighing functions in 1
- Superior quality Watson Marlow® pumps
- Removable DripTray (Patented)
- Magnetic BagOpen® (Patented shape)
- Traceability (printer, Excel™...)
- Resolution up to 200 g: 0,01g
- Weighing range: 3000g
- Weighing accuracy: 0 g to 100 g: ±0.05 g / 100 g to 3000 g: ±0.1%
- Dilution factor: 1/2 to 1/99
- Dilution accuracy: >98%
- Power supply: 100-240 V.

In compliance with ISO 7218, ISO 6887-1 and BAM standards.
Made in France: ISO 9001 2008 standards.

DiluFlow® is delivered with 1 dispensing arm, 1 DripTray 400, 1 or 2 pumps, 1 dispensing assembly (GL45 - Ø 6,4 mm) per pump, USB cable, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.

Model	Dim. WxDxH (cm)	Weight (Kg)	Pack (u.)	Art. No.
DiluFlow® single pump	31 x 41.5 x 40	10.5	1	603-501103
DiluFlow® double pump	37 x 41.5 x 40	13	1	603-501203


**DiluFlow® Pro
INTERSCIENCE**


- Ultra low profile: Only 30 cm! Perfect for a laminar flow.
- GeckoGrip System (Patented): holds the bag in all conditions
- Light Code: intuitive indicator of the status
- Removable DripTray (Patented)
- World's fastest: only 9 s to dispense 225ml (Dilution time for a 25 g sample diluted at 1/10 with booster kit.)
- Distribution and weighing functions in 1
- Superior quality Watson Marlow® pumps
- Removable DripTray (Patented)
- Magnetic BagOpen® (Patented shape)
- Traceability (printer, Excel™...)
- Robotic arm: drop the sample safely and easily
- Compatible with Jumbo kit
- Protection for tubing nozzle
- Resolution up to 200 g: 0.01 g
- Weighing range: 5000 g
- Weighing accuracy: 0 g to 100 g: ±0.05 g / 100 g to 5000 g: ±0.1%
- Dilution factor: 1/2 to 1/99
- Dilution accuracy: >98%
- Power supply: 100-240 V.

In compliance with ISO 7218, ISO 6887-1 and BAM standards.

Made in France: ISO 9001 2008 standards.

DiluFlow® Pro is delivered with 1 or 2 pumps, 1 DripTray 400, 1 protecting cap for nozzles, 1 dispensing assembly (GL45 - Ø 6,4 mm) per pump, USB cable, software CD-ROM, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.

Model	Dim. WxDxH (cm)	Weight (Kg)	Pack (u.)	Art. No.
DiluFlow® Pro single pump	31 x 41.5 x 37.5	12.5	1	603-502105
DiluFlow® Pro double pump	7 x 41.5 x 37.5	15	1	603-502205

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DiluFlow® Elite INTERSCIENCE



- Ultra low profile: Only 30 cm! Perfect for a laminar flow.
- GeckoGrip System (Patented): holds the bag in all conditions
- Up to 6 pumps with 4 connectable pumps
- Light Code: intuitive indicator of the status
- Multi-dispensing mode (Patented) with handy gun
- World's fastest: only 8 s to dispense 225ml (Dilution time for a 25 g sample diluted at 1/10 with booster kit.)
- Distribution and weighing functions in 1
- Superior quality Watson Marlow™ pumps
- Robotic arm: drop the sample safely and easily
- Removable DripTray (Patented)
- Magnetic BagOpen® (Patented shape)
- 32 editable programs
- Bidirectionnal connectivity
- Full traceability: printer, Excel™, CSV and LIMS
- Resolution up to 200 g: 0.01 g
- Weighing range: 5000 g DiluFlow Elite 5Kg/ 1000 g DiluFlow Elite 1Kg
- Weighing accuracy: 0 g to 100 g: ±0.05 g / 100 g to 5000 g: ±0.1% DiluFlow Elite 5Kg/ 0 g to 20 g: ±0.01 g / 20 g to 1000 g: ±0.1% DiluFlow Elite 1Kg
- Dilution factor: 2 to 1000, editable fractions
- Dilution accuracy: >99% in standard & accurate mode
- Power supply: 100-240 V.

In compliance with ISO 7218, ISO 6887-1 and BAM standards.
 Made in France: ISO 9001 2008 standards.

DiluFlow® Elite is delivered with 1 or 2 pumps, 1 DripTray 400, 1 protecting cap for nozzles, 1 dispensing assembly (GL45 - Ø 6,4 mm (Elite 1 kg: Ø 3,2 mm)) per pump, USB key, power cord, 1 BagOpen® 400 for dilutors, user's manual, quick user guide, 10 GeckoGrip, free sample bags.

Model	Dim. WxDxH (cm)	Weight (Kg)	Pack (u.)	Art. No.
DiluFlow® Elite single pump, 1 kg	31 x 41.5 x 37.5	13	1	603-503101
DiluFlow® Elite double pump, 1 kg	37 x 41.5 x 37.5	15.5	1	603-503201
DiluFlow® Elite single pump, 5 kg	37 x 41.5 x 37.5	13	1	603-503105
DiluFlow® Elite double pump, 5 kg	37 x 41.5 x 37.5	15.5	1	603-503205

Accessories for DiluFlow® models

Description	Pack (u.)	Art. No.
Printer (for all models)	1	603-521000
Foot pedal (for all models)	1	603-507008
Booster kit (for all models)	1	603-511000
Independent stand for broth bags (for all models)	1	603-513015
Integrable stand for broth bags (for all models)	1	603-505010
Adjustable distribution system for DiluFlow®	1	603-505004
Adjustable distribution system for DiluFlow® Pro and DiluFlow® Elite	1	603-505005
JumboKit for DiluFlow® Pro and DiluFlow® Elite	1	603-505006
Bar-code reader for DiluFlow® Elite	1	603-522000
Handy gun DiluFlow® Elite	1	603-561001

For further information, please contact scharlab@scharlab.com



Gravimetric dilutors Smart Dilutor W IUL

All the parts of the liquid circuit are autoclavable. The instrument can control up to 6 pumps and link two of them at the same time to reduce operation time.

Specifications:

- Delivery speed: 950ml/min (tube diameter: 5mm)
- Displayed weight resolution: 0,1g
- Weight inaccuracy: <1%
- Weight resolution sample: 0,01g
- Weight resolution dilution: 0,1g
- Working temperature: +5°C to +40°C
- Dilution factor: from 1 to 999. Dilution inaccuracy: <0,3g
- Dispensing weight range: 1g up to maximum
- Data input/output: RS232 and Ethernet
- Power supply: 264 V

Model	Dim. WxDxH (cm)	Weight (Kg)	Pack (u.)	Art. No.
Smart Dilutor with 1 pump	30x32,5x36,5cm	6,5	1	107-007900
Smart Dilutor with 2 pump	30x32,5x36,5cm	6,5	1	107-007901

Accessories

Description	Pack (u.)	Art. No.
Holder for media bags	1	107-002738
Two pumps device (no bottles)	1	107-002799
Four pumps device (no bottles)	1	107-002798
Multilevel dilution arm	1	107-002806
Six tubes arm (necessary for cat.no. 107-002798)	1	107-002823
Support Barcode reader	1	107-002836
Weighing platform for beakers/flasks	1	107-002838
Cable for PC/Printer communication	1	107-005510
Barcode reader	1	107-005701

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HEATING MANTLES, HOTPLATES AND BLOCKS

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HEATING MANTLES, HOTPLATES AND BLOCKS: Dry block heaters

IKA dry block heaters

IKA

Digital block heaters for 1, 2, 3 or 4 aluminium blocks provide precise temperature control in small vessels. Incl. PT1000 temperature sensor, allow temperature control directly in the sample vessel. It is used with PCR tubes, PCR strips, Greiner tubes, microplates and cuvettes. The block heater is ideal for melting and boiling point determination, enzyme reactions, incubation and activation of cultures, immunoassays, DNA denaturation, culture media tests, coagulation tests, blood-urea-nitrogen determinations and in situ hybridisations.

- Stepless adjustable temperature up to 120°C.
- Timer: countdown, adjustable from 1 s to 99 h 59 min.
- Counter: display of heating time.
- Highly versatile with a large number of blocks.
- Error Art. No. display.
- Fixed safety circuit.
- Acoustic signal at end of test.
- Heating temperature range: ambient to 120°C
- Heat control: LED
- Connection for external temperature sensor: DIN 12 878
- Control accuracy with sensor: ±1K
- Temperature constancy in medium: ±1K
- Protection class acc. to DIN EN 60529: IP 21
- Mains supply: 220 to 240 V, 50/60 Hz



0224025100



0224025200



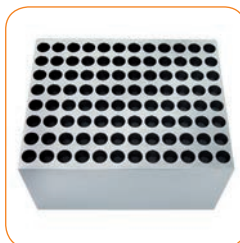
0224025300



0224025400

Type	Number of blocks	Thermal power (W)	Set-up plate dimensions (mm)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Dry block heater 1	1	150	96x75	151x73x228	1	0224025100
Dry block heater 2	2	250	96x152	151x73x304	1	0224025200
Dry block heater 3	3	300	96x227	151x73x380	1	0224025300
Dry block heater 4	4	375	96x304	151x73x465	1	0224025400

Accessories. (Dimensions WxHxD = 95x51x76mm)



0224470600



0224468300



0224469300



0224469900



0224470700

Type	Porus size (mm)	For	Number of holes	Depth (mm)	Pack (u.)	Art. No.
Double block, 1x96 PCR plate wells	6,4	Tubes of 0,2 ml	96	15,5	1	0224470600
Single block, used for test tube combination 6mm, 12/13mm, 25mm	ø 8,3/13,9/26,2	-	6/5/3	48,4/48,4/48,4	1	0224468300
Single block	ø 35	Round bottom tubes (35mm)	4	47,6	1	0224469300
Single block	ø 21,7	Vials 21mm	9	45	1	0224469900
Single block, 2x6 cuvettes (12,5mm)	-	-	-	25,4	1	0224470700

Clinic-Bloc and Bio-Bath metallic thermostat dry blocks

J.P. SELECTA

High precision thermostats with digital temperature calibration.

- Timer from 1 to 999 minutes or continuous operation.
- Over temperature alarm.
- Heating elements distributed evenly across the contact surface.
- Digital electronic control of temperature and time (3 digits).
- PT100 sensor.
- External case made of epoxy covered steel with an AISI 304 stainless steel top.
- Supplied complete with thermometer 0-200°C.
- Fixed temperature of 37°C with check thermometer.
- Power supply: 230 V.



Clinic-Bloc



Clinic-Bloc 1537



Bio-Bath

Model	Capacity	Ext. dim. HxWxD (cm)	Stability (%)	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
Clinic-Bloc	20 tubes (5x4) of 75x13mm	11x18x28	±0,5°C	10	2,4	1	0197001569
Clinic-Bloc 1537	15 cuvettes (5x3) of 10x10mm	11x18x28	±0,5°C	10	2,4	1	0197001570
Bio-Bath	8 tubes (2x4) of 75x13mm	8,8x9,6x7	±0,5°C	8	0,5	1	0197001561



Multiplaces dry block heaters

J.P. SELECTA

High precision thermostats with digital temperature calibration.

- Timer from 1 to 999 minutes or continuous operation.
- Over temperature alarm.
- Heating elements distributed evenly across the contact surface.
- Digital electronic control of temperature and time (3 digits).
- PT100 sensor.
- External case made of epoxy covered steel with an AISI 304 stainless steel top.
- Supplied complete with thermometer 0-200°C.
- 3 block capacity.
- Power supply: 230 V.

Thermostat

Temperature (°C)	Stability (°C)	Homogeneity (%)	Set error (%)	Resolution (°C)	Ext. dim. HxWxD (cm)	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
30-200	±0,75	±1,5	±2	1	11x31x31	700	7,4	1	0197471200

Accessories. Metal blocks of 55x95x75, HxWxD (mm).

Description	Pack (u.)	Art. No.
Block for 30x6mm Ø tubes (total 3 blocks = 90 tubes)	1	0197000306
Block for 20x1,5ml, Eppendorf tubes. (total 3 blocks = 60 tubes)	1	0197000196
Block for 20x12mm Ø tubes (total 3 blocks = 60 tubes)	1	0197031220
Block for 12x16mm Ø tubes (total 3blocks = 36 tubes)	1	0197031612
Block for 8x20mm Ø tubes (total 3blocks = 24 tubes)	1	0197003208
Block for 6x25mm Ø tubes (total 3blocks = 18 tubes)	1	0197001256
Blank block with no holes for customized demand	1	0197000717
Block for 15 cuvettes 10x10 (capacity: 3 blocks)	1	0197001474
Block for 96 well microplates of 1,2ml (capacity: 1 block)	1	0197001475



Tembloc dry block heaters

J.P. SELECTA

High precision thermostats with digital temperature calibration.

- Timer from 1 to 999 minutes or continuous operation.
- Over temperature alarm.
- Heating elements distributed evenly across the contact surface.
- Digital electronic control of temperature and time (3 digits).
- PT100 sensor.
- External case made of epoxy covered steel with an AISI 304 stainless steel top.
- Supplied complete with thermometer 0-200°C.
- 1 block capacity.
- Power supply: 230 V.

Thermostat

Temperature (°C)	Stability (°C)	Homogeneity (%)	Set error (%)	Resolution (°C)	Ext. dim. HxWxD (cm)	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
30-200	±0,75	±1,5	±2	1	11x19x29	350	3,7	1	0197462200

Accessories. Circular metal blocks, 1050x55mm high.

Description	Pack (u.)	Art. No.
For 34x6mm Ø tubes	1	0197000346
For 18x1,5ml. Eppendorf tubes	1	0197000714
For 24x12mm Ø tubes	1	0197001224
For 18x16mm Ø tubes	1	0197001618
For 8x20mm Ø tubes	1	0197000208
For 6x25mm Ø tubes	1	0197000256
Blank block with no holes for customized demand	1	0197000715



TR100-G thermo shaker

J.P. SELECTA

With electronic control and digital display of temperature, shaking speed and time.

- With multiadapter device for different blocks depending on the analysis to be made.
- Digital display of current parameters.
- Acoustic and luminous notification at the end of the cycle and due to malfunction in temperature or time programmed.
- Protection device for over temperature.
- Protection with auto switch off and switch on activation.
- Approximate heating time: 23 min. (at 100°C).
- Shaking range: 200-1500rpm, 2mm orbital rotation.
- Timer from 1 min. to 99h 59min.
- Power supply: 230 V.

Temperature (°C)	Stability (°C)	Homogeneity (°C)	Ext. dim. HxWxD (cm)	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
Atmosphere +5 to 60	±0,5	±0,5	18x21x30	88	9,5	1	0195109100

Accessories. Metallic blocks adapted to TR100-G thermostat by means of fixing screws to the block. Easy to clean and autoclavable.

Description	Depth (mm)	Pack (u.)	Art. No.
For 24 tubes of Ø 11mm	30	1	0195109101
For 12 tubes of 15ml. Ø Up to 15mm	100	1	0195109102
For 6 tubes of 50ml. Ø Up to 28mm	100	1	0195109103
For 96 microtubes of 0,2ml with polypropylene lid	-	1	0195109104
For 54 microtubes of 0,2ml with polypropylene lid	-	1	0195109105
For 15 microtubes of 0,5ml and 20 microtubes of 1,5ml with polypropylene lid	-	1	0195109106
For 35 microtubes of 1,5ml with polypropylene lid	-	1	0195109107
For 35 microtubes of 2ml with polypropylene lid	-	1	0195109108



TRM-4 thermo shaker for microtiter plates

J.P. SELECTA

- With electronic control and digital display of temperature, shaking speed and time.
- Platform for heating and shaking up to 4 96-well microtiter plates.
 - Digital display of parameters.
 - Acoustic and luminous indications at the end of the cycle and due to malfunction in temperature or time programmed.
 - Protection device for over temperature.
 - Protection with auto switch off and switch on activation.
 - Approximate heating time: 23 min. (at 60°C).
 - Shaking range: 100-1200rpm, 2mm orbital rotation.
 - Timer from 1 min. to 99h 59min.
 - Power supply: 230 V.

Temperature (°C)	Stability (°C)	Homogeneity(°C)	Plate dim. WxD (cm)	Ext. dim. HxWxD (cm)	Consumption (W)	Weight (Kg)	Pack (u.)	Art. No.
Atmosphere +5 to 60	±0,5	±0,5	21,5x30	18x40x39	132	9,5	1	0195109200



Kleinfeld metal block thermostats

KLEINFELD

- Metal block thermostats in 4 different thermostat sizes for 1 to 4 insert blocks.
- Timer with alarm.
 - Blocks are fixed with screw.
 - Control-LED for heating.
 - Extern temperature feeler with PT100 model A option.
 - Temperature range: 20 to + 250°C (MBT 100-2 to 100°C)
 - Temperature constant:±0.1K

- Display: digital, 4 digits
 - Dimensions of insert blocks (WxDxH): 115x78x49mm
 - Mains supply: 230 V, 50/60Hz
- Supplied without insert blocks, please order separately.

Type	Insert blocks	Dim. WxHxD (mm)	Thermal power (W)	Pack (u.)	Art. No.
MBT 250-1	1	240x110x240	250	1	000MBT2501
MBT 100-2	2	240x110x280	500	1	000MBT1002
MBT 250-2	2	240x110x280	500	1	000MBT2502
MBT 250-3	3	240x110x400	750	1	000MBT2503
MBT 250-4	4	240x110x400	1000	1	000MBT2504

Accessories

Description	Pack (u.)	Art. No.
Aluminium block for 24 tubes 10mm Ø	1	000MBT2410
Aluminium block for 24 tubes 12mm Ø	1	000MBT2412
Aluminium block for 12 tubes 19mm Ø	1	000MBT1219
Aluminium block for 40 Eppendorf vials 0,5ml	1	000MBT4405
Aluminium block for 24 Eppendorf vials 1,5ml	1	000MBT2415
Aluminium block for 24 Eppendorf vials 2ml	1	000MBT2420
Aluminium block without holes	1	00000MBT00
Extern temperature sensor PT100, type A	1	000MBTPT100
Taking rod for insert blocks	1	000MBT250E
Fastening screw for insert blocks	1	000MBT250B
Special key for fastening insert blocks	1	000MBT2503

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HEATING MANTLES, HOTPLATES AND BLOCKS: Heating tape and cable

KM-HC-G heating cable
SAF WÄRMETECHNIK

No protection against ingress of water, with glass fibre insulation without protective braiding, preterminated with 2 x 1,5 m cold end.

- Outer Ø: 3,5 to 4,5mm
- Min. bending radius 5mm
- Max. heating element temperature 450°C
- Nominal voltage 230 V AC

Length (m)	Power (W)	Pack (u.)	Art. No.
0,5	75	1	0012030005
1	150	1	0012030010
1,5	225	1	0012030015
2	300	1	0012030020
2,5	375	1	0012030025
3	450	1	0012030030
4	600	1	0012030040
5	750	1	0012030050
6	900	1	0012030060


LabHEAT® KM-HT-BS30 heating tape
SAF WÄRMETECHNIK

No protection against ingress of water; with inner metal protective braiding and glass fibre insulation.

- Preterminated with 1,0m cold end
- Dimensions: 30x5mm
- Min. bending radius 15mm
- Max. heating element temperature 450°C
- Nominal voltage 230 V AC

Heating tapes with other specifications (also up to 900°C) are available on request.

Length (m)	Power (W)	Pack (u.)	Art. No.
0,5	125	1	0013000005
1	250	1	0013000010
1,5	375	1	0013000015
2	500	1	0013000020
2,5	625	1	0013000025
3	750	1	0013000030
4	1000	1	0013000040
5	1250	1	0013000050
7	1500	1	0013000070
10	2000	1	0013000100


Silikat KM-HT-H heating tape
SAF WÄRMETECHNIK

With heat-resistant quartz yarn insulation and without protective braiding. High power and temperature, must only be used in dry atmospheres with temperature control. Preterminated with 1,0 m cold end.

- Dimensions: 30 x 5mm
- Min. bending radius 15mm
- Max. heating element temperature 900°C
- Nominal voltage 230 V AC

Length (m)	Power (W)	Pack (u.)	Art. No.
0,5	175	1	0014000005
1	350	1	0014000010
1,5	525	1	0014000015
2	700	1	0014000020
2,5	875	1	0014000025
3	1050	1	0014000030
5	1250	1	0014000050

HEATING MANTLES, HOTPLATES AND BLOCKS: Hotplates



RC



RC

RC series hotplates VELP

Single- and two-position heating plate with temperature regulation. The aluminum alloy heating plates are coated with a special protective layer that ensures uniform heat distribution over the entire surface and excellent resistance to chemicals. RC model with single-position and available RC2 model with two positions. Temperature: up to 370°C. cNEMKOus certification, compliance with North American rules. Main supply: 230V/50-60Hz

Model	Plate material	Plate dim. (mm)	Power (W)	Weight (kg)	Dim. WxHxD (mm)	Temperature (°C)	Pack (u.)	Art. No.
RC	Aluminum special protection	Ø155	600	1,4	165x115x280	To 370	1	0F20700431
RC2	Aluminum special protection	Ø155	1200	3,3	340x90x246	To 370	1	0F20700430



REC

REC hotplate VELP

The REC is a digital hot plate with white ceramic heating plate, that ensures excellent resistance to chemicals and scratches and is extremely easy to clean. Microprocessor technology ensures fast heating and provides precise temperature setting, as the digital display constantly shows set temperature. The control panel is separated from the hot plate, this feature increases the safety rating during use and the durability of the instrument. The inclination of the front panel has been carefully studied to facilitate use. The electronic control board activates a high temperature warning "Hot Plate Warning" that remains even when the instrument is turned off, until the temperature of the plate has cooled to below 50°C. Temperature: up to 550°C. Power supply: 230 V.

Model	Plate material	Plate dim. (mm)	Power (W)	Weight (kg)	Dim. WxHxD (mm)	Temperature (°C)	Pack (u.)	Art. No.
REC	Ceramic	180x180	800	3,3	203x94x344	To 550	1	0F20700081



C-MAG HP 4

C-MAG HP IKATHERM® hotplates IKA

Hotplates made of ceramic glass which offers excellent chemical resistance.

- Fixed safety circuit of 550°C
- Hot Top indicator: hot surface warning to prevent burns
- Exact temperature setting via digital display (LED)
- Digital error code display
- Elevated control panel for protection against leaking liquids
- Protection class acc. to DIN EN 60529: IP 21

C-MAG HP 7 / 10 IKATHERM®: bushing according to DIN 12878 for connecting a contact thermometer (e. g. ETS-D5) enables precise temperature control. See stirring subchapter.

Technical data:

- Heating temperature range: 50 to 500°C
- Permissible ambient temperature: 5 to 40°C
- Permissible relative moisture: 80%
- Power supply: 230 V

Model	Plate material	Plate dim. (mm)	Power (W)	Weight (kg)	Dim. WxHxD (mm)	Temperature (°C)	Pack (u.)	Art. No.
C-MAG HP 4	Ceramic glass	100x100	250	3	150x105x260	50 to 500	1	0223581600
C-MAG HP 7	Ceramic glass	200x200	1000	5	220x105x330	50 to 500	1	0223581800
C-MAG HP 10	Ceramic glass	280x280	1500	6	300x105x415	50 to 500	1	0223582000



Combiplac circular hotplates

J.P. SELECTA

Adjustable plate temperature up to 400°C.
 Electronic energy temperature control.
 The non warping steel hotplate has heating elements embedded throughout the hotplate surface maintaining the heat distribution.
 The main case is made of AISI 304 stainless steel.
 A retort bar can be located in a hole at the back of the unit.
 Power supply: 230 V.

Hotplates

Ø plate (cm)	Ext. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
12	16x10x27	2	550	1	0193002301
19	21x13x30	3	950	1	0193002302

Accessories



0197002510



0191002290



0191002280



0191001009



0193000887

Description	For plate	Pack (u.)	Art. No.
Bath of AISI 304 stainless steel of 140mm Ø	Suitable for 12mm Ø	1	0197002510
Round bottom flask adapter of 50-100ml	Suitable for 12mm Ø	1	0191002290
Round bottom flask adapter of 300-500ml	Suitable for 12mm Ø	1	0191002280
Support rod of 12mm Ø and 550mm high	-	1	0191000725
Electronic contact thermometer with digital readout "Sensoterm"	-	1	0191001009
Electronic temperature controller "ELECTEMP"	-	1	0193000887



Combiplac rectangular hotplates

J.P. SELECTA

Adjustable plate temperature up to 400°C.
 Electronic energy temperature control.
 The non warping steel hotplate has heating elements embedded throughout the hotplate surface maintaining the heat distribution.
 The main case is made of AISI 304 stainless steel.
 Power supply: 230 V.

Hotplates

WidthxDepth (cm)	Ext. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
20 x 40	22x12x55	9	2300	1	0193000156
30 x 30	33x13x46	13	2800	1	0193000718

Sand bath adapters. Made entirely of AISI 310 stainless steel, removable for easy cleaning



For plate	Ext. dim. WxHxD (cm)	Pack (u.)	Art. No.
0193000156	20x5,5x40	1	0196000719
0193000718	31x5,5x31	1	0196000720

HEATING MANTLES, HOTPLATES AND BLOCKS: Mantles

Heating mantle for flasks Fibroman-C
J.P. SELECTA

Two position isolated rocker switch heating control with power on indicator lamp.

Features:

- DUR ALLOY aluminium exterior case with epoxy coating.
- Suspended mineral wool woven heating mantle.
- Heating element homogeneously distributed throughout the woven mantle.
- Thermally insulated case, mineral wool fibre insulation.
- Nickel connectors.
- Retort stand clamp at the back of the unit.
- To prevent breakage or spills a drain hole is provided at the bottom of the mantle.
- Safety earth connection.
- Power supply: 230 V.

Model	Cap. flasks (ml)	Ø flask (mm)	Ø ext. (cm)	Height (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
FIBROMAN C	100	65	16	11	1	130	1	0193003141
FIBROMAN C	250	83	16	11	1,1	130	1	0193003142
FIBROMAN C	500	102	17	12	1,2	270	1	0193003145
FIBROMAN C	1.000	132	21	12,5	1,4	410	1	0193031410
FIBROMAN C	2.000	164	24	15	2	530	1	0193031420
FIBROMAN C	3.000	190	27	18	2,2	620	1	0193031430
FIBROMAN C	4.000	203	31	19	2,8	700	1	0193031440
FIBROMAN C	5.000	222	31	19	3,2	840	1	0193031450
FIBROMAN C	6.000	235	31	19	3,4	1.000	1	0193031460
FIBROMAN C	10.000	290	38	22	4,7	1.400	1	0193314100
FIBROMAN C	20.000	365	48	26	11	2.300	1	0193314200


Heating mantles for flasks Fibroman HT-W
J.P. SELECTA

Maximum precision in temperature control and energy saving. Includes "TC" temperature sensor, conectable to case directly. Temperature sensor of 4mm of diameter and 20cm long. For adjustable temperaturas from ambient +5 to 400°C. Electronic regulation of temperature with double screen to show the present temperature and the programmed one. Stability±0,5 to 1°C according to temperature.

Features:

- External case made of AISI 304 stainless steel.
- Heating elements homogeneously distributed inside of the mineral wool woven and thermically insulated.
- Pure nickel connection terminals.
- Temperature control system by inner thermocouple.

- TC probe connector included in the equipment for the liquid temperature control inside the flask.
- Device to hold support bar.
- Power supply: 230 V.

Model	Cap. flasks (ml)	Ø flask (mm)	Ext. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
FIBROMAN HT-W	100	65 to 67	14x11x18	1,5	130	1	0193031470
FIBROMAN HT-W	250	83 to 87	18x12x24	3	216	1	0193031471
FIBROMAN HT-W	500	102 to 105	18x12x24	3,5	220	1	0193031472
FIBROMAN HT-W	1.000	132 to 139	21x13x27	4	530	1	0193031473
FIBROMAN HT-W	2.000	164 to 170	25x15x31	5	650	1	0193031474

Accessories


Support bar



Double bosshead



Spring clamp



Clamp

Description	Pack (u.)	Art. No.
Support bar Dur-Aluminium 12mm Ø x 700mm lenght	1	0196000270
Double Bosshead	1	0191000069
Spring clamp to hold thermometers	1	0197000025
Clamp to support and hold condensers or other glassware	1	0197000161



EM/CE series heating mantles with controller ELECTROTHERMAL

- Outer housing is constructed of chemical resistant and resilient PP minimising damage from spillage
- Triac-controller
- Temperature up to + 450°C
- Includes with the added built-in temperature controller and grounding screen
- Replaceable heating element cartridge
- Mains supply: 220 to 240 V, 50 to 60 Hz

Capacity (ml)	Power (W)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
50	60	175x127x260	1	00EM0050CE
100	60	175x127x260	1	00EM0100CE
250	150	175x127x260	1	00EM0250CE
500	200	238x145x310	1	00EM0500CE
1000	300	238x145x310	1	00EM1000CE
2000	500	350x190x400	1	00EM2000CE
3000	500	350x190x400	1	00EM3000CE
5000	800	350x190x400	1	00EM5000CE



EMA/CEB series stirring heating mantles ELECTROTHERMAL

- Outer housing is constructed of chemical resistant and resilient PP minimising damage from spillage. Element temperature range from ambient to 450°C
- Designed for stirring and heating of liquid
- Stirring is independently controlled with a variable speed control up to 520 min⁻¹
- Includes an automatic capture feature to catch the stirring bar to start stirring if stirring is disrupted
- Stirring can be single or bi-directional stirring feature reverses direction every 20 s
- Mains supply: 220 to 240 V, 50 to 60 Hz

Capacity (ml)	Power (W)	Pack (u.)	Art. No.
50	60	1	0EMA0050EC
100	60	1	0EMA0100EC
250	150	1	0EMA0250EC
500	200	1	0EMA0500EC
1.000	300	1	0EMA1000EC
2.000	500	1	0EMA2000EC



EMV/CE series V-shaped heating mantles ELECTROTHERMAL

- Outer housing is constructed of chemical resistant and resilient PP minimising damage from spillage
- Accept large range of flasks and funnels sizes
- The mantles have a bottom run-off which enable 60° funnels of various Ø to be heated
- Built-in electronic controller regulates heating element up to 450°C
- Includes with the added built-in temperature controller and grounding screen
- Replaceable heating element cartridge
- Includes double fuses and two indicator lights to indicate 'Power On' and 'Heater On'
- Mains supply: 230 V, 50 / 60 Hz

Flasks (ml)	Ø funnels (mm)	Power (W)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
10 to 50	50 to 100	60	175x127x260	1	0EMV0050CE
100 to 250	75 to 250	60	175x127x260	1	0EMV0250CE
500 to 1.000	100 to 200	150	238x145x310	1	0EMV5000CE
1.000 to 5.000	200 to 300	150	350x190x400	1	0EMV1000CE

For further information, please contact scharlab@scharlab.com

HEATING OVENS



Drying and sterilization ovens Conterm J.P. SELECTA

Construction:

- External case treated with a corrosive resistant epoxy coating.
- Internal part: Easy to clean AISI 304 stainless Steel double chamber, self adjusting door seal and adjustable shelves and guides.
- Control panel: independent insulated control panel to facilitate all types of instruments, controls and regulators.
- Adjustable air inlet.
- Flexible floating door seal, self adjusting that maintains the best possible seal.

Technical Properties:

- Excellent thermal qualities of the insulation has the optimum performance according to heater capacity and power consumption, with minimal external temperatura loss.
- Independent heating chamber for the heating elements to obtain an even heat distribution and rapid temperature equilibrium and stabilization.

Technology from J. P. Selecta:

- Locking device in analogue temperature controls.
- Adjustable guide and shelf positions.
- Double seal around the chamber to provide a gentle but effective seal.
- Floating spring door that adjusts the pressure and absorbs the thermal expansion.
- Adjustable door pressure system closure.
- Natural convection.
- Temperature thermostat control with analogue thermometer.
- For adjustable temperatures from 40°C up to 250°C .
- Stability: $\pm 0.5^\circ\text{C}$ up to 100°C.
- Homogeneity: $\pm 1^\circ\text{C}$ up to 100°C.
- 2 Shelves and 4 shelf guides.
- Power supply: 230 V.

Ovens

Model	Temp. range (°C)	Volume (l)	Ext. dim. WxHxD (cm)	Int. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
CONTERM	40 to 250	19	60x50x44	25x30x25	27	640	1	0192000208
CONTERM	40 to 250	36	65x60x49	30x40x30	35	950	1	0192000209
CONTERM	40 to 250	52	82x53x52	47x33x33	44	1075	1	0192000200
CONTERM	40 to 250	80	74x70x59	40x50x40	54	1230	1	0192000210
CONTERM	40 to 250	150	95x70x68	60x50x50	76	2150	1	0192000201

Accessories



0192000002-0192000003



0192000009

Description	For model	Pack (u.)	Art. No.
Timer switch 0-120 minutes	–	1	0192000002
Timer switch 0-12 hours	–	1	0192000003
24 hour programmable timer	–	1	0192000009

Spares

Description	For model	Pack (u.)	Art. No.
Shelf guide	19l	2	0192000011
Shelf	19l	1	0192000021
Shelf guide	36l and 52l	2	0192000012
Shelf	36l	1	0192000022
Shelf guide	80l	2	0192000013
Shelf	80l	1	0192000023
Shelf	52l	1	0192000024
Shelf guide	150l	2	0192000015
Shelf	150l	1	0192000025



Drying and sterilization ovens Digitheat

J.P. SELECTA

Construction:

- External case treated with a corrosive resistant epoxy coating.
- Internal part: Easy to clean AISI 304 stainless Steel double chamber, self adjusting door seal and adjustable shelves and guides.
- Control panel: independent insulated control panel to facilitate all types of instruments, controls and regulators.
- Adjustable air inlet.
- Flexible floating door seal, self adjusting that maintains the best possible seal.

Technical properties:

- Excellent thermal qualities of the insulation has the optimum performance according to heater capacity and power consumption, with minimal external temperature loss.
- Independent heating chamber for the heating elements to obtain an even heat distribution and rapid temperature equilibrium and stabilization.

Technology from J. P. Selecta:

- Locking device in analogue temperature controls.
- Adjustable guide and shelf positions.
- Double seal around the chamber to provide a gentle but effective seal.
- Floating spring door that adjusts the pressure and absorbs the thermal expansion.
- Adjustable door pressure system closure.
- Natural convection.
- Digital control and display of temperature and time.
- Adjustable temperature from ambient +5°C up to 250°C.
- Stability: ±0.25°C, up to 100°C.
- Homogeneity: ±1°C, up to 100°C.
- Set error: ±2% of the working temperature.
- Resolution: 1°C.
- Standard EN 61010. Incorporated fixed over temperature device.
- Standard DIN 12880.2 (Class 2 and 3.1) Controllable safety thermostat fitted.
- RS-232 interface output for a computer, printer or usb adapter.
- 2 shelves and 4 shelf guides.
- Power supply: 230 V.

Ovens

Model	Temp. range (°C)	Vol. (l)	Ext. dim. WxHxD (cm)	Int. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
DIGITHEAT	5° above ambient temp. to 250	19	60x50x44	25x30x25	24	600	1	0192001241
DIGITHEAT	5° above ambient temp. to 250	36	65x60x49	30x40x30	35	900	1	0192001242
DIGITHEAT	5° above ambient temp. to 250	52	82x53x52	47x33x33	44	1000	1	0192001243
DIGITHEAT	5° above ambient temp. to 250	80	74x70x59	40x50x40	59	1200	1	0192001244
DIGITHEAT	5° above ambient temp. to 250	150	95x70x68	60x50x50	73	2100	1	0192001245

Accessories



USB adapter model



Printer

Description	For model	Pack (u.)	Art. No.
USB adapter model	-	1	0194120131
Digital printer for time and temperature	-	1	0192000016

Spares

Description	For model	Pack (u.)	Art. No.
Shelf guides	19l	2	0192000011
Shelf	19l	1	0192000021
Shelf guides	36l and 52l	2	0192000012
Shelf	36l	1	0192000022
Shelf guides	80l	2	0192000013
Shelf	80l	1	0192000023
Shelf	52l	1	0192000024
Shelf guides	150l	2	0192000015
Shelf	150l	1	0192000025



**Glass drying oven Dryglass
J.P. SELECTA**

Glass drying oven with fan assisted air circulation. Adjustable temperature from 40°C to 170°C. Hydraulic thermostat for temperature control. Air circulation by turbo fan. Inner chamber made of AISI 304 stainless steel with shelf runners. Removable tempered glass sliding doors. Ventilation port for steam. Epoxy coated external case. **STANDARD EQUIPMENT:** 2 shelves and 4 shelf guides. **CONTROL PANEL:** Dual heating power selector switch. Mains indicator lamp. Hydraulic thermostat for temperature control. Locking system of thermostat knob. Heater "ON" operation indicator lamp. Analogue thermometer. Adjustable over temperature safety thermostat, that cuts off the power if the control thermostat fails, manual reset with "on" indicator lamp.
- Power supply: 230 V.

Model	Temp. range (°C)	Volume (l)	Ext. dim. WxHxD (cm)	Int. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
DRYGLASS	40 to 170	126	94x66x54	70x45x40	65	3000	1	0192000381

Accessories



0192000002-0192000003



0192000009

Description	For model	Pack (u.)	Art. No.
Timer switch 0-120 minutes	-	1	0192000002
Timer switch 0-12 hours	-	1	0192000003
24 hour programmable timer	-	1	0192000009

Spares

Description	Pack (u.)	Art. No.
Shelf guides	2	0192000081
Shelf	1	0192000091

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Laboratory Glassware Scharlau

- High Quality
- According to ISO Standards
- Made in European Union



The wise choice



HOMOGENIZERS

- Homogenizers for microbiology, *page 919*
- Ultrasonic homogenizers, *page 922*

HOMOGENIZERS: Homogenizers for microbiology

**Homogenizers Bagmixer®
INTERSCIENCE**

Homogenizers Bagmixer® guarantee optimal bacterial extraction of solid samples by the movements of its two paddles. Representative of the sample's global contamination, with BagMixer® the homogenized sample is ready to be analyzed in 30 to 60 seconds.

Advantages:

- Quick blending with optimal bacterial extraction
- Removable and adjustable paddles
- Hood and blending chamber made of stainless steel
- Adjustable speed, time and blending strength
- Easy cleaning: 270° opening door and Click and Clean® removable paddles
- Q-Tight® closing: no more leaks upwards
- Silent and resistant
- Easy insertion of the bag
- 3 year guarantee

MiniMix® 100:

- Designed for the blending of small samples
- Multifunction digital screen
- Q-Tight® closing
- Click and Clean® removable paddles

BagMixer® 400:

- Worldwide best-seller
- 400 VW and 400 CC models: with multifunction digital screen, adjustable blending speed, time and power, Q-Tight® closing
- Power supply: 400 P: 220 V; 400 W: 240 V; 400 CC: 240 V

BagMixer® S and SW:

- Super silent brushless motor
- Integrated security driptray
- Total access system
- Light code system

JumboMix® 3500:

- Great robustness
- Multifunction digital screen
- Adjustable blending speed, time and power
- Q-Tight® closing
- JumboMix® 3500 WarmMix® model with regulated heated door (from 20°C to 50°C) provides perfect conditions for the Trichinella testing in pork



BagMixer® 400 P



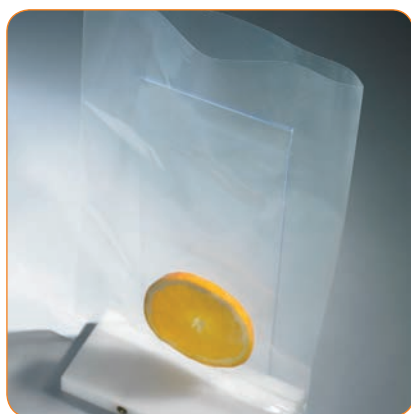
BagMixer® 400 CC



BagMixer® 400 SW

For further information, please contact scharlab@scharlab.com

Model	Net cap.	Sample vol.	Speed	Door	Dim. DxWxH (cm)	Weight (Kg)	Pack (u.)	Art. No.
MiniMix® 100 P CC® Click & Clean	5-80ml	Up to 10g	3-12 strokes/second	Stainless steel	37x21x20	13	1	603-011230
BagMixer® 400 P	50-400ml	Up to 40g	8 strokes/second	Stainless steel	39x26x29	16,5	1	603-000004
BagMixer® 400 W	50-400ml	Up to 40g	8 strokes/second	Glass	39x26x29	16,5	1	603-000007
BagMixer® 400 CC® Click & Clean	50-400ml	Up to 40g	4-10 strokes/second	Glass	42x26x26,5	16	1	603-024230
BagMixer® 400 S	50-400ml	Up to 40g	4-10 strokes/second	Stainless steel	45x29x37	26	1	603-025000
BagMixer® 400 SW	50-400ml	Up to 40g	4-10 strokes/second	Glass	45x29x37	26	1	603-025100
JumboMix® 3500 VP	200-3500ml	Up to 400g	1,5-6 strokes/second	Stainless steel	47x52x47	58	1	603-031230
JumboMix® 3500 VW	200-3500ml	Up to 400g	1,5-6 strokes/second	Glass	47x52x47	58	1	603-032230
JumboMix® 3500 WarmMix® Special Trichinella	200-3500ml	Up to 400g	1,5-6 strokes/second	Stainless steel	47x52x47	58	1	603-000026



Sterile bags for microbiology INTERSCIENCE

Sterile bags for microbiology are used for the homogenizing and analysis of any solid sample, and especially adapted for food, medical, veterinary and environmental samples. Filter bags are preferred because the filtration of the sample is made during the blending, therefore instant and sterile. Adapted to all samples, from 1g to 400g. Adapted to all lab blenders. Sterile and approved for food contact. Certified ISO 9001-2000.

BagLight® bags without filter. For all microbiological uses in labs

Capacity	Model	Characteristics	Usable volume	Dim. AnxH (mm)	Pack (u.)	Art. No.
100ml	PolySilk®	Flexible and transparent. High resistance	5-50ml	110x185	500 (20x25u)	603-131025
400ml	PolySilk®	Flexible and transparent. High resistance	50-300ml	175x300	500 (20x25u)	603-132025
400ml	PolySilk® HD	Rigid, matte. Easy to write on. High resistance	50-300ml	175x300	1000 (40x25u)	603-132325
400ml	Multilayer®	Rigid and transparent. Ultra resistant and reinforced weldings	50-300ml	190x300	500 (20x25u)	603-132225
400ml	Multilayer® U	Rigid and transparent. Ultra resistant and reinforced weldings (circular homogenization)	50-300ml	190x300	500 (20x25u)	603-132125
3500ml	PolySilk®	Flexible and transparent. High resistance	200-2000ml	380x510	500 (20x25u)	603-133025

BagPage® full-surface microperforated filter-bag. For pasty samples

Capacity	Model	Characteristics	Porosity	Usable volume	Dim. AnxH (mm)	Pack (u.)	Art. No.
80ml	BagPage®+	Micro-perforated filter	280	5-40ml	95x160	500 (20x25u)	603-120825
100ml	BagPage®+	Micro-perforated filter	280	5-50ml	95x180	500 (20x25u)	603-121025
400ml	BagPage® U	Micro-perforated filter(circular homogenization)	280	50-300ml	190x300	500 (20x25u)	603-122225
400ml	BagPage® F	For PCR	63	50-300ml	190x300	500 (20x25u)	603-122325
400ml	BagPage® R	Nonwoven filter materials	< 250	50-300ml	190x300	500 (20x25u)	603-161025
400ml	BagPage® + XR	Extra resistant	280	50-300ml	380x510	400 (16x25u)	603-122425
3500ml	BagPage®+	Micro-perforated filter	280	200-2000ml	380x510	100 (10x10u)	603-123010

BagFilter® Side-filter blender bag. Ideal for fibrous samples

Capacity	Model	Characteristics	Porosity	Usable volume	Dim. AnxH (mm)	Pack (u.)	Art. No.
400ml	BagFilter® P	For pipetting	< 250	50-300ml	190x300	500 (20x25u)	603-111425
400ml	BagFilter® S	For pour	< 250	50-300ml	190x300	500 (20x25u)	603-112425
400ml	BagFilter Pull-Up®	For pipetting small volums: ≤ 1000µl	< 50	50-300ml	190x300	500 (20x25u)	603-161025
3500ml	BagFilter® P	For pipetting	< 250	200-2000ml	380x510	100 (10x10u)	603-113510

→ Continued on the next page

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RollBag® sampling and blender bag

Capacity	Model	Characteristics	Usable volume	Dim. AnxH (mm)	Pack (u.)	Art. No.
450ml	RollBag® 450	Pre-cut opening of samples and marking zone	5-50ml	110x230	1000	603-145010
1300ml	RollBag® 1300	Pre-cut opening of samples and marking zone	50-300ml	175x290	500	6031451050

Accessories



BagClip®

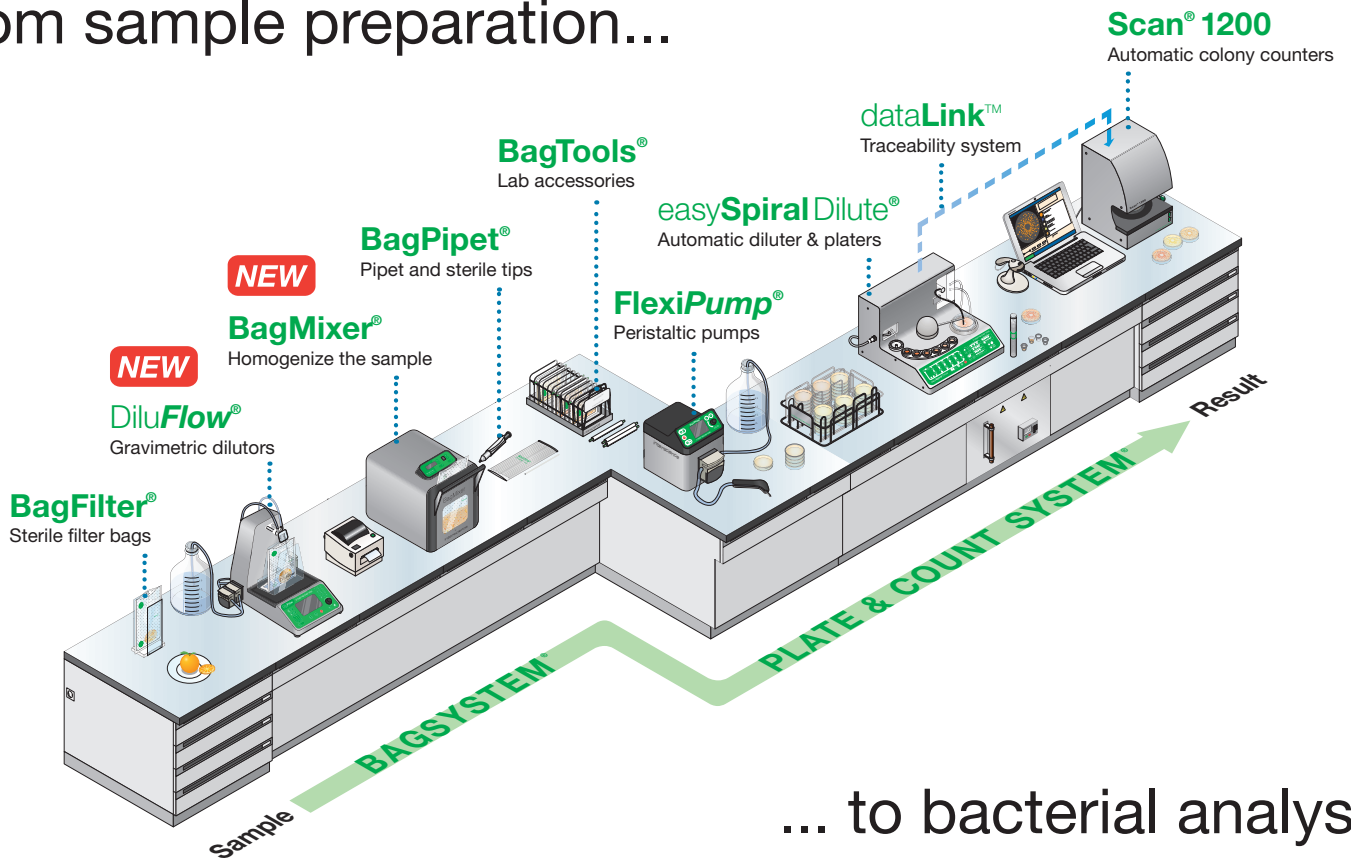
BagOpen®

BagRack®

Description	Pack (u.)	Art. No.
BagClip® tight closing for 80 and 100ml bags	50	603-231010
BagClip® tight closing for 400ml bags	50	603-231040
BagClip® tight closing for 3500ml bags	50	603-231350
BagOpen® bag opener/holder for 80 and 100ml bags	1	603-211010
BagOpen® bag opener/holder for 400ml bags	1	603-211040
BagOpen® bag opener/holder for 3500ml bags	1	603-211350
BagRack® stainless steel rack for 11 bags of 80 and 100ml	1	603-221010
BagRack® stainless steel rack for 10 bags of 400ml	1	603-221040
BagRack® stainless steel rack for 4 bags of 3500ml	1	603-221350

HOMOGENIZERS

From sample preparation...



... to bacterial analysis

HOMOGENIZERS: Ultrasonic homogenizers

Accessories for Bandelin ultrasonic homogenizers BANDELIN

- Cooling vessel for sonication of temperature-sensitive samples. Cooling jacket allows tempering with liquid cooling agents during sonication
- Rosette cells RZ for homogenous and intense circulation of liquids caused by the shape of the vessel and its 3 sidearms. Glass
- Probes made of titanium alloy (Ti6Al4V). Transmit mechanical longitudinal waves into the sample. They are thermoresistant, can be treated in autoclaves and are resistant to corrosive media. Sample volume, Ø of the processing vessel and the required amplitude determine the selection of the unit and the type of probe. The higher the amplitude, the more intense the sonication
- Extended probe VS 70 T: especially used for sonication of ceramic suspensions or when preparing samples for grain size analysis. For HD2070/2200/3100/3200
- Booster Horns SH: Made of titanium alloy (Ti6Al4V) are furnished with a thread for replaceable probes. With an exterior thread to connect various vessels. For type HD2200/3200
- Cup Booster BR 30 for high-intensive indirect irradiation of smallest and sensitive sample volumes, e. g. cleaning of radioactively contaminated seeds, cell disruption or treatment of pathogens and toxic material. No cross-contamination or sample loss. Flow-through cooling liquid avoids rise of temperature
- Soundproofing boxes LS: reduce the noise level. Inlets at rear side for gas supply or flow-through irradiation. The clear acrylic glass door permits the observation of the process
- LS 4: for, made of wood, inlets at rear side for gas supply or sample circulation, 10 dB-AU damping
- LS 8: swivelling clamp and quick clamp for height adjustment of sample vessels. Inlets at rear side for gas supply or sample circulation. For indirect processing with BR 30, BB 6 or BB 2 G turn the box by 180°. Ultrasonic converter UW is fixed safely by a special clamp. Support UG 6 is required
- LS 11: with damping material 20 dB-AU
- Stand HG: with lab clamp, for safe fixing of ultrasonic converter. For types HD2070/2200/3100/3200. HG10 for 3400

Cooling vessels



KG3

Type	Volume (ml)	For model	Ø internal (mm)	Depth (mm)	Pack (u.)	Art. No.
KG 3	15	HD 2070/2200/3100/3200	20	65	1	0000000KG3
KG 5	70	HD 2200/3200	35	95	1	0000000KG5

Rosette cells

Type	Volume (ml)	For model	Ø internal (mm)	Depth (mm)	Pack (u.)	Art. No.
RZ 1	25	HD 2070/2200/3100/3200	30	85	1	0000000RZ1
RZ 2	40	HD 2070/2200/3100/3200	42	100	1	0000000RZ2
RZ 3	110	HD 2070/2200/3100/3200	50	135	1	0000000RZ3
RZ 4	390	HD 2200/3200/3400	75	202	1	0000000RZ4
RZ 5	660	HD 2200/3200/3400	90	243	1	0000000RZ5

Probes



Type	Ø tip (mm)	Tip type	Standard/boosterhorns	For volumes (ml)	Pack (u.)	Art. No.
MS 1.5	1,5	Micro tip	-	0,1 to 10	1	0000000MS15
MS 2.5	2,5	Micro tip	-	0,5 to 25	1	0000000MS25
KE 76	6	Conical	SH 70 G/ SH 213 G	5 to 100/10 to 350	1	0000000KE76
VS 70 T	13	Extend probe	SH 70 G/ SH 213 G	10 to 200/20 to 900	1	0000000VS70T
TT 13	13	Flat titanium	SH 70 G/ SH 213 G	10 to 200/20 to 900	1	0000000TT13
TT 19	19	Flat titanium	SH 219 G/ SH 3419	25 to 900/500 to 1500	1	0000000TT19

Booster



SH 219 G



BR 30

Type	For models	Ø (mm)	Pack (u.)	Art. No.
SH 219 G	HD 2200/3200	19	1	0000SH219G
BR 30	HD 2070/2200/3100/3200	-	1	000000BR30

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Soundproofing boxes



LS8



LS11

Type	Material	Sound reduction (db-AU)	Pack (u.)	Art. No.
LS 4	Wood	10	1	000000LS4
LS 8	Stainless steel	20	1	000000LS8
LS 11	Stainless steel	20	1	000000LS11
UG 6 - Stand	Stainless steel	-	1	000000UG6

Stand



Type	For model	Pack (u.)	Art. No.
HG 5	HD 2070/2200/3100/3200	1	1171-00459



Ultrasonic homogeniser SONOPULS HD2070 BANDELIN

Powerful digital small unit.
 - AMPLICHRON® system: guarantees a constant amplitude independently from changing conditions within the sample. It also ensures reproducible results for process validation. Settings: within a range of 10 to 100%. Verification of actual value at the display. Permanent control of ultrasound irradiation as well as indication of wear of the probe.
 - Pulsation: a setting of 10 to 100% limits rise of temperature for temperature sensitive samples. The adjustable pulsation allows cooling during ultrasound intervals.
 - Compact construction: electronic control of the ultrasonic generator, space saving design. Ideal for use in mobile laboratories.
 - Fail-safe during continuous operation and idling. RFI-proofed and CE-marked, also as medical device compliant to the directive for in-vitro diagnostics 98/79/EG.
 Below is detailed the volume range for this configuration. The possible range for this equipment with other accessories goes from 1 to 200ml.
 Power supply: 230 V.

Configuration volume	HF-Generator	Converter	Power HF (W)	Horn	Included sensor	Pack (u.)	Art. No.
From 2 to 50ml	GM 2070	UW 2070	70	SH 70 G	MicroTip MS 73, Ø 3mm	1	0000HD2070

For further information, please contact scharlab@scharlab.com



**Ultrasonic homogeniser SONOPULS HD2200
BANDELIN**

Multi-functional digital standard unit.

- AMPLICHRON® system: guarantees a constant amplitude independently from changing conditions within the sample. It also ensures reproducible results for process validation. Settings: within a range of 10 to 100%. Verification of actual value at the display. Permanent control of ultrasound irradiation as well as indication of wear of the probe.
 - Pulsation: a setting of 10 to 100% limits rise of temperature for temperature sensitive samples. The adjustable pulsation allows cooling during ultrasound intervals.
 - Compact construction: electronic control of the ultrasonic generator, space saving design. Ideal for use in mobile laboratories.
 - Fail-safe during continuous operation and idling. RFI-proofed and CE-marked, also as medical device compliant to the directive for in-vitro diagnostics 98/79/EG.
- Below is detailed the volume range for this configuration. The possible range for this equipment with other accessories goes from 20 to 1000ml.
Power supply: 230 V.

Configuration volume	HF-Generator	Converter	Power HF (W)	Horn	Included sensor	Pack (u.)	Art. No.
From 20 to 900ml	GM 2200	UW 2200	200	SH 213 G	Titanium flat tip TT 13, Ø 13mm	1	0000HD2200



**Ultrasonic homogeniser SONOPULS HD3100
BANDELIN**

High tech for research.

- Time modes: 9 h: 59 min: 59 s, continuous or timed.
 - Safety shut down: 9 h: 59 min: 59 s.
 - Ready-to-operate basic equipment for volumes from 2 to 50 ml consisting of generator GM 3100, ultrasonic converter UW 3100, stepped standard horn SH 70 G and microtip MS 73, Ø 3mm.
 - Display: graphic / alphanumeric liquid, crystal display of amplitude, pulsation mode, time, energy, optionally temperature.
 - Menu guided: setting of all values through 'push and turn'.
 - 9 user programmes, with software WINPULS®: 99.
 - Remote control with PC: RS232 (infrared).
 - Error diagnosis, automatic storage of the last adjusted values, operating test.
 - Remote control: foot switch.
 - Pulsation: limits increase of temperature when processing sensitive samples. The adjustable pulsation allows cooling during rest intervals. ON cycles 0,2 to 600 s. OFF cycles 0,3 to 600 s.
 - AMPLICHRON®-system: guarantees a constant amplitude independently from changing conditions within the sample. It ensures reproducible results for process validation. Settings within a range of 10 to 100%. Verification of actual value at the display. Permanent control of ultrasound irradiation as well as indication of wear of the probe.
 - Fail-safe during continuous operation and idling: RFI-proofed and CE-marked, also as medical device compliant to the directive for in-vitro diagnostics 98/79/EG.
- Below is detailed the volume range for this configuration. The possible range for this equipment with other accessories goes from 1 to 2500ml.
Power supply: 230 V.

Configuration volume	HF-Generator	Converter	Power HF (W)	Horn	Included sensor	Pack (u.)	Art. No.
From 1 to 50ml	GM 3100	UW 3100	100	SH 70 G	MicroTip MS 73, Ø 3mm	1	0000HD3100



**Ultrasonic homogeniser SONOPULS mini20
BANDELIN**

Ultrasound in laboratories and for process engineering.

- With LCD display (graphic / alphanumeric liquid, crystal display of amplitude, pulsation mode, time, energy) and RS232 interface.
- Menu guided: setting of all values through 'push and turn'.
 - 9 user programmes.
 - Error diagnosis, automatic storage of the last adjusted values, operating test.
 - Time modes and safety shut down: 50 min: 59 s.
 - AMPLICHRON®-system: guarantees a constant amplitude independently from changing conditions within the sample. It ensures reproducible results for process validation. Settings within a range of 10 to 100%. Verification of actual value at the display. Permanent control of ultrasound irradiation as well as indication of wear of the probe.
 - Pulsation: limits increase of temperature when processing sensitive samples. The adjustable pulsation allows cooling during rest intervals. ON cycles 0.1 to 60 s. OFF cycles 0,2 to 60 s.
 - Fail-safe during continuous operation and idling: RFI-proofed and CE-marked, also as medical device compliant to the directive for in-vitro diagnostics 98/79/EG.
- Power supply: 230 V.

Configuration volume	HF-Generator	Converter	Power HF (W)	Horn	Included sensor	Pack (u.)	Art. No.
From 0,1 to 25 ml	GM mini20	UW mini 20	-	-	MicroTip MS 2.5, Ø 2,5mm	1	000003665

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INCUBATORS



Bacteriological incubators INCUBAT J.P. SELECTA

Bacteriological incubators with natural convection. Temperature thermostat control with analogue thermometer. Adjustable temperatures from ambient +5°C up to 80°C. Stability: $\pm 0,1^{\circ}\text{C}$. Homogeneity: $\pm 0,5^{\circ}\text{C}$ of the working temperature. Internal tempered glass door. Safety, according to EN 61010. Over temperature cut out incorporated. Adjustable safety thermostat DIN 12880.3.1 fitted. Includes 2 shelves and 4 shelf guides. Power supply: 230 V.

T range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Pack (u.)	Art. No.
5° above ambient to 80°	19	60x50x44	26	1	170	1	0192000205
5° above ambient to 80°	36	65x60x49	36	1	250	1	0192000206
5° above ambient to 80°	52	82x53x52	46	1	300	1	0192001615
5° above ambient to 80°	80	74x70x59	54	1	330	1	0192000207
5° above ambient to 80°	150	95x70x68	78	1	530	1	0192000994

Accessories for INCUBAT series J.P. SELECTA

Optional accessories must be factory installed.

Description	Pack (u.)	Art. No.
Timer switch 0-12 hours.	1	0192000003
24 hour programmer with continuous on/off cycling up to every 15 minutes	1	0192000009



Bacteriological incubators INCUDIGIT J.P. SELECTA

Digital bacteriological incubators "Incudigit" with natural convection. Digital control and display of temperature and time. Adjustable temperature from ambient +5°C up to 80°C. Stability: $\pm 0,1^{\circ}\text{C}$. Homogeneity: $\pm 0,5^{\circ}\text{C}$ of working temperature. Set error: $\pm 2\%$ of the working temperature. Resolution: $0,1^{\circ}\text{C}$. Internal tempered glass door. Safety: according to EN 61010. Over temperature cut out incorporated. Adjustable safety thermostat DIN 12880.3.1 fitted. RS232 interface output for a computer, printer or USB adapter. Includes 2 shelves and 4 shelf guides. Standard equipment: 2 shelves and 4 shelf guides. Power supply: 230 V.

T range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Pack (u.)	Art. No.
5° above ambient to 80°	19	60x50x44	26	1	170	1	0192001246
5° above ambient to 80°	36	65x60x49	36	1	250	1	0192001247
5° above ambient to 80°	52	82x53x52	46	1	300	1	0192001616
5° above ambient to 80°	80	74x70x59	54	1	330	1	0192001248
5° above ambient to 80°	150	95x70x68	75	1	530	1	0192001249

For further information, please contact scharlab@scharlab.com

Shelf guides and shelves for INCUBAT and INCUDIGIT

J.P. SELECTA

Description	For references	Pack (u.)	Art. No.
Set guides (2 u.)	0192000205 and 0192001246	1	0192000011
Set guides (2 u.)	0192000206, 0192001615, 0192001247 and 0192001616	1	0192000012
Set guides (2 u.)	0192000207 and 0192001248	1	0192000013
Set guides (2 u.)	0192000994 and 0192001249	1	0192000015
Shelves	0192000205 and 0192001246	1	0192000021
Shelves	0192000206 and 0192001247	1	0192000022
Shelves	0192001615 and 0192001616	1	0192000024
Shelves	0192000207 and 0192001248	1	0192000023
Shelves	0192000994 and 0192001249	1	0192000025



Bacteriological and cell culture incubators INCUBIG

J.P. SELECTA

Large cell culture incubators with natural convection. Adjustable temperature from ambient +5°C to 80°C. Stability: ±0,1°C. Homogeneity: ±0,5°C of working temperature. Set error: ±2% of the working temperature. Resolution: 0,1°C. Internal tempered glass door. Standard equipment: For Part No. 0192000237, 2 shelves and 4 shelf guides. For Part No. 0192003711 and 0192002471, 2 shelves.

Safety:

Standard EN 61010. Over temperature cut out fitted.
Standard DIN 12880.3.1. Adjustable safety thermostat fitted.

Features:

Microprocessor control and digital display of the temperature and time. Large surface area heating elements. Inner chamber made of AISI 304 stainless steel. Double door, interior door of tempered glass that allows the user to see the contents of the chamber without opening the door. Adjustable air vent. Epoxy covered external case. RS232 interface output for a computer. Display for temperature and time indicator. Operating run mode and delay time indicator.
Power supply: 230 V.

T range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Pack (u.)	Art. No.
5° above ambient to 80°	288	91x97x76	87	1	570	1	0192000237
5° above ambient to 80°	400	114x130x75	160	2	1100	1	0192003711
5° above ambient to 80°	720	134x152x85	225	2	1600	1	0192002471

Accessories for INCUBIG and INCUDIGIT series

J.P. SELECTA

Accessories must be factory installed.

Description	For references	Pack (u.)	Art. No.
Digital printer for time and temperature with numerical printout on continuous paper roll, with print intervals from 1 minute to 99 hours.	Refs. INCUDIGIT and INCUBIG	1	0192000016
Shelves	192000237	1	0192002372
Shelves	192003711	1	0192000063
Shelves	192000064	1	0192000064
Set guides (2 u.)	All INCUBIG	1	0192002371

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Incubation chamber BOXCULT

J.P. SELECTA

Incubation chamber. Fan convection. Digital electronic temperature control. Adjustable temperatures from ambient +5°C up to 57°C. Stability: $\pm 0,25^{\circ}\text{C}$. Homogeneity: $\pm 1^{\circ}\text{C}$ of working temperature. Set error: $\pm 2\%$ of the working temperature. Resolution: $0,1^{\circ}\text{C}$.

Safety: Standard EN 61010- Over temperature safety thermostat fitted.

Made of transparent methacrylate that allows the user to see inside the incubator during operation. Wide front door. Working area and removable base made of AISI 304 stainless steel. Rear port allows power connection to apparatus. Allows mounting of "Rotabit" reciprocal/orbital shaker (Art. No.0193000974). Power supply: 230 V.

T range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Pack (u.)	Art. No.
5° above ambient to 57°	110	51x61x51	18	1	220	1	0193000957

Accessories for BOXCULT

J.P. SELECTA

Description	Pack (u.)	Art. No.
Removable bottom base made of stainless steel	1	0193001172
Stainless steel rack with 4 shelves positions, each one separated by 9cm. Comes complete with 2 removable shelves. Useful dim. 43cm long and 41cm wide.	1	0191000973



Cooled incubators HOTCOLD

J.P. SELECTA

Precise cooled incubators with forced air circulation. Digital electronic control of temperature and time.

Hotcold A-B-C: controllable temperatures from +0°C to 50°C.
Hotcold UB-UC: controllable temperatures from -10°C to 50°C.

Safety: DIN standard 12880.2 safety thermostat fitted that disconnects power to the heater if the controller fails. Manual reset.

Exterior case, door and interior made from AISI 304 stainless steel. Reversible door with lock. Homogeneous internal temperature by forced circulating air. Internal illumination switch. Two external ports for external connections. Two safety power sockets. Refrigerant R134 for models B and C. Refrigerant R404 for models UB and UC. Temperature calibration. Adjustable timer. RS232 interface output for a computer, printer or USB adapter. Programmable graphic display of temperature and time cycles that can be repeated indefinitely or can be manually finished. Timer and off programmable.

Power supply: 230 V.

Precision table:
Stability: $\pm 0,1^{\circ}\text{C}$
Homogeneity: $\pm 0,5^{\circ}\text{C}$
Set error: $\pm 0,5^{\circ}\text{C}$
Resolution: $\pm 0,1^{\circ}\text{C}$

Model	T Range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Number of shelves	Pack (u.)	Art. No.
A	0 to 50	247	62x194x58	89	1	394	14	1	0192101502
B	0 to 50	394	62x194x81	93	1	407	14	1	0192101503
C	0 to 50	557	70x208x89	133	1	850	14	1	0192101504
UB	-10 to 50	394	62x194x81	93	1	952	14	1	0192101505
UC	-10 to 50	557	70x208x89	133	1	1010	14	1	0192101506

For further information, please contact scharlab@scharlab.com

Accessories for HOTCOLD

J.P. SELECTA

Accessories must be factory installed.

Description	Pack (u.)	Art. No.
Printer shows temperature and time.	1	0192101508

Shelf guides and shelves for HOTCOLD

J.P. SELECTA

Description	For references	Pack (u.)	Art. No.
Guides set (4 u.)	0192101502	1	0191001531
Guides set (4 u.)	0192101503 and 0192101505	1	0191001532
Guides set (4 u.)	0192101504 and 0192101506	1	0191001533
Shelves	0192101502	1	0191001534
Shelves	0192101503 and 0192101505	1	0191001535
Shelves	0192101504 and 0192101506	1	0191001536



Cooled incubator HOTCOLD GL

J.P. SELECTA

Precision refrigerated cabinets with forced air circulation. Digital electronic control of temperature, time and humidity.

Suitable for temperatures from 5°C to 50°C.

Safety: conforms to DIN 12880.2 adjustable over temperature cut out fitted that cuts off heating if over temperature fails, manual reset.

Power supply: 230 V.

Precision table:
 Stability: $\pm 0,5^{\circ}\text{C}$
 Homogeneity: $\pm 1^{\circ}\text{C}$
 Set error: $\pm 1^{\circ}\text{C}$
 Resolution: $\pm 0,1^{\circ}\text{C}$

Model	T Range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Number of shelves	Pack (u.)	Art. No.
GL	5 to 50	557	70x208x95	198	1	1300	14	1	0192101507

Accessories for HOTCOLD GL

J.P. SELECTA

Accessories must be factory installed.

Description	Pack (u.)	Art. No.
Printer shows temperature and time.	1	0192101508
Guides set (4 u.)	1	0191001533
Shelves	1	0191001563

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Cooled incubator HOTCOLD S

J.P. SELECTA

Precise cooled incubators with forced air circulation.
Digital electronic control of temperature and time.

Precision table:
Adjustable temperature from +5°C up to 65°C.
Stability $\pm 0,1^\circ\text{C}$.
Homogeneity $\pm 0,5^\circ\text{C}$.
Set error $\pm 2^\circ\text{C}$.
Resolution $0,1^\circ\text{C}$.

Safety: DIN standard 12880.2 safety thermostat fitted that disconnects power to the heater if the controller fails. Manual reset.

Epoxy coated external case. Interior AISI 304 stainless steel. Door with double glazed glass. Illumination switch with internal fluorescent light. Side port for the introduction of external cables probes and tubes. Two power sockets. Cooling gas R134a. 4 wheels with brake. Timer and off programmable. Programmable defrost. High and low temperature alarm. Display for temperature/time.

Control system. Electronic digital controller for temperature and time. Temperature calibration. Standard equipment: 2 shelves and 4 shelf guides.
Power supply: 230 V.

Model	T Range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Number of shelves	Pack (u.)	Art. No.
S	5 to 65	160	63x128x63	70	1	400	10	1	0192101618

Accessories for HOTCOLD S

J.P. SELECTA

Description	Pack (u.)	Art. No.
Guides set (2 u.)	1	0191001619
Shelves	1	0191001620



Cooled low temperature incubators PREBATEM

J.P. SELECTA

Cooled low temperature incubators. Forced air fan circulation. With Peltier technology. Microprocessor controlled temperature with digital display.

Leading edge technology. Peltier effect. No compressor.

Adjustable temperatures from 5°C up to 60°C. Resolution: $0,1^\circ\text{C}$. Semiconductor heating and cooling system. Quiet - stable - free from vibrations - very accurate - low power consumption. Inner tempered glass door.
Power supply: 230 V.

Safety: DIN 50011 standard for temperature stability and homogeneity. Conforms to DIN 12880.3.1 standard adjustable safety thermostat fitted.

Applications: Biotechnology, Bacteriology, Plasma fractionation, Biology, Enzymatic test, Research, Serum studies, metrology, Botany, Phytopharmacy, Cosmetics, Water analysis and Agricultural research.

T range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Pack (u.)	Art. No.
5° to 60°	36	65x60x49	54	1	310	1	0192000961
5° to 60°	80	75x70x59	73	1	310	1	0192000962
5° to 60°	150	95x70x68	94	1	310	1	0192001250

Accessories for PREBATEM

J.P. SELECTA

Accessories must be factory installed.

Description	Pack (u.)	Art. No.
Digital printer for time and temperature with numerical printout on continuous paper roll, with print intervals from 1 minute to 99 hours.	1	0192000016
24 hour programmer with continuous on/off cycling up to every 15 minutes	1	0192000009

For further information, please contact scharlab@scharlab.com

Shelf guides and shelves for PREBATEM J.P. SELECTA

Description	For references	Pack (u.)	Art. No.
Set guides (2 u.)	192000961	1	0192000012
Set guides (2 u.)	192000962	1	0192000013
Set guides (2 u.)	192001250	1	0192000015
Shelves	192000961	1	0192000022
Shelves	192000962	1	0192000023
Shelves	192001250	1	0192000025



CO₂ incubator J.P. SELECTA

CO₂ incubators. Microprocessor control with digital display.

Adjustable temperatures from ambient +5°C to 50°C.
 Stability: ±0,2°C. Homogeneity: ±0,5°C. Resolution: 0,1°C.
 Alarm range: from ambient +5°C to 50°C. Resolution: 0,1°C.
 CO₂ range: from 0 to 20%. Stability: ±0,3%. Resolution: 0,1%.

Safety: standard DIN 12880 class 3.1. Double independent over temperature safety thermostats. CO₂ deviation from set value. Open door indicator. Electrical fault indicator. Low CO₂ pressure.

External case of steel coated with epoxy with insulated chamber. The chamber is made of stainless steel with removable shelf supports and easy clean system. Two doors; one interior of tempered glass with silicone gasket and a heated external steel door with magnetic seal to prevent condensation on the glass door. Smooth door action, to prevent jolts or vibrations disturbing the contents of the incubator. Infrared CO₂ sensor. Chamber sterilization chamber. RS232 interface output for a computer, printer or USB adapter. LCD display of all parameters. Button single control of multilevel functions.
 Power supply: 230 V.

Control system. Digital electronic control of temperature and CO₂ by a single multilevel control button and LCD screen, that controls all functions within the chamber.
 Humidity control. The humidity level within the chamber is at a constant 98% RH level, that is produced directly by water evaporation previously introduced at the bottom of the chamber.

T range (°C)	Volume (l)	Ext. dim. WxHxD (mm)	Weight (Kg)	Doors	Consumption at 37° (W)	Pack (u.)	Art. No.
5° to 60°	150	64x89x60	89	1	800	1	0194002628

Accessories for INCUBATOR J.P. SELECTA

Description	Pack (u.)	Art. No.
Fyrite CO ₂ analyser. Monitor for cheking the CO ₂ % concentration. The unit has a graduated scale of 0 to 20%. Reagent valid for 300 analysis. Should not be used with explosive gasses.	1	0194000632
Printer: temperature, CO ₂ , time and status. (Needs to be factory fitted.)	1	0194001676
Shelves stainless steel	1	0191001675

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Incubator CULTURA M

Small incubator for Petri dishes, dipslides, etc...
 Temperature range: 25 - 45°C.
 Temperature stability: approx. 1°C.
 Materials: PC & ABS. Door made of transparent PC.
 Thermometer in special tube (up to 60°C).
 Includes a removable rack for 18 tubes.
 External dimensions (WxHxD): 310x155x168mm.
 Weight: 1.1kg.

Description	Pack (u.)	Art. No.
CULTURA M incubator	1	000070700R



Jar for anaerobic incubation

Jar of 2,5 liters, for 12 plates with basket. Safety seal.

Description	Pack (u.)	Art. No.
Jar for anaerobic incubation	1	064-AG0P25

Anaerobiosis generator sachets

Do not require a catalyst.

Description	Pack (u.)	Art. No.
Anaerobic atmosphere generator sachets	10	230-096124
Microaerophilic atmosphere generator sachets	10	230-096125
Sachets for capnophilic bacteria	10	230-096126
Anaerobiosis Indicators	50	230-096118



Mini incubator EM4 for slides

Small, lightweight unit, with a transparent cover and handle to ease extraction. Includes a rack of 23 dip-slides. Includes thermometer. Suitable for incubation of dip-slides, Petri dishes, RODAC plates, tubes, etc. Adjustable temperature from ambient +5°C up to +44°C. Dimensions (WxHxD): 23x18x23cm. Weight: 1,5Kg.

Description	Pack (u.)	Art. No.
Mini incubator EM4	1	114-000020

For further information, please contact scharlab@scharlab.com

Mini incubators 4010 and 4020

Due to their compact build, both models require only little space and are therefore very well suited for versatile applications directly on the work-bench. Furthermore, their lift-up, see-through acrylic glass covers permit a clear view of the cultures in the interior cabinet.

Temperature regulation: electrical, microprocessor-controlled.

Temperature setting and display: digital - LED, in 0.1°C increments.

Temperature range: approx. 8°C above ambient to + 60°C.

Temperature constancy (temporal): ±0.2°C.

Soft-touch keys with clear symbols.

The ventilator ensures optimum temperature distribution throughout the cabinet interior.

Over-temperature cut-out: electrical / dependent on the set value, with visual alarm at 4°C above the set value and electro-mechanical > 130°C.



4010



4020

Model	Dim. WxHxD (mm)	Volume (l)	Weight (Kg)	Movement	Pack (u.)	Art. No.
4010	230x170x310	12	9,9	Without movement	1	0000004010
4020	230x140x300	10	11,8	Rotating device	1	0000004020

KJELDAHL

Johan Kjeldahl was a Danish chemist that while studying changes in protein content during the transformation of barley into malt, developed the method for the determination of nitrogen, which later took his name. Due to its high degree of precision, reproducibility and versatility, the Kjeldahl method is used today to determine nitrogen and protein content in chemical substances according to official methods (AOAC, EPA, DIN ISO). The Kjeldahl method is the official method for determining nitrogen and protein content in:

- Food (raw materials and finished products)
- Animal feed
- Soil, fertilizers, etc.
- Sewage, sludge, etc.
- Lubricants, fuel oils, etc.

The Kjeldahl method consists of several phases:

1) DIGESTION

The sample is heated at a high temperature after being mixed with concentrated sulfuric acid and other reagents. A solution of ammonium sulphate is obtained from this reaction.

2) DISTILLATION

The sulfuric acid used for digestion is neutralized using a concentrated solution of sodium hydrate. By adding excess alkali, the equilibrium shifts from ammonium ions to free ammonia (NH₃). Free ammonia is isolated during distillation and transferred to a receiving solution.

3) TITRATION

The ammonia produced can be determined quantitatively by acid base titration (colorimetric, potentiometric, etc.) or other methods. It is then possible to calculate the amount of nitrogen present (% protein).

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DK Kjeldahl digestion units VELP

The first step is the Kjeldahl digestion. The goal is to break down the bonds that hold the polypeptides together and convert them into simpler molecules (such as water, carbon dioxide and ammonia). These reactions can be speeded up by the temperature used during digestion (the higher the temperature used, the faster the digestion can be obtained) and by the presence of acid, salt and catalysts.

During the digestion (Kjeldahl, digestions with nitric acid, sulphuric acid or perchloric acid) corrosive toxic gases such as sulfur dioxide (SO₂) and sulfur trioxide (SO₃) are evolved.

With the objective of neutralizing such gases, VELP Scientifica proposes a dedicated pump, able to aspirate gases and vapours, and a scrubber, to neutralize toxic fumes that are produced during the mineralization process.

DK Kjeldahl digestion unit series is a traditional aluminum block heating digester that offers excellent thermal homogeneity, with a maximum working temperature of 450°C.

The block's temperature is controlled by dedicated microprocessor electronics.

DK Kjeldahl units offer an excellent test precision and repeatability.

It is provided with a wide library with methods, with the possibility to set temperature and time. Through the display it is possible to constantly monitor the digestion process. In compliance with GLP (Good Laboratory Practice), data can be sent to a printer or PC for storage.

DK Kjeldahl digestion unit series should be combined with a proper aspiration pump and fumes neutralization system. VELP suggests the use of the DK Series in combination with JP Pump and SMS Scrubber.

Two JP Pumps are recommended when using DK 42/26. Desired accessories must be ordered when purchase because are not included with the digestion unit.

Power supply: 230 V.

Digestion units

Model	Number of samples	Tube volume (ml)	Ø tube (mm)	Material	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
DK 6	6	250	42	Epoxi stainless steel	1100	16,2	295x462x546	1	043-100182
DK 8	8	250	42	Epoxi stainless steel	1350	21,9	235x566x587	1	0F30100020
DK 20	20	250	42	Epoxi stainless steel	2300	23,4	590x462x655	1	0F30100181
DK 20/26	20	100	26	acero inox. epoxi	1100	18,8	295x462x546	1	0F30100185
DK 42/26	42	100	26	Epoxi stainless steel	2300	37,7	328x585x702	1	0F30100360

Required accessories NOT included with digestion units. Must be purchased separately.



Support system



Sample rack with heat shields



Suction cap



Tubes

Description	For digestion unit	Pack (u.)	Art. No.
Support system	DK 6, DK 6/48, DK 20/26	1	043-111206
Support system	DK 8	1	0A00000064
Support system	DK 20	1	0A00000023
Support system	DK 42/26	1	0A00000190
Sample rack with heat shields	DK 6	1	0A00001111
Sample rack with heat shields	DK 6/48	1	0A00001113
Sample rack with heat shields	DK 8	1	0A00000063
Sample rack with heat shields	DK 20	1	0A00001114
Sample rack with heat shields	DK 20/26	1	0A00001110
Sample rack with heat shields	DK 42/26	1	0A00000180
Suction cap	DK 6	1	043-111096
Suction cap	DK 6/48	1	0A00001101
Suction cap	DK 8	1	0A00000065
Suction cap	DK 20/26	1	0A00109626
Suction cap	DK 42/26	1	0A00000179
Tubes	DK 6, DK 8, DK 20	3	0A00000144
Tubes	DK 6/48	1	0A00001088
Tubes	DK 20/26, DK 42/26	6	0A00000146



DKL automatic Kjeldahl digestion units VELP

The fully auto DKL Kjeldahl digestion unit series is the ideal solution for nitrogen content determination that comes as a ready to use package, including an aluminum heating block (that offers excellent temperature homogeneity, precision and accuracy), an auto lift and auto suction cap, test tubes, sample rack and drip tray.

The innovative DKL incorporates the revolutionary TEMS™ technology for unprecedented savings in terms of time, energy - as much as 35%, money and space.

High-tech but simple to use, a microprocessor controls the block temperature whilst an electronic auto-calibration system ensures excellent reliability and repeatability of analysis.

A practical interface with LCD Graphic Display allows access to all the data including the multi-language library and the 54 programs available, 24 of which are user-programmable.

The Kjeldahl digestion units are extremely compact with a narrow footprint for optimum use of space on the lab bench. In compliance with GLP (Good Laboratory Practice), data can be printed or stored in a PC.

In order to neutralize the fumes produced during the digestion, DKL Kjeldahl digestion unit series should be combined with a proper Aspiration Pump and Fumes Neutralization System. Velp suggests combining DKL Series with JP Pump and SMS Scrubber.

Two JP Pumps are recommended when using DKL 42/26.
Power supply: 230 V.

Digestion units

Model	Number of samples	Tube volume (ml)	Ø tube (mm)	Material	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
DKL 8	8	250	42	Stainless steel with chemical resistant coating	1150	19,7	210x690x540	1	0S30100200
DKL 12	12	250	42	Stainless steel with chemical resistant coating	1500	23,3	266x690x540	1	0S30100190
DKL 20	20	250	42	Stainless steel with chemical resistant coating	2300	30,8	322x690x584	1	0S30100210
DKL 42/26	42	100	26	Stainless steel with chemical resistant coating	2300	33,5	322x690x584	1	0S30100180

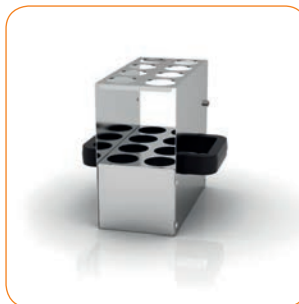
Accessories included with digestion units



Lift



Suction cap



Sample rack



Test tubes

Description	For digestion unit	Pack (u.)	Art. No.
Lift	DKL 8	1	0A00000170
Lift	DKL 12	1	0A00000176
Lift	DKL 20, DKL 42/26	1	0A00000167
Suction cap and drip tray	DKL 8	1	0A00000175
Suction cap and drip tray	DKL 12	1	0A00000174
Suction cap and drip tray	DKL 20	1	0A00000169
Suction cap and drip tray	DKL 42/26	1	0A00000179
Sample rack	DKL 8	1	0A00000173
Sample rack	DKL 12	1	0A00000172
Sample rack	DKL 20	1	0A00000168
Sample rack	DKL 42/26	1	0A00000180
Test tubes Ø 42x300mm, 250ml	DKL 8, DKL 12, DKL 20	3	0A00000144
Test tubes Ø 26x300mm, 100ml	DKL 42/26	6	0A00000146

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JP recirculating water pump

VELP

JP is a recirculating water pump with two different timed mode selection. This ensures optimum aspiration depending on the digestion phases and the number of samples in the digester connected the pump.

Lack of adequate water mains pressure or its high consumption frequently prevent common water pumps from being used.

JP consists of a ABS structure highly resistant to chemical corrosion and a tank where the water introduced is recirculated continuously, offering considerable savings on water.

The premium quality of the materials used makes the instrument extremely quiet, resistant and high performing (from 15 up to 35 l/min).

Special technical devices, such as the level tank for checking the water, the cock for emptying the tank and two convenient handles for handling, help the laboratory technician during use.

Combined with the SMS Scrubber, it provides the ideal complement to achieve highly effective fumes neutralization developed during acid digestions.

Power supply: 230 V.

Model	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
JP pump	160	8,4	250x400x370	1	043-100198



Scrubber SMS

VELP

The SMS Scrubber is designed to neutralize corrosive and toxic fumes produced during oxidative mineralizations or similar processes.

The configuration is based on two stages:

- condensation in a water trap
- neutralization with acids and bases

The instrument can be supplied with a third (optional) stage, generally used with samples that generate high amounts of fumes during digestion (e.g. soybean).

The unit has a broad range of applications, from the Kjeldahl method to neutralization with acids and bases. Thanks to the elevated surface of contact between gas and liquid, the SMS provides effective cleaning of the fumes, preventing their hazardous emission into the laboratory and environment.

The unit attains its maximum effectiveness when combined with the JP Recirculating Water Pump.

Model	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Scrubber SMS	-	3,5	300x500x190	1	043-100199

For further information, please contact scharlab@scharlab.com

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key features**

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- ✓ Perfect traceability
- ✓ Better preservation





UDK 129 Kjeldahl distillation unit VELP

The Kjeldahl distillation unit UDK 129 runs automatically, after setting sodium hydroxide addition and distillation time using the LCD display in order to get reliable and accurate results. The high-precision pumps ensure constant accurate dosing of reagents and the cooling water is automatically stopped during pauses, thus cutting down on its consumption.

The new UDK 129 incorporates the same high level of technology as the top of the range, with the VELP patented steam generator that offers high performance, safety (no pressure inside) and is maintenance-free.

Another unique VELP component is the titanium condenser offering reduced water consumption, ensuring that distillate temperature always remains below the threshold value above which some nitrogen can be lost. The unit works with a technopolymer splash head that ensures durability to protect your investment and requires no maintenance.

The technopolymer housing ensures high resistance to chemicals and long life.

The Kjeldahl distillation unit UDK 129 has numerous safety features in order to provide maximum protection for the user. With a novel design, a lever is used to displace the tube support enabling sample tubes to be inserted without any effort and clamped in place securely. A range of test tube sizes is accepted.

Technologically advanced, the distillation unit UDK 129 includes many features that ensure efficient and reliable distillation, far beyond expectations of an ordinary entry level unit.

The Kjeldahl distillation unit UDK 129 incorporates VELP's revolutionary TEMS™ technology for unprecedented savings in terms of Time, Energy, Money and Space and works in accordance with Official Regulations including AOAC, EPA, DIN and ISO. Test tubes, collecting flasks and clamps included with delivery.

Power supply: 230 V.

Applications:

- Determining ammoniacal nitrogen
- Protein determination
- Nitrogen content (Kjeldahl or direct alkaline distillation)
- Nitric nitrogen (after reduction, Devarda)
- Phenols
- Volatile acids
- Cyanides and alcohol content

Model	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
UDK 129	2100	25	385x780x416	1	0F30200120



UDK 139 semi-automatic Kjeldahl distillation unit VELP

The semi-automatic Kjeldahl distillation unit UDK 139 runs automatically, after setting distillation time, sodium hydroxide and water addition and steam generation output level between 10 and 100% using the innovative 3.5" color touch screen. The high-precision pumps ensure constant accurate dosing of reagents.

Accessing the 10 customizable methods available in 6 different languages is simple and intuitive. The new UDK 139 incorporates a considerably high level of technology, with the VELP patented steam generator that offers high performance, safety (no pressure inside) and is maintenance-free.

Another unique VELP component is the titanium condenser offering reduced water consumption, ensuring that distillate temperature always remains below the threshold value above which some nitrogen can be lost.

The unit works with a technopolymer splash head ensures durability to protect your investment requires no maintenance.

A technopolymer housing ensures high resistance to chemicals used during the operation.

The semi-automatic Kjeldahl distillation unit UDK 139 is specially conceived to provide absolute user protection. With a novel design, a lever is used to displace the tube support enabling sample

tubes to be inserted without any effort and clamped in place securely. A range of test tube sizes is accepted.

In conformity with the GLP (Good Laboratory Practice), the instrument can be connected to a printer in order to print the data concerning the tests in progress and ensure traceability for the samples and system.

The UDK 139 combines excellent value-for-money with high reliability and advanced performance.

The semi-automatic Kjeldahl distillation unit UDK 139 incorporates VELP's revolutionary TEMS™ technology for unprecedented savings in terms of Time, Energy, Money and Space and works in accordance with Official Regulations including AOAC, EPA, DIN and ISO. Test tubes, collecting flasks, clamps, touch pen and protective film for touch screen included with delivery.

Power supply: 230 V.

Applications:

- Determining ammoniacal nitrogen
- Protein determination
- Nitrogen content (Kjeldahl or direct alkaline distillation)
- Nitric nitrogen (after reduction, Devarda)
- Phenols
- Volatile acids
- Cyanides and alcohol content

Model	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
UDK 139	2100	26	385x780x416	1	0F30200130



Automatic steam distillation unit Kjeldahl Pro-Nitro A J.P. SELECTA

For the determination of organic nitrogen (Kjeldahl method). Fully automatic operation from the reagent dosage to the titration. Steam distillation system Kjeldahl, complete with automated "ON-LINE" analysis (evaluation in real time). For systematic precise analysis, with minimum personnel intervention, simple and safe. Adequate for a laboratory with a medium to large throughput of samples. The Kjeldahl steam distillation unit .PRO-NITRO A. evaluates the distillate at the same time as it is produced (evaluation .On-Line.), the evaluation and distillation are completed as one operation, reducing drastically the analysis time. This type of evaluation offers the following additional advantages: detects the point where the sample no longer produces Nitrogen, which means that, the distillation stops at the optimum maximum Nitrogen recovery and does not prolong the analysis longer than necessary. The titration is a colorimetric method and is accepted by AOAC and does not require any periodic calibration.

Features:

- Distillation by steam generation.
 - Automatic .On-line. colorimetric evaluation.
 - Steam generator with safety thermostat, over temperature and over pressure device.
 - Safety, door closed, that prevents distillation if open.
 - Detects that a digestion/distillation tube is present. This prevents the dosing of NaOH if there is no tube located.
 - Universal adapter for MACRO (Ø 42mm) and MICRO (Ø 26mm) distillation tubes.
 - Space saving in the laboratory: the reservoirs for the H₂O, NaOH, Boric Acid and HCl are located inside the unit.
 - Empties the digestion/distillation tubes and the collector automatically.
 - Automatic stop when distillation is complete.
 - Large LCD display of 20 x 4 characters.
 - RS232 output to results printer.
 - Main system made from stainless steel with an ABS plastic front.
- Supplied complete with a MACRO Ø 42mm tube, set of connection tubes, set of reservoirs and 1 litre of Boric acid with indicator, 250ml. of mixed indicator 4.8 and 100 gr. of Sulphate Ammonium.
Power supply: 230 V.

Ext. dim. WxHxD(cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
50x75x50	38	1800	1	0194002430



Steam distillation unit Kjeldahl Pro-Nitro M J.P. SELECTA

For the determination of organic nitrogen (Kjeldahl method). Automatic NaOH dosage and temporize stop. Steam distillation Kjeldahl unit with simple secure systematic analysis. Suitable for small to Medium throughput of samples.

Features:

- Steam distillation system.
 - Compact steam generator with safety over temperature thermostat and over pressure device.
 - Safety door, the system will not operate if the door is open.
 - "Tube in place" sensor: if the tube is not located, the dosing process of NaOH will not take place.
 - Universal adapter for digestion/distillation tubes MACRO (Ø 42mm) and MICRO (Ø 26mm).
 - Small footprint, saves bench top space: The H₂O and NaOH reservoirs are placed within the unit.
 - Stainless steel case with reinforced ABS plastic front. Supplied with a MACRO Ø 42mm tube, set of reagent containers and tubing.
- #### Specifications:
- Measuring range: from 0,2 to 200 mg of Kjeldahl Nitrogen.
 - Programmable distillation time.
 - Nitrogen recovery >99,5%.
 - Distillation speed: from 35-40ml/minute.
 - Typical distillation time: from 7-10 minutes.
 - Water consumption rate: from 80-100 litres/Hr.
 - Steam generator water consumption: 2,5 Litres/ Hr.
 - Water reservoir for steam generator: 6 litres.
 - NaOH reservoir: 2 Litres.
 - Power supply: 230 V.
- #### Alarms:
- Low water level for the steam generator.
 - Safety door open or no distillation/digestion tube in place.
 - Steam generator over temperature.
- #### Automated sequences:
- Open and closure of cooling water to the cooling coil.
 - Automatic load of NaOH once the distillation has started.
 - Select NaOH volume.
 - Stop at the end of the pre-set programmed time.
- #### Additional requirements:
- To complete Kjeldahl Nitrogen analysis a digestion block is also required.

Ext. dim. WxHxD(cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
50x75x50	30	1800	1	0194002627

Accessories for Pro-Nitro distillers

J.P. SELECTA


Digestion and distillation tube, MACRO



Digestion and distillation tube, MICRO



Adapter kit



Ink printer

Description	For model	Pack (u.)	Art. No.
Digestion and distillation tube, series MACRO	For all	1	0194042300
Digestion and distillation tube, series MICRO	For all	1	0194001045
Adapter kit	For PRO NITRO M	1	0194001724
Ink printer	For PRO NITRO A	1	0194120113



Digestion Block Bloc-digest

J.P. SELECTA
Features:

- Minimal sample manipulation
- Uniform heating.
- Capacity to store 20 programs of 4 steps for temperature and time.
- RS-232 port for temperature register and digestion programation from a PC.
- Gas collection system that does not require special water jet pumps.

Supplied complete with:

- 1 metal heater block.
- 1 programmer for time and temperature
- 1 tube support rack
- 1 gas collector
- Digestion tubes.

The digestion bloc is detailed below specially designed to absorb and neutralize vapours generated in the Kjeldahl digestion processes. Composed of a "Scrubber unit" that blocks the passage and neutralizes the condensed acids, and a re-circulating water pump that produces sufficient vacuum to aspirate the vapours. It is essential to put the "Scrubber" unit together with the neutralizer solution between the digestion block and the re-circulating pump.

Model	Number of places	Pack (u.)	Art. No.
BLOC DIGEST 6	6	1	0194000629
BLOC DIGEST 12	12	1	0194000630
BLOC DIGEST 20	20	1	0194000631
BLOC DIGEST M 12	12	1	0194001047
BLOC DIGEST M 24	24	1	0194001048
BLOC DIGEST M 40	40	1	0194001049

Accessories



Water recirculation vacuum pump



Scrubber

Description	Ext. dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Water recirculation vacuum pump (10l/min)	39x44x28	10	1	0194001612
"Scrubber" unit	31x32x16	2	1	0194001611

Spares

Description	Pack	Art. No.
Acid vapours neutralizer solution	3 kg	0194001610

LUMINOMETERS



Lumitester™ PD20 KIKKOMAN

Innovative hygiene monitoring using simultaneous ATP-AMP measurement providing increased sensitivity. The patented procedure used in the Lumitester PD20 is based on the measurement of bioluminescence, produced during the enzymatic decomposition of adenosine triphosphate (ATP) and adenosine monophosphate (AMP) by luciferase and pyruvate phosphate dikinase.

It provides simple, fast and efficient hygiene control without prior enrichment or incubation. Fluid, wet and dry surface control.

Without inhibition by cleaning residues used on surfaces thanks to the Luciferase patented enzyme, tolerant to all detergents.

Small and lightweight.

Detection limit: 10-15 mol/ATP/test

Measurement time: 10 seconds

RLU measurement (relative light unit)

Memory: 2000 results

Data transmission via USB, software based on Excel and easy to handle.

Supplied with: 2 AA alkaline batteries, cleaning brush, tape, instructions manual, CD-ROM with assessment software for PC.

Accessories (purchased separately):

LuciPac™ PEN sterile swab tests for liquids and surfaces and new LuciPac™ Pen-AQUA especially for water samples.

Control kit for system sensitivity by means of a LED control light. Includes: light source swab (positive control), blank swab (negative control), charger, instructions manual and carrying case.

Description	Dim. WxHxD (mm)	Weight (g)	Pack (u.)	Art. No.
Lumitester™ PD20	65x175x32	235	1	0001002653

Supplies and accessories

Description	Pack (u.)	Art. No.
LuciPac™ PEN	100	0001002671
LuciPac™ Pen-AQUA	100	0001002672
Protective bag	1	0001003654

Control Kit

Description	Pack (u.)	Art. No.
Swab Control for Lumitester	1	0001002667

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MELTING POINT

Melting and boiling points M-560/M-565

BÜCHI

Determine melting and boiling points quickly and accurately with either a manual or automatic, real time video instrument.

Choose between a manual or automatic instrument for melting and boiling point determinations.

Temperature range from room temperature up to 400°C.

Large illuminated magnification lens.

Heating block protective coating allows for easy cleaning and extended lifetime.

Compliant with Pharmacopeia methods including PH. Eur. 6.1.2.2.60, USP XXI 741 and JP.

GLP/GMP compliant protocols either with printer.

IQ/OQ available for melting point M-565.

M-560: ready to go: the basic set contains the melting point M-560 instrument, 100 melting capillaries, 10 boiling tubes, 10 boiling capillaries, calibration set M-560/565, sample holder, packing wire and cleaning tool.

- Large magnification lens
- Manual melting and boiling point determination
- Frequency indicator for boiling point determinations
- Fully guided 4 point calibration
- Shorter heat up and cool down times
- Easy to clean front glass panel
- Temperature range between room temperature and 400°C
- Analyze up to 3 samples simultaneously

M-565: ready to go: the Professional Set contains the Melting Point M-565 instrument, the Sample Loader M-569, 100 melting capillaries, 10 boiling tubes, 10 boiling capillaries, calibration set M-560/565, sample holder, packing wire and cleaning tool.

- Fully automatic melting point determination
- Fully automatic boiling point determination
- Real time video displayed in 6x magnification
- Video replay function with variable speed
- Sample loader for reliable packing of melting point capillaries
- Temperature range between room temperature and 400°C
- Optional IQ/OQ documentation and MeltingPoint Monitor software
- Accessories like mini keyboard, serial printer, calibration and verification set, are available on request.

Technical data:

- Determination temperature range: ambient +10°C to 400°C
- Accuracy: ±0,3°C (up to 250°C) and ±0,5°C (up to 400°C)
- Heat-up time: approx. 4min from 50 to 350°C
- Cool-down time: approx. 13min from 350 to 50°C
- Dimensions (WxHxD): 190x200x370mm
- Weight: 4,5kg
- Interface: USB
- Power supply: 240 V.



M-560



M-565

Type	Description	Pack (u.)	Art. No.
M-560	Manual determination	1	184-051999
M-565	Automatic determination, including camera and Sample Loader M-569	1	184-051998

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Melting point measuring units MPM-H KLEINFELD

For measuring the melting point of powdery substances in glass capillaries.

- Digital temperature control.
- Membrane keyboard allows for easy cleaning.
- Plain text display for error message.
- Sample monitoring via illuminated lens.
- Automatic rapid cooling via integrated ventilator.
- With quick user's guide on unit (German/English).

- Multi-function unit semi/fully automatic MPM-HV 2: with printer. 2 selectable measuring methods (visual or automatic) for independent testing of problem substances without transparent melting point or with discoloration. Fully automatic measurement: set desired temperature (approx. 3°C below expected melting point). A filled capillary is inserted once the preset temperature has been reached. The unit then continues to heat to the melting point and automatically starts printing the transparency

progression of the substance.

- Semi-automatic MPM-H 2: semi-automatic melting point measuring unit without printer. A filled capillary is inserted once the preset temperature has been reached, visual inspection of capillary via magnifier. After pressing the 'start' key again, the unit will continue to heat at 1°C / min. As soon as sample has melted, the value can be read on the display.

- Semi-automatic MPM-H 2/D: like semi-automatic MPM-H 2, however with printer.
Supplied with 100 melting point capillaries.

Technical data:

Measuring range: 25,0 to 360,0°C

Resolution: 0,1°C

Accuracy: ±0,5°C (+25 to +200°C)

Heating rate during rapid heating: approx. 4min to 200°C; approx. 8min to 350°C

Heating rate during measurement: 1°C/min

Magnifier: 10-times

Light: 2xLED

Dimensions (WxDxH): 230x220x280mm

Weight: 4kg

Mains supply: 115 to 230V, 50Hz

Equipments

Model	Printer	Automatic	Pack (u.)	Art. No.
MPM-HV 2	Yes	Yes	1	0000001214
MPM-H 2	No	Semi	1	0000001215
MPM-H 2/D	Yes	Semi	1	0000001216

Capillaries

Description	Pack (u.)	Art. No.
Capillary test tubes, 1,4mm, one end closed	100	0009830204



Capillary tubes

Clear glass.

Several diameters and lengths.

Special versions are available on request.

Type	Length (mm)	Ø int. (mm)	Ø ext. (mm)	Pack (u.)	Art. No.
Both ends open	70	0,8	1	1.000	6709201070
Both ends open	80	0,8	1	1.000	6709201080
Both ends open	150	0,8	1	1.000	6709201015
Both ends open	100	1,15	1,55	1.000	6709201510
One end closed	75	0,95	1,35	1.000	6709211375
One end closed	75	1,15	1,55	1.000	6709211575
One end closed	100	1,15	1,55	1.000	6709211510

For further information, please contact scharlab@scharlab.com

MICROSCOPES



Biological Microscope MOTIC BA210 Elite (Basic) MOTIC

- Binocular or Trinocular head Siedentopf type, 30° inclined, 360° rotating (Light split 100:0/20:80).
- Widefield high eyepoint eyepieces N-WF10X/20mm with diopter adjustment on both eyepieces and rubber eyecups.
- Reversed quadruple revolving nosepiece.
- CCIS Plan achromatic objectives EC PL 4X, 10X, 40X S, 100X S-Oil.
- Coaxial coarse and fine focusing system with tension adjustment.
- Built in low position coaxial rackless mechanical stage (Right hand control).
- Focusable Abbe condenser N.A. 1.25 with iris diaphragm and slot.
- Quartz halogen illumination 6V/30W with intensity control.
- Power supply 100V-240V (CE).
- 45mm blue filter, immersion oil (5ml), power cord, Allen hexagonal key, thumb screw, vinyl dust cover.

Model	Pack (u.)	Art. No.
BA210E Binocular	1	0100402593
BA210E Trinocular	1	0100402423

Accessories

Model	Pack (u.)	Art. No.
0.5X C-mount camera adapter for 1/3" and 1/2" chip sensors	1	1001901791
LED module 6V/3W 6000°K +/-300°K	1	1001904061



Biological Microscope MOTIC BA310 Elite (Advanced) MOTIC

- Binocular or Trinocular head Siedentopf type, 30° inclined, 360° swiveling, 360° rotating (Light split 100:0/20:80).
- Widefield high eyepoint eyepieces N-WF10X/20mm with diopter adjustment on both eyepieces and rubber eyecups.
- Reversed quintuple revolving nosepiece.
- CCIS Plan achromatic objectives EC PL 4X, 10X, 40X S, 100X S-Oil.
- Coaxial coarse and fine focusing system with tension adjustment.
- Built in low position coaxial rackless mechanical stage (Right-hand control).
- Focusable Abbe condenser N.A. 0.90/1.25 with iris diaphragm and slot.
- Koehler illumination quartz halogen 6V/30W with intensity control.
- Power supply 100V-240V (CE).
- 45mm blue filter, immersion oil (5ml), power cord, Allen hexagonal key, thumb screw, vinyl dust cover.

Model	Pack (u.)	Art. No.
BA310E Binocular	1	0100402433
BA310E Trinocular	1	0100402443

Accessories

Model	Pack (u.)	Art. No.
0.5X C-mount camera adapter for 1/3" and 1/2" chip sensors	1	1001901791
LED module 6V/3W 6000°K +/-300°K	1	1001904061
Epi-LED Fluorescence Accesories		
Epi-LED Fluorescence attachment - AO filter cube "Ex.470Sp - Di.480DRLP - Ba.485LP" (Required Microscope BA310E)	1	1001902924
Epi-LED Fluorescence attachment- FITC filter cube "Ex.480/30X - Di.505DCLP - Ba.535/40m" (Required Microscope BA310E)	1	1001902923
Epi-LED Fluorescence attachment- MB filter cube "Ex.470/37 - Di.505LP - Ba.515LP" (Required Microscope BA310E)	1	1001902925

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BA310E | ADVANCED BIOLOGICAL MICROSCOPE

New generation of EC-Plan Achromat objectives

Rackless stage concept without prominent gear rack interference

Full interchangeability between halogen (6V/30W) and LED light sources

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Biological Microscope MOTIC BA410 Elite (Professional)

MOTIC

- Binocular or Trinocular head Siedentopf type 30° inclined, 360° rotating (Light split 100:0/20:80).
- Widefield high eyepoint eyepieces N-WF 10X/22mm with diopter adjustment and rubber eyecups.
- Reversed coded sextuple nosepiece.
- CCIS Plan achromatic objectives EC-H PL 4X, 10X, 40X S, 100X S-Oil.
- Coaxial coarse and fine focusing adjustment.
- Built in low position rackless stage with ceramic insert and right hand control.
- Achromat swing-out condenser N.A. 0.90/0.13 with iris diaphragm.
- Koehler illumination quartz halogen 12V/50W with external lamp house and intensity control.
- Auto-OFF and Light Memory function.
- Power supply 100V-240V (CE).
- 45mm blue filter, clear glass, immersion oil (5ml), power cord, allen hexagonal key, vinyl dust cover.

Model	Pack (u.)	Art. No.
BA410E Binocular Sextuple 50W	1	0100402972
BA410E Trinocular Sextuple 50W		0100402982

Accessories

Model	Pack (u.)	Art. No.
0.5X C-mount camera adapter for 1/3" and 1/2" chip sensors	1	1001901791

Accessories Phase Contrast

CCIS Plan achromatic Phase objective EC-H PL Ph 10X/0.25 (WD=17.4mm) + (BA310E&BA410E Compatible)	1	1001702911
CCIS Plan achromatic Phase objective EC-H PL Ph 20X/0.45 (WD=0.9mm) + (BA310E&BA410E Compatible)	1	1001702921
CCIS Plan achromatic Phase objective EC-H PL Ph 40X/0.65/S (WD=0.5mm) + (BA310E&BA410E Compatible)	1	1001702931
CCIS Plan achromatic Phase objective EC-H PL Ph 100X/1.25/S-Oil (WD=0.15mm) + (BA310E&BA410E Compatible)	1	1001402441
Phase contrast 5 position (BF, DF, PH1, PH2, PH3) turret condenser (BA310E&BA410E Compatible)	1	1001903141

NOTE: For EF-UPR Epi-Fluorescence Accessories please contact scharlab@scharlab.com



Industrial Microscope MOTIC BA310 MET (Materials & Microstructures)

MOTIC

- Binocular or Trinocular head Siedentopf type, 30° inclined, 360° swiveling, (Light split 100:0/20:80).
- Widefield high eyepoint eyepieces N-WF10X/20mm with diopter adjustment on both eyepieces and rubber eyecups.
- Reversed quintuple revolving nosepiece.
- CCIS LM Plan achromatic objectives LM PL 5X, 10X, 20X, 50X.
- Coaxial coarse and fine focusing system with tension adjustment.
- Stroke 3"x2" stage with a 75x50mm range and a stage area 240x140mm with glass plate.
- Focusable Abbe condenser N.A. 0.85 with iris diaphragm.
- Epi-illuminator 12V/50W quartz halogen with integrated field and aperture diaphragms and external lamp house.
- Power supply 115-230V (CE).
- Transmitted Koehler illumination (BA310 MET T Version Only) quartz halogen 6V/30W with intensity control.
- Power supply 100-240V (CE).
- 45mm blue filter, 32mm blue, yellow and frosted filters, power cord, Allen hexagonal key, vinyl dust cover.

Model	Pack (u.)	Art. No.
BA310 MET Binocular (Epi-illuminator)	1	0100402141
BA310 MET Trinocular (Epi-illuminator)	1	0100402042
BA310 MET-T Binocular (Epi-illuminator & Transmitted illuminator)	1	0100402501
BA310 MET-T Trinocular (Epi-illuminator & Transmitted illuminator)	1	0100402603

Accessories

Model	Pack (u.)	Art. No.
0.5X C-mount camera adapter for 1/3" and 1/2" chip sensors	1	1001901791
CCIS LM Plan achromatic objective LM PL 100X/0.8 (WD=2mm)	1	1001704512
Polarizer	1	1001902441
Analyzer	1	1001902431

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Biological Inverted Microscope MOTIC AE2000 "Phase Contrast 10X & 20X" (Advanced)

MOTIC

- Binocular or Trinocular head Siedentopf type 45° inclined, 360° swiveling (Light split 100:0/20:80).
- Widefield high eyepoint eyepieces N-WF 10X/20mm with diopter adjustment and rubber eyecups.
- Side facing quadruple nosepiece.
- CCIS Plan achromatic objectives PL 4X, LWD PL 40X.
- CCIS Plan achromatic Phase objectives PL Ph 10X, LWD PL Ph 20X.
- Coaxial coarse and fine focusing adjustment.
- Hard coated stage with metal and glass stage inserts.
- ELWD condenser N.A. 0.30.
- Phase slider Ph1, BF.
- Phase centering telescope.
- Halogen illumination 6V/30W with intensity control and sleeping mode.
- Power supply 100V-240V (CE).
- 45mm blue, green interference and neutral density filters with filter slider, Allen hexagonal key,

vinyl dust cover, power cord.

Model	Pack (u.)	Art. No.
AE2000 Binocular	1	0103800043
AE2000 Trinocular	1	0103800054

Accessories

Model	Pack (u.)	Art. No.
0.5X C-mount camera adapter for 1/3" and 1/2" chip sensors	1	1001901791
CCIS Plan achromatic Phase objective LWD PL Ph 40X/0.5 (WD=3.0mm) Ph1	1	1001703112
LED module 6000°K +/-300°K	1	1000201561



Biological Inverted Microscope MOTIC AE31E "Phase Contrast 10X, 20X 40X" (Professional)

MOTIC

- Binocular or Trinocular head Siedentopf type, 45° inclined (Light split 100:0/20:80).
- Widefield high eyepoint eyepieces WFPL10X/22mm with diopter adjustment on both eyepieces and rubber eyecups.
- Side facing quintuple nosepiece.
- CCIS Plan achromatic objective PL 4X.
- CCIS Plan achromatic Phase objective PL Ph 10X, LWD PL Ph 20X, LWD PL Ph 40X.
- Coaxial coarse and fine focusing adjustment .
- Hard coated stage with metal and glass stage inserts.
- ELWD condenser N.A. 0.30 (WD 72mm).
- Phase slider Ph1 and brightfield.
- Phase centering telescope.
- Koehler illumination quartz halogen 6V/30W with external lamp house and intensity control.
- Power supply 100V-240V (CE).
- 45mm blue, ground glass and green interference filters, Allen hexagonal key, vinyl dust cover and power cord.

Model	Pack (u.)	Art. No.
AE31E Binocular	1	0100200565
AE31E Trinocular	1	0100200576

Accessories

Model	Pack (u.)	Art. No.
0.5X C-mount camera adapter for 1/3" and 1/2" chip sensors	1	1001901791
LED module 6000°K +/-300°K	1	1000201561
EF-INV Epi-Fluorescence Accesories		
Complete Epi-Fluorescence attachment for AE (Mercury Lamp HBO 100W) - (Required Microscope AE31E)	1	1000202182
DAPI and Hoechst set (Filter)	1	1000200122
FITC/RSGFP/Fluo 3/DIO Acradine orange(+rRNA) set (Filter)	1	1000200132
TRITC (Rhodamine)/Dil/Cy3 set (Filter)	1	1000200142
Texas Red/Cy3.5 set (Filter)		1000200152

For further information, please contact scharlab@scharlab.com



SMZ161 Binocular Stereomicroscope
MOTIC

Basic. The new Motic stereomicroscope is designed for satisfying the most demanding user applications due to its modular configuration and versatile accessories. It includes ESD components which are in high demand in industry. Its Greenough optical system comes with a large zoom range of 1:6, parfocal at all magnifications which enables precise tridimensional reproduction of the samples throughout the course of the zoom. It has a working distance of 110mm in its standard configuration. The SMZ161 allows easy access and manipulation of the sample.

- Greenough optical zoom system
- Binocular head, 45° viewing angle, 360° rotation
- Widefield high eyepoint, WF10X/20mm
- Zoom ratio 1:6, WD=110mm
- Magnification range: 0.75X-4.5X
- R2LED: column base and head-holder
- Coaxial coarse and fine focusing system with tension adjustment
- 3W LED Incident light and transmitted light with intensity control

- Universal power supply 100V-240V
- Black / white and frosted glass stage plates and protective case

Model	Pack (u.)	Art. No.
SMZ161	1	0201300062



SMZ171 Trinocular Stereomicroscope
MOTIC

Advanced. The new SMZ171 Motic's stereomicroscope introduces improved optical quality and new materials for ESD compatibility and optimal LED illumination. All these characteristics ensure a versatile stereomicroscope for a wide range of biological and material science applications. Its Greenough optical system comes with a large zoom range of 1:6.7, parfocal at all magnifications which enables precise tridimensional reproduction of the samples throughout the course of the zoom. It has a working distance of 110mm in its standard configuration. Allows easy access and manipulation of the sample.

- Greenough optical zoom system
- Trinocular head, 45° viewing angle, 360° rotation
- 100: 0 (eyetubes), 0: 100 (right eyetube / trinocular tube) optical split.
- Widefield high eyepoint, WF10X/23mm with diopter adjustment
- Zoom ratio 1:6.7, WD=110mm
- Magnification range: 0.75X-5X
- Large working area stand with head holder.
- Coaxial coarse focusing system with tension adjustment

- 3W LED individual bulb for incident / transmitted illumination, adjustable intensity control
- Transmitted with swiveling reflector (sideways illumination)
- Has a source of light guide for flexible illumination
- Universal power supply 100V-240V
- Black / white and frosted glass stage plates and protective case

Model	Pack (u.)	Art. No.
SMZ171	1	0200600766

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Moticam Digital Cameras

MOTIC

- Attachable digital C-mount camera.
- Sensor: CMOS.

Moticam 1SP

- Optical calculation: 1/3"
- Live resolution: 1.3MP (1280x1024 pixels)

Moticam 3

- Optical calculation: 1/2"
- Live resolution: 3MP (2048x1536 pixels)

Moticam 5

- Optical calculation: 1/2,5"
- Live resolution: 5MP (2592x1944pixels)

Moticam 10

- Optical calculation: 1/2,5"
- Live resolution: 10MP (3664x2748pixels)

Output: Attachable USB 2.0

Focusable lens: 16mm

2 variable diameter eyepiece adapters

Macrotube for specimen observation

Software Motic Images Plus 2.0 for PC and Mac (capture, video, live scale, live grid and measurements)

Motic 4-dot calibration slide

Operation system: Windows XP and higher, Mac OSX



Moticam1SP

Moticam 3

Moticam 5

Moticam 10

Model	Pack (u.)	Art. No.
Moticam 1SP	1	0600100641
Moticam 3	1	0600100621
Moticam 5	1	0600100631
Moticam 10	1	0600100661

* Special digital cameras for fluorescence Peltier cooled 'Check'.



Digital Camera Moticam 580 HD connect it directly to an HD TV or Beamer (Special for Microscopy)

MOTIC

- Attachable HDMI C-mount camera.
- Sensor: CMOS.
- Live resolution: 800x600 pixels USB (1280x960 extrapolated).
- Still resolution: 5.0MP onto SD card.
- Optical calculation: 1/2,5".
- Output: USB 2.0, HDMI 1080p, RCA and SD card slot.
- Remote control.
- Focusable lens: 12mm.
- 2 variable diameter eyepiece adapters.
- Macrotube for specimen observation.
- Motic Images Plus 2.0 for PC and Mac.
- Motic 4-dot calibration slide.
- Operation system: Windows XP and higher, Mac OSX.
- Power supply 100V-240V (CE).

Model	Pack (u.)	Art. No.
Moticam 580	1	0600100673

For further information, please contact scharlab@scharlab.com



Digital Microscopy Station MOTIC BA310E & Moticom 580INT (Screen 10" Display HD Images and capture 5MP on SD Card)

MOTIC

- BA310E Binocular (see configuration) with Moticom 580INT.

Moticom 580 INT

- Intermediate camera for Moticom BA Series microscope.
- Sensor: CMOS.
- Live resolution: 800x600 pixels USB (1280x960 extrapolated).
- Still resolution: 5.0MP onto SD card.
- Optical calculation: 1/2,5".
- Output: USB 2.0, HDMI 1080p, RCA and SD card slot.
- Attachable 10" TFT monitor with HDMI input.
- Remote control.
- Moticom Images Plus 2.0 for PC and Mac.
- Moticom 4-dot calibration slide.
- Operation system: Windows XP and higher, Mac OSX.
- Power supply 100V-240V (CE).

Model	Pack (u.)	Art. No.
BA310E Binocular	1	0100402433
Moticom 580 INT	1	1001904221

MILLS



PULVERISETTE 2 mortar grinder FRITSCH

The careful grinding inside the FRITSCH PULVERISETTE 2 mechanical mortar operates using pressure and friction. Ideal for universal fine grinding of hard-brittle to soft samples, dry or in suspension, as well as for preparing and homogenising pastes and creams on a laboratory scale.

The PULVERISETTE 2 is an essential instrument in the chemical / pharmaceutical as well as in food processing laboratories.

The mortar grinder is easy to clean which ensures reproducible and precise grinding results, due to precise adjustment and pestle pressure readout.

Also working with liquid nitrogen for cooling / embrittlement is no problem.

Mortar and pestle must be ordered additionally.

Technical data:

- Max. feed particle size: 8mm
- Max. feed quantity: up to 190ml
- Final fineness: 10 to 20µm
- Dimensions (LxDxH): 310x460x410mm
- Weight: 24kg
- Mains supply: 100 to 120/200 to 240V/1~/250W

Grinding sets are also available in sintered corundum, zirconium oxide, hardmetal tungsten carbide and tempered steel.



Type	Material	Pack (u.)	Art. No.
PULVERISETTE 2 mortar	-	1	0000022000
Grinding set	Hard porcelain	1	0000462110
Grinding set	Stainless steel	1	0046214000
Grinding set	Agate	1	0004600500

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A 11 basic analytical mill

IKA

Loading mill for two different grinding procedures.

- **Impact grinding of hard, brittle and fragile** by using a stainless steel mixer. This beater can be used for a Mohs hardness of 6 (included in delivery).
- **Cutting grinding for pulverizing soft, fibrous materials** with a cutting blade (not included in delivery).

The wet and sticky loads may crumble by adding water.

Container Tefzel (ETFE, glass fiber reinforced) with stainless steel inlet (AISI 316L), useful volume of 80ml (included in delivery), which allows mixing grinding materials with liquid nitrogen directly into the grinding chamber. Vessel with a working volume of 250ml available optionally

Technical data:

- Power consumption motor 160W
- Power supply motor 100W
- Circumferentially Max. 53 m/s
- Sound Product max. 6mohs
- Material beater/blade stainless steel 1.4034
- Sub milling item stainless steel 1.4571
- Weight 1.5 Kg
- Permissible ambient temperature 5-40°C
- Permissible relative humidity 80%
- Power supply: 220-230 V.

Mill. A 11.1 beater included



Model	Nominal speed (min ⁻¹)	Max. granularity (mm)	Effective chamber volume (ml)	Pack (u.)	Art. No.
A 11 basic	28000	10	80	1	0222900000

Accessories



A 11.1



A 11.6



A 11.7



A 11.2



A 11.3



A 11.4



A 11.5

Description	Pack (u.)	Art. No.
Beater A 11.1, stainless steel for materials up to 6 Mohs	1	0222904600
Double beater A 11.6 for materials up to 3 Mohs (only for grinding chamber A 11.4)	1	0223302900
Funnel A 11. Avoid splashing by pouring liquid nitrogen into the grinding chamber A 11.5	1	0223048700
Blade A 11.2, stainless steel for soft, fibrous materials	1	0222905200
Beater A 11.3, stainless steel. Chromium carbide coated, for materials up to 9 Mohs	1	0222983000
Grinding chamber A 11.4, only with double beater A 11.6. Nitrogen not allow. Net volume 250 ml	1	0222904100
Grinding chamber A 11.5, Tefzel, chemical resistance and at low temperatures (-200°C). Net volume 80ml	1	0222983100

For further information, please contact scharlab@scharlab.com

M 20 universal mill

IKA

Batch mill suitable for dry grinding of hard and brittle substances. Two grinding chambers can be alternately operated using one drive.

- Double-walled grinding chamber, can be cooled with water through two hose adapters.
- Removable grinding chamber, easy to clean.
- Cutter M 21 blade included in delivery.

Technical data:

Motor rating - input/output: 620/260W

Circumferential speed: 72 m/s

Overload protection: current limitation

Material - grinding chamber / cover: stainless steel (AISI 304)

Duty cycle ON/OFF (with cooling): 7 min/10 min

Dimensions (WxDxH): 170x170x350mm

Weight: 6.6kg

Mains supply: 230V, 50/60Hz (115 V on request!)

Protection class acc. to DIN EN 60529: IP 21

Mill. M 21 blade included



Model	Max. speed (min ⁻¹)	Max. feed grain size (mm)	Usable volume (ml)	Pack (u.)	Art. No.
M 20	20000	6 to 7	250	1	0221603600

Accessories



M 21



M 22



M 23



M 20.1

Description	Pack (u.)	Art. No.
M 21 Spare cutter, stainless steel. Suitable for crushing materials up to Mohs hardness 5.	1	0220328200
M 22 Hard metal cutter. Made of tungsten carbide for hard materials up to Mohs hardness 9	1	0220521800
M 23 Star-shaped cutter, stainless steel. Used to crush fibrous substances	1	0221443400
M 20.1 Grinding chamber	1	0228006200

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MF 10 basic microfine grinder drive
IKA

Continuously operating universal grinder.
 - Powerful drive
 - Easy to clean working surface made of stainless steel
 - Two different grinding heads can be attached to the drive
 - Heads are easily changeable

Technical data:
 Motor rating - input/output: 1000/500W
 Materials in contact with medium: stainless steel (AISI 316L)
 Dimensions (WxDxH): 320x300x380mm
 Weight: 9,7kg
 Mains supply: 230V, 50/60Hz (115V - on request!)
 Circumferential speed: cutting-grinding head: 22.5m/s; impact grinding head: 31,4m/s
 Duty cycle ON/OFF: 120/30min
 Overload protection: yes
 Protection class acc. to DIN EN 60529: IP 22

Grinding heads NOT included with delivery.
 - MF 10.2 impact grinding head is used for crushing brittle, hard materials such as minerals, building materials up to Mohs hardness 6
 - MF 10.1 cutting-grinding head for crushing fibrous substances such as paper and vegetation, but also for plastics and material with a low volume weight
 With both heads, before being discharged, the ground material passes through a sieve. This sieve is interchangeable and available in different hole sizes (not incl. with delivery). The ground material can then be collected using an NS 29 standard ground vessel.

Equipment (Grinding heads not included)



Model	Speed (min ⁻¹)	Material in contact with environment	Pack (u.)	Art. No.
MF 10 basic	3000 to 6500	Stainless steel (AISI 316L)	1	0222836000

Heads



MF 10.1



MF 10.2

Model	Max. gran. (mm)	Circumf. speed (m/s)	Material in contact with environment	Pack (u.)	Art. No.
MF 10.1 Cutting-grinding head	15	22,5	Stainless steel (AISI 304, AISI 440B, AISI 316L)	1	0222870900
MF 10.2 Impact grinding head	10	31,4	Stainless steel (AISI 304, AISI 316L)	1	0222871000

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Sieves



Ø hole (mm)	Pack (u.)	Art. No.
0,25	1	0222938900
0,5	1	0222939000
1	1	0222939200
2	1	0222939400
3	1	0222939500



Tube mill control
IKA

Disposable grinding tube system for safe, instant and precise milling results. Its unique and compact design makes the unit space saving and ultra-portable. The disposable grinding chamber eliminates the possibility of cross-contamination and saves on cleaning costs and time. The ability to cool the sample with dry ice expands the application range enormously. After grinding, a part of the sample will be analysed. The remaining sample can either be discarded or it can be stored as a reference sample directly in the grinding chamber. In the later case, grinding chambers can be labelled and either stored in a refrigerator or in a drying room. Reference samples can be re-analysed and traced at any time.

- Disposable grinding chamber.
- No cleaning of the tube system is required, the user is safe from aerosol formation that frequently occurs during cleaning procedures.
- Quiet operation.
- Clearly arranged, multi-lingual OLED display, error Art. No. display.
- High level of user safety.
- Easy operation with touch keypad.
- Adjustable safety speed and time.
- USB interface to control and document all the parameters and for updating the firmware.

Technical data:

- Process type: batch
- Operating principle: impact
- Motor rating input/output: 175/123W
- Speed range: 5000 to 25000min⁻¹
- Speed display: digital
- Useful volume: 40 ml
- Duty cycle (ON/OFF): 5s to 5min (timer)
- Circumferential speed: 65 m/s
- Max. feed hardness: 5 Mohs
- Max. feed grain size: 10mm
- Dimensions (WxDxH): 180x300x170mm
- Weight: 2.7kg
- Permissible ambient temperature: 5 to 40°C
- Permissible relative moisture: 80%
- Power supply: 220-240 V.

Description	Pack (u.)	Art. No.
Tube Mill control	1	0224180000
MT 40 disposable grinding camera	10	0224178500

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GRINDOMIX GM 200 knife mill RETSCH

The new knife mill GRINDOMIX GM 200 is the ideal instrument for grinding and homogenizing foods and feeds. It allows to process sample volumes up to 0.7 liters quickly and reproducibly. With two sharp, robust blades and a powerful motor, it is ideal for homogenizing substances with a high water, oil or fat content as well as for grinding dry, soft and medium-hard products. A wide selection of lids and containers allows for adaptation of the mill to individual application requirements. The GRINDOMIX GM 200 meets and exceeds all special laboratory and analytical requirements and is a professional device superior to any commercial household mixer.

Advantages:

- efficient size reduction of up to 700ml feed quantity due to a powerful 900W motor
- pre- and fine-grinding in one mill: cutting action in regular mode, grinding by impact in reverse mode, pre-grinding in interval mode
- all parts which come into contact with the sample material are autoclavable
- perfect adaptation to application requirements by variable speed from 2.000 to 10.000 min⁻¹ with an increment of 100 min⁻¹
- optional gravitation lid for automatic reduction of the grinding chamber volume
- 3 SOPs can be stored
- grinding jar in plastic, stainless steel and glass available

Technical data:

- Material feed size: 40mm
- Final fineness: < 300µm
- Batch size/feed quantity with standard lid 700ml (with reduction lid 300ml; with gravity lid 300-600ml)
- Grinding chamber volume with standard lid 1000ml (with reduction lid 500ml; with gravity lid 400-800ml)
- Speed at 50 Hz (60 Hz) digital: 2.000-10.000 min⁻¹
- Dimensions WxHxD: closed 350x275x392mm; opened: 350x410x553mm
- Net weight: 10kg

Equipment

Model	Feed size (µm)	Final fineness (µm)	Pack (u.)	Art. No.
GRINDOMIX GM 200	< 300	< 40	1	0202530001

Accessories



Type	Description	Pack (u.)	Art. No.
Grinding container 1l	Autoclavable plastic	1	0030450057
Grinding container 1l	PP	1	0030450047
Grinding container 1l	Glass	1	0030450046
Grinding container 1l	Stainless steel	1	0030450050
Standard lid	PP	1	0031070309
Reduction lid for chamber reduction to 0,5l	PP, for grinding containers of autoclavable plastic/PP	1	0031070310
Gravidity lid	PP, for grinding containers of autoclavable plastic/PP	1	0021070327
Gravidity lid with overflow channels	PP, for grinding containers of autoclavable plastic/PP	1	0021070323
Gravidity lid	PP, for grinding containers of glass/stainless steel	1	0021070328
Gravidity lid with overflow channel	PP, for grinding containers of glass/stainless steel	1	0021070308
Scraper	-	1	0057230001
Knife	Of pure titanium for grinding without heavy-metal contamination	1	0024460048
IQ/OQ Documentation	-	1	0992000010

For further information, please contact scharlab@scharlab.com

MOISTURE ANALYZERS


BDS

**Moisture analyzer DBS
KERN**

Modern moisture analyser with 10 memories and graphic display

Features:

- Halogen quartz glass heater 400W
- Backlit LCD display, digit height 14mm
- Previous drying time
- Current temperature
- Unit for displaying the results
- Current moisture content in%
- Drying mode/Status display drying
- Observation window over the sample, useful during initial adjustment
- Internal memory for automatic sequence of 10 drying programs and 100 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- Sample description for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- 10 sample plates included
- Table of applications: There are many practical examples in the operating instructions
- Power supply: 220-240V

Analyzer

Model	Readability (g)	Capacity (g)	Reproducibility	Calibration	Pack (u.)	Art. No.
DBS 60-3	0,001	60	0,15%/0,02%	External	1	315DBS60-3

Accessories

Description	Pack (u.)	Art. No.
DBS-A01 Temperature calibration set consisting of measuring sensor and display device	1	000DBS-A01
DBS-A02 USB interface cable	1	000DBS-A02
Paper rolls for Printer	1	315911-013
Thermal receipt rolls for Printer	1	315YKB-01N
Sampe plates (aluminium), Ø 92mm	80	315MLB-A01
Round fiberglass filter e.g. for samples that splash or become encrusted	80	315-RH-A02

MUFFLE FURNACES

**Select-Horn electric muffle furnace
J.P. SELECTA**

Controllable temperatures up to 1150°C. Set accuracy: $\pm 1^\circ\text{C}$ of the set value. Resolution: 1 digit.

Digital electronic controller for temperature and time that has the possibility to program a slope of 8 segments or two slopes of 4 segments. Probe break disconnects the power to the furnace automatically. Microswitch that disconnects the power of the heater elements when the door is open. Flip door that can also be used as a support tray and user protected from the hot internal surface.

Interior chamber constructed from high quality lightweight refractory bricks, with a high alumina content with no asbestos or iron oxide. Evenly distributed exceptional long life heating elements, annealed frequently at a high fusion point. Excellent thermal insulation made from Ceramic fibre or low density and thermal conductivity.

Low consumption with maximum performance.

Rapid temperature recovery after the door has been opened. Flap door with easy to change components.

Support tray made from special steel used as a base to support assay material.

- Power supply: 220-240V

Model	Volume (l)	Ext. dim. WxHxD (cm)	Int. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
Select-Horn	3,6	54x52x56	15x10x24	54	2500	1	0192000366
Select-Horn	9	59x58x65	20x15x30	70	3000	1	0192000367

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Laboratory chamber furnaces with ceramic muffle

THERMCONCEPT

- T max 1000°C, 1100°C and 1150°C.
- Chamber furnaces with integrated ceramic muffle, high mechanical and chemical resistance.
- Furnaces designed especially and recommended for ambitious laboratory applications with aggressive waste gases.
- Delivery including ceramic muffle.
- Heating elements wound around outside the ceramic muffle, heating on all 4 sides for high temperature uniformity inside the chamber.
- Heating elements protected against aggressive waste gases atmospheres.
- Heating elements controlled by solid state relays for very precise temperature control, wear-free and noiseless.
- Exhaust pipe in the rear wall.
- KLS 07/11/M with double-walled housing and rear ventilation to ensure low outercasing temperatures, parallel-guided door moving up-wards with hot insulation surface to the rear, away from operator, insulation made of high grade ceramic fibre with low thermal mass, collar made of fire bricks to ensure high wear resistance against mechanical stress.
- KLS 03/10/M and KLS 02/11/M with userfriendly swing door with multilayer insulation made of high grade fibre.



Model	Max. T (°C)	Int. dim. WxHxD (mm)	Ext. dim. WxHxD (mm)	Volume (l)	Power (kW)	Voltage (V)	Weight (Kg)	Pack (u.)	Art. No.
KLS 03/10/M	1000	140x200x110	320x350x410	3	1,5	230 V 1/N	20	1	00KLS0310M
KLS 02/11/M	1000	100x140x100	320x350x410	2	1,5	230 V 1/N	20	1	00KLS0211M
KLS 07/11/M	1150	210x280x110	550x580x650	7	2,7	230 V 1/N	60	1	00KLS0711M

Tube furnace in **page 959**



For further information, please contact scharlab@scharlab.com

Muffle furnaces
THERMCONCEPT

- T max 1100°C and 1200°C.
- Universal muffle furnaces for ambitious laboratory applications.
- Compact design for minimum space requirements.
- Powder coated steel casing, long service life, extremely resistant.
- Resistant fibre module as inner chamber, high mechanical durability, short heating cycles, low power consumption.
- High-quality heating elements, long service life.
- Heating wire embedded in ceramic plates with good protection against damages, service-friendly and cost-effective.
- Heating elements controlled by solid state relays for very precise temperature control, wear-free and noiseless.
- Exhaust pipe in the rear wall.



Model	Max. T (°C)	Int. dim. WxHxD (mm)	Ext. dim. WxHxD (mm)	Volume (l)	Power (kW)	Voltage (V)	Weight (Kg)	Pack (u.)	Art. No.
KL 03/11	1100	180x140x100	380x415x400	3	1,2	230 V 1/N	20	1	0000KL0311
KL 05/11	1100	230x170x130	430x445x425	5	2,4	230 V 1/N	35	1	0000KL0511
KL 09/11	1100	230x240x170	430x515x465	9	3,0	230 V 1/N	45	1	0000KL0911
KL 15/11	1100	250x340x170	450x615x465	15	3,5	230 V 1/N	50	1	0000KL1511
KL 03/12	1200	180x140x100	380x415x400	3	1,2	230 V 1/N	20	1	0000KL0312
KL 05/12	1200	230x170x130	430x445x425	5	2,4	230 V 1/N	35	1	0000KL0512
KL 09/12	1200	230x240x170	430x515x465	9	3,0	230 V 1/N	45	1	0000KL0912
KL 15/12	1200	250x340x170	450x615x465	15	3,5	230 V 1/N	50	1	0000KL1512

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Compact muffle furnaces THERMCONCEPT

- T max 1100°C.
- Compact muffle furnaces with outstanding price performance ratio.
- Suitable for many applications in laboratories.
- Compact outer dimensions and design to minimize space requirements.
- Powder-coated, double-walled housing with long service life.
- Insulation complete made of high-grade fibre material with low thermal mass for short heat-up times.
- High quality heating wire with long service life.
- Heating wire mounted in quartz glass tubes, protected against mechanical damages and waste gases, service friendly design.
- Heating elements switched by solid state relays for precise furnace control, wear-free and noiseless.
- Exhaust pipe in the furnace ceiling.



Model	Max. T (°C)	Int. dim. WxHxD (mm)	Ext. dim. WxHxD (mm)	Volume (l)	Power (kW)	Voltage (V)	Weight (Kg)	Pack (u.)	Art. No.
KLE 03/11	1100	130x180x130	400x450x450	3	1,0	230 V 1/N	20	1	000KLE0311
KLE 05/11	1100	160x200x160	430x470x480	5	1,5	230 V 1/N	35	1	000KLE0511
KLE 09/11	1100	190x250x190	460x520x510	9	2,0	230 V 1/N	45	1	000KLE0911
KLE 15/11	1100	220x300x220	490x570x540	15	3,0	230 V 1/N	50	1	000KLE1511

Heating ovens in **page 916**



For further information, please contact scharlab@scharlab.com

Laboratory chamber furnaces

THERMCONCEPT

- T max 1100°C, 1200°C and 1300°C.
- Very high temperature uniformity inside the furnace chamber.
- Double-walled housing with rear-ventilation to ensure low outer-casing temperatures.
- Parallel-guided door moving up-wards with hot insulation surface to the rear, away from operator.
- Insulation made of high grade ceramic fibre with low thermal mass.
- Door collar made of strong fire bricks.
- Wear-resistant fire brick insulation in the furnace bottom.
- Delivery includes ceramic bottom plate.
- Heating elements on ceramic supporting tubes, mounted in front of the insulation for free heat radiation.
- Powerful heating elements in both sides providing fast heating rates.
- Heating elements controlled by solid state relays for very precise temperature control, wear-free and noiseless.
- Exhaust pipe in the rear wall (KLS 45/... in the ceiling).



Model	Max. T (°C)	Int.dim. WxHxD(mm)	Ext.dim. WxHxD(mm)	Volume (l)	Power (kW)	Voltage (V)	Pack (u.)	Art. No.
KLS 05/11	1100	210x200x150	550x580x650	6	2	230 V 1/N	1	000KLS0511
KLS 10/11	1100	200x250x200	560x640x720	10	2,7	230 V 1/N	1	000KLS1011
KLS 15/11	1100	220x300x230	560x640x720	15	4	400 V 3/N	1	000KLS1511
KLS 30/11	1100	280x380x280	590x690x790	30	4	400 V 3/N	1	000KLS3011
KLS 45/11	1100	300x500x300	660x810x820	45	6	400 V 3/N	1	000KLS4511
KLS 05/12	1200	180x200x140	550x580x650	5	2	230 V 1/N	1	000KLS0512
KLS 10/12	1200	200x250x200	560x640x720	10	4	400 V 3/N	1	000KLS1012
KLS 15/12	1200	220x300x230	560x640x720	15	4	400 V 3/N	1	000KLS1512
KLS 30/12	1200	280x350x280	590x690x790	27	4,5	400 V 3/N	1	000KLS3012
KLS 45/12	1200	300x500x300	660x810x820	45	6	400 V 3/N	1	000KLS4512
KLS 05/13	1300	200x250x140	550x580x650	7	2,5	230 V 1/N	1	000KLS0513
KLS 10/13	1300	200x250x180	560x640x720	9	4	400 V 3/N	1	000KLS1013
KLS 15/13	1300	230x300x230	590x690x790	16	4	400 V 3/N	1	000KLS1513
KLS 30/13	1300	270x350x270	590x690x790	26	6	400 V 3/N	1	000KLS3013
KLS 45/13	1300	300x500x300	660x810x820	45	6	400 V 3/N	1	000KLS4513

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Tube furnaces THERMCONCEPT

- Tube Furnaces 1-zone and 3-zone design.
- T max 1200°C.
- Wide range of 17 standard furnaces.
- Tube diameter 20mm to 105mm.
- Heated length 250mm to 900mm.
- Integrated ceramic tube with 2 fibre plugs included.
- Use of separate work tube possible, e.g. to operate with different atmospheres.
- Integrated safety grid for low surface temperatures on the tube module.
- Sophisticated casing partly made of stainless steel.
- Insulation made of high grade ceramic fibre with low thermal mass.
- Powerful heating and fast heating times.
- Heating elements controlled by solid state relays for very precise temperature control, wear-free and noiseless.
- Switchgear and control unit integrated in the furnace housing under-neath the tube module for comfortable operation of the controller.



Technical Data: 1-zone models

Model	Max. T (°C)	Ext. dim. WxHxD (mm)	Tube Ø inner (mm)	Heated length (mm)	Tube length (mm)	Power (kW)	Voltage (V)	Weight (Kg)	Pack (u.)	Art. No.
ROS 20/250/12	1200	350x345x495	20	250	500	1,0	230 V 1/N	14	1	ROS2025012
ROS 20/400/12	1200	450x345x495	20	400	600	1,3	230 V 1/N	18	1	ROS2040012
ROS 38/250/12	1200	350x345x495	38	250	450	1,3	230 V 1/N	21	1	ROS3825012
ROS 38/450/12	1200	500x345x495	38	400	650	1,8	230 V 1/N	22	1	ROS3845012
ROS 50/250/12	1200	350x345x495	50	250	450	1,3	230 V 1/N	23	1	ROS5025012
ROS 50/450/12	1200	500x345x495	50	450	650	1,5	230 V 1/N	24	1	ROS5045012
ROS 75/600/12	1200	650x400x635	75	600	800	3,5	230 V 1/N	32	1	ROS7560012
ROS 75/800/12	1200	850x400x635	75	800	1000	3,5	230 V 1/N	37	1	ROS7580012
ROS 105/500/12	1200	550x400x675	105	500	750	2,4	230 V 1/N	31	1	ROS1055012
ROS 105/750/12	1200	800x400x675	105	750	900	3,5	230 V 1/N	36	1	ROS1057512
ROS 105/900/12	1200	950x400x675	105	900	1200	3,5	230 V 1/N	41	1	ROS1059012

For further information, please contact scharlab@scharlab.com

PERISTALTIC PUMPS

- Dispensing pumps, page 960
- Peristaltic pump tubing, page 961
- Peristaltic pumps, page 964

PERISTALTIC PUMPS: Dispensing pumps



FlexiPump® with handy gun

FlexiPump® INTERSCIENCE

Liquid dispenser used in labs for serial liquid dispensing such as culture media, agar or any liquid solution. Remarkable for its user-friendly functions and great ergonomics. Its speed and accuracy guarantees efficient sample preparation.

There are two models available: FlexiPump® with 1 peristaltic Watson Marlow® pump head and FlexiPump® Pro with 2 peristaltic Watson Marlow® pump heads, USB and RS232 for more advanced features.

- 3 distribution modes: continuous, dose (predetermined volume) and multi-dose (predetermined volume, with a pause between each dose)
- 32 programs adapted to your application with the digital control screen.
- Precise flow control (up to 1%), from 50µl to 99.9L, contamination free, autoclavable, meets ISO 6887-1 and ISO 7218 standards
- Easy and fast calibration
- Maintenance free. High quality peristaltic Watson Marlow® pump head. Powerful brushless stepping motor with no wearing parts. Long lasting materials.
- Optional handy gun improves dispensing

Common technical specifications:

- Dose volume: 50µL to 99L
- Rotating speed: 10 to 550rpm
- Tube inner diameter (ID): from 1 to 8mm
- Tube wall thickness: 1,6mm
- Tubes made from: Tygon® and Versillic®
- Input voltage: 100-240 V~ 50/60Hz

Equipment. Tubing and dispenser accessories with I.D 3,2mm. Also, Pro model 6,4mm.

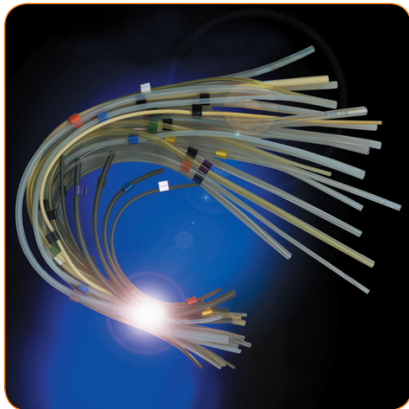
Model	Pump head	Imprecision (tube 3,2mmDI)	Flow (ml/min)	Traceability	Pack (u.)	Art. No.
FlexiPump®	1	9ml: 1,8%, 18ml:1%, 225ml: 0,5%	1,5 to 1250	Con. 3,5mm	1	0000561000
FlexiPump® Pro	2	9ml: 0,9%, 18ml: 0,5%, 225ml: 0,4%	3 to 2500	USB, RS232, con. 3,5mm	1	0000562000

Accessories

Description	Pack	Art. No.
Handy gun	1	0000561001
Dispenser	1	0000561002
RS232 Thermal print	1	0000521000
Dual stand for bags	1	0000513015
Foot pedal	1	0000507008

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PERISTALTIC PUMPS: Peristaltic pump tubing



**Peristaltic Pump Tubing
SPETEC**

Spetec manufactures high quality peristaltic pump tubing. Spetec offer tubes in any configuration of different diameter and material with 1, 2, or 3 bridges. But also by the meter in 2 different lengths. If special sizes are needed including bridges out-side of the norm Spetec can supply these too at an attractive price and in a short delivery time.

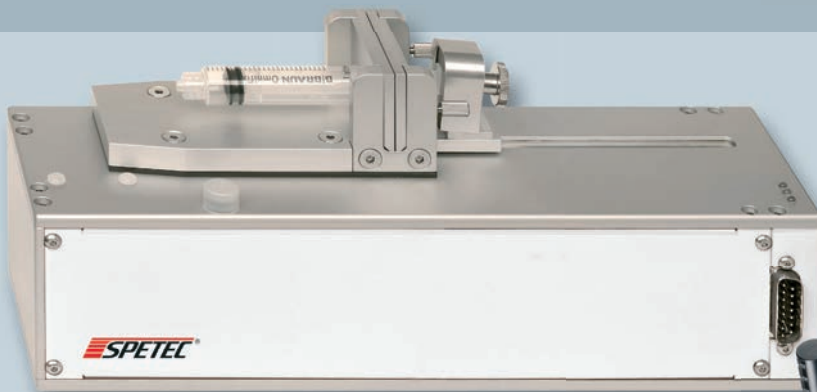
The following table shows precut tubing with 2 bridges:

- PVC Pump Tubing is recommended for routine applications where a precise inside diameter is necessary.
- Solvent Resistant Flex Tubing of polyvinylchloride can be used with solutions consisting of alcohol, and hydrocarbons.
- VITON® - Acid Resistant Flex Tubing made from a unique rubber composition.
- Santoprene® Tubing
- Silicone Pump Tubing is extremely resistant to acid and alkaline solutions.
- Are autoclavable

For further information, please contact scharlab@scharlab.com

PERISTALTIC PUMPS

**Syringe Pump
SYMAX II**

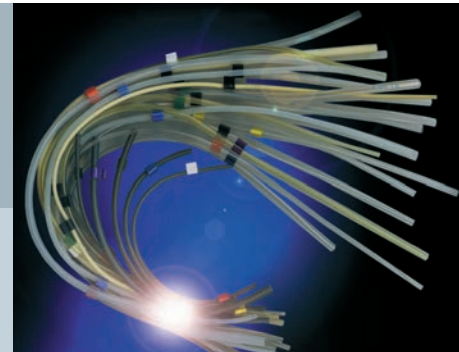


- ▶ Universal syringe holder for syringes with an outer diameter of 9 – 34 mm
- ▶ High resolution stepper motor drive with 25,600 steps per revolution
- ▶ Lowest conveyed amount of 0.5nl
- ▶ Flow rates of pl/s to ml/s
- ▶ Software package
- ▶ LabView interface
- ▶ Optional foot switch
- ▶ PLC trigger inputs

**Peristaltic Pump
PERIMAX**



- ▶ Flow rate continuously variable from 0.004 ml/min – 40 ml/min
- ▶ Speed range 1.5 - 33 RPM
- ▶ Wear-free stepper motor without gears
- ▶ incl. RMD5 (external controller)



Tubing

Application:

- ▶ Tubing for peristaltic pumps
- ▶ ICP
- ▶ AAS
- ▶ Continuous flow
- ▶ Custom-made tubing

For more information just call us, send us a fax, or write us an email:

☎ +49-8122/99533

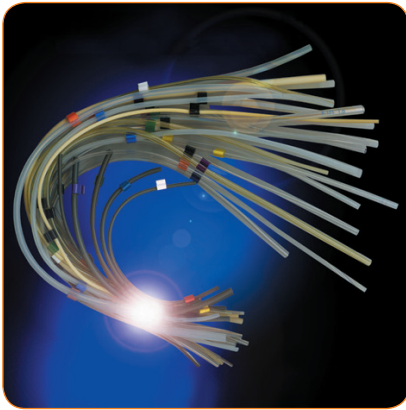
Fax: +49-8122/10397

Email: spetec@spetec.de

SPETEC® GmbH, Postfach 1517, D-85425 Erding

www.spetec.de



PVC 2 bridges


Colour Art. No.	Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pack	Art. No.
Orange/Black	0,127	2,007	0,94	12	09038-0005
Orange/Red	0,191	2,032	0,921	12	09038-0010
Orange/Blue	0,254	2,083	0,914	12	09038-0015
Orange/Green	0,381	2,209	0,914	12	09038-0020
Orange/Yellow	0,508	2,337	0,914	12	09038-0025
Orange/White	0,635	2,464	0,914	12	09038-0030
Black/Black	0,762	2,438	0,838	12	09038-0032
Orange/Orange	0,889	2,565	0,838	12	09038-0035
White/White	1,016	2,692	0,838	12	09038-0040
Red/Red	1,143	2,819	0,838	12	09038-0043
Grey/Grey	1,295	2,972	0,838	12	09038-0046
Yellow/Yellow	1,422	3,099	0,838	12	09038-0050
Yellow/Blue	1,524	3,2	0,838	12	09038-0052
Blue/Blue	1,651	3,327	0,838	12	09038-0055
Blue/Green	1,75	3,43	0,84	12	09038-0058
Green/Green	1,854	3,531	0,838	12	09038-0060
Purple/Purple	2,057	3,734	0,838	12	09038-0065
Purple/Black	2,286	3,962	0,838	12	09038-0067
Purple/Orange	2,54	4,216	0,838	12	09038-0070
Purple/White	2,794	4,47	0,838	12	09038-0078
Black/White	3,175	4,851	0,838	12	09038-0080

PVC-Solvent Resistant 2 bridges

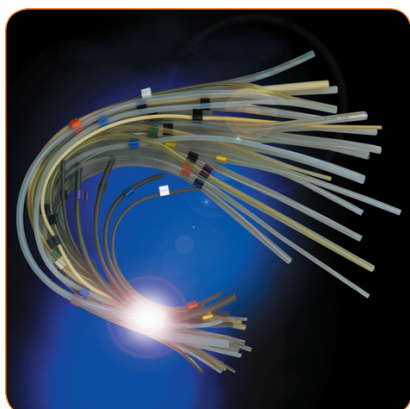
Colour Art. No.	Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pack	Art. No.
Orange/Black	0,127	2,007	0,94	12	09038-2005
Orange/Red	0,191	2,032	0,921	12	09038-2010
Orange/Blue	0,254	2,083	0,914	12	09038-2015
Orange/Green	0,381	2,209	0,914	12	09038-2020
Orange/Yellow	0,508	2,337	0,914	12	09038-2025
Orange/White	0,635	2,464	0,914	12	09038-2030
Black/Black	0,762	2,438	0,838	12	09038-2032
Orange/Orange	0,889	2,565	0,838	12	09038-2035
White/White	1,016	2,692	0,838	12	09038-2040
Red/Red	1,143	2,819	0,838	12	09038-2043
Grey/Grey	1,295	2,972	0,838	12	09038-2046
Yellow/Yellow	1,422	3,099	0,838	12	09038-2050
Yellow/Blue	1,524	3,2	0,838	12	09038-2052
Blue/Blue	1,651	3,327	0,838	12	09038-2055
Green/Green	1,854	3,531	0,838	12	09038-2060
Purple/Purple	2,057	3,734	0,838	12	09038-2065
Purple/Black	2,286	3,962	0,838	12	09038-2067
Purple/Orange	2,54	4,216	0,838	12	09038-2070
Purple/White	2,794	4,47	0,838	12	09038-2078
Black/White	3,175	4,851	0,838	12	09038-2080

→ Continued on the next page

Vitón 2 bridges

Colour Art. No.	Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pack	Art. No.
Orange/Yellow	0,508	2,337	0,914	12	09038-5625
Orange/White	0,635	2,464	0,914	12	09038-5630
Black/Black	0,762	2,438	0,838	12	09038-5632
Orange/Orange	0,889	2,565	0,838	12	09038-5635
White/White	1,016	2,692	0,838	12	09038-5640
Red/Red	1,143	2,819	0,838	12	09038-5643
Grey/Grey	1,295	2,972	0,838	12	09038-5646
Yellow/Yellow	1,422	3,099	0,838	12	09038-5650
Yellow/Blue	1,524	3,2	0,838	12	09038-5652
Blue/Blue	1,651	3,327	0,838	12	09038-5655
Green/Green	1,854	3,531	0,838	12	09038-5660
Purple/Purple	2,057	3,734	0,838	12	09038-5665
Purple/Black	2,286	3,962	0,838	12	09038-5667
Purple/Orange	2,54	4,216	0,838	12	09068-5670
Purple/White	2,794	4,47	0,838	12	09038-5678

Silicone 2 bridges



Colour Art. No.	Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pack	Art. No.
Orange/Yellow	0,508	2,337	0,914	6	09038-3025
Orange/White	0,635	2,464	0,914	6	09038-3030
Black/Black	0,762	2,438	0,838	6	09038-3032
Orange/Orange	0,889	2,565	0,838	6	09038-3035
White/White	1,016	2,692	0,838	6	09038-3040
Red/Red	1,143	2,819	0,838	6	09038-3043
Grey/Grey	1,295	2,972	0,838	6	09038-3046
Yellow/Yellow	1,422	3,099	0,838	6	09038-3050
Yellow/Blue	1,524	3,2	0,838	6	09038-3052
Blue/Blue	1,651	3,327	0,838	6	09038-3055
Green/Green	1,854	3,531	0,838	6	09038-3060
Purple/Purple	2,057	3,734	0,838	6	09038-3065
Purple/Black	2,286	3,962	0,838	6	09038-3067
Purple/Orange	2,54	4,216	0,838	6	09038-3070
Purple/White	2,794	4,47	0,838	6	09038-3078

For further information, please contact scharlab@scharlab.com

PERISTALTIC PUMPS: Peristaltic pumps
**Peristaltic Pumps Perimax®
SPETEC**

The Perimax peristaltic pump is used in all branches of analytical chemistry, especially where accurately defined liquid quantities are required.

The Perimax 12 has a pump head with 12 rollers and a simple but well-designed pressure system. It provides from 1 to 6 channels. Individually adjustable channels accommodate a wide variety of tubing materials and sizes allowing work with a liquid flow that is adjustable from 0,004ml/min to 18ml/min. For the Perimax S version the flow rate is from 0,012ml/min to 35ml/min.

Easy to use, switch for off, it can rotate clockwise/anti-clockwise and has a maximum speed option. The speed range is from 1,5 to 34rpm for the standard model and up to 65 rpm for the S version model, with an increased speed range.

The driving motor is equipped with an impulse disk and a photocell that ensures extreme precision and reproducibility in the liquid velocity. The tubes must be of a flexible material and resistant to the liquid being pumped. It has a new acid-resistant plastic cover.

The Perimax 16-Antipuls is a pump whose pulsations have been reduced to virtually zero. It is suitable especially for instrumental analysis, and particularly in those cases where pulsations must be eliminated, to increase the accuracy of the measurement. The 16-roller pump head consists of two half-channels of 8 rollers each in which the rollers are arranged with a 180-degree phase displacement. A piece of pump tubing is inserted into each half-channel; downstream from the pump head, a Y-fitting combines the half-channels. Consequently, a peak in one half-channel is cancelled by a trough in the parallel half-channel so that the combined flow produced is completely pulsation-free. If work is carried out without connecting the tubes, there are two channels with a "pulse" for each "antipulse" channel we had before. In one device, channels with and without pulsation can coexist simultaneously. The pump motor Perimax 16 - Antipuls is the same as the pump motor Perimax 12. The Perimax 12 series can become Antipuls pumps just by replacing the pump head. Like Perimax 12, the cover is made of plastic and is acid-resistant. Power supply: 230 V.



PERIMAX 12



PERIMAX 16

Model	Number of channels	Pack	Art. No.
Perimax 12	1	1	090PER12/1
Perimax 12	2	1	090PER12/2
Perimax 12	4	1	090PER12/4
Perimax 12	6	1	090PER12/6
Perimax 12S	1	1	00PER12S/1
Perimax 12S	2	1	00PER12S/2
Perimax 12S	4	1	00PER12S/4
Perimax 12S	6	1	00PER12S/6
Perimax 16 ANTIPULS	1	1	090PER16/1
Perimax 16 ANTIPULS	2	1	090PER16/2
Perimax 16 ANTIPULS	3	1	090PER16/3

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PD 5006

Peristaltic Pumps PD 5001/PD 5006 HEIDOLPH

For standard applications and liquid transfer. PD 5001/PD 5006 pumps include premium safety standards and features for superior ease of use and reduced cost of ownership.

- Adjust the variable speed on the analog control knob from 10 – 600rpm. Your speed is held constant even under changing loads
 - Electronic speed control at an accuracy rate of $\pm 2\%$
 - At the press of a button the pump operates clockwise or counter-clockwise
- Supplied without pump heads. Please order separately.
- Power supply: 230 V.

Type	Speed (min ⁻¹)	Flow (ml/min)	Multichannel flow (ml/min)	Weight (Kg)	Included head	Pack (u.)	Art. No.
PD 5001	10 to 120	0,8 to 790	0,005 to 320	6,8	No	1	0195235001
PD 5006	50 to 600	3,6 to 3900	Not recommended	6,2	No	1	0195235006

Peristaltic Pumps PD 5101/PD 5106 HEIDOLPH

For reproducible results and liquid transfer. Pump includes premium safety standards and features for superior ease of use and reduced cost of ownership, including:

- Adjust the variable speed from 5,0 - 600rpm on the analog control knob. Your speed is held constant even under changing loads
 - Electronic speed control at an accuracy of $\pm 3,5\%$
 - It connects to an optional foot-pedal remote control via cable to start and stop your pump drive outside a closed fume hood increasing your personal safety or ease of use in multiple sample fills
 - At the press of a button the pump operates clockwise or counter-clockwise
 - A press of the max button accelerates the filling and draining of your tubing
- Supplied without pump heads. Please order separately.
- Power supply: 230 V.



PD 5101



PD 5106

Type	Speed (min ⁻¹)	Flow (ml/min)	Multichannel flow (ml/min)	Weight (Kg)	Included head	Pack (u.)	Art. No.
PD 5101	5 to 120	0,3 to 790	0,005 to 320	8,2	No	1	0195235101
PD 5106	24 to 600	1,3 to 3900	Not recommended	7,6	No	1	0195235106

For further information, please contact scharlab@scharlab.com



PD 5201

Peristaltic Pumps PD 5201/PD 5206 HEIDOLPH

Reproducibility - pumping and dosing. Pump includes premium safety standards and features for superior ease of use and reduced cost of ownership, including:

- Flow characteristic of pump heads in combination with various tubing diameters is pre-programmed for accurate flow rate numbers
 - Digital read-out of: Speed (rpm), tubing diameter, flow rate in ml/min, dosing volume, interval dosing and pause function
 - Easily change all process parameters via these buttons
 - It connects to an optional foot-pedal remote control via cable to start and stop your pump drive outside a closed fume hood increasing your personal safety or easy use in multiple sample fills
 - This models feature electronic speed control and an accuracy of $\pm 0,5\%$
 - A press of the max button accelerates the filling and draining of your tube
 - At the press of a button the pump operates clockwise or counter-clockwise
 - Calibrate your flow volume and flow rate individually
 - Control speed (rpm), direction and On/Off function via analog interface for 0 - 10 V or 4 - 20mA or digital RS 232 interface
- Supplied without pump heads. Please order separately.
- Power supply: 230 V.

Type	Speed (min ⁻¹)	Flow (ml/min)	Multichannel flow (ml/min)	Weight (Kg)	Included head	Pack (u.)	Art. No.
PD 5201	5 to 120	0,3 to 790	0,005 to 320	8,3	No	1	0195235201
PD 5206	24 to 600	1,3 to 3900	Not recommended	7,7	No	1	0195235206

Single-channel pump heads HEIDOLPH

SP quick/SP quick d:

- Fast and convenient tube changes
- Low pulsation due to 5 roller system
- Pump head features ball bearings
- Rollers made of stainless steel
- For tubes with a 1,6mm or 2,5mm wall thickness (wt)
- Depending on drive and tubing, the flow rate ranges from 0,4 to 3.300ml per minute
- Choose SP quick in combination with SP quick d to attach two pump heads to one drive
- This combination is suitable for pump drives PD 5001/5101/5201 only

SP standard:

- Recommended for standard applications
- Convex rollers do not squeeze or crush organic cell cultures
- Rollers made of stainless steel and polyamide
- For tubes with a 1,6mm or 2,5mm wall thickness (wt)
- Depending on drive and tubing, the flow rate ranges from 0,3 to 3.900ml per minute

SP vario:

- Suitable for most Heidolph tubing due to adjustable roller spacing
- Convex rollers do not squeeze or crush organic cell cultures
- Pump head features ball bearings
- Rollers made of stainless steel and aluminum
- Depending on drive and tubing, the flow rate ranges from 0,3 to 3.900ml per minute



SP quick



SP standard



SP vario

Type	Number of rolls	For tubes with wall (mm)	Pack (u.)	Art. No.
SP QUICK	5	1,6	1	0195271110
SP QUICK	5	2,5	1	0195271130
SP QUICK D	5	1,6	1	0195271112
SP QUICK D	5	2,5	1	0195271132
SP STANDARD	2	1,6	1	0195234301
SP STANDARD	2	2,5	1	0195234303
SP VARIO	2	Variable	1	0195234510

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Multi-channel pump heads

HEIDOLPH

These pump drives can be configured for multi-channel use: PD 5001, PD 5101 and PD 5201

- Increase your throughput by running up to 12 individual cassettes on one single pump drive and pump head system
- Separate metering into multiple vessels with different feed rates in a single operation by using different tubing dimensions to adjust flow rates
- Save time: tubing change is done in just seconds
- In addition to standard pump heads which feature a 4 roller system you can choose 8 roller pump heads for low pulsation
- Change your cassettes easily, even during operation - there are no restrictions
- Cassette adjustments and changes are simple, just click in place
- No additional purchase of a pump drive needed: upgrade your single-channel pump drive with just one adaptor for multi-channel use and pick the head/cassette configuration that matches your application needs
- Pump head C4: up to 4 small cassettes, 8 rollers
- Pump head C8: up to 8 medium cassettes or 4 large cassettes (may be used together), 4 rollers
- Pump head C12: up to 12 cassettes small, 8 rollers. Built-in reduction gear allows feeding of smallest quantities
- Multi-channel pump head Masterflex:

Each pump head is constructed with rugged anodized aluminum frames, stainless steel rotor assemblies, and a precision machined aluminum occlusion bed for 4 channels. This occlusion bed is designed to compress the tubing for optimum performance – no occlusion adjustment is required.

- Multi-channel cassettes: Setting screws to adjust roller contact pressure. Cassettes easily changed even while pumping. All cassettes accept different tube materials and sizes

Cassette small: Flow rates from 0,005 to 37ml/min. Suitable for tubes with 0,9-mm wall thickness (wt). Tube diameters available: 0,2 / 0,5 / 0,9 / 1,4 and 2,8mm. Two-Stop Tubing (40cm). Stoppers secure tube in place. Couplings and tube extensions allow extra hose length in 1cm increments.

- Combinations: C4 multi-channel pump head: max. 4 cassettes small

C12 multi-channel pump head: max. 12 cassettes small

Cassette medium: Flow rates from 0,3 to 25ml/min. Suitable for tubes with 1,6mm wall thickness (wt). Tube diameters available: 0,8 and 1,7mm. Tube available in requested sizes.

- Combinations: C8 multi-channel pump head: max. 8 cassettes medium

Cassette large: Flow rates from 1,0 to 320ml/min. Suitable for tubes with 1,6mm wall thickness (wt). Tube diameters available: 1,7 / 3,1 / 4,8 and 6,4mm. Tube available in requested sizes.

- Combinations: C8 multi-channel pump head: max. 4 cassettes large



Pump head C8



Head Masterflex



Cassette large

Description	Pack (u.)	Art. No.
Multi-channel adapter	1	0195261600
Pump head C4	1	0195248042
Pump head C8	1	0195244081
Pump head C12	1	0195248122
Multi-channel Pump head Masterflex	1	0195246043
Cassette large	1	0195249010
Cassette medium	1	0195249021
Cassette small	1	0195249022

For further information, please contact scharlab@scharlab.com

REFRACTOMETERS AND POLARIMETERS

- Polarimeters, *page 968*
- Refractometers, *page 969*

REFRACTOMETERS AND POLARIMETERS: Polarimeters

Polarimeters

ATAGO

AP-300 polarimeter, fully automatic. Provided with 1 observation tube of 100mm and 1 observation tube of 200mm.

Scale and range:

- Angle of rotation: $-89,99$ a $+89,99^{\circ}$
- International sugar scale $-130,00$ to $+130,00^{\circ}Z$

Polax-2L polarimeter, with digital screen, basic for its use on pharmaceutical, chemical and food industries, with LED light source. Provided with 1 observation tube of 100mm and 1 observation tube of 200mm.

Scale and range:

- Angle of rotation: $-179,95^{\circ}$ to $+180,00^{\circ}$
- International sugar scale: $-130,00^{\circ}Z$ to $+130,00^{\circ}Z$

Power supply: 240 V.



Digital polarimeter, AP-300 model



Digital polarimeter, Polax-2L

Model	Scale	Range	Pack (u.)	Art. No.
Digital polarimeter, AP-300 model	Rotation and sugar	From -90 to $+90^{\circ}$	1	0000005291
Digital polarimeter, Polax-2L	Brix, invert sugar, isomer sugar	From 0 to 95%	1	223-005223

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REFRACTOMETERS AND POLARIMETERS: Refractometers

Refractometers

ATAGO

Hand-held or laboratory equipment, for easy and reliable routine measurements. It is recommended to use calibration standards for a greater reliability.

Refractometers



Model	Range	Range	Pack (u.)	Art. No.
Portable Refr. Master Alpha	Brix	From 0 to 33%	1	0000002311
Immersion Refr., type Master-M	Brix	From 0 to 33%	1	0000002313
Refr. Master 2 Alpha	Brix	From 28 to 62%	1	0000002321
Immersion Refr., type Master-2M	Brix	From 28 to 62%	1	0000002323
Immersion Refr., type Master-53M	Brix	From 0 to 53%	1	0000002353
Immersion Refr., type Master-50H	Brix	From 0 to 50%	1	0000002354
Refr. MASTER-93H	Brix	From 45 to 93%	1	0000002374
Digital Refr., automatic SMART-2	Brix, invert sugar, isomer sugar	From -180 to +180°	1	0000003150
Digital Refr. PR-101 Alpha	Brix	From 0 to 45%	1	0000003442
Digital Refr. PR-50HO Alpha	% of hydrogen peroxide	From 5 to 40%	1	0000003478
Refr. model PAL PR-RI.	Refractive Index	1.3306 to 1.4436	1	223-003480
Digital Refr. PET-109 Alpha	% of alcohol	From 10 to 35%	1	0000003486
Refr. model PAL 1	Brix	From 0 to 53%	1	223-173810
Digital Refr. PAL-2	Brix	From 45 to 93%	1	0000003820
Digital Refr. PAL-3	Brix	From 0 to 93%	1	223-003830
Refr. Pal Alpha	Brix	From 0 to 85%	1	00PAL-ALFA
Refr. model PAL-RI	Refractive Index	1.3306 to 1.528	1	223-003850
Digital Refr. Abbe MASTER-HSR500	Brix	From 0 to 90%	1	223-000053
Sucrose solution (to confirm. Brix)	-	-	1	00RE110020
Sucrose solution 30% (±0,03%)	-	-	1	00RE110030
40% sucrose solution for Refr.	-	-	1	223-110040

For further information, please contact scharlab@scharlab.com

REFRIGERATORS AND FREEZERS

- Chest freezers, *page 970*
- Vertical freezers, *page 971*
- Flake ice machines, *page 972*
- Refrigerators, *page 973*
- Storage of flammable and explosive materials (ATEX), *page 976*

REFRIGERATORS AND FREEZERS: Chest freezers


GT 3032

Chest freezers -14°C/-28°C
LIEBHERR

- Energy efficiency class A+.
- Standard top lid.
- Static cooling.
- Wall-integrated evaporator.
- Internal illumination.
- Mechanical control system.
- Water drainage tube.
- Manual defrost.
- Control panel with SuperFrost function.
- Malfunction: optical warning signal.

Model	Gross/net cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/year)	Housing /Lid colour	Lock	Power (W)	Pack (u.)	Art. No.
GT 3032	301/284	1000x760x919	209	White	Optional	0,5	1	0000GT3032
GT 3632	343/324	1.133x760x919	225	White	Optional	0,8	1	0000GT3632
GT 4232	403/380	1.289x760x919	247	White	Optional	0,9	1	0000GT4232
GT 4932	475/449	1.373x808x919	275	White	Optional	0,8	1	0000GT4932
GT 6122	605/572	1.648x808x919	432	White	Optional	1,2	1	0000GT6122



LGT 3725

Laboratory chest freezers -10°C/-45°C
LIEBHERR

- The LGT 2325 model has 120mm insulation; all other models have 100mm insulation.
- Visual and audible temperature and lid alarm.
- Single point calibration to compensate for the difference between the regulated temperature and the actual interior temperature.
- Visual alarm for power failure.
- Aluminium interior, white-coated.
- Reinforced hinges on the lid.
- Internal light integrated in the lid.
- Refrigerant R290, is environmentally friendly.
- Power supply: 220-240 V.

Model	Gross/net cap. (l)	Ext. dim. WxDxH (mm)	Housing/Lid colour	Lock	Pack (u.)	Art. No.
LGT 2325	215	1.132x760x919	White	Included	1	000LGT2325
LGT 3725	365	1.373x808x919	White	Included	1	000LGT3725
LGT 4725	459	1.648x808x919	White	Included	1	000LGT4725

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REFRIGERATORS AND FREEZERS: Vertical freezers



LGPv 8420

General laboratory use freezers -10°C/-26°C and -10°C/-35°C LIEBHERR

- Data collected at ambient temperature +30°C (TNO).
- Electronic control with text display and real-time clock.
- Integrated handle for greater hygiene.
- Plastic-coated racks and a smooth CNS interior lining.
- Visual and audible temperature and door alarm.
- Automatic hot-gas defrost system.
- Mod. LGPv1420 with two doors.
- Power supply: 220-240 V.

Optional:

- Infrared interface.
- RS485 interface enabling external documentation of temperature.

Model	T Range (°C)	Gross cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Power (W)	Shelves	Pack (u.)	Art. No.
LGPv 6520	-10°C up to -35°C	601	700x830x2.150	4,7	White	Included	600	4 adjustable shelves	1	00LGPV6520
LGPv 8420	-10°C up to -35°C	856	790x980x2.150	5,3	White	Included	700	4 adjustable shelves	1	00LGPV8420
LGPv 1420	-10°C up to -26°C	1427	1.430x830x2.150	8,9	White	Included	700	8 adjustable shelves	1	00LGPV1420



GGv 5010

Vertical freezers with forced air cooling -14°C/-28°C LIEBHERR

- Ecological, CFC free.
- Data collected at ambient temperature +30°C (TNO).
- NOFROST technology.
- Automatic defrost.
- Digital temperature display.
- Defrost-Closed door <30°
- Visual and audible temperature and door alarm.
- Electronic control system.
- Tubular handle.
- Adjustable storage shelves.
- Chrome wire racks.
- Height adjustable feet.
- Type of gas R-290.
- Can form a set, side-by-side with models GKv5710-5730/6410 and models GKv5760-5790/6460.
- Power supply: 220-240 V.

Model	Gross/net cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Power (W)	Pack (u.)	Art. No.
GGv 5010	478/421	750x750x1.864	1,99	White	Included	400	1	000GGV5010
GGv 5810	547/490	750x750x2.064	2,41	White	Included	400	1	000GGV5810

For further information, please contact scharlab@scharlab.com



Vertical freezers with Static Cooling -9°C/-26°C and -14°C/-28°C LIEBHERR

- Ecological, CFC free.
- Digital display temperature.
- Manual defrost.
- Models GG 4010 and GG 5210 can make a set, side-by-side with refrigerator GkV 4310 / GkV 5710-5730.
- Power supply: 220-240 V.

GG 4010

Model	T Range (°C)	Gross cap. /net (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Power (W)	Shelves/Drawers	Pack (u.)	Art. No.
GGu 1500	-9°C up to -26°C	143/133	600x615x830	0,72	White	Included	100	3 drawers + 1 basket	1	000GGU1500
TGS 4000	-9°C up to -26°C	400/385	752x710x1.510	2,5	White	Included	200	4 plates / 6 guides	1	000TGS4000
GG 4010	-14°C up to -28°C	382/348	600x680x1.900	1,21	White	Included	120	3 baskets + 4 shelves	1	0000GG4010
GG 5210	-14°C up to -28°C	513/472	750x750x1.864	1,15	White	Included	150	Option, drawers / baskets / shelves	1	0000GG5210
G 5216	-14°C up to -28°C	513/472	750x750x1.725	1,3	White	Not available	150	14 drawers	1	00000G5216

REFRIGERATORS AND FREEZERS: Flake ice machines



Flake ice machines Ice Queen 85C ITV

- Flake ice
- Amount of water in adjustable flake
- Oversized condenser for warm climates
- Air condensation
- Power supply: 220 V.

Model	Refrigeration	Max. production 24h (Kg)	Storage (Kg)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
IQ85C	air	85	26	790x465x595	75	1	1094-IQ85C

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Flake ice machines AF SCOTSMAN

- Electronically controlled operation, with self-diagnostic functions with external alarm lights
- External components constructed from corrosion-resistant stainless steel
- Ergonomically convenient, slanted and disappearing storage bin door
- Front access for easier maintenance
- CFC free, R-404 refrigerant for model 000AF103AS and R-134A refrigerant for model 0000AF80AS
- 120mm legs included
- Two years manufacturer warranty
- Very easy installation
- Power supply: 230 V.

Model	Refrigeration	Max. production 24h (Kg)	Storage (Kg)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
AF80AS	air	70	25	535x933x626	50	1	0000AF80AS
AF103AS	air	108	30	592x1126x622	66	1	000AF103AS

REFRIGERATORS AND FREEZERS: Refrigerators



Combi refrigerators No Frost LIEBHERR

- Electronic control.
- Audible alarm.
- Refrigerator FrostFree.
- Automatic defrost and ventilated cooling.
- NoFrost Swingline Freezer.
- Domestic line.

Model	Net cap. (l)	Ext. dim. HxWxD (mm)	Energy consumption (KWh/24h)	Housing/Lid colour	Lock	Pack (u.)	Art. No.
CNP3513 Comfort	231 (refr.)+89 (cong.)	181,7x60x63	242Kwh (A++)	White/white	Included	1	000CNP3513
CNPesf 3513 Comfort	225 (refr.)+89 (cong.)	181,7x60x63	361,4Kwh (A+)	Stainless steel/ Stainless steel	Included	1	CNPESF3513

For further information, please contact scharlab@scharlab.com



LKUv 1610

Laboratory refrigerators MEDILINE +3°C/+8°C LIEBHERR

- Data collected at ambient temperature +30°C (TNO).
- COMFORT electronic controller.
- Digital display 0,1°C.
- Door alarm (retardation 1 minute).
- Temperature alarm.
- HACCP Functions, registration of the three latest alarms.
- Safety thermostats.
- Volt-free contact.
- RS485 interface.
- Access port for external probe (PT100).
- Self-closing door below 30°C.
- Thermostats compliant with Norm NFX 15140.
- Power supply: 220-240 V.

Model	Gross/net cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Shelves	Pack (u.)	Art. No.
LKUv 1610	141/130	600x615x820	0,7	White	Included	3 adjustable shelves	1	00LKUV1610
LKUv 1613	141/130	600x615x820	1	White/Glass	Included	3 adjustable shelves	1	00LKUV1613
LKv 3910	360/344	600x615x1.840	0,8	White	Included	5 adjustable shelves	1	000LKV3910
LKv 3913	360/344	600x615x1.840	1,3	White/Glass	Included	3 adjustable shelves	1	000LKV3913
LCv 4010 Combi	Refrig.: 254/240. Freezer.: 107/105	600x615x2.000	1,8	White	Included	3 drawers (freezer)	1	000LCV4010



MKUv 1610

Pharmacy refrigerators +5°C. NORM DIN 58345 LIEBHERR

Are designed for the safe storage of pharmaceutical products which compliant with the norm DIN 58345.

Liebherr pharmaceutical refrigerators meet the highest EU safety requirements appropriate for maximum product protection and meet the storage requirements of the user.

- Data collected at ambient temperature +30°C (TNO).
- Ecological, CFC free.
- Ventilated cooling.
- Safety thermostat to prevent temperatures falling below +2°C.
- Visual and audible alarm.
- Immediate warning signal for 12h in case of power failure.
- Interface connecting external alarm system.
- Power supply: 220-240 V.

Model	Gross/net cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Shelves	Pack (u.)	Art. No.
MKUv 1610	141/115	600x615x820	0,7	White	Included	3 adjustable shelves	1	00MKUV1610
MKUv 1613	141/115	600x615x820	1	White/Glass	Included	3 adjustable shelves	1	00MKUV1613
MKv 3910	360/300	600x615x1.840	0,8	White	Included	5 adjustable shelves	1	000MKV3910
MKUv 3913	360/300	600x615x1.840	1,3	White/Glass	Included	5 adjustable shelves	1	00MKUV3913

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FKU 2640

Forced-air refrigerators +1°C/+15°C

LIEBHERR

Temperature can be set between +1°C and +15°C and is displayed on a digital thermometer (with an independent power supply) on the appliance exterior.

- Ergonomic slimline handle
- Automatic defrosting
- Door hinges: right, reversible on site
- Refrigerant: R 600a
- Power supply: 220-240 V.

Model	Gross cap.(l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Power (W)	Pack (u.)	Art. No.
FKv 2640	236	600x610x1250	0,9	White/White	Included	120	1	000FKV2640
FKv 3640	335	600x610x1640	0,94	White/white	Included	130	1	000FKV3640
FKv 5440	544	750x730x1640	1,1	White/White	Included	150	1	000FKV5440



LKPv 6520

Ventilated Laboratory Refrigerators -2°C/+16°C and 0°C/+16°C

LIEBHERR

- Data taken at ambient temperature +30°C (TNO).
- Electronic control with text display in plain language and real-time clock.
- Castors, two with brakes.
- Integrated handle.
- Plastic-coated wire baskets and CNS inner lining.
- Integrated lock.
- Visual and audible alarm.
- Hot-gas automatic defrost system.
- Models. LKPv 1420 and 1422 with two doors.
- Power supply: 220-240 V.

Optional:
Infrared interface.
RS485 interface enabling external temperature documentation.

Model	T Range (°C)	Gross cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Power (W)	Shelves	Pack (u.)	Art. No.
LKPv 6520	-2°C up to +16°C	601	700x830x2.150	1,8	White	Included	250	4 adjustable shelves	1	00LKPv6520
LKPv 6523	0°C up to +16°C	601	700x830x2.150	2,7	White/Glass	Included	300	4 adjustable shelves	1	00LKPv6523
LKPv 8420	-2°C up to +16°C	856	790x980x2.150	1,5	White	Included	300	4 adjustable shelves	1	00LKPv8420
LKPv 1420	-2°C up to +16°C	1427	1.430x830x2.150	3,3	White	Included	350	8 adjustable shelves	1	00LKPv1420
LKPv 1423	0°C up to +16°C	1427	1.430x830x2.150	3,9	White/Glass	Included	400	8 adjustable shelves	1	00LKPv1423

For further information, please contact scharlab@scharlab.com

REFRIGERATORS AND FREEZERS: Storage of flammable and explosive materials (ATEX)


LKexv 2600

Laboratory refrigerators with static cooling and spark-free interior ATEX 95 +2°C/+10°C
LIEBHERR

- Data collected at ambient temperature +30°C (TNO).
- Leak-proof plastic inner tank
- Water defrost, closed drain tube.
- Water defrost, drip tray.
- Storage shelves with adjustable height.
- Interior design complies with ATEX 94/9/CE area II.
- External thermostat.
- Power supply: 220-240 V.

Model	Gross/net cap. (l)	Ext. dim. WxDxH	Consumption (kWh/day)	Housing /Lid colour	Lock	Power (W)	Shelves	Pack (u.)	Art. No.
LKexv 1800	180/174	600x600x860	0,7	White	Included	90	3 adjustable shelves	1	OLKEXV1800
LKexv 2600	260/247	600x610x1250	0,8	White	Included	100	4 adjustable shelves	1	OLKEXV2600
LKexv 3600	360/335	600x610x1640	0,9	White	Included	150	5 adjustable shelves	1	OLKEXV3600
LKexv 5400	500/443	750x730x1640	0,9	White	Included	150	5 adjustable shelves	1	OLKEXV5400



LKUexv 1610

Mediline ATEX 95 Spark-Free ventilated laboratory refrigerators +3°C/+8°C
LIEBHERR

- Temperature between +3°C and +8°C.
- COMFORT electronic controller.
- Safety thermostat to prevent temperatures falling below +2°C.
- Volt-free contact.
- RS485 interface.
- Access port for external probe (PT100).
- Self-closing door below 30°C.
- Thermostats compliant with Norm NFX 15140.
- CFC free - R600a refrigerant.
- Power supply: 220-240 V.

Model	Gross/net cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Shelves	Pack (u.)	Art. No.
LKUexv 1610	141/130	600/615/820	0,9	White	Included	3 adjustable shelves	1	LKUEXV1610
LKexv 3910	360/344	600/615/1840	0,9	White	Included	5 adjustable shelves	1	OLKEXV3910

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LGUex 1500

Mediline Static cooling laboratory freezers, ATEX 95, -9°C/-26°C and -9°C/-30°C

LIEBHERR

- Spark-free interior.
- Data taken at ambient temperatures +30°C (TNO).
- Door design: Hardline.
- COMFORT electronic controller.
- Digital display 0,1°C.
- Door alarm (1 minute delay).
- Temperature alarm (is activated by a 3°C change in the marked temperature).
- Integrated data memory with min. / max. temperatures.
- Volt-free contact.
- RS485 interface.
- Self-closing door below 30°C.
- Thermostats compliant with Norm NFX 15140.
- CFC free - R600a refrigerant.
- Climate class: N-T.
- Power supply: 220-240 V.

Model	Gross/net cap. (l)	Ext. dim. WxDxH (mm)	Consumption (KWh/day)	Housing /Lid colour	Lock	Shelves/Drawers	Pack (u.)	Art. No.
LGUex 1500	139/129	600x615x820	0,9	White	Included	3 drawers + 1 basket	1	OLGUEX1500
LGex 3410	310/284	600x615x1.840	1,3	White	Included	8 drawers	1	00LGEX3410

ROTARY EVAPORATORS



Rotary evaporators RC 900

KNF

Designed to impress thanks to its distinct handling advantages, clever functional details and well thought out safety features.

For everyday use, tailored to practical needs. The RC 900 makes rotary evaporation far simpler and safer. The high-performance system is impressive thanks to its intuitive handling and valuable functions that provide outstanding support for everyday lab work. Reliability, operational safety and precision come as standard with the RC 900. Safety features add to the advantages that make the system so suitable and indispensable for precise distillation. Moreover the RC 900 operates extremely quietly.

- Sleek design, minimum footprint. The RC 900 takes up very little space and offers maximum ease of use.
- Whisper quiet for a pleasant working environment. The lift and rotation of the RC 900 are virtually silent.
- Versatile use, simple operation. The system offers central remote control for all functions, and operation via touch-screen and control knob.
- Relevant parameters for distillation and for the heating bath are easily set **by touching and turning**.
- Cordless heating bath with pour spout for safe emptying without spilling.
- **Cooling condenser is straightforward to detach** by turning the clamping nut. The cooling condenser is also extremely easy to clean.
- **Tube guide inside the tower** – tidy and safe, with tubes no longer an obstruction.
- **Uncomplicated flask exchange** – flask simply locks into place – and can be done with one hand.

- Convenient, fully adjustable **flask angle** set via a control knob.

- **FAST AND SAFE:** Flasks can be exchanged quickly and easily.
- **FULLY ADJUSTABLE AND PRECISE:** Different flask sizes require adjustable pivoting to ensure the flask is properly immersed in the water or oil bath.
- **HIGH-PERFORMANCE AND EASY TO CLEAR:** The cooling condenser performance is impressive thanks to its optimized coil design.
- **COMPREHENSIVE SAFETY WHEN NEEDED:** The safety guard completely covers the heating bath. It is therefore the accessory of choice when ultimate safety is required.
- **SAFE FOR THE USER AND THE PROCESS:** The cordless heating bath offers safety and ease of use.
- **CENTRAL AND SECURE:** The remote control allows the RC 900 to be operated safely even from outside closed fume hoods.

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Rotary evaporators RC900 (continued)
KNF
Technical data:
Heating bath

- Heating bath temperature (°C) 20-180
- Coolant supply parameters (chilled condenser)
- Permissible pressure (bar): 3
- Permissible temperature: -15°C +20°C
- Coolant-coated surface (cm²): 1230

Parameters of evaporation flask

- Size of evaporation flask: 50-3000ml
- Rotational speed of evaporation flask (1/min): 25-250
- Length of stroke (mm): 150
- Lifting speed (mm/s): ca. 38

RC 900

- Dimensions WxDxH (mm):
 - without glass (footprint): 431x447x464
 - with glass: 487x447x823

Remote control unit

Wireless range: approx. 50m without obstacles

SC 900

Model	Description	Pack (u.)	Art. No.
SC 900	Rotary evaporator with a 500 ml receiving flask and a 1 liter evaporating flask	1	0000SC900


Accessories

Description	Volume (ml)	Pack (u.)	Art. No.
Protective cover for heating bath		1	0000127204
Refill valve		1	0000300369
Coolant valve		1	0000300853
Collection flask (implosion protected)	100	1	0000300557
	250	1	0000300558
	500	1	0000128158
	1000	1	0000113939
	2000	1	0000113938
Evaporation flask NS29/32	50	1	0000113079
	100	1	0000113080
	250	1	0000113081
	500	1	0000113082
	1000	1	0000128159
Evaporation flask NS24/40	2000	1	0000113083
	3000	1	0000113084
	50	1	0000300561
Evaporation flask NS29/32	100	1	0000300562
	250	1	0000300563
	500	1	0000300564
	1000	1	0000128893
Evaporation flask NS24/40	2000	1	0000300565
	3000	1	0000300566
	500	1	0000300588
Powder flask NS29/32	1000	1	0000300589
	2000	1	0000300590
Powder flask NS24/40	500	1	0000300591
	1000	1	0000300592
Foam brake NS29/32	2000	1	0000300593
		1	0000301114
Foam brake NS24/40		1	0000301115

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Rotary evaporators R-210/R-215 BÜCHI

The rotary evaporators Rotavapor® R-210 / R-215 assure a fast and gentle distillation of all kinds of liquids.

Evaporating flasks in a range from 50 to 4000ml can be used. The rotary evaporators feature a sealing system, an electrical lifting and an automatic lifting of evaporating flasks during power failure. The R-215 offers a display which indicates the rotation speed and vapour temperature. The heating bath has a digital temperature display. The system is complete and ready to work. It contains a 1000ml evaporating- and receiving flask as well as a heating bath:

- Max. safety for the user and the product
- Long-life seals provide practically maintenance-free operation and increase service life
- Compact design
- Wireless contacts on the heating bath for both power supply and communications
- Continuous vapour duct and vacuum seal made of PTFE composite material provides long service life and effective sealing
- Refilling of the evaporating flask through the glass cock plug
- Heating bath can be used with oil as well as water and can be regulated continuously from 20 to 180°C
- The graphic display continuously displays the actual temperature and the temperature setpoint
- The st. steel pan is easy to clean
- CE-certified

- Glass assembly A: Diagonal condenser, can be used where height is limited, for standard

distillations.

- Glass assembly C: Dry ice condenser, for distillation of solvents with low boiling point, no cooling water necessary, max. condensation due to low temperatures.

- Glass assembly BY: Vertical condenser with additional double jacket for cooling, additional joint on the top of the condenser for particularly efficient condensation, connection for vapour temperature sensor.

- Glass assembly V: Vertical condenser, needs little space, for standard distillations, connection for vapour temperature sensor, auto distillation possible with stage probe and vacuum controller V-855.

- Glass assembly S: Vertical condenser with shut-off valve, for distillations also with reflux, connection for vapour temperature sensor, auto distillation possible with stage probe and vacuum controller V-855.

- Glass assembly E: Descending condenser with expansion vessel, ideal for distillations exhibiting foaming or bumping, connection for vapour temperature sensor.

Technical data rotary evaporator:

- Dimensions (L x H x D): 550 x 575 x 415mm
- Weight: 16 to 18kg (depending on glass assembly)
- Power consumption: 60W
- Rotation speed: 20 to 280min⁻¹
- Max. flask size: 3kg

Technical data heating bath:

- Controlled temperature range: 20 to 180°C
- Temperature deviation: ±2 to 3°C
- Bath capacity: 4 to 5l
- Heating medium: water / oil
- Power consumption: 1300W
- Flask size: up to 5000ml
- Dimensions (L x H x D): 285 x 240 x 300mm
- Weight: 4 to 5kg
- Power supply: 220-240 V.

Type	Glass assembly	Description	Pack (u.)	Art. No.
R-210	A	Normal glass	1	023011A000
R-210	V	Normal glass	1	023011V000
R-210	C	Normal glass	1	023011C000
R-210	S	Normal glass	1	023011S000
R-215	A	Normal glass	1	023111A000
R-215	V	Normal glass	1	023111V000
R-215	C	Normal glass	1	023111C000
R-215	S	Normal glass	1	023111S000
R-210	A	Plastic + coated glass	1	023011A100
R-210	V	Plastic + coated glass	1	023011V100
R-210	S	Plastic + coated glass	1	023011S100
R-215	A	Plastic + coated glass	1	023111A100
R-215	V	Plastic + coated glass	1	023111V100
R-215	C	Plastic + coated glass	1	023111C100
R-215	S	Plastic + coated glass	1	023111S100

For further information, please contact scharlab@scharlab.com



Complete evaporation system rotary evaporator BÜCHI

Complete solution from one source for quick and gentle distillation. With rotary evaporator, vacuum pump, vacuum controller, all accessory parts and tubings, quick installation instruction and optional recirculating chiller:

- Flexible operation, manifold fields of application
- Fast and simple installation
- SET 1: incl. operator protection for heating bath B-491
- SET 2: vapour duct, 500 and 2000ml evaporating flasks, 2 gasket seals, glass cock plug

- The Rotavapor® R-210 Advanced covers distillation volumes in a range from 50 to 4000ml

- The digital heating bath can be used with oil as well as water and can be regulated continuously from 20 to 180°C. An integrated wireless power supply allows for easy exhaustion and cleaning of the heating bath

- Control and display of the print with integrated vacuum controller V-850 / 855 assure a good distillation process. The vacuum controller V-850 incl. an electronic solventlibrary. User can access boiling points of 43 stored solvents and perform automatic distillations

- The chemically resistant vacuum pump V-700 is equipped with a glass head so that the PTFE diaphragm can be observed and contaminations and failures are recognised early
- The optional recirculating chiller offers high process reliability and supports a responsible handling of natural resources. By using a rotary evaporator with a chiller up to 300l of water can be saved per day

Technical data Chiller F-100:

- Temperature range: 10°C fix
- Coolant R134a
- Pump: 2,5l/min, 0,6bar
- Power consumption max. 850 W
- Cooling capacity: 500 W at 15°C
- Dimensions W x H x D (cm): 28x40x50
- Tank volume: 3l
- Weight: 29Kg

See technical data of rotary evaporators and the pump in this section. Further configurations and glass assemblies on request.

Type	Glass assembly	Description	Pack (u.)	Art. No.
R-210 Advanced	V. (vertical), plastic and coated glass	Vacuum pump V-700	1	029011V011
R-210 Advanced	V. (vertical), plastic and coated glass	Vacuum pump V-700, cooling section	1	029011V111
R-210 Advanced	V. (vertical), plastic and coated glass	Vacuum pump V-710	1	23011V111X
R-210 Advanced	V. (vertical), plastic and coated glass	Vacuum pump V-710, cooling section	1	025011V111
SET 1	-	Guard hood	1	184-B48052



Accessories for rotary evaporator R-210 / R-215 BÜCHI

Type	Description	Pack (u.)	Art. No.
1500ml flasks	500ml workload, complete, NS 29.2/32	1	184-034230
450ml flasks	150ml workload, complete, NS 29.2/32	1	184-034764
Heating bath B-491 for R-210/R-215	With digital screen, temperatura form 20 to 180°C	1	184-048200
282mm Steam pipe	Extense version	1	184-023730
Seal KD 22	-	1	184-000636

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KNF LAB'S NEW ROTARY EVAPORATOR.



The New RC 900 is set to transform rotary evaporation, making it easier and safer than ever before.

Designed to be perfectly in tune with your laboratory's needs, it offers a range of features to ensure efficient, reliable operation, including:

- Remote control operation
- Easily adjustable rotation speeds
- Dynamic temperature control
- High quality glassware
- Easy to clean design

In combination with the SC 920 vacuum pump and the C 900 chiller, this new rotary evaporation system represents a breakthrough in performance and reliability for a wide range of applications.

Discover the latest in practical laboratory technology –
www.knflab.de



Vacuum pump V-700 BÜCHI

Chemically resistant PTFE diaphragm pump designed for use with all gases and vapours. With a flow rate of 1,8 m³/h and an ultimate vacuum of below 10 mbar, it covers a wide range of classical laboratory applications and is optimally suited for work with a rotary evaporator. Other typical applications include the evacuation of drying ovens or vacuum centrifuges and the generation of vacuum for filtration purposes or for conveying liquids:

- Quiet and little vibration due to sound insulation with a sound absorber, enclosed housing and counterbalancing
- Integrated gas ballast for drying the diaphragms during operation, ensuring consistently high flow rates
- Strictly axial movement of the diaphragm increases service life
- Security features: pump operation only with closed housing reversible overcurrent shutdown and integrated hour meter
- Innovative, single-stroke speed control for hysteresis-free and precise vacuum (in combination with the vacuum controller V-850 / 855)
- Compact design and solid workmanship, with integrated carrying handle
- Glass / PEEK- head allows for visual inspection of diaphragm making it easy to check for solvent build-up or detection of contamination
- Oil-free, virtually maintenance-free, easy to access diaphragms due to removable upper housing and integrated spanner

Technical data:

Volume flow rate (DIN 28432): 1,8 m³/h

Number of stages (heads): 2 (2)
 Ultimate vacuum (absolute): < 10 mbar
 Ultimate vacuum (with gas ballast): 24 mbar
 Power consumption: 210 W
 Mains supply: 100 to 240 V, 50 to 60 Hz
 Motor: DC, brushless
 Revolution speed: max. 1600 min⁻¹
 Sound level (DIN 45635): 40 to 52 dB (A) dependent on operation mode
 Safety class: IP 34
 Materials in contact with medium: PEEK, PTFE, glass, FEP
 Weight: 5,3 kg
 - Power supply: 240 V.

Type	Description	Pack (u.)	Art. No.
Vacuum pump V-700	Simple unit	1	184-071000
Vacuum pump V-700	With secondary condenser	1	184-071001
Vacuum pump V-700 Advanced	With vacuum controller V-850	1	184-071200
Vacuum pump V-700 Advanced	With secondary condenser and vacuum controller V-850	1	184-071201



Vacuum controller V-850/V-855 BÜCHI

Vacuum controller for the electronic monitoring of the vacuum from atmospheric pressure to 1 mbar, with manual or automatic distillation.

- Reliable and easy handling
- Compatible with vacuum pumps and rotary evaporators from Büchi and several other manufacturers
- 1/4" VGA LCD-display to control a vacuum source via a valve or a speed control with the vacuum pump V-700 / V-710
- Solvent library with the 43 most frequently used solvents
- Reduces the cooling water consumption with the use of the cooling water valve

Vacuum controller V-850: Semi-automatic vacuum controller. The controller includes a large number of useful features like a timer function for stopping the process after a preset time, or a

laboratory vacuum control (LabVac) which ensures an intelligent control of the pump in a laboratory system with several consumers. USB interface.

Vacuum controller V-855: Automatic vacuum controller. Different working modes, such as constant vacuum, pressure gradients, timer functions or fully automatic distillations can be selected. The EasyVac- and LabVac-Function is integrated. EasyVac function: automatic process control based on vapour pressure detection, guarantees the simplified, automatic distillation of individual solvents and complex solvent mixtures, whenever time is the issue during distillation. Automatic distillation with a stage probe positioned in the rotary evaporator's condenser. The stage probe is suitable for foaming substances or for maximum solvent recovery. Repeat function: The pressure curve of a manual or automatic distillation can be stored and retrieved anytime as set point values for optimum process conditions.

Technical data:

- Measuring range: 1400 to 0 mbar (hPa)
- Control range: 1100 to 1 mbar (hPa)
- Measuring principle: capacitive, absolute pressure measurement independent of gas type / sensor of aluminium oxid-ceramic
- Accuracy of measurement: ±2 mbar (±1 digit) - following alignment at constant temperature
- Thermal response: 0,07 mbar / K
- Power consumption: 10 W
- Interfaces: USB (data transmission), RS485 (communication), remote control, cooling water valve, Switch Box, vacuum valve
- Mains supply: 30 V DC, connection rotavapor R-210 / 215, vacuum pump V-700 / V-710 or power pack 85 to 264 V
- Weight: 540 g
- Dimensions (L x W x H): 120 x 160 x 105mm

Type	Pack (u.)	Art. No.
Vacuum controller V-850	1	184-047231
Vacuum controller V-855	1	184-047232



Rotary evaporators Hei-VAP Value HEIDOLPH

For all standard applications.

- With hand lift
- Setting of bath temperature and rotation speed: scale
- Large dial controls for adjustment of rotation speed and bath temperature
- Optional: Manual Vacuum Controller
- Hei-VAP Value models have no digital display
- Weight without glass assembly: 16 kg
- Dimensions (LxWxH): 395 x 490 x 430mm
- Power supply: 230 V.



Glass type	Version	Pack (u.)	Art. No.
G1 Diagonal	Standard	1	0195560011
G1 Diagonal	Coated	1	0195600111
G3 Vertical	Standard	1	0195560013
G3 Vertical	Coated	1	0195600131
G5 Dry Ice Condenser	Standard	1	0195560015
G5 Dry Ice Condenser	Coated	1	0195600151
G6 Vertical for Reflux	Standard	1	0195560016
G6 Vertical for Reflux	Coated	1	0195600161

For further information, please contact scharlab@scharlab.com



Rotary evaporators Hei-VAP Advantage HEIDOLPH

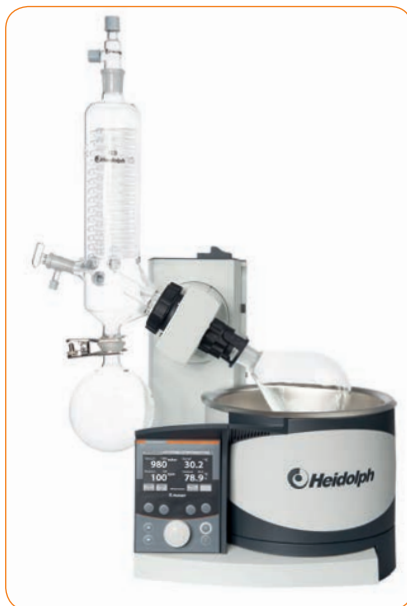
For your routine distillation applications and reproducible results. Includes premium safety standards and features for superior ease of use and reduced cost of ownership, plus:

- Available in hand lift or motor lift configurations
 - Experience the advantages of our large digital 3.5" LCD display which indicates rotation speed, heating bath and vapor temperature
 - We recommend the optional Manual Vacuum Controller
 - Experience the advantages of the automatic process timer which turns off your evaporator at a pre-programmed time and removes evaporating flask from bath on motor lift models
 - Upgrade your Hei-VAP Advantage to a Hei-VAP Precision
- Weight without glass assembly: 16 kg
 - Dimensions with hand lift(LxWxH): 395 x 490 x 430mm
 - Dimensions with motor lift(LxWxH): 395 x 420 x 430mm
 - Power supply: 230 V.



Glass type	Version	Pack (u.)	Art. No.
G1 Diagonal	Standard, hand lift	1	0195610110
G1 Diagonal	Coated, hand lift	1	0195610111
G1 Diagonal	Standard, motor lift	1	0195620110
G1 Diagonal	Coated, motor lift	1	0195620111
G3 Vertical	Standard, hand lift	1	0195610130
G3 Vertical	Coated, hand lift	1	0195610131
G3 Vertical	Standard, motor lift	1	0195620130
G3 Vertical	Coated, motor lift	1	0195620131
G5 Dry Ice Condenser	Standard, hand lift	1	0195610150
G5 Dry Ice Condenser	Coated, hand lift	1	0195610151
G5 Dry Ice Condenser	Standard, motor lift	1	0195620150
G5 Dry Ice Condenser	Coated, motor lift	1	0195620151
G6 Vertical for Reflux	Standard, hand lift	1	0195610160
G6 Vertical for Reflux	Coated, hand lift	1	0195610161
G6 Vertical for Reflux	Standard, motor lift	1	0195620160
G6 Vertical for Reflux	Coated, motor lift	1	0195620161

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Rotary evaporators Hei-VAP Precision HEIDOLPH

Most demanding applications and finest integrated vacuum control capabilities. Includes premium safety standards and features for superior ease of use and reduced cost of ownership, plus:

- Available in hand lift or motor lift configurations
- Experience the advantages of our large 4,3" color graphic display which features all parameters, integrated vacuum controller and includes programs for automated distillation
- Make your life easier by utilizing the integrated software support which leads you through the capabilities of the evaporator
- For data management Hei-VAP Precision models features USB interface
- Save time by configuring the unit - all connected components and periphery devices will be recognized by the evaporator, which eliminates the need to configure the unit manually
- Now you can manage even the most demanding applications easily and prevent foaming, excessive bubbling or bumping
- Save time with your individualized pre-programmed parameter settings for your 30 most common applications on a daily basis by saving them as a ramp in "Favorites" section. Each ramp offers 20 separate steps for demanding applications
- Apply an individual name to those ramps to avoid a mix-up
- Experience the advantages of the automatic process timer which turns off your evaporator at a pre-programmed time by raising flask on motor lift models and releasing vacuum
- Control your process individually by pre-programming vacuum gradients
- Hei-VAP Precision models feature a built-in vacuum controller as a standard

- Weight without glass assembly: 17 kg
- Dimensions with hand lift(LxWxH): 395 x 490 x 430mm
- Dimensions with motor lift(LxWxH): 395 x 420 x 430mm
- Power supply: 230 V.



Glass type	Version	Pack (u.)	Art. No.
G1 Diagonal	Standard, hand lift	1	0195630110
G1 Diagonal	Coated, hand lift	1	0195630111
G1 Diagonal	Standard, motor lift	1	0195640110
G1 Diagonal	Coated, motor lift	1	0195640111
G3 Vertical	Standard, hand lift	1	0195563013
G3 Vertical	Coated, hand lift	1	0195630131
G3 Vertical	Standard, motor lift	1	0195640130
G3 Vertical	Coated, motor lift	1	0195640131
G5 Dry Ice Condenser	Standard, hand lift	1	0195630150
G5 Dry Ice Condenser	Coated, hand lift	1	0195630151
G5 Dry Ice Condenser	Standard, motor lift	1	0195640150
G5 Dry Ice Condenser	Coated, motor lift	1	0195640151
G6 Vertical for Reflux	Standard, hand lift	1	0195630160
G6 Vertical for Reflux	Coated, hand lift	1	0195630161
G6 Vertical for Reflux	Standard, motor lift	1	0195640160
G6 Vertical for Reflux	Coated, motor lift	1	0195640161

Accessories for rotary evaporators Hei-VAP HEIDOLPH



Guard hood



Seal



Aqua Stop

Description	Pack (u.)	Art. No.
Tube set: Includes 5 meter vacuum tubing and 6 meter water tubing	1	5913500000
Guard hood: Strong and transparent plastic	1	0195569001
Guard shield: Strong and transparent plastic	1	0195569002
Vapor temperature sensor: for Hei-VAP Advantage and Hei-VAP Precision	1	0195569003
Automatic sensor AUTOaccurate Sensor: for Hei-VAP Precision, only in combination with glassware set G3 and G6	1	0195569004
Liquid for heating bath: 5l, max. 240°C	1	5153100000
Spare PTFE vacuum seal	1	2330010130
Aqua Stop: safety system reducing the consumption of cooling tap water.	1	5690050000



Regulated vacuum pump Rotavac Valve Control

HEIDOLPH

Designed for all Heidolph rotary evaporators.

Two-stage diaphragm pump made from chemical-resistant material. High suction capacity of 2,0 m³/h for fastest evacuation. Suction capacity for up to 3 rotary evaporators at the same time. Achieves an ultimate vacuum of 7 mbar. Vacuum can be controlled manually or via valve operated vacuum controllers. Depending on your application you can switch on and off the vacuum pump via switchbox. Can be combined with a condenser.

Model	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Rotavac Valve Control	180	12,8	245x310x195	1	0195910013



Regulated vacuum pump Rotavac Vario Control

HEIDOLPH

For all Hei-VAP Precision models.

Three-stage diaphragm pump is made from chemical-resistant materials. High suction capacity of 1,7 m³/h for fastest evacuation. Achieves an ultimate vacuum of 2 mbar. Even if the gas ballast valve is open an excellent ultimate vacuum is reached when working with easily condensable vapors. This makes distilling high boiling point solvents such as DMF or DMSO possible at low bath temperatures. Can be combined with a condenser.

Model	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Rotavac Vario Control	160	5,4	196x236x167	1	0195910015



Regulated Rotavac Vario pumping unit

HEIDOLPH

For all Hei-VAP Value and Hei-VAP Advantage models.

Fully controllable stand-alone pumping unit including vacuum controller. Three-stage diaphragm pump is made from chemical-resistant material. Precise vacuum control avoids bumping and eliminates foaming of your evaporation solution. Due to automatic vacuum supply to the process parameters you have more time for important laboratory activities. High suction capacity of 1.7 m³/h for fastest evacuation. Achieves an ultimate vacuum of 5 mbar. Can be combined with a condenser.

Model	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Rotavac Vario	160	6	299x263x193	1	5910014200
Condenser	-	-	-	1	5910008400



Rotachill

HEIDOLPH

- Quenching
- Temperature range from 0°C to 100°C
- Precise temperature control accuracy of ±0,2°C
- Dimensions: 210x450x570mm (WxLxH)
- Analog sticks
- Quenching
- Cooling capacity: 6,0 liters
- Cooling capacity (at 20°C): +20°C: 200W
0°C: 140W

Model	Pack (u.)	Art. No.
RotaChill	1	0195910022

ROTATIONAL VISCOMETERS



ALPHA Series rotational viscometers FUNGILAB

Alpha series rotational viscometers allow fast and accurate viscosity readings for routine measurement in quality control and R&D laboratories. They are low budget and easy to use.

Main features:

- Displayed info: selected speed (rpm), selected spindle SP, viscosity reading cP (mPa•s) or cSt, percentage of full scale (%)
- Relative and absolute viscosity (with coaxial spindles)
- Unit converter SI to CGS
- AUTO-TEST with sound and visual malfunction alarm
- AUTO-RANGE function
- User-enabled calibration
- 10 language options

The equipment is supplied complete with standard spindles (4 spindles for L model, and 6 spindles for R and H models), viscometer stand and spindle protector.

Technical data:

- Precision: $\pm 1\%$ of full scale
- Resolution: using low viscosity adapter: 0.01, for lower than 10.000 viscosity cP: 0.1, for viscosity equal to or above 10.000 cP: 1
- Repeatability: 0.2%
- Power supply: 100-240 V.

Model	Range (cP)	Speed (r.p.m.)	Number of speeds	Pack (u.)	Art. No.
ALPHA L	20-2.000.000	0,3-100	18	1	000V100003
ALPHA R	100-13.000.000	0,3-100	18	1	000V100002
ALPHA H	200-106.000.000	0,3-100	18	1	000V100001



SMART Series rotational viscometers FUNGILAB

Indispensable in QC and R&D laboratories.

Main features:

- Touch key board 6 keys
- Direct readout on a graphic display
- Data displayed: selected speed r.p.m., selected spindle SP, viscosity reading cP (mPa•s) or cSt, percentage of full scale%, sample temperature °C or °F (Optional, Shear Rate (with coaxial spindles) SR (s-1), Shear Stress (with coaxial spindles) SS (N/m²). Density (introduced by the user) g/cm³
- Viscosity reading: dynamic viscosity (cP or mPa•s) or kinematics viscosity (cSt).
- Unit converter SI to CGS
- AUTO-RANGE function
- AUTO-TEST with sound and visual malfunction alarm
- User-enabled optional calibration
- Interface: USB
- Datalogger Software: USB allows data transfer to a PC Excel format

The equipment is supplied complete with standard spindles (4 spindles for L model, and 6 spindles for R and H models), spindle rack, viscometer stand, adjustment for stand, bosshead, spindle protector and carrying case.

Technical data:

- Precision: $\pm 1\%$ of full scale
- Resolution: with low viscosity adapter: 0.01, for lower than 10.000 viscosity cP: 0.1, for viscosity equal to or above 10.000 cP: 1
- Repeatability: 0.2%
- Temperature margins: 0°C to +100°C
- With Pt temperature probe
- Power supply: 100-240 V.

Model	Range (cP)	Speed (r.p.m.)	Number of speeds	Pack (u.)	Art. No.
SMART L	20-2.000.000	0,3-100	18	1	000V210003
SMART R	100-13.000.000	0,3-100	18	1	000V210002
SMART H	200-106.000.000	0,3-100	18	1	000V210001

For further information, please contact scharlab@scharlab.com



EXPERT Series rotational viscometers FUNGILAB

Add essential performances to determine viscosity and other rheological features of homogeneous samples.

Main features:

- Direct readout on a graphic display
- Touch key board 12 keys
- Data displayed: selected speed r.p.m., selected spindle SP, viscosity reading cP (mPa•s) or cSt, percentage of full scale%, sample temperature °C or °F, Shear Rate (with coaxial spindles) SR (s-1), Shear Stress (with coaxial spindles) SS (N/m²). Density (introduced by the user) g/cm³
- Viscosity reading: dynamic viscosity (cP or mPa•s) or kinematics viscosity (cSt)
- Unit converter SI to CGS
- Programmable
- AUTO-TEST with sound and visual malfunction alarm
- AUTO-RANGE function
- Temperature reading by PT100
- User-enabled viscosity and temperature calibration
- 10 language options
- Datalogger Software: USB allows data transfer to a PC Excel format

The equipment is supplied complete with standard spindles (4 spindles for L model, and 6 spindles for R and H models), spindle rack, viscometer stand, adjustment for stand, bosshead, spindle protector, USB cable, Datalogger software and carrying case.

Technical data:

- Precision: ±1% of full scale
- Resolution: with low viscosity adapter: 0.01, for lower than 10.000 viscosity cP: 0.1, for viscosity equal to or above 10.000 cP: 1
- Repeatability: 0.2%
- Temperature margins: 0°C to +100°C
- Power supply: 100-240 V.

Model	Range (cP)	Speed (r.p.m.)	Number of speeds	Pack (u.)	Art. No.
EXPERT L	20-6.000.000	0,01-200	54	1	000V300003
EXPERT R	100-40.000.000	0,01-200	54	1	000V300002
EXPERT H	200-106.000.000	0,01-200	54	1	000V300001



PREMIUM Series rotational viscometers FUNGILAB

Viscometer monitored by our Fungilab Data Boss software, offer a wide and unique range of rheological applications.

Main features:

- Direct readout on a graphic display
- Data displayed: selected speed r.p.m., selected spindle SP, viscosity reading cP (mPa•s) or cSt, percentage of full scale%, sample temperature °C or °F, Shear Rate (with coaxial spindles) SR (s-1), Shear Stress (with coaxial spindles) SS (N/m²). Density (introduced by the user) g/cm³
- Viscosity reading: dynamic viscosity (cP or mPa•s) or kinematics viscosity (cSt)
- Programmable. Comparison with mathematic model
- AUTO-TEST with sound and visual malfunction alarm
- AUTO-RANGE function
- Temperature reading by PT100
- User-enabled viscosity and temperature calibration
- 10 language options
- USB interface
- Touch key board 12 keys

The equipment is supplied complete with standard spindles (4 spindles for L model, and 6 spindles for R and H models), spindle rack, viscometer stand, adjustment for stand, bosshead, spindle protector, USB cable and Datalogger software.

Technical data:

- Precision: ±1% of full scale
- Resolution: with low viscosity adapter: 0.01, for lower than 10.000 viscosity cP: 0.1, for viscosity equal to or above 10.000 cP: 1
- Repeatability: 0.2%
- Thermometer features:
- Temperature margins: 0°C to +100°C

Data Boss software: it has been designed to program the PREMIUM viscometer and it is a powerful key to document and study the viscosity behaviour of fluids. As its predecessor, it has the possibility to program the viscometer for step (simple curves), ramp and multi-step curves, and it is an important tool to study the viscosity behaviour of different liquids. A powerful graph key helps the user to design the flow curves needed.

- Power supply: 100-240 V.

Model	Range (cP)	Speed (r.p.m.)	Number of speeds	Pack (u.)	Art. No.
PREMIUM L	20-6.000.000	0,01-250	2600	1	000V400003
PREMIUM R	100-40.000.000	0,01-250	2600	1	000V400002
PREMIUM H	200-106.000.000	0,01-250	2600	1	000V400001

Viscometer accessories

FUNGILAB

APM-small sample adapter: consists of a cylindrical sample chamber and coaxial spindles, designed for flawless, accurate viscosity measurements of small volumes. Cylindrically designed for shear measurements (Spindles supplied separately).

- Stainless steel sample chamber, removable and easily cleaned.
- Flow jacket that allows thermostatisation of the sample between -10 a +100°C (optional)
- Sample volume: from 8 to 13ml, depending on the spindle used
- PT100 probe to determine the sample temperature with accuracy (optional)
- Viscosity range (cP): L 2-200.000, R 38-3.300.000, H 300-26.660.000

Small sample adapter works with special spindles TR for R and H viscometer type and TL for L viscometer type. Spindles have to be ordered separately.

LC- Low viscosity adapters: used with the rotational viscometers to perform accurate and reproducible readings on materials with viscosity as low as 1 cP (mPas). Cylindrically designed for shear measurements (supplied with spindle).

- Stainless steel sample chamber, removable and easily cleaned.
- Flow jacket that allows thermostatisation of the sample between -10 a +100°C (optional)
- PT100 accurate temperature probe (optional)
- Viscosity range (cP): L 1-2.000, R 5-21.333

Heldal unit for helical movement (Heldal): accessory designed for viscosity measurements of non-flowing substances. In these materials the viscosity cannot be measured by standard methods and spindles due to cavitation effect around the spindle.

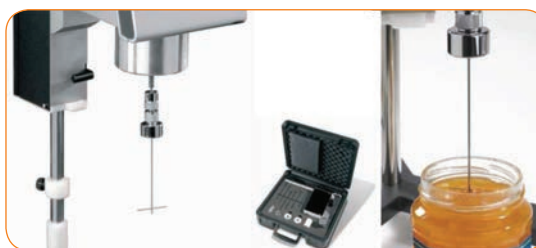
- Easy to use, install and clean
- Supplied with motor, 6 T-shaped spindles and carrying case
- Applications: creams-gels, pastes-gelatin, other non-flowing substances (static)
- Viscosity range (cP): L 234-3.120.000, R 2.490-33.300.000 H 19.500-260.000.000



APM



LCP



Heldal

Description	For	Pack (u.)	Art. No.
APM, small sample adapter with circulation jacket (no spindles)	L, R, H	1	109-V12010
APM/B, small sample adapter without circulation jacket (no spindles)	L, R, H	1	109V12010B
LCP, low viscosity adapters with circulation jacket (with spindles)	L, R	1	109-V12013
LCP/B, low viscosity adapters without circulation jacket (with spindles)	L, R	1	109V12013B
Heldal unit: accessory for measuring viscosity in high viscosity substances (with spindles)	R, H	1	109-V12014

Glass viscometers in [page 784](#)



For further information, please contact scharlab@scharlab.com

SIEVES



Sieve air shaker AJ 200 N CISA

The AJ 200 N sieve shaker is used for **particle separation on dry products**. With the air flow, the particles are swept away by the air flow and they will pass through the sieve, in order to make them go through it. This effect is reached by using an air flow (vacuum) which provokes a controlled depression.

The equipment counts with a system of 10 menus with 10 different user programs that can be set depending on the needs of the customer. They also kept stored in the flash memory. The parameters to be set are the time, the name of the program, the visualization units of pressure and the speed of diffusion.

- **Applications:** for all kind of dry materials, from 10µm to 4mm. Recommended for **electrostatic materials**.

Features:

- Supply 85 to 264vac / 47 to 63hz.
- Speed of rotation of the slotted and adjustable nozzle, from 1 to 100rpm.
- Designed following the standards of the une-en933-10 (aggregates).
- Consumption 20w.
- Sieving parameters adjustable digitally and visually.
- Digital regulation with mixer.
- Product movement: air flow.
- Maximum sieve column capacity: 0,5 Kgr.
- Fraction maximum number: 1.
- Time indications: 1 to 99 minutes.
- Depression range: 0-10 KPa / 0-1'45psi/0-100mbar.
- 200mm diameter sieves.
- Maximum sieve tower height: 50mm.

Model	Dim. WxHxD (mm)	Weight (kg)	Pack (u)	Art. No.
AJ 200N	445x180x330	15	1	0000TZAJ20



Digital electromagnetic sieve BA 200N CISA

For test sieves 200 / 203mm:

- Precision and reliability.
- The latest technology with intermittent sieving.
- Includes closing, quick and safe system "cisa press".
- Recommended for materials with density > 0,8 gr /cm³.
- Suitable for both dry and wet sieving (with the wet sieving kit).
- Movement is induced electromagnetically, combining a rotatory displacement with a vertical one of the sample.
- Maximum amplitude of vibration 2,00mm.
- Dimensions: 400x310x95mm (without sieves).
- Net weight: 27 kg.
- Pan and cover not included.
- Power supply: 230 V.

Model	Dim. WxHxD (mm)	Weight (kg)	Pack (u)	Art. No.
BA 200N	400x310x95	27	1	00TZBA200N

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Accessories for BA200N



Diameters	Description	Application	Pack (u.)	Art. No.
60mm.Ø x 18 mm.H	Pan and cover	For dry sieving	1	2340100000
75mm.Ø x 30 mm.H	Pan and cover	For dry sieving	1	2342700000
75mm.Ø x 60 mm.H	Pan and cover	For dry sieving	1	2340200000
75mm.Ø x 70 mm.H	Pan and cover	For dry sieving	1	2342900000
100mm.Ø x 23 mm.H	Pan and cover	For dry sieving	1	2340300000
100mm.Ø x 40 mm.H	Pan and cover	For dry sieving	1	2340400000
150mm.Ø x 50 mm.H	Pan and cover	For dry sieving	1	2340500000
200mm.Ø x 25 mm.H	Pan and cover	For dry sieving	1	2340700000
200mm.Ø x 50 mm.H	Pan and cover	For dry sieving	1	2340800000
203mm.Ø x 25 mm.H	Pan and cover	For dry sieving	1	2340900000
203mm.Ø x 50 mm.H	Pan and cover	For dry sieving	1	2341000000
250mm.Ø x 70 mm.H	Pan and cover	For dry sieving	1	2341200000
300mm.Ø x 70 mm.H	Pan and cover	For dry sieving	1	2341600000
305mm.Ø x 80 mm.H	Pan and cover	For dry sieving	1	2341700000
315mm.Ø x 80 mm.H	Pan and cover	For dry sieving	1	2341500000
350mm.Ø x 60 mm.H	Pan and cover	For dry sieving	1	2343200000
400mm.Ø x 65 mm.H	Pan and cover	For dry sieving	1	2342400000
450mm.Ø x 100 mm.H	Pan and cover	For dry sieving	1	2341900000
200mm.Ø	Pan and cover	For wet sieving	1	2340800003
200mm.Ø	Rubber ring	For wet sieving	1	234000J150



Analytical Sieve Shakers AS 200 basic/digit/control RETSCH

Sieve shakers with an electromagnetic regulated drive which allows an optimized adaptation for any type of material. They convince for their great precision during short time sieve separations. Generally applications for separation tasks, breaking-up, and small grain determination. Also, the AS 200 Digit includes a touch-sensitive keypad for easy management which can work on intervals.

The AS 200 Control, like AS 200 digit, but microprocessor-controlled, with freely selectable intervals and digital vibration amplitude setting. It can be calibrated and, for the first time, allows 100% reproducible sieving results, even if different instruments are used. The AS 200 control has an integrated interface for the evaluation software EasySieve®. At the same time it also offers all the requirements for test materials monitoring acc. to ISO 9000 ff.

Technical data:

- Height of sieve stack: up to 450mm.
- Max. batch / feed capacity: 3 kg.
- Max. number of fractions (depending on sieve size): 9 / 17.
- Measuring range: 20µm to 25mm.

- Dimensions (W x H x D): 400 x 203 x 350mm.
 - Weight: approx. 30 kg.
 - Suitable sieve sizes: 100 / 150 / 200 / 203mm.
- Sieves, pins and other accessories are not included with the equipment.

Sieves

Type	Max. weight (Kg)	Amplitude	Pack (u.)	Art. No.
AS 200 basic	4	Analogical, 0 to 3mm	1	0300160001
AS 200 digit	4	Analogical, 0,2 to 3mm	1	0300150001
AS 200 control	6	Digital, 0,2 to 3mm	1	0300180001

Accessories not included

Description	Pack (u.)	Art. No.
Clamping device "economy"	1	0323320003
Clamping device "standard"	1	0326620002
Clamping device "comfort"	1	0326620001
Universal clamping device "standard"	1	0326620005
Universal clamping device "comfort"	1	0326620004
Universal wet sieving clamping device "standard"	1	0326620007

For further information, please contact scharlab@scharlab.com

Vibratory Sieve Shakers ANALYSETTE 3 PRO and SPARTAN FRITSCH

For quantitative particle size analysis of dry samples and suspensions of all kind by dry and wet sieving with woven test sieves. FRITSCH sieve shakers satisfy all requirements for accurate and reproducible sieving analysis and perform automatic sieve analysis with the control and evaluation software AUTOSIEVE. The top model ANALYSETTE 3 PRO guarantees absolutely reproducible sieving results due to automatic amplitude control, programme selection, can be integrated into any quality management system acc. to DIN EN ISO 9000, has an RS232-interface - to mention only some of its innovative and practical features.

Technical data:

- Sieving: dry or wet.
- Sieve Ø: 100mm, 200mm or 8"
- Max. number of sieves: 10 x 50mm height or 16 x 25mm height.
- Sieves: woven mesh metal sieves.
- Measuring range: dry sieving: 32µm to 63mm; wet sieving: 20µm to 10mm.
- Sample quantity: dry sieving: up to 1 kg; wet sieving: 20 to 100 g.
- Sieving time: dry sieving: 3 to 20 min; wet sieving: 3 to 10 min.
- Dimensions (L x D x H): 370 x 400 x 200mm.
- Weight: 21 kg.
- Power supply: 100-240 V.

Sieves



Analysette 3 PRO

Description	Pack (u.)	Art. No.
Analysette 3 PRO	1	0003702000
Analysette 3 SPARTAN	1	0003802000

Accessories not included



0031040000



0003110003

Description	For	Pack (u.)	Art. No.
Clamping lid plexiglas for test sieves 200mm/8" Ø	Dry	1	0031202000
Clamping lid Polyamide (without window) for all test sieves up to 200mm/8" Ø	Dry	1	0031205000
Interposed sieve pan made of stainless steel 200mm Ø., 50mm height	Dry	1	0031130003
interposed sieve pan made of stainless steel 8" Ø., 2" height	Dry	1	0031132003
Sieve pan made of stainless steel 200mm Ø., 50mm height	Dry	1	0031100003
Sieve pan made of stainless steel 8" Ø., 2" height	Dry	1	0031102003
Clamping lid plexiglas with 2 rotation nozzles for test sieves 200mm/8" Ø	Wet	1	0031040000
Sieve pan made of stainless steel with outlet 200mm dia., 50mm height	Wet	1	0003110003
Interposed sieving ring with 3 nozzles for test sieves 200mm Ø	Wet	1	0003102400
Sieve pan made of stainless steel with outlet 8" Ø., 2" height	Wet	1	0003111203
Interposed sieving ring with 3 nozzles for test sieves 8" Ø	Wet	1	0003102500



Test Sieves CISA

Test sieves made from stainless Steel with wire mesh are detailed below according to ISO 33101 with 200mm of diameter and 50mm of height being the most common. They are available other test sieves with different dimensions.

Mesh size	Pack (u.)	Art. No.
125,00mm	1	2340820201
112,00mm	1	2340820001
106,00mm	1	2340819801
100,00mm	1	2340819601
90,00mm	1	2340819401
80,00mm	1	2340819201
75,00mm	1	2340819001
71,00mm	1	2340818801
63,00mm	1	2340818601
56,00mm	1	2340818401
53,00mm	1	2340818201
50,00mm	1	2340818001
45,00mm	1	2340817801
40,00mm	1	2340817601
37,50mm	1	2340817401
35,50mm	1	2340817201
31,50mm	1	2340817001
28,00mm	1	2340816801
26,50mm	1	2340816601
25,00mm	1	2340816401
22,40mm	1	2340816201
20,00mm	1	2340816001
19,00mm	1	2340815801
18,00mm	1	2340815601
16,00mm	1	2340815401
14,00mm	1	2340815201
13,20mm	1	2340815001
12,50mm	1	2340814801
11,20mm	1	2340814601
10,00mm	1	2340814401
9,50mm	1	2340814201
9,00mm	1	2340814001
8,00mm	1	2340813801

Mesh size	Pack (u.)	Art. No.
7,10mm	1	2340813601
6,70mm	1	2340813401
6,30mm	1	2340813201
5,60mm	1	2340813001
5,00mm	1	2340812801
4,75mm	1	2340812601
4,50mm	1	2340812401
4,00mm	1	2340812201
3,55mm	1	2340812001
3,35mm	1	2340811801
3,15mm	1	2340811601
2,80mm	1	2340811401
2,50mm	1	2340811201
2,36mm	1	2340811001
2,24mm	1	2340810801
2,00mm	1	2340810601
1,80mm	1	2340810401
1,70mm	1	2340810201
1,60mm	1	2340810001
1,40mm	1	2340809801
1,25mm	1	2340809601
1,18mm	1	2340809401
1,12mm	1	2340809201
1,00mm	1	2340809001
900µm	1	2340808801
850µm	1	2340808601
800µm	1	2340808401
710µm	1	2340808201
630µm	1	2340808001
600µm	1	2340807801
560µm	1	2340807601
500µm	1	2340807401
450µm	1	2340807201

Mesh size	Pack (u.)	Art. No.
425µm	1	2340807001
400µm	1	2340806801
355µm	1	2340806601
315µm	1	2340806401
300µm	1	2340806201
280µm	1	2340806001
250µm	1	2340805801
224µm	1	2340805601
212µm	1	2340805401
200µm	1	2340805201
180µm	1	2340805001
160µm	1	2340804801
150µm	1	2340804601
140µm	1	2340804401
125µm	1	2340804201
112µm	1	2340804001
106µm	1	2340803801
100µm	1	2340803601
90µm	1	2340803401
80µm	1	2340803201
75µm	1	2340803001
71µm	1	2340802801
63µm	1	2340802601
56µm	1	2340802401
53µm	1	2340802201
50µm	1	2340802001
45µm	1	2340801801
40µm	1	2340801601
38µm	1	2340801401
36µm	1	2340801201
32µm	1	2340801001
25µm	1	2340800801
20µm	1	2340800601

For further information, please contact scharlab@scharlab.com



Test sieves
RETSCH

Retsch has developed an unique manufacturing process that guarantees a previously unattained quality and consistency in sieve production.

- One piece construction and fabric transition without any grooves to prevent cross contamination (no solder, no residues etc.).
- A high degree of corrosion resistance and ease of cleaning due to high-alloy stainless Steel (specifications 316).
- 15% lighter than traditional sieves while at the same time increasing the free sieve area.
- Maximum stability and optimum sealing when used in sieve stacks.
- Innovative resistance welding technology guarantees permanently tight sieve fabric.

Specifications for 200x50mm test sieves are detailed below. Also, they are available test sieves of 203mm of diameter and 25mm of height.

Mesh size	Pack (u.)	Art. No.
20µm	1	0131000020
25µm	1	0131000025
32µm	1	0131000032
36µm	1	0131000036
38µm	1	0131000038
40µm	1	0131000040
45µm	1	0131000045
50µm	1	0131000050
53µm	1	0131000053
56µm	1	0131000056
63µm	1	0131000063
71µm	1	0131000071
75µm	1	0131000075
80µm	1	0131000080
90µm	1	0131000090
100µm	1	0131000100
106µm	1	0131000106
112µm	1	0131000112
125µm	1	0131000125
140µm	1	0131000140
150µm	1	0131000150
160µm	1	0131000160
180µm	1	0131000180
200µm	1	0131000200
212µm	1	0131000212
224µm	1	0131000224
250µm	1	0131000250

Mesh size	Pack (u.)	Art. No.
280µm	1	0131000280
300µm	1	0131000300
315µm	1	0131000315
355µm	1	0131000355
400µm	1	0131000400
425µm	1	0131000425
450µm	1	0131000450
500µm	1	0131000500
560µm	1	0131000560
600µm	1	0131000600
630µm	1	0131000630
710µm	1	0131000710
800µm	1	0131000800
850µm	1	0131000850
900µm	1	0131000900
1mm	1	0131001000
1,12mm	1	0131001120
1,18mm	1	0131001180
1,25mm	1	0131001250
1,40mm	1	0131001400
1,60mm	1	0131001600
1,70mm	1	0131001700
1,80mm	1	0131001800
2mm	1	0131002000
2,24mm	1	0131002240
2,36mm	1	0131002360
2,50mm	1	0131002500

Mesh size	Pack (u.)	Art. No.
2,80mm	1	0131002800
3,15mm	1	0131003150
3,35mm	1	0131003350
3,55mm	1	0131003550
4mm	1	0131004000
4,50mm	1	0131004500
4,75mm	1	0131004750
5mm	1	0131005000
5,60mm	1	0131005600
6,30mm	1	0131006300
6,70mm	1	0131006700
7,10mm	1	0131007100
8mm	1	0131008000
9mm	1	0131009000
9,50mm	1	0131009500
10mm	1	0131010000
11,20mm	1	0131011200
12,50mm	1	0131012500
13,20mm	1	0131013200
14mm	1	0131014000
16mm	1	0131016000
18mm	1	0131018000
19mm	1	0131019000
20mm	1	0131020000
22,40mm	1	0131022400
25mm	1	0131025000

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SPECTROPHOTOMETERS



Visible Spectrophotometer 7300 and UV-Visible 7305 JENWAY

- Single beam optical system
- Spectral Bandwidth: 5nm
- Measurement modes for absorbance,% transmittance and concentration.
- Compact design with large display.
- Icon driven software
- Bi-directional PC Software include.
- RS232C output
- Autologging
- Extensive range of accessories available: Peltier, water heated cuvette holder, sipper pump, adjustable path length cuvette holders, test tube and micro-cuvette holders, 8 cell automatic turret, etc.
- Optional integrated printer
- 3 year warranty (including xenon lamp for 7305 model)
- Size: 275x400x220mm
- Weight: 6 kg
- Fitted with a single 10x10mm cuvette holder and supplied with 100 disposable cuvettes, instruction manual, universal power supply, PC software on CD ROM and interface cable.

Description	Wavelength range	Pack (u.)	Art. No.
Visible Spectrophotometer 7300 model	320-1000nm	1	021-073001
UV-Visible Spectrophotometer 7305 model	198-1000nm	1	021-730501



Visible Spectrophotometer 7310 and UV-Visible 7315 JENWAY

- Single beam optical system
- Spectral Bandwidth: 5nm
- Measurement modes for absorbance,% transmittance, concentration, spectrum scanning, kinetics and quantitation.
- Compact design with large display.
- Icon driven software
- Bi-directional PC Software include
- Flash xenon lamp.
- RS232C output
- Autologging
- USB for data/ methods and cloning
- Execute GLP with locking instrument/methods
- Customizable main menu.
- Extensive range of accessories available: Peltier, water heated cuvette holder, sipper pump, adjustable path length cuvette holders, test tube and micro-cuvette holders, 8 cell automatic turret, etc.
- Optional integrated printer
- 3 year warranty (including xenon lamp for 7315 model)
- Size: 275x400x220mm
- Weight: 6 kg
- Fitted with a single 10x10mm cuvette holder and supplied with 100 disposable cuvettes, USB memory stick, instruction manual, universal power supply, PC software on CD ROM and interface cable.

Description	Wavelength range	Pack (u.)	Art. No.
Visible Spectrophotometer 7310 model	320-1000nm	1	021-731001
UV-Visible Spectrophotometer 7315 model	198-1000nm	1	021-073001

For further information, please contact scharlab@scharlab.com

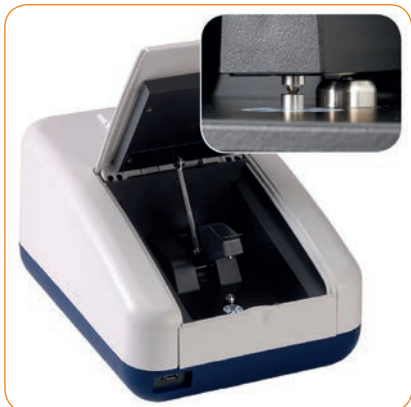


Genova Plus Life Science Spectrophotometer

JENWAY

- Single beam optical system
- Wavelength range UV/visible (198-1000nm)
- 5nm spectral bandwidth
- For use with cuvettes (Possibility of using Traycell)
- Minimum sample volume: 70µl
- Pre-programmed for DNA/RNA analysis
- Pre-programmed methods for protein analysis
- Standard spectrophotometry functions
- Flash xenon lamp
- Icon driven software
- Methods and results saving to USB memory stick
- Fitted with micro-cuvette holder
- Accessories serie 73 available (printer, 8 cell automatic turret, sipper pump, peltier, test tube holders, 100mm cuvette holder, water heated cuvette holder, etc.
- 3 year warranty (including xenon lamp)
- Size: 275x400x220mm
- Weight: 6 kg
- Fitted with micro-cuvette holder, supplied with 10x10mm cuvette holder, pack 100 disposable micro-cuvettes, 4GB USB memory stick, instruction manual and universal power supply.

Description	Pack (u.)	Art. No.
Genova Plus Life Science spectrophotometer	1	021-736501



Genova Nano micro-volume Spectrophotometer

JENWAY

- Wavelength range UV/visible (198-1000nm)
- Only 0.5µl sample volume required
- Detects DNA concentrations as low as 2ng/µl
- Optical path autorange (0,2 or 0,5mm)
- Pre-programmed methods for the measurement of nucleic acid concentrations and protein assays as well as measurement modes to assess the purity of nucleic acids and optical density for cell harvesting
- Measurement modes for photometrics, concentration, multi-wavelength, spectrum scanning, quantitation and kinetics.
- Methods and results saving to USB memory stick (4 Gb)
- Accessories serie 73 available (8 cell automatic turret, sipper pump, peltier, etc.)
- RS-232 output
- No need for a PC for operation
- 3 year warranty (including xenon lamp)
- Size: 275x400x220mm
- Weight: 7,7 kg
- Fitted with micro-cuvette accessory, supplied with 10x10mm cuvette holder, 4GB USB memory stick, instruction manual and universal power supply.

Description	Pack (u.)	Art. No.
Genova Nano micro-volume spectrophotometer	1	021-737501



Cuvettes in CONSUMABLES



SPIRAL PLATERS

Automatic spiral platers EasySpiral® INTERSCIENCE

The EasySpiral® patented technology allows the automatic plating of your sample on a Petri dish in only 25 seconds with a decreasing concentration replacing up to 4 necessary dilutions with a sensitivity from 300 to 130 000 CFU/ml. EasySpiral® is equipped with an innovative unique stylus cleaning device, for the guarantee of perfect disinfection of the stylus and no risk of cross-contamination.

Applications: microbiological tests, food control, MIC control of antibiotics, cosmetics control (challenge test) and pharmaceutical control.

Technical specifications:

- Controlled by microprocessor
- Full cycle time: 25 seconds
- Syringe capacity: 1000µl
- Successive plating capacity with the same sample: 10 Petri dishes (50µl)
- Deposition mode: circle, exponential and uniform*
- Overflow technology: 8 bares pressure
- Automatic monthly cleaning
- Cleaning autonomy: 600 cycles (2L bottles)
- Traceability: Excel™ data export*
- USB programmable volume: 10 to 1000µl *

Delivered with: 1000 sterile beakers, 1 blue dye for testing, 1 liquid detergent, 4 sets of connectors for autoclavable GL45 bottles, spiral counting grids: 90mm & 150mm*, container stand for testing, power cable, user manual, 150mm Petri dish ring*, software on a CD-ROM*, USB cable*.
 (*Only for easySpiral® Pro)



Model	Ø Petri plate (mm)	Preset volume dispensed (µl)	Detection CFU/ml	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
EasySpiral®	90	50, 100	From 300 up to 1.3x10 ⁵ CFU/ml	38x41x29	15,3	1	603-412000
EasySpiral® Pro	90 up to 150	50, 100 and 200	From 30 up to 1x10 ⁷ CFU/ml	38x41x29	15,3	1	603-413000

Accessories

Description	Model	Pack (u.)	Art. No.
Housig protection for platers	EasySpiral® and EasySpiral® Pro	1	603-413001
Beakers DB50, sterile beakers (5ml)	EasySpiral® and EasySpiral® Pro	1.000	603-415100
2l bottle GL45	EasySpiral® and EasySpiral® Pro	1	603-413002
Connection kit for GL45 bottles	EasySpiral® and EasySpiral® Pro	1	603-413003
Bar-code reader	EasySpiral® Pro	1	603-522000

For further information, please contact scharlab@scharlab.com



Automatic serial diluter & plater
EasySpiral® Dilute
INTERSCIENCE

For serial dilutions. EasySpiral® Dilute enables dilutions up to 10⁻⁵ with increased accuracy and automatic standardized plating of 30 to 1 trillion countable CFU/ml on 1 single Petri dish. Very fast, with no risk of cross-contamination. Guaranteed traceability.

Technical specifications:

- Controlled by microprocessor
- Petri dish diameter: 55mm, 90mm and 150mm
- Detection in CFU/ml: from 30 up to 10 million CFU/ml
- Preset dispensed volume: 50, 100 and 200µl
- Syringe capacity: 1000µl
- Successive plating capacity with the same sample: 10 Petri dishes (50 microliters)

- Automatic monthly cleaning
- Cleaning autonomy: 600 cycles (2l bottles)
- Cycle time: 5 automatic dilutions in 90 sec and full plating cycle in 25sec.
- Stylus disinfection system: inside and outside by overflow, 8 bars pressure (patented)
- Plating modes: circle, exponential, constant and pour
- Traceability: Excel™ export, Data Matrix labels
- USB programmable volumes: 10 to 1000 microliters and monitoring process

Delivered with: 1000 sterile beakers, 1 blue dye for testing, 1 liquid detergent, 3 sets of connectors for autoclave, 90mm Spiral counting grid, 150mm Spiral counting grid, 55mm Petri dish ring, 90mm Petri dish ring, 150mm Petri dish ring, software on a Cd-Rom, USB cable, power cable, user manual.

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack	Art. No.
EasySpiral® Dilute	39x42x29	15,6	1	603-414000

Accessories

Description	Pack (u.)	Art. No.
Housing protection for platers	1	603-413001
Adjustable plate for Petri dish	1	603-413019
Beakers DB50, sterile beakers (5ml)	1.000	603-415100
2l bottle GL45	1	603-413002
Connection kit for GL45 bottles	1	603-413003
Bar-code reader	1	603-522000



Spiral plater Eddy Jet 2
IUL

It uses sterile and disposable micro-syringes to avoid any risk of cross-contamination between consecutive samples, and the presence of microorganisms due to insufficient rinse of the washing solution.

With Ethernet connection, USB host ports and RS232 connection, which allow connection to printer or to a barcode reader to ensure traceability. Intuitive software on touch screen. Up to 22 different spiral distributions.

- Petri dish diameter: from 90 to 150mm
- Time for a full cycle: 30s
- 22 spread modes
- Maximum pipeted volume: 100µl
- Minimum step volume: < 0,1µl

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack	Art. No.
Eddy Jet 2 spiral plater	51,5x42x50	20	1	107-003700

Accessories and consumables

Description	Pack (u.)	Art. No.
Irradiated Microsyringes	1.000	107-001780
Irradiated Sample Beakers	1.000	107-001790
Container for disposable microsyringes	1	107-001791
Plate for 15cm Petri Dishes	1	107-001715
EDDY JET Table of Volumes	1	107-001724
Sample cup holder, large	1	107-001829
Printer connection	1	107-002514
External balance connection	1	107-002515

STIRRERS

- Incubator stirrer, *page 999*
- Magnetic stirrers with heating, *page 1000*
- Magnetic stirrers without heating, *page 1012*
- Magnetic stirring bars, *page 1018*
- Overhead mechanical stirrers, *page 1022*
- Platform shakers, *page 1027*
- Vibrating shakers, *page 1039*

STIRRERS: Incubator stirrer

Incubator 1000 HEIDOLPH

This truly unique system enables you to perform a number of functions simultaneously - shaking, mixing and heating with visual reaction control. These platform shakers are compatible with the incubator system: Duomax 1030, Polymax 1040, Titramax 1000, Unimax 1010 und Promax 1020.

- Heating module allows for gentle temperature adjustments up to 65°C
- The electrical heater allows for quick and even temperature distribution throughout the entire enclosure
- Unlimited visual reaction control at all times: the transparent and non-fogging PETG construction offers it all
- Three options available: a flat hood for small vessels and microtiter plates, a high hood for all common medium-sized vessels and even a high hood XL for larger Erlenmeyer flasks up to 2.000ml
- Immediate access: the incubator hood opens instantly and interlocks in any position
- Use INE incubator for numerous shakers - interchangeability is ensured and takes less than 2 minutes. You can incubate and mix simultaneously or independently
- Heating capacity of 300W allows for quick temperature adjustments
- Digital temperature settings up to 65°C and separate display for actual temperature
- To protect your sample from thermal damages this unit features a safety circuit to prevent overheating
- Electrical heater comes with low-noise blower and provides accuracy of $\pm 2^{\circ}\text{C}$ up to 50°C and $\pm 4^{\circ}\text{C}$ over 50°C



0195054994

Model	Height (mm)	Pack (u.)	Art. No.
1000 Incubator (heating module)	-	1	0195054991
Flat hood incubator	163	1	0195054994
High hood incubator	267	1	0195054993
High hood XL incubator	428	1	5499006000

For further information, please contact scharlab@scharlab.com



Incubator shakers KS 3000 i control / KS 3000 IC control

IKA

Innovatively designed, compact incubator shaker to safely allow unattended operation in a temperature- controlled environment. The unit has a large LED display for speed, temperature and timer. An integrated PID temperature control allows the use of PT1000 temperature sensors to assure highly accurate temperature control. The electronically controlled incubator comes equipped with RS232- and USB ports for PC interface. All functions can be controlled and documented using the optional software labworldsoft®.

- Controls with antimicrobial coating for reduction of bacteria
 - Incl. junction box in the workspace for connection of an additional temperature sensor, e. g. PT1000
 - Wide range of attachments allows for using almost all shapes and sizes of vessels
 - Unit stops automatically when hood is lifted
 - Collecting tray with drain hose on rear of the unit
 - Electronic timer
 - Error Art. No. display
- Accessories are not included.

Technical data:

- Orbital Ø: 20mm
- Max. shaker weight (with attachment): 7,5kg
- Motor rating input: 45W
- Speed range: 10 to 500min⁻¹
- Timer: yes
- Operating mode: timer and continuous operation
- Heating temperature range: RT + 5 to 80°C
- Heat output: 1000W
- Temperature stability (0,2l H₂O; RT 25°C, T = 37°C): ±0,1K
- Dimensions (W x H x D): 465 x 430 x 695mm
- Power supply: 230 V

Model	Weight (kg)	Pack (u.)	Art. No.
KS 3000 I control	35	1	0223940000
KS 3000 IC control with integrated cooling	37	1	0223940100

STIRRERS: Magnetic stirrers with heating



AM4

Multiple-position heating magnetic stirrers

VELP

The AM4 and AM4X are a multiple-position hot plate stirrers with four separately controlled stirring plates. The aluminum alloy heating plates are coated with a special protective layer and ensure uniform heat distribution over the entire surface as well as excellent resistance to chemicals. SpeedServo™ ensures constant speed even when load changes. Enhanced operator safety: LED interface enriched for alarms. Clear communication: front panel shows °C and rpm. cNEMKOus certification, compliance with North American rules. Power supply: 230V/50-60Hz

Model	Speed (rpm)	Stirring volume (l)	Temp. (°C)	Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
AM4	Up to 1500	Up to 5 (x 4 positions)	Up to 370	155	2250	8,3	715x115x246	1	0F20500420
AM4X (thermometer connection)	Up to 1500	Up to 5 (x 4 positions)	Up to 370	155	2250	8,3	715x115x246	1	0F20500421

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Aluminum hot plate stirrer ARE/AREX VELP

The ARE has an aluminum alloy heating plate coated with a protective coating in order to ensure uniform heat distribution and excellent resistance to chemicals. The AREX has a socket for the connection of a VTF Vertex digital thermoregulator for direct temperature control of the liquid. Only AREX model comes with the rod Art. No.043-111069 included.

SpeedServo™ ensures constant speed even when load changes.

Enhanced operator safety: LED interface enriched for alarms.

Clear communication: front panel shows °C and rpm

cNEMKOus certification, compliance with North American rules.

Power supply: 230V/50-60Hz



ARE



AREX (Thermoregulator not included)

Model	Speed (rpm)	Stirring volume (l)	Temp. (°C)	Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
ARE	Up to 1500	Up to 15	Up to 370	155	630	2,6	165x115x280	1	0F20500162
AREX (thermometer connection)	Up to 1500	Up to 20	Up to 370	155	630	2,6	165x115x280	1	0F20500413

Digital ceramic hot plate stirrer AREC/AREC.X/AREC.T VELP

The AREC is a digital heating magnetic stirrer with a white ceramic hot plate, that ensures excellent resistance to corrosion and is extremely easy to clean. Is suitable for observing color changes. The control panel is separated from the hot plate to ensure complete safety during the work, while the inclination of the controls has been designed for ease of use by the operator. Integrated electronic system ensures constant speed even when the viscosity changes (counter-reaction).

The "Hot Plate" protects the operator from the risk of burns, during the operation as the instrument is off or if the surface of the plate is still hot.

The new design of this series is more comfortable and safe to handle, and maximum speed and temperature. Metal vessels can be used.

AREC.X can be connected to VTF Vertex digital thermoregulator for direct temperature control of the liquid.

AREC.T has an integrated programmable timer up to 999 minutes with automatic switch off.

Only AREC model comes with the rod Art. No. 043-111069 included.

- Power supply: 230 V



AREC



AREC.X (Thermoregulator not included)



AREC.T

Model	Speed (rpm)	Stirring volume (l)	Temp. (°C)	Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
AREC	Up to 1500	Up to 15	Up to 550	180x180	800	3,3	203x94x344	1	0F20500011
AREC.X (thermometer connection)	Up to 1500	Up to 15	Up to 550	180x180	800	3,3	203x94x344	1	0F20500061
AREC.T (with timer)	Up to 1500	Up to 15	Up to 550	180x180	800	3,3	203x94x344	1	0F20500051



AREX digital

Heating magnetic stirrer AREX Digital

VELP

The AREX Digital is the state-of-the-art hot plate stirrer with aluminum alloy top to provide a uniform heat distribution over the entire surface, coated with a protective ceramic layer that ensures ease of cleaning and excellent resistance to chemicals, scratches and abrasions.

This hot plate stirrer ensures precise thermoregulation of the heating plate as well as a high degree of reliability and safety.

AREX Digital offers the most advanced technology, as it is equipped with digital display to finely set and monitor the stirring speed and the temperature.

It comes with the external probe PT100 in a ready-to-use solution, for direct control of the temperature of the liquid up to 250°C, with an accuracy of $\pm 1.0^\circ\text{C}$.

Model	Speed (rpm)	Stirring volume (l)	Temp. (°C)	Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
AREX Digital	Up to 1500	Up to 20	Up to 370	Ø 155	630	2,6	165x115x280	1	SA20500411



VTF (stirrer not included)

Digital thermoregulator - VTF

VELP

Fuzzy Logic technology allows to adapt automatically the thermoregulation to various factors, such as power, load and thermal dispersion, reducing overheating and subsequent oscillations around the target temperature.

A user-friendly probe positioning system allows the operator to adjust the position of the probe easily and quickly whilst the exclusive timer means that the thermoregulation time can be pre-set.

The VTF Vertex comes complete with temperature probe and power cable for direct connection to the hot plate stirrers AREX and AREC.X.

Model	Material	Temperature (°C)	Voltage (V)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
VTF	Technopolymer	300	12	0,3	75x145x120	1	043-111063



HSC, Heating Magnetic Stirrer

Ceramic hot plate stirrer HSC

VELP

The HSC is an analog hot plate stirrer with white ceramic heating plate, that ensures excellent resistance to corrosion. The control panel is separated from the hot plate to ensure complete safety during the work, while the inclination of the controls has been designed for ease of use by the operator.

An analog solution ideal if you are looking for the best performance at an attractive price.

Power supply: 230 V.

Model	Speed (rpm)	Stirring volume (l)	Temp. (°C)	Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
HSC	Up to 1300	Up to 15	Up to 400	180x180	800	3,3	203x94x344	1	0F20500101

Magnetic stirrers with heating MR Hei-Standard / Hei-Tec / Hei-End HEIDOLPH

Common features MR Hei.

- For your protection an independent safety circuit will switch off heating if hotplate temperature exceeds 25°C of set temperature.
- A separate on/off switch for heating prevents an unintentional heat-up. If heating is switched on the on/off button is illuminated for visual control.

MR Hei-Standard: Model for standard applications without display.

- Large analog knobs allow for convenient speed setting from 100 to 1,400 rpm at an accuracy of 2% and temperature setting up to 300°C.
- Upgrade this hot plate stirrer with the optional digital thermometer EKT Hei-Con that provides precise control of temperature to give you temperature overshoot protection and reproducible results.

MR Hei-Tec: Model for higher requirements and reproducible results.

- This unit features a digital display and allows for the easy setting and monitoring of values on the illuminated readout.
- Digital speed setting from 100 to 1,400 rpm at an accuracy of 2% and temperature setting up to 300°C.
- Upgrade this hot plate stirrer with the optional digital thermometer EKT Hei-Con that provides precise temperature control for temperature overshoot protection and reproducible results.

Mr Hei-End: Model for highest safety.

- An additional operational safety step is required to change parameters which prevents unwanted changes to the actual setting.
- Digital display allows for easy setting and monitoring of values on the illuminated readout. Speed setting from 30 to 1,400 rpm at an accuracy of 1% and temperature setting up to 300°C.
- Hotplate residual heat indicator in the digital display illuminates when unit is turned off and hotplate temperature is above 50°C to prevent accidental operator injury.
- To protect your sample from overheating a safety circuit switches off heating if the temperature sensor is not immersed in your media vessel
- Optional: control software, RS232.

- Power supply: 230 V.

Stirrers



MR Hei-Standard



MR Hei-Tec



MR Hei-End

Model	Speed (min ⁻¹)	Dim. WxHxD (mm)	Max. T (°C)	Power (W)	Weight (Kg)	Pack (u.)	Art. No.
MR Hei-Standard	100 to 1400	173x92x278	300	800	2,6	1	0195504520
MR Hei-Tec	100 to 1400	173x92x278	300	800	2,6	1	0195504530
MR Hei-End	30 to 1400	173x92x278	300	800	2,6	1	0195504550
MR Hei-Tec with probe PT1000	100 to 1400	173x92x278	300	800	2,6	1	019550453X
MR Hei-End with probe PT1000	30 to 1400	173x92x278	300	800	2,6	1	019550455X

Sensors for MR Hei-End

Model	Description	Pack (u.)	Art. No.
PT1000 temperature sensor	Stainless steel	1	5096791000
PT1000 temperature sensor	Glass coated	1	5096792000
Lockarm temperature sensor	425cm, Ø 13mm, stainless steel	1	5098100000
Temperature sensor support	-	1	5096700000

For further information, please contact scharlab@scharlab.com



Magnetic stirrer C-MAG HS IKAMAG® with heating IKA

Magnetic stirrer with heating and ceramic heating plate which offers excellent chemical resistance.

- Fixed safety circuit of 550°C
- Hot Top indicator: hot surface warning to prevent burns
- Exact temperature setting via digital display (LED)
- Digital error Art. No. display
- Elevated control panel for protection against leaking liquids
- Protection class acc. to DIN EN 60529: IP 21

C-MAG HS 4 IKAMAG®:
- Powerful motor for stirring quantities of up to 5l (H₂O)

C-MAG HS 7 IKAMAG®:
- Powerful motor for stirring quantities of up to 10l (H₂O)
- Bushing according to DIN 12878 for connecting a contact thermometer (e. g. ETS-D5) enables precise temperature control
- Max. stirring bar length: 80mm

C-MAG HS 10 IKAMAG®:
- Powerful motor for stirring quantities of up to 15l (H₂O)
- Bushing according to DIN 12878 for connecting a contact thermometer (e. g. ETS-D5) enables precise temperature control
- Max. stirring bar length: 80mm

Technical data:

- Speed range: 100 to 1500min⁻¹
- Heating temperature range: 50 to 500°C
- Permissible ambient temperature: 5 to 40°C
- Permissible relative moisture: 80%
- Power supply: 230 V

Type	Thermal power (W)	Dim. (mm)	Weight (Kg)	Description	Pack (u.)	Art. No.
C-MAG HS 4 IKAMAG®	250	100x100	3	Basic device without accessories	1	0223581000
C-MAG HS 7 IKAMAG®	1000	180x180	5	Basic device without accessories	1	0223581200
C-MAG HS 7 IKAMAG® Package	1000	180x180	5	Includes contact thermometers, support and lockarm, head clamp	1	0229015900
C-MAG HS 10 IKAMAG®	1500	260x260	6	Basic device without accessories	1	0223581400



Magnetic stirrer RCT basic IKAMAG® safety control with heating IKA

The improvement of the bestseller: Now with new technology for more capacity. New: stronger motor for a higher range of speeds. New: Additional temperature control mode for faster heating of medium.

- Integrated temperature control
- Incl. PT1000 temperature sensor (PT1000.60)
- Exact temperature and speed setting via digital display, even when switched off
- Set safety temperature limit displayed digitally
- Hot Top indicator -> hot surface warning to prevent burns!
- Digital error Art. No. display
- With adjustable safety circuit of heating plate temperature (50 - 360°C)
- Safety magnetic stirrer with heating, suitable for unsupervised operation
- Bushing according to DIN 12878 for connecting a contact thermometer, e.g. ETS-D5, enables precise temperature control
- High level of safety thanks to improved heat control technology
- Enclosed assembly (IP 42) guarantees long service life
- Highly polished aluminium heating plate for optimum heat transfer
- Improved magnetic adhesion
- Incl. protection cover H 100

Technical data:

- Stirring quantity max. per stirring position (H₂O) 20l
- Speed range 50 - 1500rpm
- Set-up plate Aluminium alloy, Ø 135mm
- Motor rating input/output: 16 / 9W
- Stirring bar length max. (L x Ø): 80 x 10mm
- Dimensions (W x H x D) 160 x 85 x 270mm
- Heat output 600W
- Heating temperature range room temp. - 310°C
- Power supply: 220-230 V

Model	Description	Pack (u.)	Art. No.
RCT basic IKAMAG® safety control	Basic unit without accessories	1	0223810000

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Magnetic stirrer RCT basic with heating

IKA

Upgraded version of the magnetic stirrer RCT basic. The ergonomic design incorporates the latest technology. Integrated temperature control feature enables connection of a temperature probe for precise temperature control. Additionally, the device comes equipped with a USB interface to reproduce and document trials at any time. Thus making the stirrer more user-friendly, versatile, reliable and safe.

- 'HOT' sign warning to prevent burns
- Digital display for precise monitoring of speed and temperature
- Integrated temperature sensor for precise temperature control
- Rotating knob for adjusting the speed and the temperature
- USB interface to control and document rheological changes and other parameters using la-bworldsoft® software and for updating your firmware

Technical data:

- Max. stirring quantity (H₂O): 20l
- Motor rating input / output: 16 / 9W
- Speed range: 50 to 1500min⁻¹
- Speed display: LED
- Max. stirring bar length: 80mm
- Heat output: 600 W
- Temperature range: RT to 340°C
- Adjustable safety circuit: 50 to 370°C
- Connection for ext. temp. sensor: DIN 12878
- Control accuracy with sensor: ±0.5K
- Set-up plate material: st. steel 1.4301
- Set-up plate dimensions: Ø 135mm
- Dimensions (W x D x H): 160 x 270 x 85mm
- Weight: 3kg
- Power supply: 220-230 V

Model	Description	Pack (u.)	Art. No.
RCT basic	Basic unit without accessories	1	0225019900



With stainless steel plate

Magnetic stirrer RH digital with heating

IKA

Innovatively designed digital magnetic stirrer with heating. Bushing acc. to DIN 12878 for connecting an electronic contact thermometer, such as the ETS-D5. Highly accurate temperature control is possible with sensor placed directly in the medium. High heat output of 600W, adjustable safety temperature from 50 to 360°C. Alternatively available with st. steel compound hot plate to ensure rapid heating or white coated heating plate which offers excellent chemical resistance and is easy to clean.

- Digital display of temperature and speed
- Soft-start of stirring motor
- Strong magnetic field and wide speed range for volumes up to 15l
- Error Art. No. display.
- Easy operation with touch keypad.
- Speed display: LED
- Speed range: 50 to 2000min⁻¹
- Max. stirring bar length: 80mm
- Heat output: 600W
- Heating temperature range: 50 to 320°C
- Connection for external temperature sensor: DIN 12 878
- Set-up plate dimensions: Ø 135mm
- Dimensions (W x H x D): 160 x 90 x 246mm
- Weight: 2kg
- Power supply: 230 V



With coated plate

Type	Description	Pack (u.)	Art. No.
RH digital	With stainless steel hot plate	1	0225019800
RH digital	With white coated hot plate	1	0225029800

For further information, please contact scharlab@scharlab.com



With stainless steel plate



With coated plate

Magnetic stirrers RH basic with heating

IKA

Newly designed, economic magnetic stirrer with heating. Alternatively available with st. steel compound hot plate to ensure rapid heating or white coated hot plate which offers excellent chemical resistance and is easy to clean.

- Soft-start of the stirring motor
- Includes M 10 thread for a support rod
- Strong magnetic field and wide speed range for volumes up to 15 l
- Speed range 50 - 2000 rpm
- Stirring bar length max. 80mm
- Heat output 600 W
- Heating temperature range 50 - 320°C
- Connection for external temperature sensor: DIN 12 878
- Set-up plate dimensions Ø 135mm
- Dimensions (W x H x D) 160 x 90 x 246mm
- Weight 2 kg
- Power supply: 230 V

Type	Description	Pack (u.)	Art. No.
RH basic	With stainless steel hot plate	1	0225019700
RH basic	With white coated hot plate	1	0225029700

Electronic contact thermometers ETS-D5 / ETS-D6

IKA

Electronic contact thermometers.

- With optimised PID control
- RESET function
- Incl. stainless steel sensor H 62.51
- For all magnetic stirrers with contact thermometer bushing according to DIN 12878, class 2 (e. g. IKA, Heidolph and Corning with adapter AD-C1)
- Ensures perfect temperature control without overshooting the set temperature, even in the case of quick heating
- Patented: 3 modes of operation guarantee optimum adjustment to every working method: Operating mode A: Suitable for work with varying parameters (from -50 to 450°C). Safety temperature adjustable. Operating mode B: Suitable for series operation under uniform conditions. Operating mode C: Suitable for unsupervised operation. All values are taken from the memory. This ensures perfect protection against inadvertent improper adjustment.

ETS-D6: For all magnetic stirrers with contact thermometer bushing acc. to DIN 12878, class 2.

- With integrated pH measuring instrument (without pH electrode)
- Large, graphic LCD display with multilingual user guide

Common technical data:

- Resolution: 0,1K
- PT1000 DIN IEC 751 class A
- Supply voltage: 8 to 16 VDC
- Plug: 6 pin DIN 45322
- Connection: DIN 12878 class 2

ETS-D5:

- Measuring accuracy: ±0,2K
- Control derivation: ±0,1K
- Setting accuracy: ±0,5K

ETS-D6:

- Measuring accuracy: ±0,05K
- Control derivation: ±0,2K
- Measuring range: 0 to 14 pH
- Accuracy: ±0,1 pH
- Resolution: ±0,01 pH
- pH connection: BNC bushing

→ Continued on the next page

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Contact thermometers



ETS-D5

Model	Temperature (°C)	Dim. WxHxD (without sensor) (mm)	Weight (Kg)	Pack (u.)	Art. No.
ETS-D5	-50 to 450	82x83x22	0,2	1	0223378000

Accessories



0221545100

Description	Pack (u.)	Art. No.
H 62.51 Stainless steel sensor	1	0222735451
H 66.51 Stainless steel sensor, glass-coated	1	0222735551
H 16 V support rod	1	0221545100
H 44 boss head clamp	1	0222437700
H 38 lockarm	1	0223547700



Agiman with suitable blanket

Magnetic stirrer Agiman with heating J.P. SELECTA

Magnetic stirrer with heating.

- For speeds from 60 to 1600rpm
- Maximum stir volume: 10 litres.
- Plate made from AISI 304 stainless steel, plate diameter 14,5cm
- With safety ring against spills
- Electronic digital control of speed and power to the heater
- From 50 up to 350°C. Accuracy $\pm 2^\circ\text{C}$
- Electronic hotplate digital control
- With a mechanism for attaching heating mantles
- Power supply: 230 V

Control panel:

- Switch on button with indicator lamp for heating and for stirring speed
- Electronic stir speed control
- Electronic heater energy control from 0-100%, synchronised with an indicator lamp that goes on when the mantle is hot
- Illuminated heater indicator when the mantle is "on"
- Supplied with a PTFE coated stir bar and a supporting rod
- Connection at the back to connect: Electronic thermometer "Sensoterm II" and Electronic temperature regulator "Electemp"

Stirrer

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMAN	19x14,5x26	3,5	1	0197000446

Accessories

Description	Pack (u.)	Art. No.
Adaptable blanket to Agiman for 250ml flask	1	0193000447
Adaptable blanket to Agiman for 500ml flask	1	0193000448
Adaptable blanket to Agiman for 1.000ml flask	1	0193000449
Adaptable blanket to Agiman for 2.000ml flask	1	0193000450

For further information, please contact scharlab@scharlab.com



Magnetic stirrer Agimatic-E with heating

J.P. SELECTA

Magnetic stirrer with analogue control heating.

- For speeds from 60 to 1600rpm
- Maximum stir volume: 10 liters
- Plate made from AISI 304 stainless steel, plate diameter 14,5cm
- With safety ring against spills
- Electronic digital control of speed and power to the heater
- From 50 up to 350°C. Accuracy $\pm 2^\circ\text{C}$
- Power supply: 230 V

Control panel:

- Switch on button with indicator lamp for heating and for stirring speed
- Electronic stir speed control
- Electronic temperature control of the heater plate from 50°C to 350°C synchronised with an indicator lamp that functions when the plate is hot
- Illuminated heater indicator when the heater is on
- Supplied with a PTFE coated stir bar of $\varnothing 8 \times 40\text{mm}$ long
- Connection at the back to connect: Electronic thermometer "Sensoterm II" and Electronic temperature regulator "Electemp".

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMATIC E	19x14,5x26	3,5	1	0197002431



Magnetic stirrer Agimatic-ED with heating

J.P. SELECTA

Magnetic stirrer digital control.

- For speeds from 60 to 1600rpm
- For adjustable temperatures from 50°C to 350°C
- Precision $\pm 2^\circ\text{C}$
- Maximum stir volume: 10 liters
- Plate: $\varnothing 14,5\text{cm}$
- With removable safety ring against spillage
- Power supply: 230 V

Control panel:

- Digital display indicating stir speed or temperature
- Push button, parameter selector, Stir speed or Temperature
- Push button, increase parameter value
- Push button, decrease parameter value
- Indicator lamp, safety thermostat "on"
- Push button Stop-Start
- Supplied with a PTFE coated stir bar of $\varnothing 8 \times 40\text{mm}$ long.
- Connection at the back to connect: Electronic thermometer "Sensoterm II" and Electronic temperature regulator "Electemp".

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMATIC ED	19x14,5x26	3,5	1	0197001511



Magnetic stirrer Agimatic-ED-C with heating

J.P. SELECTA

Magnetic stirrer digital control.

- Electronic temperature control of speed and power to the heater
- Silumin upper plate with ceramic surface. Ceramic surface: Excellent conductivity and heat distribution. Unalterable surface. Higher acceleration to reach temperature
- Extreme resistance against chemical agents and scratches
- For speeds from 60 to 1600rpm
- For adjustable temperatures from 50°C to 350°C
- Precision $\pm 2^\circ\text{C}$
- Maximum stir volume: 10 liters
- Plate: $\varnothing 14,5\text{cm}$
- With removable safety ring against spillage
- Power supply: 230 V

Control panel:

- Digital display indicating stir speed or temperature
- Push button, parameter selector, Stir speed or Temperature
- Push button, increase parameter value
- Push button, decrease parameter value
- Indicator lamp, safety thermostat "on"
- Push button Stop-Start
- Supplied with a PTFE coated stir bar of $\varnothing 8 \times 40\text{mm}$ long
- Connection at the back to connect: Electronic thermometer "Sensoterm II" and Electronic temperature regulator "Electemp".
- Temperature sensor PT100

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMATIC ED-C	19x14,5x26	3,5	1	0197001609



Magnetic stirrer Agimatic-N with heating

J.P. SELECTA

Magnetic stirrer with analogue control heating.

- For speeds from 60 to 1600rpm
- Maximum stir volume: 10 litres
- Plate made from AISI 304 stainless steel, plate diameter 14,5cm
- With safety ring against spills
- Electronic digital control of speed and power to the heater
- Up to 350°C
- Power supply: 230 V

Control panel:

- Switch on button with indicator lamp for heating and for stirring speed
- Electronic stir speed control
- Electronic heater energy control from 0-100%, synchronised with an indicator lamp that functions when the plate is hot
- Illuminated indicator when the heater is "on"
- Supplied with a PTFE coated stir bar of Ø 8 x 40mm long
- Connection at the back to connect: Electronic thermometer "Sensoterm II" and Electronic temperature regulator "Electemp".

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMATIC N	19x14,5x26	3,5	1	0197000243



AGIMATIC REV-E

Magnetic stirrer Agimatic-Rev-E with heating

J.P. SELECTA

Reversible magnetic stirrers

- Electronic digital control of stir speed and heater temperature
- For speeds from 60 to 1600rpm
- For adjustable temperatures from 50°C to 350°C
- Precision ±2°C
- Maximum stir volume: 10 litres
- Plate diameter is 14,5cm
- Magnetic reversible action stirrers, with adjustable time stirring periods and precise speed control, provides the following advantages for repeat processes: faster mixing, reduced stirring time, controllable vortex effect, quickly eliminates air from within the sample mixture, degassing and minimum splashing, no loss of sample
- Select movement for one direction or reverse
- Electronic control of the frequency inverting period, from 10-30 seconds
- With safety ring against spills
- Silumin upper plate covered by aisi 304 stainless steel
- Power supply: 230 V

Control panel:

- Digital display indicating stir speed or temperature
- Push button, parameter selector, Stir speed, Temperature or reverse stir speed time
- Push button, increase parameter value
- Push button, decrease parameter value
- Indicator lamp, safety thermostat "on"
- Push button Start-Stop
- Connection at the back to connect: Electronic thermometer "SENSOTERM II", Electronic Temperature Regulator "ELECTEMP"
- Temperature Sensor PT100
- Supplied with PTFE coated stir bar of Ø 8 x 40mm long

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMATIC REV-E	19x14,5x26	3,5	1	0197000836

For further information, please contact scharlab@scharlab.com



AGIMATIC REV-ED-C

Magnetic stirrer Agimatic-Rev-ED-C with heating

J.P. SELECTA

Reversible magnetic stirrers

- Electronic digital control of stir speed and heater temperature
- For speeds from 60 to 1600rpm
- For adjustable temperatures from 50°C to 350°C
- Precision $\pm 2^\circ\text{C}$
- Maximum stir volume: 10 litres
- Plate diameter is 14,5cm
- Magnetic reversible action stirrers, with adjustable time stirring periods and precise speed control, provides the following advantages for repeat processes: faster mixing, reduced stirring time, controllable vortex effect, quickly eliminates air from within the sample mixture, degassing and minimum splashing, no loss of sample
- Select movement for one direction or reverse
- Electronic control of the frequency inverting period, from 10-30 seconds
- With safety ring against spills
- Silumin upper plate with ceramic surface. Ceramic surface: excellent conductivity and heat distribution, unalterable surface, higher acceleration to reach temperature, extreme resistance against chemical agents and scratches
- Power supply: 230 V

Control panel:

- Digital display indicating stir speed or temperature
- Push button, parameter selector, Stir speed, Temperature or reverse stir speed time
- Push button, increase parameter value
- Push button, decrease parameter value
- Indicator lamp, safety thermostat "on"
- Push button Start-Stop
- Connection at the back to connect: Electronic thermometer "Sensoterm II" and Electronic temperature regulator "Electemp".
- Temperature Sensor PT100
- Supplied with PTFE coated stir bar of $\varnothing 8 \times 40\text{mm}$ long

Model	Dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMATIC REV-ED-C	19x14,5x26	3,5	1	0197001610

Accessories for magnetic stirrers

J.P. SELECTA



Rod



Clamp with nut



SENSOTERM II thermometer



PT100 Temperature Probe

Description	Pack (u.)	Art. No.
Support rod	1	0191000725
Clamp with nut	1	0197000251
SENSOTERM II thermometer	1	0191001009
PT100 Temperature Probe	1	0191001610

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Multimatic 5-S and 9-S

Multiple position magnetic stirrers "Multimatic"

J.P. SELECTA

Multiple position magnetic stirrers

- External plate made from AISI 304 stainless steel with engraved stirrer positions
- Independent stirring speed control for each position
- Front panel protected against splashes
- Epoxy coated external case
- Power supply: 230 V

Applications

- Specially recommended for bio-pharmaceutical diagnostic assays
- Comes complete with a 5 or 9mm stir bar, model dependent covered in PTFE of Ø 8 x 32mm long

Control panel:

- Illuminated mains switch
 - Individual position stir speed control
- Models 5-S and 5-N: Suitable for 5 flasks, 600ml max. (max. 90mm)
 Model 9-S and 9-N: Suitable for 9 flasks, 300ml max. (max. 75mm)

S model: without heating

N model: with heating. Mains illuminated power switch

Individual speed control for each position

Electronic heater energy control from 0-100% synchronised with an indicator lamp when the heater is on

Stirrers without heating

Model	Dim. WxHxD (cm)	Dim. plate WxD (cm)	Max. T (°C)	Reg. vel. (rpm)	Max. volume (ml)	Weight (Kg)	Heater power (W)	Pack (u.)	Art. No.
MULTIMATIC 5-S	28x11x35	28x33	-	Until 1600	5x600	7	16	1	0197000951
MULTIMATIC 9-S	28x11x35	28x33	-	Until 1600	9x300	9	27	1	0197000952

Basin to be immersed in a water bath. Adaptable to the "Multimatic" 5-S and 9-S stirrers without heating. To withstand temperatures up to 60°C. To thermostate this basin contact us.



Methacrylate cuvette

Description	Pack (u.)	Art. No.
Transparent methacrylate bath	1	0191001007

Stirrers with heating

Model	Dim. WxHxD (cm)	Dim. plate WxD (cm)	Max. T (°C)	Reg. vel. (rpm)	Max. volume (ml)	Weight (Kg)	Heater power (W)	Pack (u.)	Art. No.
MULTIMATIC 5-N	28x16x35	25x25	300	Until 1600	5x600	12	680	1	0197000953
MULTIMATIC 9-N	28x16x35	25x25	300	Until 1600	9x300	14	680	1	0197000954

For further information, please contact scharlab@scharlab.com

STIRRERS: Magnetic stirrers without heating

**Magnetic stirrer without heating ATE
VELP**

High power magnetic stirrer suitable for medium-high volumes. It is able to keep the set rpm constant even when the densities of the liquids being stirred change.
Power supply: 230 V.

Model	Speed (rpm)	Stirring volume (l)	Material	Ø Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
ATE	Up to 1200	Up to 25	Aluminium epoxy	250x285	15	3,7	250x120x285	1	043-100165


**Ultraflat magnetic stirrer without heating ESP
VELP**

Ultraflat magnetic stirrer with no moving mechanical components, it is therefore maintenance-free.
The stirring system consists of coils that induce a rotating magnetic field.
A gentle start-up ensures optimum progression of the stirring speed whilst its modern, ergonomic structure is made of materials that ensure a high resistance to chemical reagents.
Power supply: 100-240 V.

Model	Speed (rpm)	Stirring volume (l)	Material	Ø Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
ESP	Up to 1100	Up to 5	Technopolymer	160x230	5	0,9	160x33x230	1	043-100179


**Magnetic stirrer without heating MST
VELP**

Small, simple and efficient stirrer. Extremely useful where a small but reliable instrument is needed, the white surface makes it particularly suitable for microtitrations.
The MST magnetic stirrer remains cold even after several days of continuous use, a feature that is highly appreciated in microbiology and biochemistry.
Its ABS structure ensures a high resistance to a chemical reagents.
Power supply: 100-240 V.

Model	Speed (rpm)	Stirring volume (l)	Material	Ø Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
MST	Up to 1100	Up to 5	ABS	130x150	0,6	0,4	130x50x150	1	043-100160

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Magnetic stirrers without heating AMI / AMI 4 VELP

AMI is an illuminated single-position magnetic stirrer particularly useful for titrations where optimum lighting conditions are needed in order to identify the colorimetric end point.

AMI 4 offers the same benefits with 4 separately controlled positions.

AMI Series is especially recommended for titrations that have subtle color changes.

Power supply: 100-240 V.



AMI



AMI 4

Model	Speed (rpm)	Stirring volume (l)	Material	Ø Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
AMI	Up to 1100	Up to 5	Aluminium epoxy	150x270	1,2	1,2	150x55x270	1	0F204A0167
AMI 4	Up to 1100	Up to 20	Aluminium epoxy	600x270	4,8	4	600x55x270	1	043-100168

Magnetic stirrers without heating MULTISTIRRER 6 / 15 VELP

Magnetic stirrers that can stir from 6 to 15 beakers at the same time.

MULTISTIRRER Series remains cold even after several days of continuous operation, a feature that is highly appreciated in microbiology and bio-chemistry.

Power supply: 100-240 V.



MULTISTIRRER 6



MULTISTIRRER 15

Model	Speed (rpm)	Stirring volume (l)	Material	Ø Plate (mm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
MULTISTIRRER 6	50 - 850	6x0,4	Aluminium epoxy	230x370	3,6	1,75	230x51,5x370	1	0F203A0177
MULTISTIRRER 15	50 - 850	15x0,25	Aluminium epoxy	230x370	9	2,1	230x51,5x370	1	0F203A0178

For further information, please contact scharlab@scharlab.com

Magnetic Stirrers without heating MR HEI-MIX S / L / D HEIDOLPH

For gentle stirring.

HEI-MIX S:

- Speed range up to 2,200rpm
- Space-saving unit for efficiently mixing sample sizes up to 5 liter
- Small footprint of 126 x 80 x 140mm only, and the top plate comes with a diameter of 104mm
- Ideal for titrations due to white-colored top plate
- Long-lasting polyamide housing and PVDF top plate material

HEI-MIX L/D:

- Top plate is insulated from the motor and protects your heat-sensitive samples from any thermal damage
- The rotation speed ramps up slowly until it has reached the pre-programmed speed
- Top plate diameter of 145mm and a speed range from 100 to 1,400 rpm is ideal for quantities up to 20 liter
- Hermetically-sealed housing prevents corrosion and increases the service life of your unit
- You can even work with dry ice - a robust thermal insulation prevents corrosion inside the housing which minimizes dripping of condensate on the electronic components
- Top plate material of finest-quality stainless steel
- **Hei-Mix D:** with display

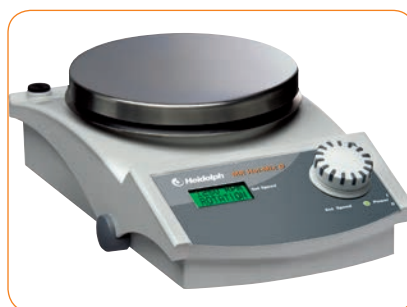
- Power supply: 230 V.



MR Hei-Mix S



MR Hei-Mix L



MR Hei-Mix D

Description	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
MR Hei-Mix S	120x80x140	1,2	1	0195503039
MR Hei-Mix L	173x94x277	2,6	1	0195504500
MR Hei-Mix D	173x92x278	2,6	1	0195504501

Magnetic Stirrers without heating big squid IKAMAG IKA

The improved magnetic stirrers now in new designs.

- New: Digital speed display (LED)
- New: Electronically controlled motor for more capacity
- New: Higher speed range from 0 - 2.500rpm
- Outstanding chemical resistance due to glass top and synthetic bottom made of TPC-ET
- Stirring quantity max. per stirring position (H₂O) 1,5l
- Motor rating input/output 3 / 2W
- Stirring bar length max. 30mm
- Set-up plate dimensions Ø 160mm
- Dimensions (W x H x D) 180 x 40 x 195mm
- Weight 0,7kg
- Power supply: 100-240 V.



White



Hibiscus



Leaves



Ice



Twist

Description	Pack (u.)	Art. No.
White	1	0223672000
Hibiscus	1	0223857400
Leaves	1	0223857100
Ice	1	0223857200
Twist	1	0223857300



Magnetic Stirrers without heating C-MAG MS IKAMAG® IKA

- Magnetic stirrer without heating.
- With ceramic set-up plate which offers excellent chemical resistance
 - Powerful motor for stirring quantities of up to 5l (H₂O) for C-MAG MS 4, 10l for C-MAG MS 7, 15l for C-MAG MS 10
 - Elevated control panel for protection against leaking liquids
 - Speed Range: 100 - 1500min⁻¹
 - Permissible ambient temperature: 5 to 40°C
 - Permissible relative moisture: 80%
 - Power supply: 230 V.

Model	Stirring volume (l)	Dim. WxH (mm)	Weight (Kg)	Pack (u.)	Art. No.
C-MAG MS 4 IKAMAG®	5	100x100	3	1	0223582200
C-MAG MS 7 IKAMAG®	10	180x180	5	1	0223582400
C-MAG MS 10 IKAMAG®	15	260x260	6	1	0223582600

Magnetic Stirrers without heating color squid IKAMAG IKA

- The improved small magnetic stirrer now in new design.
- New: Digital speed display (LED)
 - New: Electronically controlled motor for more capacity
 - New: Higher speed range from 0 - 2.500rpm
 - New: Max. stirring quantity 1l
 - Outstanding chemical resistance due to glass top and synthetic bottom made of TPC-ET
 - Motor rating input/output 3 / 2W
 - Stirring bar length max. 30mm
 - Set-up plate dimensions Ø 115mm
 - Dimensions (W x H x D) 145 x 45 x 160mm
 - Weight 0,55kg
 - Power supply: 100-240 V.



White



Stars and stripes



Solar sphere



Red flag



Seleção



Union Jack



Zebra



Bubbles



Wave



Palm

Description	Pack (u.)	Art. No.
White	1	0223671000
Stars and stripes	1	0224175100
Solar sphere	1	0224175300
Red flag	1	0224175400
Seleção	1	0224175500
Union Jack	1	0224175200
Zebra	1	0223698200
Bubbles	1	0223698300
Wave	1	0223698400
Palm	1	0223698500

For further information, please contact scharlab@scharlab.com

Magnetic Stirrers without heating Multi-position RO 5 / 10 / 15

IKA

Multi-position magnetic stirrer with 5 (RO 5), 10 (RO 10) and 15 (RO 15) stirring positions without heating

- The stainless steel surface covers the unit allowing easy cleaning and providing protection against the penetration of liquids
- Optimum use of laboratory space
- Including removable PUR cover
- Adjustable Reversible operation
- Error Art. No. Display
- Adjustable speed in increments of 10min⁻¹

Technical data:

- Stirring quantity max. per stirring position (H₂O) 0,4l
- Stirring position distance 90mm
- Speed deviation of individual stirring positions 0%
- Speed range 0 - 1200rpm
- Set-up plate material stainless steel 1.4301
- Power supply: 100-240 V.

Accessories are available on request.



RO 5



RO 10



RO 15

Type	Positions	Plate (mm)	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
RO 5	5	120x470	120x60x570	3	1	0223690500
RO 10	10	190x470	190x60x570	5	1	0223691000
RO 15	15	280x470	280x60x570	7	1	0223692500

Magnetic stirrers with heating
in **page 1000**



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Magnetic Stirrers without heating Topolino / Topolino mobil

IKA

Extremely convenient magnetic mini-stirrer for mixing quantities up to 250ml

- Durable, brushless motor
- Infinitely variable speed range
- High magnetic adhesion

Topolino Mobil also:

- Portable operation with long operating time (8-12h)
- Short charging time (2-3h)
- Standard replaceable AA rechargeable batteries
- Optional power mode: mains-free with standard batteries, with supplied mains adapter (without batteries), combined mains/battery operation (with batteries fitted)

Additional data:

- Motor rating input/output: 1,1 – 0,8W
- Speed range 300 - 1800rpm
- Max. magnetic bar (L x Ø): 40 x 6mm
- Power input 10W
- Dimensions (W x H x D) Topolino 95 x 37 x 115mm, Topolino mobil Ø 140mm
- Weight 0,30kg
- Power supply: 100-240 V.



Topolino



Topolino mobil

Description	Pack (u.)	Art. No.
Topolino	1	0223368000
Topolino mobil	1	0223381300



Magnetic stirrer Agimatic-S without heating

J.P. SELECTA

Magnetic stirrer without heating.

- For speeds from 60 to 1600rpm
- Maximum stir volume: 10liters
- Plate made from AISI 304 stainless steel, plate diameter 14,5cm
- With safety ring against spills
- Power supply: 230 V

Control panel:

- Switch on button with indicator lamp
- Electronic stir speed control
- Supplied with a PTFE coated stir bar of 8 Øx40mm. Long

Model	Ext. dim. WxHxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
AGIMATIC S	19x14,5x26	3,5	1	0197000242

For further information, please contact scharlab@scharlab.com

STIRRERS: Magnetic stirring bars
Magnetic stirring bars PTFE BRAND

Magnetic stirring bars PTFE coated

Cylindrical stir bars with a round and smooth surface, PTFE coated. For universal application. BRAND.


Length (mm)	Ø (mm)	Pack (u.)	Art. No.
2,5	2,5	1	022-137100
3,5	3,5	1	022-137101
5	2	1	022-137102
6	3	1	022-137103
7	2	1	022-137106
8	1,7	1	022-137107
8	3	1	022-137104
10	3	1	022-137108
10	6	1	022-137113
12	4,5	1	022-137105
13	3	1	022-137109
15	1,7	1	022-137111
15	4,5	1	022-137110
15	6	1	022-137114
20	6	1	022-137115
25	6	1	022-137120
30	6	1	022-137125
35	6	1	022-137127
40	8	1	022-137130
45	8	1	022-137132
50	8	1	022-137135
57	27	1	022-137137
60	9	1	022-137140
70	9	1	022-137145
80	9	1	022-137150
108	27	1	022-137155
159	27	1	022-137160

PTFE coated cylindrical conical stir bars. Round and smooth surface. Lower surface contact due to the increase in diameter in the centre. BRAND.


Length (mm)	Ø (mm)	Pack (u.)	Art. No.
10	4	1	022-137618
20	7	1	022-137175
25	8	1	022-137178
30	8	1	022-137180
60	8	1	022-137195

Octahedral stir bars with pivot ring. PTFE Coated. Great vibration due to the angular surface, even at low revs. Suitable for vessels with irregular bottom. The pivot ring reduces surface contact and detects the optimum rotational position. BRAND.


Length (mm)	Ø (mm)	Ø ring (mm)	Pack (u.)	Art. No.
13	8	10	1	022-137607
15	8	9,5	1	022-137608
25	8	9,5	1	022-137610
25	10	11	1	022-137612
38	8	9,5	1	022-137615
38	10	11	1	022-137617
51	8	9,5	1	022-137168
51	10	11	1	022-137620
64	10	11	1	022-137622
75	12	14,5	1	022-137625

→ Continued on the next page

Cylindrical stir bars with pivot ring. PTFE Coated. Suitable for vessels with irregular bottoms. Pivot ring reduces surface contact and detects the optimum rotational position. BRAND.



Length (mm)	Ø (mm)	Ø ring (mm)	Pack (u.)	Art. No.
8	3	4	1	022-137404
12	4,5	6	1	022-137405
15	4,5	6	1	022-137410
20	6	8	1	022-137415
25	6	7	1	022-137420
30	6	7,5	1	022-137425
35	6	8	1	022-137427
40	8	8,5	1	022-137430
45	8	10	1	022-137432
50	8,5	11	1	022-137435
60	8,5	11	1	022-137437
70	8,5	10	1	022-137445

Elliptical stir bars. PTFE Coated. Perfect for round bottom vessels. BRAND.



Length (mm)	Ø (mm)	Pack (u.)	Art. No.
10	5	1	022-137300
15	6	1	022-137301
20	10	1	022-137302
25	12	1	022-137305
32	15	1	022-137307
34	15	1	022-137310
40	20	1	022-137312
50	20	1	022-137315
65	20	1	022-137320
70	20	1	022-137325

Triangular-shaped stir bars. PTFE Coated. BRAND.



Length (mm)	Ø (mm)	Pack (u.)	Art. No.
12	6	1	022-137805
20	8	1	022-137807
25	8	1	022-137810
25	14	1	022-137812
35	10	1	022-137815
40	14	1	022-137817
50	12	1	022-137820
55	14	1	022-137822
80	14	1	022-137826

Double ended stir bars. Well centered little surface contact and high turbulence, even at low speeds. BRAND.



Length (mm)	Ø (mm)	Ø disk (mm)	Pack (u.)	Art. No.
37	8	20	1	022-137930
54	8	20	1	022-137935

Circular star head stir bars. Special shape for small vessels. Particularly effective agitation. BRAND.



Length (mm)	Ø (mm)	Pack (u.)	Art. No.
8	10	1	022-137905
10	14	1	022-137910
13	17	1	022-137915

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Star head stir bars. PTFE Coated. Stable rotation position, very good agitation. BRAND.


Length (mm)	Ø (mm)	Pack (u.)	Art. No.
10	5	1	022-137630
20	9	1	022-137632
25	10	1	022-137634
30	12	1	022-137636
38	15	1	022-137638

**Stir-bar PTFE
J.P. SELECTA**

Stir-bar PTFE coated. High chemical resistance

Stir bars with pivot ring. PTFE coated, resistant to temperatures of +275°C.


Ø (mm)	Length (mm)	Pivot ring	Pack (u.)	Art. No.
6	10	No	1	0191000009
4	12	No	1	0191000012
7	20	Yes	1	0191000019
8	32	Yes	1	0191000032
8	40	Yes	1	0191000039
10	45	Yes	1	0191000045
12	75	Yes, scrollable large volumes.	1	0191001061
16	102	Yes, scrollable large volumes.	1	0191001062
16	127	Yes, scrollable large volumes.	1	0191001063
19	150	Yes, scrollable large volumes.	1	0191001064

Triangular stir bars "TRIMAG". PTFE coated, resistant to temperatures of +275°C. Useful for solid disolutions and stirring silts. Silent stirring and excellent stability. For flat bottomed vessels.


Side (mm)	Length (mm)	Pack (u.)	Art. No.
9	35	1	0191000536
14	40	1	0191000537
12	50	1	0191000538
14	55	1	0191000539

Star head stir bars. Circular, PTFE coated, resistant to temperatures of +275°C. Useful for tubes, flasks and round bottom flasks.


Diameter (mm)	Height (mm)	Pack (u.)	Art. No.
25	15	1	0191000790
40	17	1	0191000791

Concentric stir bars with a cover for "CENTRIMAN" beakers. PTFE Coated, adjustable axis bar made of AISI 304 stainless steel. For capacities from 100 to 2000ml. Soft start stirring and adjustable height preventing the stir bar from jumping inside the vessel. Conical cover in polypropylene with excellent chemical and thermal properties. Resists temperatures up to 160°C. Self-lubricating hole in the central axis and two lateral holes.


Beaker capacity (ml)	Stir-bar length (mm)	Pack (u.)	Art. No.
100 to 500	32	1	0191000900
500 to 1000	50	1	0191000901
1000 to 2000	55	1	0191000902

"ROTOR-PAT" stir bar. PTFE coated, resistant to temperatures of +275°C. Excellent stability and high turbulence, useful for convex or round bottomed containers.


Ø (mm)	Length (mm)	Pack (u.)	Art. No.
11 máx.	35	1	0191000001

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Oval Stir bars. PTFE coated, resistant to temperatures of +275°C. Useful for all types of vessels and especially for round bottomed oes.



Ø (mm)	Length (mm)	Pack (u.)	Art. No.
16	30	1	0191000788
20	40	1	0191000789

Floating stir bars "IMANFLOTTER". Made completely from PTFE, dismantable structure, autoclavable. Designed for constant stirring at an extremely low speed. Recommended for work in tissue culture. The floating magnet is designed to, minimize the crushing of the cells, as there is no friction. At average speeds it prevents the stir bar from jumping inside the container.



Total length (mm)	Stir-bar length (mm)	Pack (u.)	Art. No.
50	39	1	0191000897
60	45	1	0191000898

Box of 17 assorted stir bars. Pivot ring stir bars: 1 of 6x10mm, 1 of 4x12mm, 1 of 7x20mm, 2 of 8x32mm, 2 of 8x40mm, 1 of 10x45mm. Triangular stir bars: 1 of 9x35mm, 1 of 14x40mm, 1 of 12x50mm and 1 of 14x55mm. 1 Rotor-Pat stor bar of 11x35mm. Oval stir bars: 1 of 16x30mm and 1 of 20x40mm. Star head stir bars: 1 of 20x15mm and 1 of 40x17mm.

Description	Pack (u.)	Art. No.
Box od 17 assorted	1	0191000487

Stir bar retrievers. Flexible, PTFE coated.



Description	Pack (u.)	Art. No.
Retrievers Rod 280mm	1	0191000020

**Magnetic stirrers
in page 1000**



For further information, please contact scharlab@scharlab.com

STIRRERS: Overhead mechanical stirrers


LH

**Overhead Stirrer LH/DLH
VELP**

The LH and DLH are the ideal solution for high viscosity liquids. A microprocessor ensures constant speed even when the viscosity changes (counter-reaction). A special system blocks the stirrer in case of incorrect functioning thus ensuring safe operation. The LH and DLH are fitted with user-friendly self-locking chucks.

The self-locking chuck without key, and the technologies adopted ensure reliability, ease of use, with maximum use of space and reduced weight. The DLH has two clear and easy-to-read displays showing the current speed and the set speed. The support rod (Art. No.043-111300), the double key (Art. No.043-111301) and the handle tape (Art. No.043-111302) are not included. Also excluded stirring rods which are detailed below.

Power supply: 80-260 V.

Model	Speed (rpm)	Stirring volume (l)	Viscosity (mPas)	Material	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
DLH, digital displays	50 - 2000	Up to 40	Up to 50.000	Technopolymer and aluminum epoxy	190	3,5	80x230x196	1	0F201A0157
LH	50 - 2000	Up to 40	Up to 50.000	Technopolymer and aluminum epoxy	190	3,4	80x230x196	1	0F201A0156



ES

**Overhead Stirrers ES/LS
VELP**

Economic overhead stirrer for low/medium viscosity liquids. A special system blocks the stirrer in case of incorrect functioning thus ensuring safe operation. The technology and materials used provide a lightweight, better use of space, easy to use, reliable and quiet operation.

Compact structure and ergonomic line makes reliable and nice design instrument.

The self-locking chuck without key, and the technologies adopted ensure reliability, ease of use, with maximum use of space and reduced weight. The support rod (Art. No.043-111300), the double key (Art. No.043-111301) and the handle tape (Art. No.043-111302) are not included. Also excluded stirring rods which are detailed below.

Power supply: 80-260 V.

Model	Speed (rpm)	Stirring volume (l)	Viscosity (mPas)	Material	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
ES	50 - 1300	Up to 15	Up to 1000	Technopolymer and aluminum epoxy	35	1,7	80x160x200	1	0F201A0152
LS	50 - 2000	Up to 25	Up to 25000	Technopolymer and aluminum epoxy	120	2,8	80x215x196	1	0F201A0151

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Stirring shafts VELP

Stainless steel rod. Must be chosen taking into account the power of the stirrer, the sample volume and the viscosity stirring. The technical features and application areas of the stirring shafts are summarized below.



043-111304



043-111305



043-111306



043-111307



043-111308



043-111309



043-111310



043-111311

Description	Number of blades	Ø Blade (mm)	Ø Shaft (mm)	Shaft length (mm)	Speed (rpm)	Viscosity (mPas)	Pack (u.)	Art. No.
Stirring shaft with floating blades	2	93	7	400	250 to >800	0 to 1.000	1	043-111304
Stirring shaft with folding blade	1	60	7	400	250 to >800	0 to 1.000	1	043-111305
Stirring shaft with fix blades	1	50	7	400	250 to >800	0 to 10.000	1	043-111306
Stirring shaft with propeller	3	60	7	400	250 to >800	0 to 10.000	1	043-111307
Stirring shaft with paddle, 6 holes	1	69	7	450	<250 to 800	100 to 10.000	1	043-111308
Stirring shaft with turbine	10	49	7	450	250 to >800	1.000 to 100.000	1	043-111309
Stirring shaft with turbo propeller	3	46	7	450	250 to >800	1.000 to 100.000	1	043-111310
Stirring shaft with anchor	2	45	7	450	<250 to 800	1.000 to 100.000	1	043-111311



RZR 2051 control

Overhead Electronic Stirrers RZR 2051 control, 2102 control, 2102 control Z and 2052 control HEIDOLPH

These models are ideal for any demanding stirring task in which the viscosity varies during the entire process either through reaction or due to mixing. Electronic stirrers maintain exact speed under changing load. It gives information relating to the actual viscosity and all results are reproducible.

- Accept 200% peak overload for a limited period of time. Your process therefore will not be interrupted
- Reproducible results made easy
- Set your speed of choice on the self-explanatory panel or via digital interface from 30 - 2.000rpm
- Enhanced bright digital display for torque and speed
- Shipment includes a 10-mm chuck as standard

The **RZR 2051 control** and the RZR 2052 control are a 1-gear stage lab stirrers. The RZR 2052 control enhanced bright digital display for torque and speed.

The **RZR 2102 control** and the RZR 2102 control Z are a 2-gear stage lab stirrers. Choose between 2 options for gear setting, speeds from 12 - 2.000rpm.

The **RZR 2052 control** uses rheostat or interface.

The **RZR 2102 control Z** is indicated to extreme viscosities up to 350.000mPas. This unit does not feature the through-shaft design for impeller adjustment.

Power supply: 230 V.

Type	Power (W)	Speed (rpm)	Max. torque (Ncm)	Viscosity max. (mPas)	Speed indicator	Pack (u.)	Art. No.
RZR 2051 control	50	50 to 2.000	40	10.000	Digital	1	0195012051
RZR 2052 control	100	30 to 1.000	180	40.000	Digital	1	0195012052
RZR 2102 control	100	I: 12 to 400; II: 60 to 2.000	400	100.000	Digital	1	0195012102
RZR 2102 Z control	100	I: 4 to 108; II: 17 to 540	800	350.000	Digital	1	0195012103



RZR 2041

Overhead Mechanical Stirrers RZR 2020, 2021 and 2041 HEIDOLPH

The **RZR 2020** lab stirrer is an outstanding choice for all medium to high-viscosity mixing tasks with a maximum viscosity of 60.000mPas.

Model RZR 2020 comes with a display and is designed for applications that do not require accurate settings.

A 2-gear stage design guarantees the highest power over the entire speed range of 40 - 2.000rpm. A maintenance-free sparkless motor ensures 27 W output power and performs stirring torque peaks up to 400Ncm.

The **RZR 2021** lab stirrer is an outstanding choice for all medium to high-viscosity mixing tasks with a maximum viscosity of 60.000mPas.

Model RZR 2021 features a bright digital display for accurate speed settings.

A 2-gear stage design guarantees the highest power over the entire speed range of 40 - 2.000rpm. A maintenance-free sparkless motor ensures 27W output power and performs stirring torque peaks up to 400Ncm.

The **RZR 2041** lab stirrer is an excellent choice for any high-viscosity mixing with a maximum viscosity up to 100.000mPas. This model features a bright digital display for accurate speed settings.

A 2-gear stage design guarantees the highest power over the entire speed range of 40 - 2.000rpm. A maintenance-free sparkless motor ensures 37W output power and performs stirring torque peaks up to 520Ncm.

Power supply: 230 V.

Type	Power (W)	Speed (rpm)	Max. torque (Ncm)	Viscosity max. (mPas)	Speed indicator	Pack (u.)	Art. No.
RZR 2020	27	I: 40 to 400; II: 200 to 2000	400	60.000	Scale	1	0195012020
RZR 2021	27	I: 40 to 400; II: 200 to 2000	400	60.000	Digital	1	0195012021
RZR 2041	37	I: 40 to 400; II: 200 to 2000	520	100.000	Digital	1	0195012041

Stirring shafts for Stirrers RZR HEIDOLPH

Stirring rods. Recommended for medium or low speed. AISI 304 stainless steel, blade size 50x12mm, Length 400mm, Ø 8mm shaft.



Type	Number of blades	Blade size (mm)	Length (mm)	Material	Pack (u.)	Art. No.
BR 10 Cross blade rod	4	50x12	400	AISI 304 stainless steel	1	0195091000
BR 11 Straight Blade rod	2	50x12	400	AISI 304 stainless steel	1	0195091100
BR 12 Blade impeller pivoting	2	60x15	400	AISI 304 stainless steel	1	5091200000
BR 13 Square Blade rod	1	70x70	450	AISI 304 stainless steel	1	5091300000
BR 14 Blade impeller pivoting	2	90x10	400	AISI 304 stainless steel	1	5091400000
HR 18 Half-moon rod	2	65x18x3	350	PTFE	1	5091800000

PR 30 rod with a pitched blade propeller type impeller. Recommended for cases requiring medium to high speed. Excellent properties for homogenization and suspensions. This model creates an axial flow. AISI 304 stainless steel, propeller diameter 58mm, length 400mm, Ø 8mm shaft.



Description	Pack (u.)	Art. No.
PR 30 Shovel rod torsion	1	5093000000

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VISCO JET® Impellers. The patented cone principle creates, even at low speeds, a unique turbulent flow VISCO JET®. Even with gels that do not mix in a natural way using the common rod, immediately establishing a flow around the beaker. This technology enables the removal of gas from gels while simultaneously preventing the formation of air bubbles or foam. Significantly reducing processing times while getting the best results with their mixtures.



0195050950



0195050951



0195050952

Ø (mm)	Material	Speed (rpm)	Ø flask (mm)	Pack (u.)	Art. No.
60	Stainless steel AISI 316Cb	200 to 800	80 to 150	1	0195050950
80	Stainless steel AISI 316Cb	200 to 700	115 to 200	1	0195050951
80	Plastic (POM), hub:brass, shaft:polyamide coated	200 to 700	115 to 200	1	0195050952
120	Stainless steel AISI 316Cb	120 to 500	170 to 300	1	0195050953
120	Plastic (POM), hub:brass, shaft:polyamide coated	120 to 500	170 to 300	1	0195050954

Accessories for RZR Stirrers

HEIDOLPH



0195703100

Type	Dimensions	Description	Pack (u.)	Art. No.
Universal Stand S2	425x420mm. Stand tube Ø: 25mm. Length: 700mm	-	1	0195703100
Universal Stand S2 XXL	Stand tube Ø: 25mm. Length: 1.000mm	Recommended especially for RZR 2102 control Z	1	5701220000
Telescope Stand	Stand tube Ø: 32mm. Adjustable length: 725 - 1.025mm	-	1	0195057011
Clamp	Ø 13 to 32mm	For stand S2, S2 XXL and telescope stand	1	0195701200
Shaft Guard	Adjusts between 187mm and 312mm	Material: PMMA, for RZR 2020 - 2102 Stirrers	1	5090800000
Chuck	8mm	For RZR 1 stirrer	1	5090100000
Chuck	10mm	For RZR 2020-2102 stirrers	1	5090200000
Stirrer Guide (NS 29/32)	-	PTFE with adjustable seal, accepts Ø 8mm shafts	1	0195050909
Flex-coupling	-	Includes clamping stud for stirrer shaft, accepts 10mm dia. max.	1	0195050903
Flexible shaft	-	Comes with chuck Ø 8mm. Not for RZR 2102 control Z	1	0195050907
Watch & Control software	-	For all electronic stirrers	1	5922000000



RW 20 digital

Overhead stirrer RW 20 digital

Propeller stirrer with digital display. Technical improvements on the reputable RW 20 series:

- New: With digital display
- New: Robust, slimline, ergonomic design
- With constant power-drive
- Two speed ranges for universal use from 60 - 2.000rpm
- Push-through agitator shafts (only when stationary)
- Power supply: 220-240 V

Model	Max. vol (l)	In/out power (W)	Max. visc. (mPas)	Dim. WxHxD (mm)	Max. torsion (Ncm)	Weight (Kg)	Pack (u.)	Art. No.
RW 20 digital	20	70 / 35	10.000	88x294x212	150	3,1	1	0223593000

Overhead stirrer RW 28 digital and 47 digital

IKA

Powerful, mechanically controlled stirrer designed for high viscosity applications. Suitable for use in laboratories and pilot plant stations. Special motor overheating protection by means of self-locking temperature limiter. Stirring shaft protection and clamping fixture to secure bowls are optionally available.

- Speed digital display
- Two speed ranges
- Overheating protection
- Error Art. No. display
- Robust and ergonomic design
- Quiet operation
- Power supply: RW 28 digital: 220-240 V; RW 47 digital: 230V



RW 28 digital



RW 47 digital

Model	Max. vol (l)	In/out power (W)	Max. visc. (mPas)	Dim. WxHxD (mm)	Max. torsion (Ncm)	Weight (Kg)	Pack (u.)	Art. No.
RW 28 digital	80	220 / 90	50.000	123x364x252	900	7,5	1	0225040000
RW 47 digital	200	513 / 370	100.000	145x358x465	3.000	16	1	0224050000

Stirring shafts

IKA

Stainless steel 1.4571.



R 1381 Propeller stirrer, 3-bladed



R 1311 Turbine stirrer



R 1300 Dissover stirrer



R 1352 Centrifugal stirrer

Description	Ø stirrer (mm)	Ø axis (mm)	Axis length (mm)	Speed (rpm)	Pack (u.)	Art. No.
R 2302 Propeller stirrer, 4-bladed	150	13	800	600	1	0220739000
R 1381 Propeller stirrer, 3-bladed	45	8	350	2.000	1	0221296000
R 1382 Propeller stirrer, 3-bladed	55	8	350	2.000	1	0221295900
R 1385 Propeller stirrer, 3-bladed	140	10	550	800	1	0220477700
R 1389 Propeller stirrer, 3-bladed, PTFE	75	8	350	800	1	0222343600
R 1388 Propeller stirrer, 3-bladed	140	10	800	400	1	0220477800
R 1311 Turbine stirrer	30	8	350	2.000	1	0222332900
R 1313 Turbine stirrer	70	10	400	800	1	0222333100
R 1300 Dissover stirrer	80	8	350	2.000	1	0220513500
R 1302 Dissover stirrer	100	10	350	1.000	1	0222387900
R 1303 Dissover stirrer	42	8	350	2.000	1	0222746700
R 1352 Centrifugal stirrer	60 / 15	8	350	2.000	1	0220756900
R 1355 Centrifugal stirrer	100 / 24	8	550	800	1	0221132700

STIRRERS: Platform shakers



Duomax 1030

Platform shakers Duomax 1030 HEIDOLPH

Includes all the standard safety features, ease of use and reduced cost of ownership, plus: Choose your angle between these two options: tilt angle of 5° for soft and gentle movements and tilt angle of 10° for a much stronger motion. Set and continuously adjust the variable speed on the analog control knob from 2 to 50rpm - ideal for media bottles. Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. The Duomax 1030 is a medium-sized lab shaker and accepts load capacities of 5kg. This model is suitable for the modular incubator system and is recommended for applications which require variable temperature settings. Power supply: 230 V.

Type	Angle (°)	Max. load (kg)	Timer (min)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Duomax 1030	5	5	0 to 120	8	320x185x375	1	0195054423
Duomax 1030	10	5	0 to 120	8	320x185x375	1	0195054424

Platform shakers Polymax HEIDOLPH

Polymax 1040: Choose your angle between these two options: tilt angle of 5° for soft and gentle movements and tilt angle of 10° for a much stronger motion. Use this model for any vessel - from culture plates and media bottles and Erlenmeyer flasks - there is no limit. Set and continuously adjust the variable speed on the analog control knob from 2 to 50rpm - ideal for cell culture plates. Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. The Polymax 1040 is a medium-sized model and accepts load capacities of 5kg. This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°C.

Polymax 2040: Includes all Polymax 1040 features, plus: Set and continuously adjust the variable speed on the digital display from 2,5 to 50rpm. Ideal for cell culture plates. Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. The Polymax 2040 is a large model and accepts a load capacity of 10kg for high sample throughput.

Power supply: 230 V.



Polymax 1040



Polymax 2040

Type	Frequency (rpm)	Angle (°)	Max. load (kg)	Speed indicator	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Polymax 1040	2 to 50	5	5	Scale	8	320x195x375	1	0195054442
Polymax 1040	2 to 50	10	5	Scale	8	320x195x375	1	0195054443
Polymax 2040	2,5 to 50	5	10	Digital	16	426x208x435	1	0195054240
Polymax 2040	2,5 to 50	10	10	Digital	16	426x208x435	1	0195054241

For further information, please contact scharlab@scharlab.com

Platform shakers Promax HEIDOLPH

Promax 1020: Wide range of accessories attachments and clamps for separatory funnels available. With a stroke length of 32mm the Polymax model performs an ideal motion for separatory funnels. Set and continuously adjust the variable speed on the digital display from 30 to 250rpm. Your digital process timer allows for unattended operation and can be set from 1 to 999 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. The Promax 1020 is a medium-sized model and accepts load capacities of 5kg. This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°C.

Promax 2020: Includes all Promax 1020 features, plus: With a stroke length of 20mm this Polymax model can mix larger volumes with ease. Set and continuously adjust the variable speed on the digital display from 20 to 400rpm - ideal for separations. Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. The Promax 2020 is a large model and accepts a load capacity of 10kg for high sample throughput.

Power supply: 230 V.



Promax 1020



Promax 2020

Type	Frequency (rpm)	Orbit (mm)	Max. load (kg)	Speed indicator	Timer (min)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Promax 1020	30 to 250	32	5	-	0 to 999	8	320x125x375	1	0195054422
Promax 2020	20 to 400	20	10	-	0 to 120	16	426x135x435	1	0195054220



Platform shakers Rotamax / Unimax HEIDOLPH

Rotamax 120: Wide range of accessories, attachments and clamps for up to 16 Erlenmeyer flasks available. The shaking orbit of 20mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks. Set and continuously adjust the variable speed on the analog control knob from 20 to 300rpm. Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. Rotamax 120 is a compact and space-saving unit that accepts load capacities of 2kg and offers space for 4 medium-sized culture plates.

Unimax 1010: The Unimax 1010 is a medium sized lab shaker and accepts load capacities of 5kg. Your digital process timer allows for unattended operation and can be set from 1 to 999 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. Set and continuously adjust the variable speed on the digital display from 30 to 500rpm. The shaking orbit of 10mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks. This model is suitable for the modular incubator system and is recommended for applications which require variable temperature control up to 65°C.

Unimax 2010: Includes all Unimax 1010 features, plus: Increase your sample throughput with the optional multi-tier attachment for a variety of vessel sizes. Set and continuously adjust the variable speed on the digital display from 20 to 400rpm. Your digital process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. The shaking orbit of 20mm performs a gentle motion for sensitive samples and supports culture plates and Erlenmeyer flasks. The Unimax 2010 is a large model and accepts a load capacity of 10kg for high samples throughput.

Power supply: 230 V.

Type	Frequency (rpm)	Orbit (mm)	Max. load (kg)	Speed indicator	Timer (min)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Rotamax 120	20 to 300	20	2	Scale	0 to 120	5,5	245x125x310	1	0195054441
Unimax 1010	30 to 500	10	5	Digital	0 to 999	8	320x120x375	1	0195054412
Unimax 2010	20 to 400	20	10	Digital	0 to 120	16	426x135x435	1	0195054210



Titramax 101

**Platform shakers Titramax / Vibramax
HEIDOLPH**

Titramax 100: Platform lab shakers come with an insulated system to prevent any heat transfer from the motor that could cause potential thermal damage to your sample. The 1,5mm vibration orbit performs gentle mixing with best results using small sample volumes. Set and continuously adjust the variable speed on the analog control knob from 150 to 1.350rpm. Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. Titramax 100 is a compact and space-saving unit that accepts load capacities of 2kg and space for 4 microtiter plates.

Titramax 101: The Titramax 101 has a 3mm vibration orbit which was designed for larger sample volumes.

Titramax 1000: The use of 6 microtiter plates increases your throughput by 50%. Is a medium-sized model and accepts load capacities of 5kg. Is suitable for the modular incubator system and is recommended for applications which require variable temperature control of up to 65°C.

Vibramax 100: Vibramax 100 is a compact and space saving unit with a load capacity of 2kg. The 3mm vibration orbit gives excellent results especially in large vessels - allows for smooth to ridged mixing of viscous media and solids. Set and continuously adjust the variable speed on the analog control knob from 150 to 1.350rpm. Your analog process timer allows for unattended operation and can be set from 1 to 120 minutes. When the set time has elapsed an acoustic alarm will sound and the operation stops. Optional attachment with tension rollers accepts any glassware size. A large selection of attachments is provided for the use of various vessels and sizes.

Vibramax 110: The shaking orbit of 1,5mm performs a gentle motion for sensitive samples. Set and continuously adjust the variable speed on the analog control knob from 150 to 2.500rpm. Ideal for the optional attachment to use 49 test tubes that increases your throughput significantly.

Power supply: 230 V.

Type	Shaking frequency (rpm)	Orbit (mm)	Max. load (kg)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Titramax 100	150 to 1.350	1,5	2	125x245x310	5,5	1	0195054411
Titramax 101	150 to 1.350	3	2	125x245x310	5,5	1	0195054410
Titramax 1000	150 to 1.350	1,5	2	125x320x375	6,5	1	0195544122
Vibramax 100	150 to 1.350	3	2	125x245x310	5,5	1	0195054421
Vibramax 110	150 to 2.500	1,5	2	125x245x310	5	1	0195054431

**Accessories for Vibramax 100 / Rotamax 120
HEIDOLPH**



1100800708



5495910000



0195054981

Description	Pack (u.)	Art. No.
Spare tension roller for attachment	1	1100800708
Universal perforated platform 100, allows for individual arrangement of vessels	1	5495910000
Tension rollers attachment	1	0195054981

For further information, please contact scharlab@scharlab.com

Accessories for Unimax 1010 / Duomax 1030 / Polymax 1040 / Promax 1020
HEIDOLPH


0195054451



0195054455

Description	Pack (u.)	Art. No.
Attachment for up to 14 Erlenmeyer flasks with a size of 50ml	1	0195054451
Attachment for up to 9 Erlenmeyer flasks with a size of 100ml	1	0195054452
Attachment for up to 5 Erlenmeyer flasks with a size of 250ml	1	0195054453
Attachment for up to 4 Erlenmeyer flasks with a size of 500ml	1	0195054454
Attachment for up to 2 Erlenmeyer flasks with a size of 1000ml	1	0195054455
Attachment with 2 tension rollers	1	5497000000

Accessories for Unimax 2010 / Polymax 2040 / Promax 2020
HEIDOLPH


0195054958



0195054950



0195054959



5496200000

Type	Description	Pack (u.)	Art. No.
Tension roller (order 2 pcs. min.)	For attachment of any container	1	0195054958
Frame tension roller	For attachment of any container	1	0195054950
Perforated platform 2000	For individual arrangement of vessels	1	0195054959
Separatory funnel clamp for perforated platform 2000	Clamps 4x250ml, 3x500ml, 3x1000ml	1	0195054957
Separatory funnel clamp for perforated platform 2000	Clamps 2x2000ml	1	0195054961
Multi-tier attachment	Includes perforated platform 2000 and 4 supporting rods	1	5496200000


Shaker KS 130 basic Package
IKA

Quiet orbital shaker ensures long life with ideal swivel motion.

- Electronic adjustment of speed and timer
- LED display for speed and time adjustment. (Combinations make it possible to use almost all shapes and sizes of vessels)

Optional accessories:

- Attachments AS 130.1, AS 130.2, AS 130.4

Technical data:

- Max. shaking weight (incl. attachment): 2kg
- Speed display: LED-line
- Timer: ∞ / 5 to 50min
- Max. ON-time: 100%
- Mains supply: 220 to 240V, 50 / 60Hz

The next pack includes STICKMAX and AS 130.3 dish attachment

Model	Speed (rpm)	Movement	Ø orbital (mm)	Timer	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
KS 130 basic package	80 to 800	Orbital	4	Yes	45/10	8,8	270x98x316	1	0229019000



Shaker KS 130 control Package

IKA

Quiet orbital shaker ensures long life with ideal swivel motion.

- Electronic adjustment of speed and timer
- Digital display for speed, timer function and operating modes
- Electronic timer, also for continuous operation (∞)
- With integrated end point positioning (for automated robot-controlled sampling)
- All functions can be controlled and documented with software labworldsoft®
- Special version with reverse rotating direction on request
- Wide range of attachment combinations makes it possible to use almost all shapes and sizes of vessels

Optional accessories:

- Attachments AS 130.1, AS 130.2, AS 130.4
- labworldsoft®, PC 1,5 cable

Additional technical data:

- Max. shaking weight (incl. attachment): 2kg
- Speed display: digital
- Timer: ∞ / 0 to 9h 59min
- Max. ON-time: 100%
- Interface: RS232 / analog
- Power supply: 220-240 V.

Model	Speed (rpm)	Movement	Ø orbital (mm)	Timer	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
KS 130 control package	80 to 800	Orbital	4	Yes	45/10	9,8	270x98x316	1	0229019100

Accessories for KS 130

IKA

AS 130.1 Universal Attachment:

- Includes 1 basic holder (AS 1.30), 3 clamping rolls (AS 1.31), 6 fastening screws (AS 1.5)
- Dimensions (W x D x H): 325 x 234 x 88mm
- Set-up surface: 220 x 220mm
- Weight: 0,850kg

AS 130.2 Fixing Clip Attachment:

- For processing round flasks, measuring flasks or Erlenmeyer flasks
- Please order the fixing clips separately
- Dimensions (W x D x H): 230 x 230 x 24mm
- Capacity: number of fixing clips (volume): 20 x AS 2,1 (25ml), 12 x AS 2,2 (50ml), 12 x AS 2,3 (100ml), 4 x AS 2,4 (250ml), 4 x AS 2,5 (500ml)
- Weight: 0,650kg

AS 130.3 Dish Attachment:

- For smooth shaking operations in the low viscosity range, e. g. Petri dishes or culture bottles. With integrated slip-resistant foil (PP)
- Dimensions (W x D x H): 420 x 270 x 32mm
- Set-up surface 220 x 340mm
- Weight: 0,370kg

AS 130.4 Test Tube Attachment:

- For use with several types of vessels through universal fixing rollers, infinitely variable.
- For intensive shaking, e. g. small tubes, test tubes, cuvettes, centrifuge tubes
- Dimensions (W x D x H): 220 x 230 x 95mm
- Capacity: 64 vessels
- Vessel-Ø: 10 to 16mm
- Minimum height of the vessels: 80mm
- Weight: 0,670kg



AS 130.1



AS 130.2

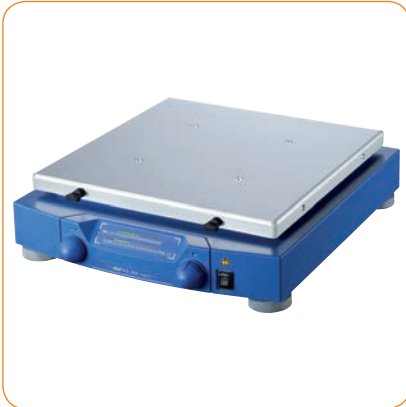


AS 130.3



AS 130.4

Description	Pack (u.)	Art. No.
AS 130.1 Universal attachment	1	0228017300
AS 130.2 Fixing clip attachment	1	0223115000
AS 130.3 Dish attachment	1	0223120000
AS 130.4 Test tube support	1	0223120300



Shaker KS 260 basic Package
IKA

Compact, flat orbital shaker with ideal swivel motion.

- Electronic adjustment of speed and timer
- LED display for speed and time adjustment
- Wide range of attachment combinations makes it possible to use almost all shapes and sizes of vessels

Optional accessories:

- Attachments AS 260.1, AS 260.2, AS 260.5

Technical data:

- Max. shaking weight (incl. attachment): 7.5 kg
 - Motor rating input / output: 45 / 10 W
 - Speed display LED line
 - Timer: ∞ / 5 to 50min
 - Max. ON-time: 100%
 - Power supply: 220-240 V.
- There is the same shaker in control version.

This model includes 2 STICKMAX and 1 AS 260.3 dish attachment

Model	Speed (rpm)	Movement	Ø orbital (mm)	Timer	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
KS 260 basic package	20 to 500	Orbital	10	Yes	45/10	8,5	360x98x420	1	0229019200



Shaker HS 260 basic Package
IKA

Compact, flat, horizontal shaker with ideal swivel motion.

- Electronic adjustment of speed and timer
 - LED display for speed and time adjustment
 - Wide range of attachment combinations allows for using almost all shapes and sizes of vessels
- Attachments are not included in delivery!

Accessories:

- Attachments AS 260.1, AS 260.2, AS 260.3, AS 260.5

Technical data:

- Shaking motion: reciprocating
 - Stroke: 20mm
 - Max. shaking weight (incl. attachment): 7,5kg
 - Speed display: LED line
 - Timer: ∞ / 5 to 50min
 - Max. ON-time: 100%
 - Power supply: 220-240 V.
- There is the same shaker in control version.

Model	Speed (rpm)	Movement	Ø orbital (mm)	Timer	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
HS 260 basic	20 to 300	Oscilant	-	Yes	45/10	8,5	360x100x420	1	0223066600

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Accessories for KS 260 / HS 260

IKA

AS 260.1 Universal Attachment:

- For various types of vessels. Infinitely variable clamping rolls allow universal adaptation to the vessels
- Is supplied with 1 basic holder (AS 1.60), 4 clamping rolls (AS 1.61), 8 fastening screws (AS 1.5)
- Dimensions (W x D x H): 425 x 335 x 135mm
- Set-up surface: 320 x 320mm
- Weight: 1,600kg

AS 260.2 Fixing Clip Attachment:

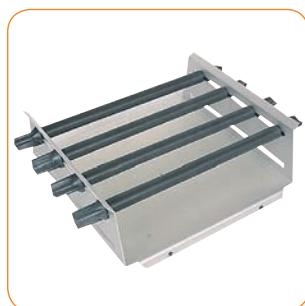
- For shaking flasks, Erlenmeyer flasks and bottles with a round cross section
- Delivery without fixing clips
- Accessories: AS 2.1, AS 2.2, AS 2.3, AS 2.4, AS 2.5, AS 2.6
- Dimensions (W x D x H): 330 x 330 x 24mm
- Number of fixing clips (volume): 56 x AS 2.1 (25ml), 23 x AS 2.2 (50ml), 23 x AS 2.3 (100ml), 11 x AS 2.4 (250ml), 9 x AS 2.5 (500ml), 5 x AS 2.6 (1000ml)
- Weight: 1,290 kg

AS 260.3 Dish Attachment:

- For smooth movement of cell cultures, nutrient media in Petri dishes, culture bottles and vessels with a low center of gravity. With integrated slip-resistant foil (PP)
- Dimensions (W x D x H): 410 x 370 x 32mm
- Set-up surface: 320 x 320mm
- Weight: 0,460kg

AS 260.5 Separating Funnel Attachment:

- For shaking out, salting out, extracting, eluting, enriching
- The 3 clamping rolls are height-adjustable for adaption to different separating funnel sizes
- The separating funnels are secured with O-rings
- Is supplied with 3 clamping rolls, 6 O-rings
- Dimensions (W x D x H): 334 x 425 x 145mm
- Number of separating funnels per volume, pear-shaped: 6 x 50ml, 5 x 100ml, 3 x 250ml, 3 x 500ml
- Weight: 1,550kg



Description	Pack (u.)	Art. No.
AS 260.1 Universal Attachment	1	0228017400
AS 260.2 Fixing Clip Attachment	1	0223115500
AS 260.3 Dish Attachment	1	0223120600
AS 260.5 Separating Funnel Attachment	1	0223120900

For further information, please contact scharlab@scharlab.com



Shaker LOOPSTER digital
IKA

Digital rotator for smooth but effective mixing with adjustable speed. Ideal for biological samples, particularly blood samples. Suitable for separating and mixing processes of powdered and liquid samples in Eppendorf tubes and Greiner tubes up to 50ml. The easy removable attachments allow simple and quick cleaning of the unit of spilled samples.

- Freely adjustable rotary angle
- Timer: countdown, adjustable from 1 s to 99h 59min.
- Counter: display of shaking time
- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Error Art. No. display
- Easy operation by foil keypad
- Suitable for continuous operation

Technical data:

- Permissible shaking weight (incl. attachment): 2kg
 - Speed display: 7 segment LED
 - Timer display: 7 segment LED
 - Min. tilt angle turntable: 0°
 - Max. tilt angle turntable: 90°
 - Mains supply: 100 to 240V, 50 / 60Hz
- There is the same shaker in basic version.

Model	Speed (rpm)	Movement	Timer	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
LOOPSTER digital	0 to 80	Rotative	Yes	3	300x300x360	1	0224016000



Shaker ROCKER 2D digital
IKA

Digital rocking shaker with adjustable speed for smooth mixing tasks. For homogeneous mixing in flasks, culture flasks, Petri dishes and tubes. Even with load and voltage fluctuations the shaking speed remains constant. An adjustable tilt angle ensures optimum adaption to the particular experimental conditions.

- Timer: countdown, adjustable from 1 s to 99h 59min.
- Counter: display of shaking time
- Error Art. No. display
- Different attachments allow a variety of applications
- Usable at 4 to 50°C in incubators
- Easy operation by foil keypad
- Anti-slip rubber mat included
- Suitable for continuous operation

Technical data:

- Permissible shaking weight (incl. attachment): 2kg
 - Speed display: 7 segment LED
 - Timer display: 7 segment LED
 - Rocking angle adjustable: 2,5 to 15°
 - Mains supply: 100 to 240V, 50 / 60Hz
- There is the same shaker in 2D basic version and 3D basic and digital version.

Model	Speed (rpm)	Movement	Timer	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
ROCKER 2D digital	0 to 80	Tumbling	Yes	2,2	280x330x150	1	0224003000

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Shaker ROLLER 6/10 digital
IKA

Digital roller shaker with 6 or 10 rolls, with smooth rocking and rolling action and infinitely adjustable speed. Particular for mixing blood samples, solid and liquid suspensions and viscous samples. The unit can be used for all conventional tubes and cylindrical bottles. The easy removable rolls allow simple and quick cleaning of the unit from spilled samples.

- Timer: countdown, adjustable from 1 s to 99h 59min.
- Counter: display of shaking time
- Error Art. No. display
- Usable at 4 to 50°C in incubators
- Suitable for continuous operation
- By removable rolls suitable for larger tubes
- Easy operation by foil keypad

Technical data:

- Type of movement: rocking and rolling
- Speed range: 0 to 80min⁻¹
- Speed display: 7 segment LED
- Timer: yes
- Timer display: 7 segment LED
- Length of rolls: 327mm
- Luffing angle fixed of rolls: 3°
- Max. stroke at role end: 16mm
- Unit stackable: yes
- Power supply: 100-240 V.

There is the same shaker in basic version.



ROLLER 6 digital



ROLLER 10 digital

Model	N° of rolls	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
ROLLER 6 digital	6	240x115x545	4	1	0224011000
ROLLER 10 digital	10	380x115x545	6	1	0224013000



Shaker TRAYSTER digital
IKA

Digital overhead shaker with vertical rotation for smooth but effective mixing with infinitely adjustable speed. Ideal for biological samples, particularly blood samples. Suitable for separating and mixing processes of powdered and liquid samples in Eppendorf tubes and Greiner tubes up to 50ml. The easy removable attachments allow simple and quick cleaning of the unit of spilled samples.

- Timer: countdown, adjustable from 1 s to 99h 59min
 - Counter: display of shaking time
 - Different attachments allow a variety of applications
 - Usable at 4 to 50°C in incubators
 - Suitable for continuous operation
 - Error Art. No. display
 - Easy operation by foil keypad
 - Suitable for continuous operation
- There is the same shaker in basic version.

Technical data:

- Permissible shaking weight (incl. attachment): 2kg
- Speed display: 7 segment LED
- Timer display: 7 segment LED
- Mains supply: 100 to 240V, 50 / 60Hz

Model	Speed (rpm)	Movement	Timer	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
TRAYSTER digital	0 to 80	Rotative	Yes	1,7	460x160x150	1	0224006000



Tilting mixer shaker "Movil-Tub"

J.P. SELECTA

Fixed speed tilting shaker mixer with removable silicon, anti slide tray. Recommended especially for haematology, chemistry and microbiology applications.

- Tube capacity: 15
- For tubes Ø up to 20mm and tube length of 110mm
- Tilt angle: 48°
- Power supply: 230 V

Shaker

Model	Speed (rpm)	Ext. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
Movil-Tub	15	34x12x20	2,5	6	1	0197000913



Roller and tilt mixer "Movil-Rod"

J.P. SELECTA

Roll and tilt mixer with 7 rollers, double action, gently rolls the tubes while rocking, produces a sinusoidal movement, providing excellent sample homogenisation

- Recommended for suspensions of biological and haematological fluids
- With variable speed control from 10 to 80rpm
- For tubes Ø up to 35mm
- The length of the rollers is 24mm
- Power supply: 230 V

Stirrer

Model	Speed (rpm)	Ext. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
Movil-Rod	10 to 80	34,9x9,8x26,5	3,6	12	1	0197001723



Rotator Orbit

J.P. SELECTA

- Rotation Speed: 12rpm
- Adjustable rotation angle axis from vertical to horizontal
- An elastic shaft drive and clip supports permit the flasks and tubes to be loaded and unloaded while the motor is running
- Epoxy coated outer casing
- Recommended for extractions of cell cultures, blood tubes and other haematological applications
- Power supply: 230 V

Stirrer

Model	Speed (rpm)	Ext. dim. WxHxD (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
Orbit	Fix, 12	23x19x20	6	15	1	0193000445

Accessories

Description	Pack (u.)	Art. No.
8x50ml Erlenmeyers flasks	1	0193000850
6x100ml Erlenmeyers flasks	1	0193006100
5x250ml Erlenmeyers flasks	1	0193005250
35 tubes from 6 to 9mm Ø	1	0193000356
30 tubes from 10 to 13mm Ø	1	0193003011
25 tubes from 14 to 16mm Ø	1	0193002512
22 tubes from 17 to 20mm Ø	1	0193002215
18 tubes from 21 to 24mm Ø	1	0193001820
17 tubes from 23 to 28mm Ø	1	0193001723



Digital orbital shaker, Orbital Maxi OVAN

- Orbital shaker, suitable for large size containers
- Speed adjustable, controlled by microprocessor
- Constant speed independently of the load
- Smooth and progressive start and stop, independently of the selected speed
- Digital Display LCD backlighted indicating the selected and actual speed and timer (with audible alarm)
- Membrane push-button control
- Resettable: after a power failure, the computer resumes with the same parameters as before. An incident sign appears
- Non-slipping surface, optional
- Quiet operation. Suitable for continuous running
- HE model, Brushless, long-term, for continuous running

Technical data:

- Amplitude (mm): 30
- Resolution (rpm): 5
- Timer (min): 0 – 120
- Useful surface (mm): 350 x 400

Stirrers

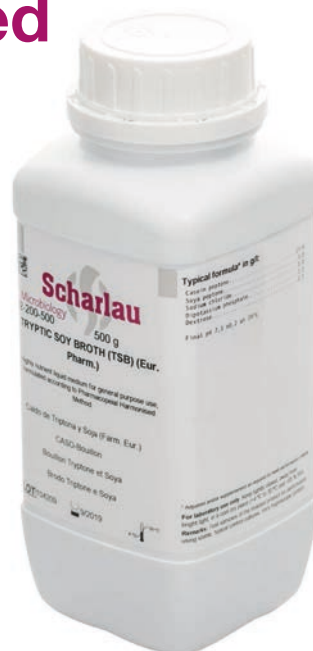
Model	Max. load (kg)	Power (W)	Movement	Range vel. (rpm)	Motor type	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
OL30-ME	25	50	Orbital	30-220	Standar	410x570x140	12	1	1000001011
OL30-HE	25	50	Orbital	30-220	"Brushless"	410x570x140	12	1	1000001051

Accessories

Description	Pack (u.)	Art. No.
Universal Platform 350x400mm to fix flask, precipitation vessels, bottles, grids of test tubes, etc	1	2000000041
Double universal platform 350x400 to fix flask, precipitation vessels, bottles, grids of test tubes, etc; with 2 shelves and 10 rollers	1	2000000131
Non-slipping platform 350x400, suitable for plates, vessels, etc	1	2000000084
Double non-slipping platform 350x400 suitable for plates, vessels, etc; with 2 shelves	1	2000000157
Platform holder for clips erlenmeyers	1	2000000040
Fastening clips for Erlenmeyer flask 50ml (30ud.)	1	2000000046
Fastening clips for Erlenmeyer flask 100ml (20ud.)	1	2000000047
Fastening clips for Erlenmeyer flask 250ml (12ud.)	1	2000000048
Fastening clips for Erlenmeyer flask 500ml (9ud.)	1	2000000049
Fastening clips for Erlenmeyer flask 1.000ml (6ud.)	1	2000000099
Fastening clips for Erlenmeyer flask 2.000ml (4ud.)	1	2000000209

For further information, please contact scharlab@scharlab.com

Scharlau Dehydrated Culture Media



- PAC-o-VAC® (vacuum outer bag)
- Wide range of products
- Special formulations
- Also available in bulk (5 and 25kg)

STIRRERS



With drum for 4 bottles

Digital rotator Rotator HD OVAN

- Digital rotatory mixer easily adaptable for various kinds of applications
- Several interchangeable supports to mix bottles (0,5 to 2L), separating funnels, tubes, etc. (with drum for 4 bottles and rotational axis for fix clips)
- Easily adjustable height supports
- Speed adjustable, controlled by microprocessor
- Smooth and progressive start and stop. - Digital Display LCD backlighted indicating the selected and actual speed and timer (with audible alarm)
- Membrane push-button control
- Resettable: after a power failure, the computer resumes with the same parameters as before. An incident sign appears
- Quiet operation, suitable for continuous running

Technical data:

- Power (W): 80
- Movement: rotation
- Speed range (rpm): 10 – 100
- Resolution (rpm): 1
- Timer (min): 0 – 20
- Weight (kg): 8 (without accessory)
- Protection IP: IP 54

Model	Included accessory	Dimensions (cm)	Pack (u.)	Art. No.
R1-HDE	Drum for 1 bottle	60x25x40	1	1000001075
R2-HDE	Drum for 2 bottle	60x25x35	1	1000001076
R4-HDE	Drum for 4 bottle	60x30x35	1	1000001077
R6-HDE	Drum for 6 bottle	73x30x35	1	1000001078
R8-HDE	Drum for 8 bottle	80x30x35	1	1000001079
R10-HDE	Drum for 10 bottle	92x30x35	1	1000001080
R12-HDE	Drum for 12 bottle	10,5x30x35	1	1000001081
RT-HDE	Rotational axis with fix clips	73x30x35	1	1000001082
RED-HDE	Drum for 3 separating funnels	60x25x40	1	1000001083
R-HDE	-	-	1	1000001063

Bottles and flasks
in **CONSUMABLES**



Visit our new web www.scharlab.com

STIRRERS: Vibrating shakers

**Vortex mixers/shakers Classic / Wizard
VELP**

The Vortex Classic and the Vortex Wizard feature a highly innovative and ergonomic design which, combined with the special materials used, ensures high stability. The technology produces cutting-edge features in terms of speed and accuracy and it has deserved the “Award Winning Design!”

The two operating modes of the Vortex Classic are: Continuous mode – automatic mode and Touch mode - mixing starts when a small amount of pressure is applied to the rubber cup. The continuous mode combined with a wide range of accessories (not included) make Classic the ideal solution for a large variety of needs. A dedicated selector switch (Touch-Platform) ensures maximum stability of the vortex mixer for the operating mode selected.

Optical technology of Wizard provides an innovative operating mode that is absolutely unique on the laboratory mixer market. Thanks to the revolutionary IR sensor mode, an infrared system (IR) detects the presence of the test tube and the instrument automatically starts vibrating! So the laboratory technician does not have to apply any pressure!
The instrument offers two operating modes as well as the possibility to regulate the speed of vibration: Sensor mode - minimizes operator stress, improving the quality of their working conditions.
Continuous mode - continuous operating mode that can be used with a wide range of accessories (not included).

Power supply: 100-240 V.



Classic



Wizard

Model	Speed (rpm)	Operating mode	Ø orbital (mm)	Display	Timer	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Classic	Up to 3.000, electronic control	Touch, continuous	4,5	-	-	15	2,2	180x70x220	1	0F202A0173
Wizard	Up to 3.000, electronic control	IR Sensor, continuous	4,5	-	-	15	2,2	180x70x220	1	0F202A0175

For further information, please contact scharlab@scharlab.com

Vortex mixers/shakers RX3 / ZX3 / ZX4

VELP

The new Vortex VELP series consists in 4 equipments: RX3, ZX3, ZX4.

Their technopolymer structure ensures optimum chemical resistance and enhanced handling. The ergonomic and highly innovative design ensures an excellent stability, usable on many surfaces.

ZX3 and ZX4 offer an excellent flexibility, thanks to the broad range of accessories, ideal for many applications including mixing of many kind of tubes/containers.

The RX3 is a modern basic vortex mixer that runs at a single, fixed stirring speed in touch mode. RX3, a long-lasting laboratory mixer for basic mixing requirements.

The ZX3 offers a variable stirring speed and two operating modes, touch or continuous. The ZX4 is an advanced and modern vortex mixer with adjustable stirring speed and two operating modes, sensor or continuous. ZX4, thanks to the revolutionary IR sensor mode, an infrared system (IR) detects the presence of the test tube and the vortex mixer automatically starts vibrating! No press, No stress!

Power supply: 100-240 V.



RX3



ZX3



ZX4

Model	Speed (rpm)	Operating mode	Ø orbital (mm)	Display	Timer	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
RX3	Constant, 3.000	Touch	4,5	-	-	15	2,7	150x130x165	1	0F202A0171
ZX3	Up to 3.000	Touch, continuous	4,5	-	-	15	2,7	150x130x165	1	0F202A0176
ZX4	Up to 3.000	IR Sensor, continuous	4,5	-	-	15	2,7	150x130x165	1	0F202A0280

Accessories for Vortex

VELP

Here are the accessories for the Vortex Velp not included in the supply of equipment.



0A00000016



0A00000012



0A00000013



0A00000014



0A00000015



0A00000017



0A00000019

Description	For models	Pack (u.)	Art. No.
Supporting plate Ø 50mm	RX3, ZX3, ZX4, TX4, Classic, Wizard	1	0A00000016
Foam stand for n° 19 microvials 1,5ml - Eppendorf	ZX3, ZX4, TX4, Classic, Wizard	1	0A00000012
Customizable soft foam top	ZX3, ZX4, TX4, Classic, Wizard	1	0A00000013
Foam stand for n° 5 test-tubes Ø 16mm	ZX3, ZX4, TX4, Classic, Wizard	1	0A00000014
Foam stand for microtiter	ZX3, ZX4, TX4, Classic, Wizard	1	0A00000015
Supporting plate Ø 94mm	ZX3, Classic	1	0A00000017
Foam stand for n° 4 test-tubes Ø 29mm	ZX3, ZX4, TX4, Classic, Wizard	1	0A00000019

**Test tube shakers Reax top / Reax Control / Multi Reax
HEIDOLPH**

Ideal for mixing samples in Eppendorf tubes, vials and similar vessels of different diameters and lengths. The unit yields consistent results and is ideal for product dissolution.

Reax Top:

- The strong 5mm vibration orbit yields the best results even with high viscosity media or solids out of solution and quickly gives a smooth and even dispersion.
- Switch to continuous mode - the unit performs a permanent vibration motion.
- Switch the unit to automatic mode - the units will start once a vessel is pressed to the plate, and will stop automatically once this pressure is released.
- Fast and dependable mixing results due to high vibration frequency rates up to 2.500rpm.
- Features an analog dial speed control, no settings of specified rpm numbers.

Reax Control:

Includes all Reax Top features, plus:

- Features analog dial speed control with accurate rpm numbers setting.
- Improve your results by the electronic speed control that provides constant rpm output even at very low speed and under changing loads.

Multi Reax:

- Unique lab shaker to accommodate up to 26 vessels with various diameters. Shipment includes as a standard: Attachment for 26 vessels with diameters from 10 to 16mm Attachment for 12 vessels with diameters from 16 to 32mm.
- The 3-mm vibration orbit accomplishes excellent results especially in large vessels. The Multi Reax allows for ridged to smooth dispersion of viscous media and solids.
- Set an continuously adjust the variable speeds of 150 to 2.000rpm on the digital display.
- Your digital process timer allows for unattended operation and can be set from 1 to 999 minutes. When the set time has elapsed, an acoustic alarm will sound and the operation stops.

Stirrers



Reax Top



Reax Control



Multi Reax

Description	Dim. WxHxD (mm)	Power (W)	Weight (Kg)	Pack (u.)	Art. No.
Reax Top	130x100x170	51	2,8	1	0195411000
Reax Control	130x100x170	51	2,8	1	0195411100
Multi Reax	1270x170x410	50	9,8	1	0195451000

Accessories for Reax Top



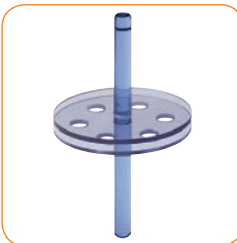
0195491900



5492000000



0195490100



0195490400

Type	Description	Pack (u.)	Art. No.
Test tube tray, large	For test tubes and flasks up to 50ml	1	0195491900
Test tube holding device	For continuous shaking	1	5492000000
Attachment for 10 test tubes	Foam attachment provides space for 10 test tubes for simultaneously mixing with just one shaker	1	0195490100
Test tube stand	For up to 6 Eppendorf vessels (1,5ml)	1	0195490400

For further information, please contact scharlab@scharlab.com

STIRRERS



MS 3 digital Shaker

IKA

Compact, universal small shaker suitable for shaking tasks with all small vessels and microtiter plates

- Wide range of attachments
- Attachment detection
- Continuous or touch operation (with standard attachment)
- Timer with countdown function
- Stable in all speed ranges
- Sturdy zinc die cast casing

Two operating modes:

- Mode A (safe mode with attachment detection) the maximum speed of 3.000rpm is only reached with the standard attachment in touch mode. When using other attachments the speed is limited to 1.300rpm.
- Mode B (without attachment detection) a speed of 3.000rpm is possible with all attachments.

Is supplied with:

- MS 3.1 Standard attachment: for test tubes and small vessels up to Ø 50mm
- MS 3.3 Universal attachment: for different foam inserts
- MS 3.4 Microtiter attachment: for a microtiter plate
- MS 1.21 One-hand insert: for insertion in the universal device
- MS 1.32 Test tube insert: to insert into universal device for 6 tubes Ø 12mm

- Power supply: 100-240 V

Stirrer

Model	Speed (rpm)	Movement	Ø orbital (mm)	Timer	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Small Shaker MS 3 digital	0 to 3.000	Orbital	4,5	Yes	8/10	2,9	148x63x205	1	0223319000

Accessories



MS 3.1



MS 3.3



MS 3.4



MS 1.21



MS 1.31



MS 1.33

Description	Pack (u.)	Art. No.
MS 3.1: for test tubes and small vessels up to Ø 50mm	1	0223426300
MS 3.3: for different foam inserts	1	0223426600
MS 3.4: for a microtiter plate	1	0223426400
MS 1.21: for insertion in the universal device	1	022L001540
MS 1.31: to insert into universal device for 14 tubes Ø 10mm	1	022L001840
MS 1.32: to insert into universal device for 6 tubes Ø 12mm	1	022L001850
MS 1.33: to insert into universal device for 4 tubes Ø 16mm	1	022L001860
MS 1.34: to insert into universal device to add any number of holes	1	022L001830



VORTEX 1 Shaker

IKA

Test tube shaker with touch function designed for mixing small test samples. - For small containers up to 30mm in diameter, e.g. test tubes, centrifuge tubes, Eppendorf beakers.

- Excellent mixing action.
- The upper casing and the test tube surface are made from inert plastic. The bottom section is a coated, zinc die-casting.

Technical data:

- Type of movement orbital
- Shaker diameter 4,5mm
- Permissible shaking weight (incl. attachment) 0,1kg
- Motor rating input/output 1,2 / 0,8W
- Permissible ON time 100%
- Speed Range Continuous 1000 – 2800rpm
- Dimensions (W x H x D) 95 x 70 x 110mm
- Weight 0,55kg
- Power supply: 100-240 V

Description	Pack (u.)	Art. No.
Vortex 1	1	0224047700



VORTEX Genius 3 Shaker

IKA

Vortex shaker suitable for short-time operation (touch function), activated by pressing shaker attachment or continuous operation.

- Sturdy metal zinc die cast casing
- Compact design
- Stable at high speeds thanks to special feet (silicon base with ultra high vibration damping)
- Easy to handle due to the handles incorporated in the casing
- Different applications thanks to 3 interchangeable attachments (e.g. 7 Eppendorf tubes, micro-titer plates, Erlenmeyer flasks 250ml etc.)
- Short-time operation activated by pressing attachment (touch function)
- Special strap (VG 3.36) ensures easy handling of round/Erlenmeyer flasks
- Suitable for continuous operation with low self heating thanks to self ventilation of motor

Technical data:

- Type of movement orbital
- Speed range (adjustable) 0 - 2500rpm
- Speed indicator: scale 0-6
- Permissible ON time 100%
- Power supply: 200-240 V

Stirrer

Description	Pack (u.)	Art. No.
Agitador VORTEX Genius 3	1	0223340000

Accessories



VG 3.1



VG 3.2



VG 3.3



VG 3.31



VG 3.36



VG 3.37

Description	Pack (u.)	Art. No.
VG 3.1: Standard attachment for reagent glasses / small vessels (continuous / touch operation), included with delivery.	1	0223341200
VG 3.2: One-hand attachment, 88mm, round, with rubber insert (continuous / touch operation)	1	0223342200
VG 3.3: Universal attachment, 150mm, with rubber insert (continuous / touch operation)	1	0223342400
VG 3.31 (for VG 3.3): for 54 Eppendorf tubes (continuous operation)	1	0223344300
VG 3.32 (for VG 3.3): for 18 reagent glasses, 10mm (continuous operation)	1	0223343900
VG 3.33 (for VG 3.3): for 12 reagent glasses, 12mm (continuous operation)	1	0223344000
VG 3.34 (for VG 3.3): for 8 reagent glasses, 16mm (continuous operation)	1	0223344100
VG 3.35 (for VG 3.3): for 8 reagent glasses, 20mm (continuous operation)	1	0223344200
VG 3.36 (for VG 3.3): for 1 Erlenmeyer / round flask from 100 to 250ml (continuous operation)	1	0223342100
VG 3.37 (for VG 3.3): for 1 standard microtiter plate (continuous operation)	1	0223344400



Movil-Vib

Vortex tube Mixer Movil-Vib and XH-B

J.P. SELECTA

Mixing amplitude: 6,2mm. Base with three suction feet.
 Model "Movil-Vib" with selector mixing by contact or fixed continuous movement.
 Model "XH-B" with start stop switch for multiple tubes.
 Power supply: 230 V

Model	Frequency (rpm)	Ø Usable (cm)	HxØ (cm)	Weight (Kg)	Consumption (W)	Pack (u.)	Art. No.
MOVIL VIB	2.000	6	15x10	2,8	30	1	0197001721
XH-B	2.600	10	13x13	2,3	20	1	0197001722

TEMPERATURE AND MOISTURE METERS

**Data logger
EBRO**

Reliable temperature and temperature / humidity recording. Reliable temperature and temperature / humidity recording. Waterproof. Visual alarm. Min / Max values on display. Acc. to GMP, 21CFR 210 / 211, GLP, DIN EN ISO / IEC 17025. Incl. calibration- and factory certificate. Humidity: (EBI-20 TH1) 0 to 100% RH, 0,1%. Memory: EBI-20 T1/TE1: 40000 measurements, EBI-20 TH1: 20000 measurements/channel. Measuring rate: 1 min a 24h. Protection class: IP 67 (EBI-20 T1), IP 52 (EBI-20 TH1).

EBI 20 Serie

Description	Measuring range, Inaccuracy	Sensor and Inaccuracy	Pack (u.)	Art. No.
EBI 20 T1, only temperature	From -30 to +60°C and 0,1°	Internal probe	1	0016010000
Temperature Data Logger, software and interface	From -30 to +60°C and 0,1°	-	1	0016010046
Temperature/Humidity Data Logger, software and interface	From -30 to +60°C and 0,1°	-	1	0016010055

**Dual-infrared/fold-back-thermometer
EBRO**

For temperature control in transport and storage, or in cooling/refrigerator chambers or for climate systems and laboratories. Protection class: IP 55. Certificate: 4 point factory calibration with foldable penetration probe and infrared sensor.

TLC 730

Description	Measuring range, Inaccuracy	Sensor and Inaccuracy	Pack (u.)	Art. No.
TLC 730 Dual infrared and fold-out probe	From -50 to +350° and 0,1°	IR sensor and puncture bayonet, ±1°	1	00134TLC73


**TFX 430 precision thermometer with exchangeable PT100 probe
EBRO**

Special for aggressive media, IP 67.

Gama TFX

Description	Measuring range, Inaccuracy	Sensor and Inaccuracy	Pack (u.)	Art. No.
With probe TPX 130	From -100 to 500 and 0,02°	∅ 3mm, NL 130mm, dull. 0,05°	1	0013405437
With probe TPX 230	From -100 to 500 and 0,02°	∅ 3mm, NL 130mm, pointed. 0,05°	1	0013405438
With probe TPX 330	From -100 to 500 and 0,02°	∅ 8mm, NL 190mm, vitrified. 0,05°	1	0013405439


**Hygrothermometer
EBRO**

Robust and accurate. PT100 probe. Easy handling. Removable probe.

Gamma TFH 620

Description	Measuring range, Inaccuracy	Sensor and precision	Pack (u.)	Art. No.
Hygrometer TFH 620 with air probe TPH 100	From 0 to 100% & 0-60°C, ±2%	Temp: 0,3 and HR 0,1%	1	0013410621



**Core thermometer thermocouple Type T
EBRO**

Sturdy, accurate and fast. IP 55 protection.

Gamma TTX

Description	Measuring range, inaccuracy	Sensor and Inaccuracy	Pack (u.)	Art. No.
TTX 100 with grip (60cm silicone cable) and probe	From -50 to +350 and 0,1°	3mm ø, 90mm - 0,8°	1	0013405100
TTX 110 meter and fix probe, without cable	From -50 to +350 and 0,1°	3mm ø, 90mm - 0,8°	1	0013405110



Optional external probe

**Wireless temperature data logger
EBRO**

Automatic documentation through automatic recording, storage and reporting of the measured data. Audible alarm: notification via email or acoustical (with optional alarm box). Wireless connection 868 MHz and Ethernet interface. Measuring rate: 1min to 24h, adjustable. Protection class: IP 67. Version T and IP 20 for 25TH. Waterproof.

EBI 25 Serie

Description	Measuring range, inaccuracy	Sensor and Inaccuracy	Pack (u.)	Art. No.
Data logger EBI 25T, for temperature	From -30 to +60°C and 0,1°	Internal probe. Precision: ±0,5°C	1	0013406200
Data logger EBI 25TH for temperature and humidity	From -30 to +60°C and 0-100% HR	Internal probe. Precision: ±0,5°C	1	0013406202
Wall bracket for data logger	-	-	1	0013406215
Software of evaluation Winlog. wave, single-user version	-	-	1	001340WIN1
Software of evaluation Winlog. wave, web version	-	-	1	001340WINN
Interface EBI IF 400, includes antenna for EBI 25	-	-	1	00134062IF



**Hygrothermometer
HANNA INSTRUMENTS**

Temperature and RH simultaneous measurement. With impact protection and sintered head to avoid fume or dust entrance.

HI936

Description	Measuring range, Inaccuracy	Sensor and inaccuracy	Pack (u.)	Art. No.
With protective sintered cap	5 to 95%, 0,1%; from 0 to 60°C, 0,1°C	Internals	1	034HI93640



**Thermo-hygrometer
TESTO**

Temperature and RH simultaneous measurement. Dewpoint and max./min. function. With cover and carrying case.

Testo 610

Description	Measuring range, Inaccuracy	Sensor and Inaccuracy	Pack (u.)	Art. No.
Portable meter	From -10 to +50 and 0,1°; from 0 to 100% HR	Internals	1	0005600610

VACUUM PUMPS

- Diaphragm vacuum pumps and compressors, *page 1046*
- Vacuum gauge and vacuum controllers, *page 1050*
- Vacuum systems, *page 1051*
- Rotary vane pumps, *page 1053*

VACUUM PUMPS: Diaphragm vacuum pumps and compressors

Chemically resistant diaphragm vacuum Pumps LABOPORT®

KNF

Chemically-resistant dry running diaphragm pumps are used in a wide range of laboratory applications. They transfer and pump down without contamination.

The KNF structured diaphragm enables low-maintenance use.

Mains supply: 230V / 50Hz.

Pumps with Art. No. N8203FT404, N8403FT404 and N8423FT404 are specially designed for the use with ovens or wet gases. Devices are equipped with a solenoid valve to purge out possible solvent remains from the pump head. This ensures a stable vacuum and an optimised life time for the diaphragms.

Pumps



N810.3FT.18



N840.3FT.18



N842.3FT.18



N840.3FT.40.18



N842.3FT.40.18

Model	Suction (l/min)	Final vacuum (mbar abs.)	Protection	Dim. WxHxD (mm)	I.D. tube (mm)	Pack (u.)	Art. No.
N810FT.18	10	100	IP44	146x187x256	10	1	00N810FT18
N820FT.18	20	100	IP44	159x207x268	10	1	00N820FT18
N810.3FT.18	10	8	IP44	140x187x281	10	1	N8103FT184
N820.3FT.18	20	8	IP44	154x207x312	10	1	N8203FT184
N840.3FT.18	34	8	IP44	166x226x341	10	1	N8403FT184
N842.3FT.18	34	2	IP44	167x223x341	10	1	N8423FT184
N820.3FT.40.18	20	10	IP44	177x220x312	10	1	N8203FT404
N840.3FT.40.18	34	10	IP44	189x239x341	10	1	N8403FT404
N842.3FT.40.18	34	4	IP44	189x242x341	10	1	N8423FT404

Accessories

Description	For model	Pack (u.)	Art. No.
Suction filter / silencer	N86KN.18/N811KN.18/N022AN.18	1	0000000345
Suction filter / silencer	N820AN.18/N820.3AN.18	1	0000000346
Suction filter / silencer	N026.3/1.2AN.18/N035AN.18	1	0000000352
4 bar overpressure valve	N035AN.18/N035.1.2AN.18	1	0000000351
2 bar overpressure valve	N026.1.2AN.18	1	0000003074
Fine adjustment valve with pressure gauge	N022AN.18	1	0000000349
Fine adjustment valve with pressure gauge	N026.1.2AN.18	1	0000011867
Fine adjustment valve with pressure gauge	N035AN.18/N035.1.2AN.18	1	0000000482
Fine adjustment valve with vacuum gauge	N022AN.18	1	0000000350
Fine adjustment valve with vacuum gauge	N026.1.2AN.18/N026.3AN.18	1	0000011868
Fine adjustment valve with vacuum gauge	N035AN.18/N035.1.2AN.18	1	0000000354

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LABOPORT® Mini diaphragm vacuum pumps and compressors

KNF

Single-head, dry-running diaphragm pumps, used in a wide range of laboratory applications. Smaller pumps and diaphragm service life due to stress-optimised KNF structured diaphragm with Finite-Elements-Method. Pump with pump head made from PPS, diaphragm PTFE-coated, valves FFPM. With thermal switch and power fuse.

- 100% oil-free transfer. Pure transfer, evacuation and compression
- Version for slightly aggressive or corrosive gases and vapours
- Maintenance-free
- Environmentally friendly

Pump with the reference PM21481-86 includes fine control valve with vacuum gauge, suction side.

Model	Suction (l/min)	Final vacuum (mbar abs.)	Pressure (bar)	Protection	Dim. WxHxD (mm)	Valve	I.D. tube (mm)	Pack (u.)	Art. No.
N86KT.18	5,5	160	2,5	IP20	164x90x141	FFPM	4	1	130N86KT18
N86KT.18 with valve	5,5	160	2,5	IP20	164x90x141	FFPM	4	1	PM21481-86

Diaphragm vacuum pumps and compressors

KNF

Transfers, pumps down and compresses air or neutral gases without contamination. Compact, reliable, quiet running. Mains supply: 230 V/50 Hz.

Materials:

- KN = pump head made of PPS, membrane in EPDM, valves: Viton
- AN = pump head made of aluminium, membrane in CR, valves: NBR
- KT = pump with pump head made of PPS, membrane in PTFE, valves: FFPM (Kalrez)



N086KN.18



N811KN.18



N816.3KT.18



N820.3AN.18



N026.3AN.18



N820AN.18

Model	Suction (l/min)	Final vacuum (mbar abs.)	Pressure (bar)	Protection	Dim. WxHxD (mm)	Valve	I.D. tube (mm)	Pack (u.)	Art. No.
N086KN.18	6	100	2,4	IP20	90x141x164	FPM	4	1	130N86KN18
N811KN.18	11,5	240	2	IP20	90x157x187	FPM	6	1	00N811KN18
N022AN.18	15	100	4	IP20	145x194x203	Stainless steel	6	1	00N022AN18
N816.3KN.18	16	15	0,5	IP20	90x141x361	EPDM	6	1	0N8163KN18
N816.3KT.18	16	20	0,5	IP20	90x141x361	FFPM	6	1	0N8163KT18
N820.3AN.18	22	8	1	IP44	110x204x304	NBR	9	1	0N8203AN18
N838.3KT.18	22	15	0,5	IP20	110x210x404	FFPM	9	1	0N8383KT18
N026.3AN.18	22	20	-	IP20	185x192x243	Stainless steel	9	1	0N0263AN18
N820AN.18	22	100	1	IP44	157x204x268	NBR	9	1	0N820AN184
N035.3AN.18	30	13	-	IP20	250x222x323	Stainless steel	9	1	0N0353AN18
N035.3AN.18	30	13	-	IP44	250x222x351	Stainless steel	9	1	N0353AN184
N035AN.18	30	100	4	IP20	143x254x265	Stainless steel	9	1	00N035AN18
N026.1.2AN.18	39	100	2	IP20	185x192x243	Stainless steel	9	1	N02612AN18
N035.1.2AN.18	55	100	4	IP20	250x222x321	Stainless steel	9	1	N03512AN18

For further information, please contact scharlab@scharlab.com

Chemistry diaphragm pumps

VACUUBRAND

Typical applications for chemistry diaphragm pumps incl. evacuating chemically aggressive gases and vapours from such equipment as rotary evaporators, vacuum drying cabinets and centrifugal concentrators.

Due to fluorocompounds they are very resistant to chemical vapours from inlet to exhaust and are very tolerant of condensate. The 2-, 3- and 4-stage pumps also have a gas ballast valve that helps to preserve pump performance when working with condensable vapours. Pumping chambers are hermetically separated from the drive space, ensuring long lifetimes of mechanical parts. Diaphragm pumps are oil-free, they eliminate the water waste of water-jet aspirators and the contaminated waste-oil disposal of rotary vane pumps.

- PTFE sandwich diaphragms and valves made of perfluoro elastomer or PTFE
- Internal tubing and fittings made of PTFE / ETFE / ECTFE compounds
- High diaphragm lifetimes with ultradurable PTFE sandwich design
- Head cover and clamping disc made of fluoro compounds with stability core for unsurpassed long-term performance
- Very long service intervals for low lifetime cost-of-ownership

NT models:

- Patented drive system for extra quiet, ultra-low-vibration operation
- Patented valve mounting system to simplify service access
- Smooth surfaces for easy cleaning
- Sealing system provides reduced leakage rates for improved ultimate vacuum



ME2CNT



ME4CNT



MD4CNT



MD12CNT

Model	Number of stages	Flow (m ³ /h)	Final vacuum (mbar abs.)	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
ME2CNT	1	2,1	70	243x198x211	10,2	1	022-730100
ME4CNT	1	3,9	70	254x198x243	11	1	022-731200
ME16CNT	1	16,3	70	531x359x260	28,1	1	022-741300
MZ2CNT	2	2	7	243x198x243	11,1	1	022-732300
MD1C	3	1,3	2	316x175x143	6,9	1	022-696600
MD4CNT	3	3,4	1,5	325x198x243	14,3	1	022-736400
MD12CNT	3	11,1	2	531x359x260	28,1	1	022-743300

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Diaphragm pumps

VACUUBRAND

VACUUBRAND's aluminium design diaphragm pump is a perfect match for many applications in the laboratory and operations because it is oil-free, whisper quiet and requires only little service.

- Diaphragms have especially long lives and hermetically seal the drive space from the pumping chamber to protect mechanical parts from corrosion.
- The pumps achieve their distinctively high performance from high pumping chamber volume relative to the min. dead space.
- Long diaphragm and valve lifetimes: made of highly flexible FPM, with fabric-reinforced double diaphragms for improved long term stability.
- The pumps operate absolutely oil free and do not have any sliding components on the vapour side; in normal operation they are completely free of abrasion.

Besides contributing to the long service intervals, the lack of abrasion also eliminates most of the particulate impurities frequently generated on the vacuum side of scroll or piston pumps.

- New connections (NT series) ensure very low leak rates for very good flow rates under vacuum and long-term performance stability, even after hours of service.
- No abrasion, making it dust- and contamination-free.
- Also NT models with its innovative and patented drive support system provide for uniquely quiet, lowvibration operation.



ME2NT



ME4NT



ME4RNT



ME8NT



MZ2DNT



MD1

Model	Number of stages	Flow (m ³ /h)	Final vacuum (mbar abs.)	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
ME2NT	1	2	70	243x198x211	10,2	1	022-730000
ME4NT	1	4	70	243x198x239	11	1	022-731000
ME4RNT	1	3,8	100	243x290x239	11,5	1	022-731100
ME8NT	1	7,3	70	325x198x239	16,4	1	022-734000
ME16NT	1	16,4	70	538x359x260	30,6	1	022-741000
MZ2NT	2	2,2	7	243x198x239	11	1	022-732000
MZ2DNT	2	2,3	4	243x198x242	11,4	1	022-732200
MD1	3	1,2	1,5	303x163x143	6,7	1	022-696080
MD4NT	3	3,8	1	325x198x239	16,4	1	022-736000
MD12NT	3	12,1	2	538x359x260	30,6	1	022-743000

For further information, please contact scharlab@scharlab.com

VACUUM PUMPS: Vacuum gauge and vacuum controllers


CVC 3000

**Vacuum controllers
VACUUBRAND**

The CVC 3000 adjusts the vacuum level fully automatically to the process demands by controlling vacuum pumps and solenoid valves. With VARIO® pumps fully automated evaporations at the push of a button, are possible. In addition CVC 3000 controls the condenser cooling water. The integrated venting valve and a highly resistant alumina ceramic vacuum sensor ensure excellent measuring reliability independent of gas type. The CVC 3000 controls vacuum automatically via pump motor speed control when used to operate the VACUU-BRAND NT VARIO pumps.

Ten fully configurable programs can also be easily edited and stored. Each program can include up to ten time and pressure steps, with control functions such as venting, pumping and vacuum ramp. External valves and gauge heads connect simply and are recognized automatically via the VACUU-BUS™ control system. The CVC 3000 enables the measurement of relative pressure with regard to a reference sensor (VSK 3000).

Performance features:

- Automatic adjustment of the vacuum level throughout the process for high process reliability and unattended operation (with VARIO® pumps).
- Controls vacuum, cooling water and venting to demand.
- Intuitive operation with turn-and-tap jog wheel and clear text menus, with integrated venting valve.
- Interactive communication (PC) through RS 232C serial interface.
- Self-configuring due to VACUU-BUS® system: VARIO® pumps, valves (vacuum, venting, coolant), sensors (vacuum, liquid level), Peltronic® condenser.

Technical data:

- Measuring range: 1080 to 0,1mbar
- Measurement uncertainty <math>< \pm 1 \text{ mbar}</math>
- Mains supply: 100 to 230 V, 50 to 60 Hz
- Dimensions: 144x124x115mm
- Weight: 0,44kg

Description	Pack (u.)	Art. No.
CVC 3000 Vacuum controllers	1	022-683160
CVC 3000 Vacuum controllers with W-B 6C valve	1	022-683169

**Vacuum gauge
VACUUBRAND**

The DVR 2 is a fully electronic, versatile vacuum gauge for the measuring range from atmospheric pressure to 1 mbar. It has an integrated transducer made of alumina ceramics with outstanding corrosion resistance and superior long-term stability. A particular advantage of the DVR 2 is its battery power supply. The easy use and the combined digital / analogue display for fast and clear trend indication make the DVR 2 a very versatile vacuum gauge.

Technical data:

- Measuring range: 1080 to 1mbar (hPa)
- Measuring accuracy: <math>< 1 \text{ mbar} \pm 1 \text{ digit}</math>
- Mains supply: 9 V lithium battery, 1,2Ah Ultralife U9VL
- Dimensions: 115 x 115 x 66mm
- Weight: 0,375kg

The DCP 3000 is an outstanding vacuum gauge for rough and fine vacuum. A large illuminated display shows the measured values of all sensors by a simple turn of a button. The VSK 3000 vacuum sensor with ceramic diaphragm measures from atmospheric pressure down to 0.1 mbar. It displays absolute pressure independent of gas type, is very corrosion resistant and has an outstanding accuracy and long term stability. Simultaneous connection of up to eight vacuum sensors allows flexible measuring on the spot. The DCP 3000 communicates with external components via the VACUU-BUS® digital bus system. It is characterized by fully automatic configuration, unified plug connections and cable lengths of up to 30m. In addition the DCP 3000 offers relative pressure measurements (VSK 3000 as reference) and a data logger feature for up to 32.000 data values.

Technical data:

- Measuring range: 1080 to 0,1mbar
- Uncertainty of measurement: <math>< \pm 1 \text{ mbar}</math>
- Mains supply: 100 to 230 V / 50 to 60Hz
- Dimensions (L x W x H): 144 x 124 x 114mm
- Weight: display unit: 0,44kg, external sensor: 0,18kg



DVR 2



DCP 3000 with VSK 3000

Description	Pack (u.)	Art. No.
DVR 2 Vacuum Gauge	1	022-682902
DCP 3000 Vacuum Gauge with VSK 3000	1	022-683170

VACUUM PUMPS: Vacuum systems



Vacuum systems LABOXACT® KNF

This vacuum system has been designed specially for use with rotary evaporator. The process in the rotary evaporator can be monitored reliably with the vacuum system LABOXACT®. A closed patented system arrangement enables gentle distillation and high recovery rates, even for low-boiling solvents.

- Careful control of evaporation
- Environmentally friendly

Complete ready for use system including: Chemically resistant vacuum-pump, separator, condenser, fine-adjustment valve, digital vacuummeter, safety vent valve.

Mains supply: 230 V / 50 Hz.

Dimensions of SEM820 are 343x306x481 (mm)

Weight (kg):

- SEM 820: 14,5
- SEM 840: 17,8

Model	Suction (l/min)	Final vacuum (mbar abs.)	Protection	Valve	Pack (u.)	Art. No.
SEM820	20	8	IP44	FFPM	1	0000SEM820
SEM840	34	8	IP44	FFPM	1	0000SEM840



Vacuum pump system SC 920 KNF

With wireless remote Control, speed regulated.

Fast and precise evaporation/distillation and autom. sensing of the boiling point.

Ease of operation; the process parameters are entered using a touchscreen and a rotary knob.

Quiet operation.

Sensitive pressure control in the system.

Variable system pressure via speed regulation.

High recovery rates even with low boiling point solvents.

Environmentally friendly.

Low maintenance-free.

Capturing of particles in the system (suction side).

Applications: Vacuum evaporation, vacuum desiccation, vacuum gel drying, vacuum filtration.

Technical data:

- Control: over hand terminal and/or Windows®- based software
- Hose connections, pneumatic: ID 10
- Hose connections for coolants: ID 8
- Mains connection: 100 - 230 V, 50 - 60 Hz
- Power consumption: max. 135 W
- Current consumption: max. 1,7 A
- Weight: 15 kg
- Dimensions (mm) HxWxD: 423 x 366 x 294 mm

Model	Suction (l/min)	Final vacuum (mbar abs.)	Pack (u.)	Art. No.
SC 920	20	2	1	0000SC920

For further information, please contact scharlab@scharlab.com

Chemistry Vacuum Systems and Chemistry Pumping Units

VACUUBRAND

Complete vacuum systems and pumping units offer the advantage of a ready for operation assembly and an optimal configuration with useful accessories.

- Particularly efficient are the vacuum systems and pumping units for simultaneous handling of 2 autonomous vacuum processes. Effective non-return valves protect against reciprocal impact. High pump performance even in parallel operation
- Compact design, space-saving and high flexibility
- Plain surfaces for easy cleaning
- High user comfort by well proven configurations
- High vapour tolerance for water and solvents
- Low noise level
- Reasonable ultimate vacuum even with open gas ballast valve
- Vacuum controller CVC 3000 with 14 languages, ergonomic position, 10 free programme spaces for automated and reproducible process sequences per electronically regulated connection
- Energy-efficient
- Uniform construction and position of on / off switcher, power supply, fuse holder, RS 232C interface and VACUU.BUS® connecting socket
- Mains supply: 230 V, 50 Hz
- With analogue and digital I / O module

PC 510 NT / PC 610 NT: Chemistry diaphragm pump mounted on pump support, inlet catchpot with solenoid-operated isolation valve, vacuum controller with integrated air admittance valve mounted on controller support with multiple mains socket for central plugging, exhaust waste vapour condenser.

PC 511 NT / PC 611 NT: See PC 510 NT / PC 610 NT, additional vacuum port with manual flow control including non-return valve against cross interference.

PC 520 NT / PC 620 NT: Chemistry diaphragm pump mounted on pump support, inlet catchpot with 2 solenoid-operated isolation valves, 2 vacuum controllers each of them with integrated air admittance valve, controller support with multiple mains socket for central plugging, exhaust waste vapour condenser.

AK: separator for condensate. Synchro: system with two manually controlled vacuum connections. EK: exhaust waste vapour condenser.



MZ2CNT+2AK



MZ2CNT+AKEK



MZ2CNT+AKSyEK



PC610NT

Model	Pump	Number of stages	Flow (m ³ /h)	Final vacuum (mbar)	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
MZ2CNT+2AK	MZ 2 CNT	2	2	7	319x309x243	13,6	1	022-732500
MZ2CNT+AKEK	MZ 2 CNT	2	2	7	326x402x243	14,2	1	022-732600
MZ2CNT+AKSyEK	MZ 2 CNT	2	2	7	326x402x248	14,5	1	022-732800
MD4CNT+AKEK	MD 4 CNT	3	3,4	1,5	326x402x243	17,3	1	022-736700
MD4CNT+AKSyEK	MD 4 CNT	3	3,4	1,5	326x402x248	17,6	1	022-736800
PC510NT	MZ 2 CNT	2	2	7	419x444x243	16,7	1	022-733100
PC511NT	MZ 2 CNT	2	2	7	435x444x243	16,9	1	022-733200
PC520NT	MZ 2 CNT	2	2	7	435x444x361	17,7	1	022-733300
PC610NT	MD 4 CNT	3	3,4	1,5	419x444x243	19,9	1	022-737100
PC611NT	MD 4 CNT	3	3,4	1,5	435x444x243	20,1	1	022-737200
PC620NT	MD 4 CNT	3	3,4	1,5	435x444x361	20,9	1	022-737300

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VACUUM PUMPS: Rotary vane pumps

Rotary Vane Pumps VACUUBRAND

One stage and two stage rotary vane pumps are used wherever an ultimate vacuum down to 10⁻³mbar has to be attained. Selection depends upon the ultimate vacuum and pumping speed requirements of the respective application. They have an integrated oil pump and high effective gas ballast system for improved water vapour tolerance. These compact and high performance pumps together with their modular accessories can be used for a wide range of laboratory and process applications.

- High pumping speed even at low pressure
- High vapour tolerance for water and solvents
- Anti-corrosion design: polished and plasma treated internal surfaces
- Lubrication circuit and large oil volume for longer service interval
- Compact design, smaller dimensions, low weight, ease of maintenance through telescopic design
- Mains supply: 230V, 50Hz

Oils

- B: Standard oil with very good viscosity characteristics, good chemical resistance, as well as a better stability when pumping oxidants such as acid and alkaline vapours.

- K 8: Especially designed for pumping acid vapours. It is very hygroscopic and has limited capacity for water vapour. The alkaline additive is consumed during operation, making it necessary to change the fluid regularly, even if the pump is not used for several days.

Lower vapour pressure and the viscosity characteristics than pump oil B.

-SI 2: Very high aging resistance. Stable against many aggressive gases (e. g. chlorine and hydrochloric acid).

Perfluoropolyether oil: This synthetic oil has excellent chemical resistance and is certified for pumping pure oxygen. Therefore it is used for pumping strong oxidants (halogenides, nitrogen oxides etc.). For these applications, the rotary vane pump must be prepared (completely disassembled, cleaned and filled with perfluoropolyether oil) by VACUUBRAND. This oil is available in 2 sorts: type PFPE 1 is exclusively suitable for rotary vane pumps RE / RZ 2.5 and 6 and particularly reasonably priced. The oil PFPE 2 can be used in all VACUUBRAND rotary vane pumps.

Pumps



RE2.5



RZ16

Model	Number of stages	Flow (m ³ /h)	Final vacuum (mbar abs.)	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
RE2.5	1	2,3	3x10 ⁻¹	316x190x125	10,2	1	022-697150
RE6	1	5,7	1x10 ⁻¹	370x207x142	15,4	1	022-697160
RE9	1	8,9	1x10 ⁻¹	460x232x152	21,4	1	022-697170
RE16	1	16,6	1x10 ⁻¹	505x232x152	25,2	1	022-697080
RZ2.5	2	2,3	2x10 ⁻³	316x190x125	11,4	1	022-698120
RZ6	2	5,7	2x10 ⁻³	370x207x142	16,4	1	022-698130
RZ9	2	8,9	2x10 ⁻³	460x232x152	24,2	1	022-698140
RZ16	2	16,6	2x10 ⁻³	545x232x152	29	1	022-698050

Oils



Model	Capacity (l)	Pvapor (bar)	Flash point (°C)	Visc. 40°C (mm ² /s)	Density 20°C (g/cm ³)	Pack (u.)	Art. No.
B	1	< 1x10 ⁻³	264	94	0,87	1	022-687010
B	5	< 1x10 ⁻³	264	94	0,87	1	022-687011
B	20	< 1x10 ⁻³	264	94	0,87	1	022-687012
K8	1	< 5x10 ⁻³	249	128	0,89	1	022-687100
K8	5	< 5x10 ⁻³	249	128	0,89	1	022-687101
K8	20	< 5x10 ⁻³	249	128	0,89	1	022-687102
PFPE 1	0,3	< 3x10 ⁻⁵	-	60	1,9	1	022-687610
PFPE 2	0,5	< 3x10 ⁻⁵	-	60	1,89	1	022-687600

For further information, please contact scharlab@scharlab.com

WASHER-DISINFECTORS


Professional cleaning of glassware

Washer-disinfectors
MIELE

Professional washing solution. Unit, tub and baskets made of stainless steel, front-loading. Filtration system divided into 4 stages. Feed pump, 400 liters per minute.

Accessories required, depending on user needs.

Gamma 7883


Model 7883 stainl.



Model 7883 with drying module

Model	Performance	Pump for intake water and deionizing	Isolation	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
G7883	Washing and thermal disinfection	Yes	Standard Miele	600x850 (820)x600	74	1	0G7883INOX
G7883 CD	Washing, drying and thermal disinfection	Yes	Standard Miele	900x850 (820)x700	101	1	000G7883CD

Gamma 7890


Model	Performance	Pump for intake water and deionizing	Isolation	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
G7893	Washing, drying and thermal disinfection	Yes	Standard Miele	600x1175x600	78	1	0G7893INOX

Gamma 8535

Model	Performance	Pump for intake water and deionizing	Isolation	Dim. WxHxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
PG 8535	Washing, drying and thermal disinfection. Automatic recognition of baskets	Yes	Double wall	900x820 (850)x700	114	1	62.8535.25

WATER ANALYSIS

- BOD/COD, *page 1055*
- Photometers and meters, *page 1060*
- Reagents for photometry, *page 1064*
- Reagents without photometry, *page 1068*
- Test strips, *page 1069*

WATER ANALYSIS: BOD/COD

Oxidirect BOD measuring system LOVIBOND®

The OxiDirect system is made up of 6 closed bottles where the fall in pressure due to oxygen consumption is measured, since the CO₂ produced due to oxygen consumption is bound by potassium hydroxide present in the seal cup in the bottle it results in a fall in pressure. Mercury-free BOD determination. By regulating sample volumes you can measure small mg concentrations, as low as 4.000mg/l. The value is shown directly in mg/l of oxygen. User-selectable measuring period from 1 to 28 days. Automatic start function following temperature equalization of the samples. The Basic kit includes the OxiDirect, complete unit with 6 sensor heads and control unit with batteries, Inductive stirring unit with power supply, 6 sample bottles, 6 rubber gaskets, 6 magnetic stirring rods, 1 overflow flask, 157ml, 1 overflow flask, 428ml, 1 bottle with 50ml potassium hydroxide solution, 1 bottle with 50ml nitrification inhibitor solution, 1 instruction manual. The complete version comes with 12 sensor heads instead of 6.

OxiDirect



Description	Capacity	Current connectors	Pack (u.)	Art. No.
OxiDirect complete equipment, BOD 6 places	6 bottles	1	1	0002444406
Same as above + 6 additional plugs	6 bottles	1	1	644-244410

BOD Incubators LOVIBOND®

Refrigerated incubators from 2 to 40°C. Internal shelves and electric connections to connect OxiDirect or other instruments.

Incubators



Description	Cap. (l)	Current connectors	Pack (u.)	Art. No.
TC135S Incubator with 3 shelves for 3 OxiDirect	140	4	1	0002438200
TC140G Incubator with 3 shelves for 3 OxiDirect. Glass door	140	4	1	0002438210
TC256G Incubator with 4 shelves for 7 OxiDirect. Glass door	255	7	1	0002438235
TC445S Incubator with 4 shelves for 12 OxiDirect.	445	9	1	0002438240

For further information, please contact scharlab@scharlab.com

COD photometer LOVIBOND®

The trade-name Lovibond is one of the leading companies in the field of water analysis. Based on the technology and design of the MD 100/200, they have designed simple and useful systems for waste water analysis applications. The operation and the method comply with norm ISO 15705:2002.

MD range



644-892502

Description	Detection range	Number of tests or ml	Pack (u.)	Art. No.
MD100 Photometer for COD test tubes sealed	View reagents	View reagents	1	644-276120
MD200 Photometer for COD test tubes sealed	View reagents	View reagents	1	644-892502



Photometer and thermoreactor COD systems LOVIBOND®

Lovibond presents a complete system for COD analysis, which is composed of the photometer and the thermoreactor. The system comes complete with sealed reactant tubes, to be chosen according to the expected concentration range on the one hand, and also the standard controls on the other. The reactant tubes details are set out in the attached table.

Systems

Description	Detection range	Number of tests or ml	Pack (u.)	Art. No.
Thermoreactor and MD100 photometer	View reagents	View reagents	1	644-276130
Thermoreactor and MD200 photometer	View reagents	View reagents	1	644-269260

Reagents and tubes COD LOVIBOND®

A selection of the range most commonly used in wastewater control.

Reagent tubes

Description	Detection range	Number of tests or ml	Pack (u.)	Art. No.
Vial VARIO for COD, without Hg	0-150mg/l	25	1	644-420710
Vial VARIO for COD	0-150mg/l	25	1	644-420720
Vial VARIO for COD	0-150mg/l	150	1	644-420725
Vial VARIO for COD, without Hg	0-1.500mg/l	25	1	6442420711
Vial VARIO for COD, without Hg	0-1.500mg/l	150	1	644-420716
Vial VARIO for COD	0-1.500mg/l	25	1	644-420721
Vial VARIO for COD	0-1.500mg/l	150	1	644-420726
Vial VARIO for COD, without Hg	0-15.000mg/l	25	1	644-420712
Vial VARIO for COD	0-15.000mg/l	25	1	644-420722
Vial VARIO for COD	0-15.000mg/l	150	1	644-420727
VARIO for Nitrite, Low level	0,01-0,3mg/l	100	1	644-530980
VARIO for total phosphate reagent	0,06-3,5mg/l	50	1	644-535210
VARIO for total nitrogen, high level	5-150mg/l	50	1	644-535560
VARIO for Nitrates	1-30mg/l	50	1	644-535580
VARIO for ammonia, high level	0,01-8,0mg/l	50	1	644-535650

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Thermoreactor RD 125 LOVIBOND®

Some control parameters require prolonged digestion times to evaluate and quantify their value photometrically. Analysis of COD, TOC, total phosphate and total nitrogen. For easy sample handling, the thermoreactor is fitted with 24 holes for 16mm diameter vials. The unit works at three different temperatures: 100, 120, 150°C, and three preset reaction times 30, 60, 120 minutes. When digestion is complete, the reactor automatically switches off and gives a corresponding LED indication with a short beep alarm.

RD 125

Description	Detection range	Number of tests or ml	Pack (u.)	Art. No.
Thermoreactor RD125 with lid	View reagents	View reagents	1	0002418940

Waste water systems LOVIBOND®

Lovibond presents a complete system for wastewater analysis, which is made up of a photometer, printer and thermoreactor. The system is completed by Lovibond reagents for photometric measurements, to be chosen according to the expected concentration range on the one hand, and also the standard controls on the other. Look up parameters and measurement range on the previous pages.



Description	Detection range	Number of tests or ml	Pack (u.)	Art. No.
Thermoreactor and MD600 photometer	View reagents	View reagents	1	644-214100
Thermoreactor and SpectroDirect photometer	View reagents	View reagents	1	644-712100

Standards

Description	Number of tests or ml	Pack (u.)	Art. No.
COD Standard Solution, 100mg/l	30	1	644-420803
COD Standard Solution, 500mg/l	30	1	644-420804
COD Standard Solution, 5.000mg/l	30	1	644-420805

BOD analysis BMS-6 VELP

Traditional manometric technique for concentrations of up to 1000mg/l (ppm).

Model	Capacity	Temperature (°C)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
BMS traditional measurement	Flask 500ml	-	2	7	360x350x210	1	043-100131

BOD 10 VELP

The same as above, for 10 BOD analyses

Model	Capacity	Temperature (°C)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
BOD Sensor System 10	Flask 500ml	-	2	3	432x300x165	1	043-100137

BOD 6 VELP

Complete system for 6 BOD analyses includes a 6-position stirring station with BOD sensors, dark glass bottles, alkali holders and stirring bars.

Model	Capacity	Temperature (°C)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
BOD Sensor System 6	Flask 500ml	-	2	2,3	270x300x185	1	043-100136

BOD Bottle VELP

Ready-to-use system includes a BOD Sensor, dark glass bottle, alkali holders and a magnetic stirring bar. The BOD bottle is designed for the VELP MST stirrer.

Model	Capacity	Temperature (°C)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
BOD Sensor Set	Flask 500ml	-	No	0,4	75x230x75	1	043-100134

BOD Sensor VELP

A new form, mercury-free, for BOD analysis. Simple to handle and simple to read. A pressure transducer, placed in a cap, measures the BOD value directly in mg/l with no need of further calculation and the results are sent automatically to the system.



Model	Capacity	Temperature (°C)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
BOD Sensor	Flask 500ml	-	No	0,08	55x71x73	1	043-100133

BOD Soft VELP

The exclusive BODSoft™ collects and stores all information relevant to the analyses.

Is required Databox and BOD EVO Sensor plugs



Model	Capacity	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
Sensor with software and Databox interface	Flask 500ml	2	2,3	270x300x185	1	043-111146

Flocculators VELP

Flocculators with 4 or 6 independent positions, with controlled stirring and a global or independent time. The FP is a portable flocculator.

Model	Speed (rpm)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
FC4S, 4 independents	10 - 15 - 30 - 45 - 60 - 90 -120 - 150 - 200	18	12,5	645x347x260	1	043-100111
FC6S, 6 independents	10 - 15 - 30 - 45 - 60 - 90 -120 - 150 - 200	23	18	935x347x260	1	043-100112
FP4, Portatil	20 - 40 - 50 - 100 - 200	6	4,8	250x320x250	1	043-100117
JLT 4, 4 seats	From 10 to 300	11	13	645x347x260	1	043-100108
JLT 6, 6 seats	From 10 to 300	19	17	935x347x260	1	043-100109

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**FOC - FTC
VELP**

Refrigerated incubators designed for incubating BOD measurement instruments.



Refrigerated incubator for BOD

Model	Additional features	Capacity (l)	Capacity BOD Systems	Temperature (°C)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
FTC 120	-	120	3 x BOD 6 or 2 x BOD 10	20	150	36,00	540x912x550	1	043-100300
FOC 120E	-	120	3 x BOD 6 or 2 x BOD 10	From 3,0 to 50,0	120	36,00	540x912x550	1	043-100310
FOC 215E	-	215	5 x BOD 6 or 3 x BOD 10	From 3,0 to 50,0	400	46,30	540x1263x550	1	043-100330
FOC 120I	Transparent internal door	120	2 x BOD 6 or 1 x BOD 10	From 3,0 to 50,0	120	36,00	540x912x550	1	0010400320
FOC 215I	Transparent internal door	215	4 x BOD 6 or 2 x BOD 10	From 3,0 to 50,0	400	46,30	540x1263x550	1	0010400340

**Thermoreactor, COD analysis
VELP**



Velp Reactor

Thermoreactors with temperature and operating time control (up to 200°C and up to 199 minutes). Dedicated adapters are available for different sizes and quantities of test tubes. Designed for Chemical Oxygen Demand (COD), total phosphorus, chrome and other analyses. Power supply: 230 V

ECO range



Model	Capacity	Temperature (°C)	Power (W)	Weight (Kg)	Dim. WxHxD (mm)	Pack (u.)	Art. No.
ECO 6 for 6 samples	6 tubes	Up to 200	700	5,6	198x132x319	1	043-100120
ECO 16 for 16 samples	16 tubes	Up to 160	550	3,8	168x110x269	1	043-100126
ECO 8 for 8 samples	8 tubes	70, 100, 120, 150 and 160	140	2	135x95x230	1	043-100127
ECO 25 for 25 samples	25 tubes	70, 100, 120, 150 and 160	400	3,8	155x95x275	1	043-100125

For further information, please contact scharlab@scharlab.com

WATER ANALYSIS: Photometers and meters


MD 100

**Portable MD 100 photometer
LOVIBOND®**

Lovibond is suitable for precision water analysis. The Tintometer group uses a technological process, which started 30 years ago with the first photometer, called PC 100. The new range MD 100 measures "in situ" a multitude of parameters with systems designed to facilitate the work of the technician taking into account where the work must be carried out. The MD 100 uses high quality interference filters with long-life LEDs as a light source, ergonomic design, compact dimensions and safe to handle. The tests are conducted using either Lovibond tablet reagents, VARIO powder reagents or using liquid reagents. It allows testing of 1 to 6 parameters per instrument. Needs 4 batteries to work. Every MD 100 comes in a carrying case, which includes all the required accessories.

MD 100 1 parameter


Description	Reagent type	Pack (u.)	Art. No.
MD100 photometer, Chlorine 0,01-6,0mg/l Cl ₂	Pills	1	644-276000
MD100 photometer, Chlorine 0,01-4mg/l Cl ₂	Liquid reagents	1	644-276005
MD100 photometer, Chlorine 0,02-2,0 mg/l	Powdered reagents	1	644-276010
MD100 photometer, Chlorine DUO 0,01-6,0mg/l	Pills	1	644-276020
MD100 photometer, Chlorine DUO 0,02-2,0mg/l	Reactivos en polvo	1	644-276025
Chlorine Dioxide Photometer 0,05 - 11mg/l	Pills	1	644-276030
Chlorine Dioxide Photometer 0,05 - 3,8mg/l	Powdered reagents	1	644-276035
MD100 photometer, Phosphate 0,05-4,0mg/l	Pills	1	644-276040
MD100 photometer, Phosphate 0,05-4,0mg/l	Powdered reagents	1	644-276045
MD100 photometer, Iron 0,02-1,0mg/l Iron	Pills	1	644-276050
MD100 photometer, Iron 0,02-1-8mg/l Iron	Powdered reagents	1	644-276055
MD100 photometer, Iron 0,02-3,0mg/l Iron	Powdered reagents	1	644-276056
MD100 photometer, Ammonia 0,02 - 1,0mg/l	Pills	1	644-276060
MD100 photometer, Ammonium 0,01-0,8 mg/l N	Powdered reagents	1	644-276065
MD100 photometer, Ammonium 0,01-0,5mg/l N	Powdered reagents	1	644-276070
MD100 photometer, Copper 0,05-5,0mg/l Copper	Pills	1	644-276080
MD100 photometer, Copper 0,05-5,0mg/l Copper	Powdered reagents	1	644-276085
MD100 photometer, Fluorides 0,05-2,0mg/l F	Without reagents	1	644-276090
MD100 photometer, Manganese 0,2-4mg/l	Pills	1	644-276100
Silicon Dioxide Photometer 0,05-4,0mg/l	Pills	1	644-276110
Silicon Dioxide Photometer 0,1-1,0mg/l	Powdered reagents	1	644-276115
MD100 Photometer COD cuvette test	Tubes reagents	1	644-276120
MD100 Photometer suspended solids	Without reagents	1	644-276116
MD100 Photometer COLOR/Hazen	Without reagents	1	644-276160
MD100 Photometer Chlorine high level 5-200mg/l	Pills	1	644-276170
MD100 Photometer total hardness 2-50mg/l	Pills	1	644-276190
MD100 Photometer Aluminium 0,05 - 0,5mg/l	Pills	1	644-276200

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MD 100 multiparameter

Description	Reagent type	Pack (u.)	Art. No.
MD100 Photometer Chlorine and pH	Pills	1	644-278020
MD100 Photometer 2 in 1, Chlorine and pH	Liquid reagents	1	644-278025
MD100 Photometer 2 in 1, Chlorine and pH	Powdered reagent	1	644-278030
MD100 Photometer 3 in 1, Chlorine high and low range, and Chlorine Dioxide	Pills	1	644-278000
MD100 Photometer 3 in 1, Chlorine, pH and stabilizer (HCN)	Pills	1	644-278010
MD100 Photometer 3 in 1, Chlorine, pH and stabilizer (HCN)	Liquid reagents	1	644-278015
MD100 Photometer 3 in 1, Chlorine, pH and alkalinity	Pills	1	644-278060
MD100 Photometer 3 in 1, Chlorine, pH and alkalinity	Liquid reagents	1	644-278065
MD100 Photometer 4 in 1, Cl, pH, HCN and Alkalinity	Pills	1	644-278070
MD100 Photometer 4 in 1, Cl, pH, HCN and Alkalinity	Liquid reagents	1	644-278075
MD100 Photometer 5 in 1, Cl, pH, HCN Alkalinity and calcium hardness	Pills	1	644-278080
MD100 Photometer 5 in 1, Cl, Br, pH, HCN Alkalinity and calcium hardness	Pills	1	644-278090



Portable MD 200 photometer LOVIBOND®

The new MD 200 range measures "in situ" a multitude of parameters with systems designed to facilitate the work of the technician taking into account where the work must be carried out. The MD 200 uses one or more interference filters with long-life LEDs as a light source, ergonomic design, compact dimensions, for portable use and it is waterproof. The tests are conducted using either Lovibond tablet reagents or using liquid reagents. It allows for testing of 2 to 6 parameters per instrument. Needs 6 batteries to work. Every MD 200 comes in a carrying case, which includes all the required accessories.

MD 200 Multiparameter



Description	Reagent type	Pack (u.)	Art. No.
MD200 Photometer, 2 in 1 for Chlorine and pH	Pills	1	644-208940
MD200 Photometer, 2 in 1 for Chlorine and pH	Liquid reagents	1	644-208941
MD200 Photometer, 2 in 1 for Copper and pH	Pills	1	644-208942
MD200 Photometer, 3 in 1 for Cl, pH and alkalinity	Liquid reagents	1	644-208930
MD200 Photometer, 3 in 1 for Cl, pH and alkalinity	Pills	1	644-208900
MD200 Photometer, 3 in 1 for Cl, pH and Br	Pills	1	644-206180
MD200 Photometer, 3 in 1 for Cl, pH and stabilizer (HCN)	Liquid reagents	1	644-208200
MD200 Photometer, 3 in 1 for Cl, pH and HCN	Pills	1	6442860102
MD200 Photometer, 4 in 1 for Cl, pH, HCN and Alkalinity	Pills	1	644-206050
MD200 Photometer, 4 in 1 for Cl, pH, HCN and Alkalinity	Liquid reagents	1	644-206054
MD200 Photometer, 5 in 1 for Cl, pH, HCN, Alkalinity and calcium hardness	Pills	1	644-206120
MD200 Photometer, 6 in 1 for Cl, Br, pH, HCN, Alkalinity and calcium hardness	Pills	1	644-206190
MD200 Photometer, 6 in 1 for Cl, pH, HCN, Alkalinity, Cu and Fe	Pills	1	644-206210

For further information, please contact scharlab@scharlab.com



Portable MD 600 photometer LOVIBOND®

The new MD 600 range measures "in situ" a multitude of parameters with systems designed to facilitate the work of the technician taking into account where the work must be carried out. The MD 600 replaced the Maxi Direct with an updated, light and ergonomic, portable and waterproof design. The tests are conducted using either Lovibond tablet reagents or using liquid reagents. High resolution: 0,005 A. Needs 4 batteries AA/LRG to work. The MD 600 comes in a carrying case, which includes all the required accessories. The instrument has a factory calibration and it may be calibrated by the user with N.I.S.T traceable standards. Weighs 450g and has memory for 1.000 results.

Description	Reagent type	Pack (u.)	Art. No.
MD 600 Photometer, up to 120 methods	Various	1	644-214020

MultiDirect photometer LOVIBOND®

The MultiDirect is a portable or bench-top photometer with great features in a small instrument. The tests are conducted using either Lovibond tablet reagents, VARIO powder reagents or using liquid reagents. The instrument is a filter photometer using 6 photodiodes and 6 interference filters without mobile parts. Interface R232. Software updates via internet. Dual beam technology. It comes factory programmed for the parameters of interest to the user. Operates with seven standard rechargeable batteries. Has a battery charger. The MultiDirect comes in a carrying case, which includes all the required accessories. The instrument is factory calibrated and it may be calibrated by the user with N.I.S.T standards. Weighs 1.000g and has memory for 1.000 results.

Multi Direct



Description	Reagent type	Pack (u.)	Art. No.
MultiDirect photometer double beam	Various	1	644-210000

PM 600 photometer LOVIBOND®

The PoolDirect is a variant instrument of Multidirect for portable or bench top use. Especially designed as a photometer for pool water testing: the tests are conducted using either Lovibond tablet reagents, VARIO powder reagents or liquid reagents. Its technical specifications are the same as the MultiDirect. The instrument is factory programmed for the appropriate parameters in this case, i.e. the main pool parameters including: Alkalinity, Bromine, Chlorine, Copper, Cyanuric Acid, Calcium Hardness, Ozone and pH-value. It operates with seven standard rechargeable batteries. It has a battery charger. The Pooldirect comes in a carrying case, which includes all the required accessories. The instrument is factory calibrated and it may be recalibrated by the user with N.I.S.T traceable standards. Weighs 1.000g and has memory for 1.000 results.

PoolDirect



Description	Reagent type	Pack (u.)	Art. No.
PM 600 photometer double beam	Various	1	644-212050

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SpectroDirect spectrophotometer
LOVIBOND®

The SpectroDirect is a high performance benchtop instrument: tests are conducted using either Lovibond tablet reagents or liquid reagents, as well as the range of VARIO reagents, and tube reagents. It has a tungsten halogen lamp, a monochromator and a silicon photodiode detector. Absorption and transmission readings. Pre-programmed methods. Wavelength range from 330 to 900nm. Memory for 35 pre-programmed methods, software updates via internet, with calibration curves and linear or polynomial factors and kinetics. Interface RS232. The instrument has a factory calibration and it may be calibrated by the user with N.I.S.T traceable standards. Look up our accessories: carrying case, vials and cells, or printer.

SpectroDirect

Description	Reagent type	Pack (u.)	Art. No.
SpectroDirect spectrophotometer	330-900nm	1	644-712000
SpectroDirect spectrophotometer, with parts and aluminum case	330-900nm	1	644-712005

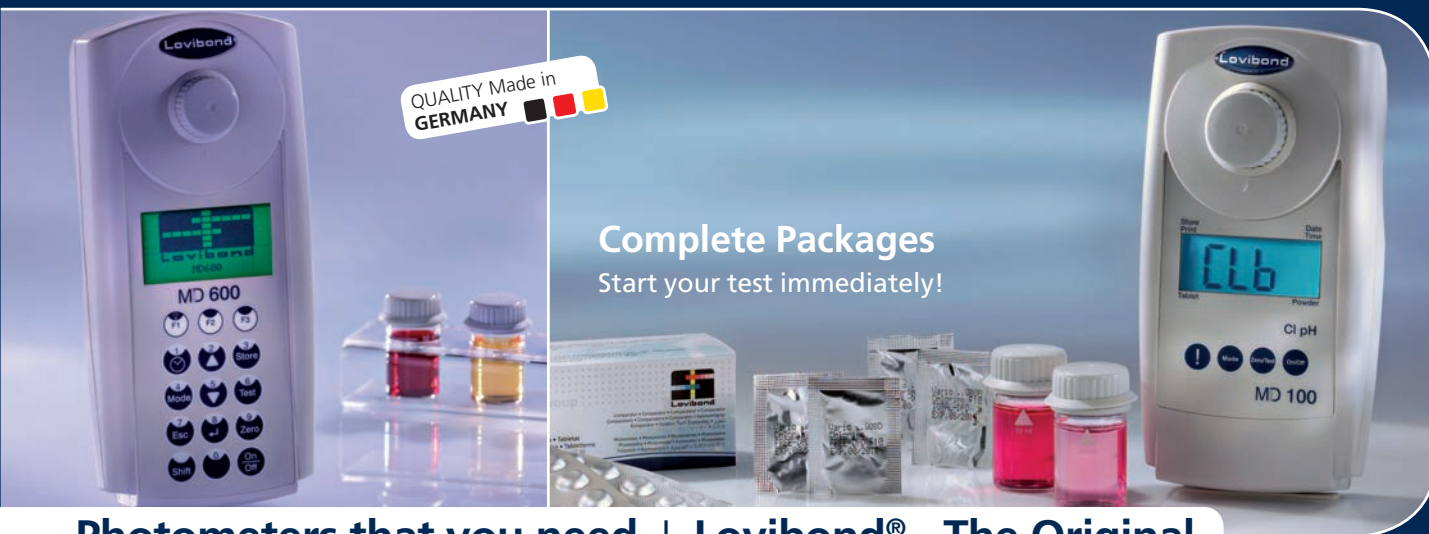
For further information, please contact scharlab@scharlab.com

WATER ANALYSIS

Lovibond® Water Testing Tintometer® Group



Modern, mobile photometers for rapid & reliable water testing



QUALITY Made in GERMANY

Complete Packages
Start your test immediately!

Photometers that you need | Lovibond® - The Original

- High accuracy
- Waterproof
- High precision interference filters
- Data transfer via infra-red
- Storage
- Easy to use
- Stable reagents
 - Tablet reagents
 - Powder packs
 - Liquid reagents

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Turbidity Meters LOVIBOND®

The optoelectronic methods to analyze turbidity require an infrared light source or a white light source. Based on the MD 100, MD 200 or MultiDirect, well established design, they add to the convenience and versatility of the Lovibond test kits. Range:0,01-1100 NTU.

TB 250 WL

Description	Pack (u.)	Art. No.
Turbidity meter white light	1	644-194200

TB 210 IR

16 data memory.

Description	Pack (u.)	Art. No.
IR turbidity meter	1	644-266020

TB 300 IR

1000 data memory. RS232C.

Description	Pack (u.)	Art. No.
IR turbidity meter	1	644-194000

WATER ANALYSIS: Reagents for photometry



Photometric analysis LOVIBOND®

Quick, sensitive and reliable analysis using the Lovibond photometer range. User instructions for each reagent, detailing the start of the reaction, detection range and the recommended accessories to achieve an optimum detection level. The same reagents give different sensitivity limits in one or other photometer, with cells of varying path lengths.

→ Continued on the next page

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Photometry Lovibond®



Description	Detection range	Number of pills, tests or ml	Pack (u.)	Art. No.
Turbidity standards kit T-CAL	-	-	1	644-194150
Calibration Standard for Fluoride 30ml	-	30ml	1	644-205630
KIT Calibration Standard for Chlorine	-	-	1	644-205600
Verification standard for MD200	-	-	1	644-215670
Cadmium test tube	0,025-0,75mg/l Cd	25	1	644-420750
Liquid reagent for formaldehyde	1-5mg/l HCHO	50-75	1	644-420751
Formaldehyde reagent tube	0,1-5mg/l HCHO	25	1	644-420752
Reagent for lead	0,1-5mg/l Pb	50	1	644-420753
Lead reagent tube	0,1-5mg/l Pb	25	1	644-420754
Tube test TOC	50-800mg/l TOC	25	1	0002420756
Nitrate Reagent Powder 15g	0,08-1,0mg/l NO ₂ / NO ₃	Reagent 1 Nitrate, 15g	1	644-465230
Nitrates, pills (bottle)	0,08-1,0mg/l NO ₂ / NO ₃	Reagent 1 Nitrate, variant, 100	1	644-502810
Nitrites Pills	0,08-1,0mg/l NO ₂ / NO ₃	Reagent Nitrite, low level, 100	1	644-512310
Fluoride Reagent 250 ml	0,05-1,5mg/l F	Need standard Art. No. 644-205630	1	644-467481
DPD 1 buffer solution, for Chlorine	0,02-4mg/l CaCO ₃	15ml	1	644-471010
DPD 1 Reagent for Chlorine	0,02-4mg/l CaCO ₃	15ml	1	644-471020
DPD 3 Reagent for Chlorine	0,02-4mg/l CaCO ₃	15ml	1	644-471030
DPD reagents set for Cl (the 3 above)	0,02-4mg/l CaCO ₃	15 of each	1	644-471056
DPD 1 Reagent for Iodine	0,05-3,6mg/l of Iodine	Needed for analysis of Br, Cl, ClO and O ₃ , 100	1	644-511050
DPD 3 Reagent for Br, Cl, ClO, and O ₃	approx. 0,05-3,6mg/l of the analyte	100	1	644-511080
DPD N°4 pills for Oxygen	0,1-10mg/l O ₂	100	1	644-511220
DPD N°1 pills for Cl, high range	0,1-10mg/l Cl	100	1	644-511500
DPD N°3 pills for Cl, high range	0,1-10mg/l Cl	100	1	644-511590
Hydrogen peroxide pills	0,03-3mg/l H ₂ O ₂	100	1	644-512380
Pills ammonia, 1	0,02-1mg/l N	100	1	644-512580
Pills ammonia, 2	0,02-1mg/l N	100	1	644-512590
Iron I pills, low level	0,02-1,0mg/l	100	1	644-515370
Iron II pills, low level	0,1-1,0mg/l	100	1	644-515420
Calcium hardness Pills	50-900mg/l CaCO ₃	100	1	644-515650
Boron N° 1 reagent	0,1-2mg/l B	100	1	644-515790
Boron N° 2 reagent in tablet	0,1-2mg/l B	100	1	644-515800
Phenol N° 1 pills	0,1-5,0mg/l C ₆ H ₅ O ₁₄	100	1	644-515950
Phenol N° 2 pills	0,1-5,0mg/l C ₆ H ₅ O ₁₄	100	1	644-515960
Manganese 1 Pills, low level	0,2-4,0mg/l Mn	100	1	644-516080
Manganese 2 Pills, low level	0,2-4,0mg/l Mn	100	1	644-516090
PHMB pills (biguanide)	2-60mg/l, PHMB	100	1	644-516100
Combi pack Glycine for DPD N°1 ClO and O ₃	0,02-11,0mg/l	100 of each	1	644-517731
Combi pack Glycine for DPD N°2 ClO and O ₃	0,02-11,0mg/l	250 of each	1	644-517732
Sulfites Reagent, low level	0,1-10mg/l SO ₃	100	1	644-518020

→ Continued on the next page

For further information, please contact scharlab@scharlab.com

Photometry no Lovibond®

Description	Detection range	Number of pills, tests or ml	Pack (u.)	Art. No.
VARIO complete with tubes for Nitrate/Nitrite	1 - 30mg/l	50	1	644-535580
VARIO for free Chlorine, DPD	0,02-2mg/l	100	1	644-530100
VARIO for total Chlorine, DPD	0,1-8mg/l	100	1	644-530120
VARIO Copper Powders	0,05-5mg/l Cu	100	1	644-530300
VARIO TPTZ iron Pack 100units	0,1-1,8mg/l Fe	100	1	644-530550
VARIO F10 iron Pack 100units	0,02-3mg/l Fe	100	1	644-530560
VARIO for Chloramine, 100units	0,04-4,5mg/l Cl ₂	100	1	644-531810
VARIO for Aluminium	0,01-0,25mg/l Al	100 of each	1	644-535000
VARIO for manganese, low level	0,01-0,7mg/l Mn	100	1	644-535090
VARIO for manganese, high level 10ml	0,1-18mg/l Mn	100 of each	1	644-535100
VARIO for phosphate 0,06-5mg/l	0,06-5,0mg/l PO ₄	50	1	644-535200
VARIO for total phosphate reagent	0,06-3,5mg/l PO ₄	50	1	644-535210
VARIO for total phosphorus and hydrolyzable	0,06-3,5mg/l PO ₄	50	1	644-535250
VARIO for molybdenum, high level 10ml SET	0,03-3mg/l Mo	100 of each	1	644-535300
VARIO for molybdenum, low level 10ml SET	0,3-40mg/l Mo	100	1	644-535400
VARIO for Ammonia nitrogen 10ml SET	0,01-0,8mg/l N	100 of each	1	644-535500
VARIO for Ammonia nitrogen, low level 10ml 0-25mg/L	0,5-25mg/l N	50	1	644-535550
VARIO for total nitrogen, high level	5-150mg/l N	50	1	644-535560
VARIO for Nitrates	1-30mg/l N	50	1	644-535580
VARIO for ammonia, low level	0,02-2,5mg/l N	50	1	644-535600
VARIO for ammonia, high level	0,01-8,0mg/l N	50	1	644-535650
VARIO for Silica low level	0,1-1,6mg/l SiO ₂	100	1	644-535690
VARIO for Silica high level	1-90mg/l SiO ₂	100	1	644-535700
VARIO for DEHA	20µg/l DEHA	200	1	644-536000
PERSULFATE Reagent for chrome	0,005-0,5mg/l Cr	100	1	644-537300
Hexavalent Chromium Reagent	0,02-2mg/l Cr	100	1	644-537310
Cyanide Reagent	0,01-0,5mg/l CN	200	1	644-418875
Reagent vial for total phosphate	0,07-3mg/l P	24	1	0002419019
Nickel reagent tube	0,02-7mg/l Ni	50	1	644-419033
Reagent tube for Total Phosphorus	1,5-20mg/l P	24	1	644-420700
Reagent vial for total nitrogen	0,5-140mg/l N	24	1	0002420703
COD VARIO midrange vial without Hg	0-1500mg/l O ₂	25	1	6442420711
COD VARIO low range vial	0-150mg/l O ₂	25	1	644-420720
COD VARIO midrange vial	0-1500mg/l O ₂	25	1	644-420721
COD VARIO high range vial	0-15000mg/l O ₂	25	1	644-420722

WATER ANALYSIS: Reagents without photometry

**Checkit Comparators
LOVIBOND®**

The Checkit range comes in a case which includes the checkit comparator instrument and the disc with a continuous color scale, cells, stirrer, and reagents to carry out 30 tests. To extend the use of the instrument or reorder accessories avail of the TestPack with the disc and the material necessary to carry out, generally, 30 tests. Similar to CheckKit, but a more economical pack without the case or instrument. (See Art. No. in the column "additional reagent")

→ Continued on the next page

1 test

Description	Titration method	Detection range	Additional reagent	Pack (u.)	Art. No.
Checkit 5 in 1 Cl/pH/Cyanuric acid/Hardness/Alkalinity	Comparator Colour	As parameter	As parameter	1	644-147028
Checkit, total alkalinity	Comparator Colour	20-240mg/l	Art. No. 644-147950	1	644-147450
Checkit, Aluminium	Comparator Colour	0-0,3mg/l	Art. No. 644-147700	1	644-147200
Checkit, Ammonia	Comparator Colour	0-1mg/l	Art. No. 644-147710	1	644-147210
Checkit, Bromine	Comparator Colour	0-5mg/l	Art. No. 644-147780	1	644-147280
Checkit, Chlorine	Comparator Colour	0-1mg/l	Art. No. 644-147510	1	644-147010
Checkit, Chlorine	Comparator Colour	0-3,5mg/l Cl ₂	Art. No. 644-147552	1	644-147052
Checkit, Chlorine	Comparator Colour	0-4mg/l	Art. No. 644-147520	1	644-147020
Checkit, Chlorine	Comparator Colour	0,02-0,3mg/l	Art. No. 644-147500	1	644-147000
Checkit, Chlorine	Comparator Colour	0,1-2mg/l	Art. No. 644-147540	1	644-147040
Checkit, Chlorine pH 6,5-8,4	Comparator Colour	0-1,0mg/l	Art. No. 644-147515	1	644-147015
Checkit, Chlorine pH 6,5-8,4	Comparator Colour	0-4,0mg/l	Art. No. 644-147525	1	644-147025
Checkit, Chlorine pH 6,5-8,4	Comparator Colour	0,1-2,0mg/l	Art. No. 644-147545	1	644-147045
Checkit, Chlorine DPD/pH	Comparator Colour	10-30mg/l Cl ₂	Art. No. 644-147526	1	644-147026
Checkit, total Chlorine	Comparator Colour	10-300mg/l	Art. No. 644-147530	1	644-147030
Checkit, total Chlorine	Comparator Colour	0-3,5mg/l	Art. No. 644-147551	1	644-147051
Checkit, Copper (free, total)	Comparator Colour	0-1mg/l	Art. No. 644-147940	1	644-147440
Checkit, Copper (free, total)	Comparator Colour	0-5mg/l	Art. No. 644-147930	1	644-147430
Checkit, Copper pH 6,5-8,4	Comparator Colour	0-1mg/l	Art. No. 644-147735	1	644-147235
Checkit, Copper free	Comparator Colour	0-1mg/l	Art. No. 644-147730	1	644-147230
Checkit Comparator, Chlorine	Comparator Colour	0-3,5mg/l Cl ₂	Art. No. 644-147550	1	644-147050
Checkit DEHA	Comparator Colour	0-0,5mg/l	Art. No. 644-147870	1	644-147370
Checkit, chlorine dioxide	Comparator Colour	0,01-0,2mg/l	Art. No. 644-147830	1	644-147330
Checkit, Phosphate	Comparator Colour	0-4mg/l	Art. No. 644-147740	1	644-147240
Checkit, Phosphate	Comparator Colour	0-80mg/l	Art. No. 644-147750	1	644-147250
Checkit, Iron	Comparator Colour	0,05-1mg/l	Art. No. 644-147720	1	644-147220
Checkit, Iron	Comparator Colour	1-10mg/l	Art. No. 644-147820	1	644-147320
Checkit Iron (TPTZ)	Comparator Colour	0-1,80mg/l	Art. No. 644-147970	1	644-147470
Checkit, Sodium Hypochlorite	Comparator Colour	2-18%	Art. No. 644-147990	1	644-147490
Checkit, Molybdate	Comparator Colour	0-100mg/l	Art. No. 644-147790	1	644-147290
Checkit, Nitrite	Comparator Colour	0-0,5mg/l	Art. No. 644-147800	1	644-147300
Checkit, Ozone	Comparator Colour	0-0,7mg/l	Art. No. 644-147770	1	644-147270
Checkit pH from 4	Comparator Colour	4-10 pH	Art. No. 644-147630	1	644-147130
Checkit pH from 5,2	Comparator Colour	5,2-6,8 pH	Art. No. 644-147610	1	644-147110
Checkit pH from 6,0	Comparator Colour	6,0-7,6 pH	Art. No. 644-147620	1	644-147120
Checkit pH from 6,5	Comparator Colour	6,5-8,4 pH	Art. No. 644-147600	1	644-147100
Checkit swim Cl pH 6,5-8,4	Comparator Colour	0,1-2,0mg/l	Art. No. 644-147546	1	644-147046
Checkit swim Cl pH 6,5-8,4	Comparator Colour	0-1mg/l	Art. No. 644-147516	1	644-147016
Checkit, Silice	Comparator Colour	0-1mg/l	Art. No. 644-147860	1	644-147360
Checkit, Silice	Comparator Colour	0,25-4mg/l	Art. No. 644-147850	1	644-147350
Checkit, Sulfite	Comparator Colour	0,5-10mg/l	Art. No. 644-147880	1	644-147380
Checkit, Zinc	Comparator Colour	0-1mg/l	Art. No. 644-147840	1	644-147340

For further information, please contact scharlab@scharlab.com



Comparators 2000 + LOVIBOND®

Every complete kit includes, discs with continuous color scale, accessories and reagent tablets to carry out 100 measurements of each parameter. It is all included in a carrying case. Wide variety of 30 parameters and more than 100 available tests. No instruments are required. Includes an instructions manual to aid those with less expertise.

COMPARATOR 2000 + Combined



Description	Titration method	Pack (u.)	Art. No.
AF270 Mini laboratorio agua de piscina	Colour Comparator 2000 +, nine parameters	1	644-412700
AF357 KIT drinking water	Colour Comparator 2000 +, six parameters	1	644-413570
AF358 Kit discharges and domestic	Colour Comparator 2000 +, six parameters	1	644-413580
AF368 Mini KIT heavy metals	Colour Comparator 2000 +, five parameters (without reagents)	1	644-413680



Minikits for rapid test LOVIBOND®

For a quick simple and reliable analysis without the need for appliances. The tablet count method is based on a specific number of reagent tablets, on the water volume added or on the liquid level. This is an ingenious use of two concentric tubes to assess the concentration by the clarity or turbidity of the solution. Reagents (tablets) are presented in convenient blister packs, with a shelf life of not less than five years. The Minikit provides all the elements needed to perform the test. The references for 100/250 additional tablet packs are shown in the table.

→ Continued on the next page

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Complete Mini Kits

Description	Titration method	Detection range	Additional reagent (number of pills)	Pack (u.)	Art. No.
Acid arsenic in drinking water	Colour	0,005-0,5mg/l As	No	1	644-400700
AF422 cyanuric acid	Turbidimetric	20-200mg/l cyanuric acid	No	1	644-414220
AF415 caustic alkalinity	Pills	20-500mg/l CaCO ₃	Art. No. 644-515501 (250 p)	1	644-414150
M alkalinity, AF 444	Sample drip	20-800mg/l CaCO ₃	No	1	644-414440
P alkalinity, AF 414	Pills	20-500mg/l CaCO ₃	Art. No. 644-515501 (250 p)	1	644-414140
AF413 total alkalinity	Pills	10-500mg/l CaCO ₃	Art. No. 644-515321 (250 p)	1	644-414130
AF417 quaternary ammonium	Pills	0-500mg/l AC active	No	1	644-414170
AF418 Chlorides	Pills	5-5.000mg/l CL	Art. No. 644-515131 (250 p)	1	644-414180
AF416 calcium Hardness	Pills	10-500mg/l CaCO ₃	Art. No. 644-515191 (250 p)	1	644-414160
AF446 calcium Hardness	Sample drip	20-800mg/l CaCO ₃	No	1	644-414460
AF423 hardness yes/no	Yes/No	4 or 8 or 20mg/l CaCO ₃	Art. No. 644-515361 (250 p)	1	644-414230
Total hardness, L AF445	Sample drip	20-800mg/l CaCO ₃	No	1	644-414450
Total hardness, P AF424	Pills	5-500mg/l CaCO ₃	Art. No. 644-515161 (250 p)	1	644-414240
Hardness, low range, AF425	Pills	1-50mg/l CaCO ₃	Art. No. 644-515171 (250 p)	1	644-414250
Hardness, very low range AF426	Pills	1-10mg/l CaCO ₃	Art. No. 644-515351 (250 p)	1	644-414260
AF411 organic phosphonate	Pills	1-20mg/l O-P	Art. No. 644-465351 and 644-512961 (250 p)	1	644-414110
AF427 Nitrites	Pills	70-1.500mg/l NaNO ₂	Art. No. 644-515201 and 644-515211 (250 p)	1	644-414270
AF410 acid cleaner	Pills	0,75 a 10%	No	1	644-414100
Sulfates, low level, AF432	Pills	20-200mg/l Na ₂ SO ₄	Art. No. 644-515221 and 644-515231 (250 p)	1	644-414320
Sulfates, AF431	Turbidimetric	40-4.000mg/l SO ₄	Art. No. 644-515451 (250 p)	1	644-414310
Sulfite, high level, AF435	Pills	20-500mg/l Na ₂ SO ₃	Art. No. 644-515271 and 644-515281 (250 p)	1	644-414350
Sulfite, low level, AF434	Pills	2-50mg/l Na ₂ SO ₃	Art. No. 644-515271 and 644-515331 (250 p)	1	644-414340
Tannins, AF436 index	Pills	2-20mg/l units	Art. No. 644-503511 (250 p)	1	644-414360

WATER ANALYSIS: Test strips



Semi-quantitative test strips SCHARLAU

Scharlau's semi-quantitative test strips enable an easy and quick determination of different parameters in a solution.

Description	Measuring values (ppm)	Pack (u.)	Art. No.
Nitrite indicator strips. 100 strips per package	Readings at 0-0,5-1-5-10-25 ppm	1	TP002500NI
Nitrate indicator strips. 100 strips per package	Readings at 0-10-25-50-100-250-500 ppm	1	TP050000NA
Peracetic acid indicator strips. 100 strips per package	Readings at 0-5-10-20-30-50 ppm	1	TP005000PA
Peracetic acid indicator strips. 100 strips per package	Readings at 0-100-250-500 ppm	1	TP050000PA
Peroxide indicator strips. 100 strips per vial	Readings at 0-1-3-10-30-100 ppm	1	TP010000PX
Peroxide indicator strips. 100 strips per vial	Readings at 0-100-200-400 ppm	1	TP040000PX

For further information, please contact scharlab@scharlab.com

WATER TREATMENT AND WATER STILLS

Water stills GFL®

Economical work due to the distillation of heated cooling water. They are reliable, maintenance-free, easy to operate and to service and bear the CE mark. Bench mounting. Desktop model without storage tank. Very good distillate quality; conductivity approx. 2.3 µs /cm at 25 °C (see "Technical Details").

Thermostatic low water cut-off. Evaporator easily accessible for cleaning purposes. Distillate withdrawal through outlet at the condenser. CO₂ degassing through outlet in the condenser. Cooling water temperature indicated through a thermometer. Heating element, evaporator and condenser made of stainless steel. Outer housing made of electrolytically galvanised sheet steel, electrostatically powder coated with epoxy resin. Cooling water in- and outlet 1/2" (ø approx. 12.7mm). Hoses for water in- and outlet are available as accessory.

Applications: GFL Water Stills are used in research and development e. g. for preparing bacteriological and medical samples, for cell and tissue cultures as well as for the production of reagents and unguents. Moreover, distillate is used for cleaning and sterilisation processes, for buffered solutions as well as microbiological and analytical applications.

Single water stills without storage tank



Water stills

Type	Production (l/h)	Cold water (l/h)	Ext. dim. WxHxD (mm)	Storage tank (l)	Consumption (kW)	Main supply	Weight (Kg)	Pack (u.)	Art. No.
2001/2	2	20	280x490x250	-	2	230 V, 50 to 60 Hz	7,5	1	0000020012
2001/4	4	40	280x490x250	-	3	230 V, 50 to 60 Hz	7,5	1	0000020014

Single distillation water stills with storage tank



Type	Production (l/h)	Cold water (l/h)	Ext. dim. WxHxD (mm)	Storage tank (l)	Consumption (kW)	Main supply	Weight (Kg)	Pack (u.)	Art. No.
2002	2	30	540x420x290	4	1,5	230 V, 50 a 60 Hz	15,4	1	0000002002
2004	4	48	620x460x330	8	3	230 V, 50 a 60 Hz	20,2	1	0000002004
2008	8	72	780x540x410	16	6	400 V/ 3ph/ N/PE/50 a 60 Hz	30,7	1	0000002008
2012	12	198	780x670x410	24	9	400 V/ 3ph/ N/PE/50 a 60 Hz	43	1	0000002012

Double distillers
GFL®

Water Still (fully automatic) for double distillation, suitable for both bench and wall mounting. Electronic level control during the whole distilling process. Electronic impurity detector switches the unit off in case of high degree impurities of the water in the evaporator 1st stage, the red pilot lamp "Clean" will glow. Double-action low water cut-off through float switch and thermostatic safety switch. Water saving through automatic water cut-off. Unnecessary water consumption will be avoided. Condenser (cooler): 1st stage made of stainless steel; 2nd stage including the baffle made of DURAN® Borosilicate glass 3.3. Evaporator easily accessible for cleaning purposes. Distillate withdrawal: valve made of Borosilicate glass 3.3 with "PTFE" plunger for single distillate, outlet with dust guard shield made of Borosilicate glass 3.3 for double distillate. CO₂ degassing through outlet in the condenser. Double-walled housing. Outer housing made of electrolytically galvanised sheet steel, electrostatically powder-coated with epoxy resin. Water supply through a built-in solenoid valve with connection for pressure hose 1/2" (inner ø approx. 12,7mm). Main switch and pilot lamps to monitor both distillation stages are on the front of the unit. Cooling water outlet with hose connection 3/4" (ø approx. 19,0mm). Hoses for water in- and outlet are available as accessory.

Double distillation water stills without storage tank



Type	Production (l/h)	Cold water (l/h)	Ext. dim. WxHxD (mm)	Storage tank (l)	Consumption (kW)	Main supply	Weight (Kg)	Pack (u.)	Art. No.
2102	2	72	500x470x260	–	3,5	230 V, 50 to 60 Hz	18	1	0000002102
2104	4	120	550x570x280	–	6,5	400 V/ 3ph/ N/PE/50 to 60 Hz	23	1	0000002104
2108	8	198	700x700x390	–	11,5	400 V/ 3ph/ N/PE/50 to 60 Hz	39	1	0000002108

For further information, please contact scharlab@scharlab.com

WATER TREATMENT AND STILLS

Scharlau Laboratory Filtration range



The wise choice



Quantitative and qualitative filter papers, extraction thimbles, quartz microfiber and glass microfiber filters, syringe filters, membrane filters for mobile phase and membrane filters for microbiology



SAFETY

Absorbents	1074
Clothing	1075
Fire blankets	1078
Gas detectors	1078
Labels and signals	1079
Personal protective equipment	1081
Safety cabinets	1104
Shelves	1110
Showers and eyewashes	1111
Ventilation and extraction	1112

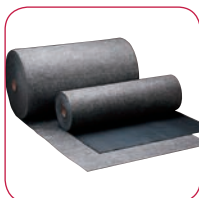


ABSORBENTS
Maintenance sorbents for oils, lubricants, hydraulic liquids and industrial fluids
3M

Designed for absorbing spills and leaks and maintaining passageways and work areas clean.

Maintenance series


Roll very absorbent



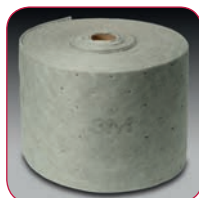
Protective carpet



MM1001. Absorbent sock



MM1002



Protective roll

Model	Dim. WxLength	Package weight	Pack absorption	Pack (u.)	Art. No.
MB2002 maintenance sorbent roll	96cmx46m	13,6Kg	288L	Roll	387-408730
MG1301 maintenance sorbent rugs	91cmx30m	-	-	Roll	387-408649
MM1001. maintenance sorbent miniboom	7,5cmx1,2m	5,5Kg	45L	12	387-408706
MM1003 maintenance sorbent miniboom	40x52cm	6,4Kg	142L	100 sheets	387-408755
3M maintenance absorbent Pads.	18x38cm	3,3Kg	32L	16	387-408714
MM1002 maintenance sorbent miniboom	7,5cmx2,4 m	5,5Kg	45L	6	387-408698
Maintenance sorbent Multi-Format. MF 2001	Several	-	-	3 rolls	004-0E3911
Absorbent roll perfect for absorbing oils, alcohols, esters and silicones	46cmx46m	5,9Kg	117L	Roll	387-408748

Series P chemicals sorbents


P-190



200 sheets



P300



PF 2001

Model	Dimensions	Package weight	Pack absorption	Pack (u.)	Art. No.
P190 chemical sorbent roll	48cmx30m	8,6Kg	72L	Roll	387-057822
Chemical absorbent sheets: acids, bases and hydrocarbons	28x33cm	6,5Kg	44L	200 sheets	004-029201
P300 Absorbent pillow	18x38cm	3,3Kg	32L	16	004-028881
P200 absorbent miniboom	7,5cmx1,2m	5,5Kg	42L	12	004-029301
P130 chemical sorbent rolls	33cmx30m	6,0Kg	50L	2 rolls	387-00P130
PF 2001 chemical sorbent Multi-Format	Several	8,2Kg	119L	3 rolls	387-PF2001

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Oil sorbents for hydrocarbons

3M

Designed for absorbing olefins. Waterproof, they do not disintegrate or sink into water.

T serie, hydrocarbons



T150



T151. Absorbent paper



HP100

Model	Dim. WxLength	Package weight	Pack absorption	Pack (u.)	Art. No.
T150 Roll	48cmx40m	7,5Kg	138L	1 roll	387-078058
T151 sheets	39cmx53cm	8,5Kg	150L	200 sheets	387-078108
T270GA boom	20cmx5m	17Kg	220L	2-socks	387-0T270G
HP156 sheets	43cmx48cm	4,5Kg	142L	100	387-405785

Model	Package weight	Pack (u.)	Art. No.
Exfoliated vermiculite, insoluble universal absorbent	5L	1	VE0200005P
Exfoliated vermiculite, insoluble universal absorbent	25L	1	VE0200025P
Exfoliated vermiculite, insoluble universal absorbent	125L	1	VE0200125P

CLOTHING

- Disposable clothing, *page 1075*
- Workwear, *page 1077*

CLOTHING: Disposable clothing



Coveralls

Breathable PP Overalls with elasticated cuffs and ankles. 40g/m² density. Zip fastener. White colour.

Description	Size	Pack (u.)	Art. No.
Single use hooded coverall	XXL	50	1115-22122

For further information, please contact scharlab@scharlab.com



Disposable caps

Round protection cap for hair made of polypropylene.

Description	Size	Pack (u.)	Art. No.
White protection cap for hair	One	100	0030420-90

Disposable overshoes

100% polypropylene and with elastic.



Description	Size	Pack (u.)	Art. No.
White overshoes	XL	100	0030750-90
Blue overshoes	XL	100	0030350-90



Polypropylene white coat with lapel collar

Standard colour: white, polypropylene of 30g/m², elasticated cuffs, velcro fastening, and lapel collar.

Description	Size	Pack (u.)	Art. No.
No pockets	XL	50	0030452-01
With 2 pockets	XL	100	0030451-01

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Polypropylene white coat with Mao collar

Standard colour: white, made of polypropylene, 35g/m² density, elasticated cuffs, velcro fastening, and Mao collar.

Description	Size	Pack (u.)	Art. No.
No pockets	XL	50	1115-22144

CLOTHING: Workwear

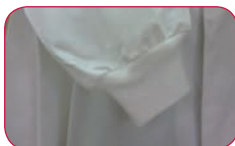


Certified laboratory white coat

Certified protection white coat.
 It is made of 35% cotton, 65% polyester, with a PTFE coating, and has a lapel.
 Unisex model.
 Impermeable to particles, spraying and splashes of limited intensity.
 Complies with norms UNE EN 340.2004, UNE EN 13034.2005 for PB chemical clothes.

With open cuff

Size	Pack (u.)	Art. No.
M	1	00000019-M
L	1	00000019-L
XL	1	00000019-XL



With elastic cuff

Size	Pack (u.)	Art. No.
M	1	00000020-M
L	1	00000020-L
XL	1	00000020-XL



Laboratory white coat

The laboratory coat provides a protection barrier against liquids, biological substances and splashes of weak chemical products.
 It has long-sleeves and is made of 65% polyester and 35% cotton.
 With two lower pockets and one upper pocket, and a lapel.
 It has a belt on the back and closes with buttons.

Lab coat for men

Size	Pack (u.)	Art. No.
46	1	1010070046
48	1	1010070048
50	1	1010070050
52	1	1010070052

Lab coat for ladies

Size	Pack (u.)	Art. No.
42	1	1010090842
44	1	1010090844
46	1	1010090846
48	1	1010090848

FIRE BLANKETS



Blankets for quenching and coating TRIONYX

Protective blankets for quenching the fire source. Suitable for people or goods.

Description	Cabinet dim. HxWxD (mm)	Dim. manta HxW (cm)	Pack (u.)	Art. No.
Fiberglass, with 2 seams for rapid use	360x160x35	180x120	1	331-360180
Fiberglass, with 2 seams for rapid use	285x160x35	120x120	1	331-228120

GAS DETECTORS



Ezsense hand held gas detector HONEYWELL

Ezsense is a small, lightweight, economical gas leak detector which uses a catalytic bead sensor that requires no calibration. It can be used to check gas leaks in pipes, joints, valves and gas storage tanks. It detects natural gas, methane, propane, butane and LPG (liquefied petroleum gas).

Description	Pack (u.)	Art. No.
Gas leak detector in pipes, joints and valves	1	EZSENSE000



GAS ALERT QUATTRO Hand-held Multigas Detector H₂S, CO, O₂, LEL HONEYWELL

For detecting H₂S, CO and O₂% LEL.
Detection of various gases with a single button.
LCD screen with real-time gas concentration display.
The autodiagnostic for all functions checks the sensor, the battery status, circuit integrity and the sound/visual alarms when switched on.
Thin and lightweight, easy to carry.
Waterproof.
Incorporated protective shockproof case.

Gas	Measuring range	Resolution
Hydrogen Sulfide	0-200ppm	0,1ppm
Carbon Monoxide	0-1.000ppm	1ppm
Oxygen	0-30,0%	0,1%
Combustible gases	0-100% LEL 0-5,0% v/V	1% 0,1%

Description	Pack (u.)	Art. No.
Hand-held detector H ₂ S, CO and O ₂	1	00GASALERT

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LABELS AND SIGNALS

- Labels, *page 1079*
- Signals, *page 1080*

LABELS AND SIGNALS: Labels



Danger labels for hazardous goods transport

Labels made of PE for correct identification of hazardous goods with formats conforming to new regulations for each transport mode: road, rail, maritime and air transport.

Description	Dim. HxW (mm)	Pack (u.)	Art. No.
Flammable liquids	100x100	5	0559ETIAD3
Flammable substances	100x100	5	0559ETIAD4
Flammable gases with water	100x100	5	0559ETIA43
Combustible materials	100x100	5	0559ETIAD5
Toxic substances	100x100	5	0559ETIAD6
Corrosive substances	100x100	5	0559ETIAD8
Dangerous merchandise	100x100	5	0559ETIAD9



Labels for classification and labeling of chemical products: globally harmonized system (GHS)

Labels made of PE according to GHS regulations in force, for chemical substances and mixtures.

Description	Dim. HxW (mm)	Pack (u.)	Art. No.
Explosive	26x26	500	169-000EXP
Compressed gases	26x26	500	169-000GAS
Flammable liquids	26x26	500	169-000INF
Skin irritation	26x26	500	169-000IRR
Environment	26x26	500	169-000MAM
Oxidizing	26x26	500	169-000CBR
Skin corrosion or metal	26x26	500	169-000CRR
Toxicity	26x26	500	169-000TXC
Aspiration	26x26	500	169-000ASP

Approved packaging boxes in **BOTTLES AND FLASKS**

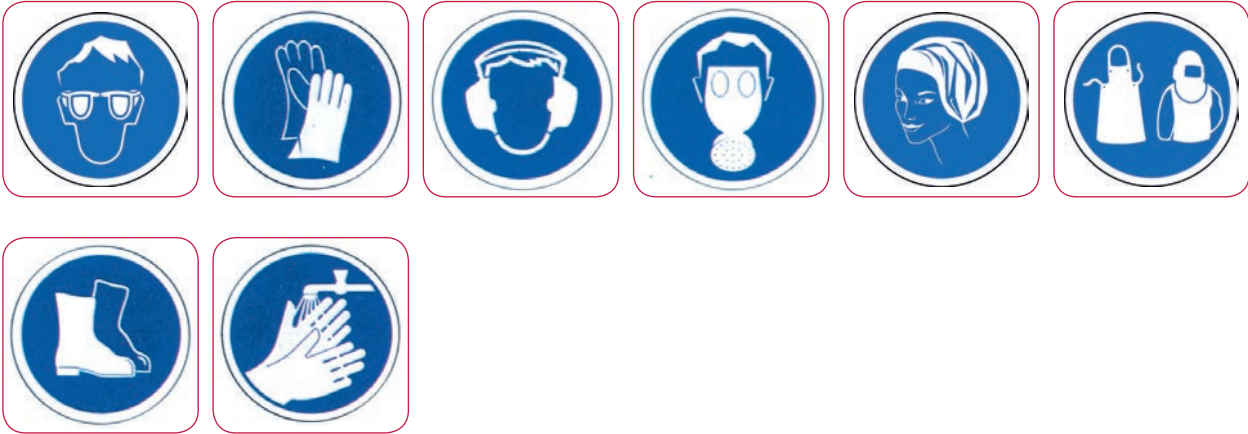


For further information, please contact scharlab@scharlab.com

LABELS AND SIGNALS: Signals

Obligatory signals

Safety signals which oblige a specific behaviour. Made of anodized aluminum, 0,8mm thick, printed by a serigraphy process and oven dried.



Signal	Ø (mm)	Pack (u.)	Art. No.
Mandatory wearing of safety glasses	148	1	200-00UGSS
Mandatory wearing gloves	148	1	200-AUGUSS
Mandatory wearing of hear protection	148	1	200-00UASS
Mandatory wearing mask	148	1	200-00UMSS
Mandatory use of hair cap or hairnet	148	1	200-0UCRSS
Mandatory wearing protective clothing	148	1	200-0URPSS
Mandatory wearing foot protection	148	1	200-00UBSS
Mandatory washing of hands	148	1	200-0ULMSS

Warning signals

Triangular signals which warn of risk or danger. Made of anodized aluminum, 0,8mm thick, printed by a serigraphy process and oven dried.



Signal	Longest side (mm)	Pack (u.)	Art. No.
Warning corrosion risk	148	1	200-00CTSS
Warning explosion risk	148	1	200-00ETSS
Warning fire risk	148	1	200-00ITSS
Warning laser radiation	148	1	200-0RLTSS
Warning non-ionizing radiation	148	1	200-0RNISS
Warning hazard	148	1	200-0MCTSS
Warning toxic produce	148	1	200-0MNISS
Warning biohazard	148	1	200-0RBTSS

PERSONAL PROTECTIVE EQUIPMENT

- Body protection, *page 1081*
- Eye protection, *page 1082*
- Feet protection, *page 1088*
- Hand protection, *page 1090*
- Hearing protection, *page 1096*
- Respiratory protection, *page 1098*

PERSONAL PROTECTIVE EQUIPMENT: Body protection



PVC apron ANSELL

Protection against splashes of medium-high intensity. Resistant to an extensive range of chemicals. High flexibility and resistance against chemical products, grease, oils, punctures and to abrasion, making cleaning easy. Category III. Complies to norms EN 14605.

Colour	Length (mm)	Size	Pack (u.)	Art. No.
Green	1120	One	4	004-0L0731



Classic Plus protective overalls

Overalls made of Tyvek® which is a unique versatile material, resistant and extremely light and soft. Produces low-lint and has antistatic treatment. Impermeable to particles, sprays and light splashes. Made of material permeable to air and water vapor which repels liquids and aerosols, and acts as a barrier to particles and fibers. Elasticated waist, wrists and ankles. With hood. Self-adhesive chin flap. 2-way zip, flap over zipper. Complies with norms EN 340 and EN 465. Category III.

Colour	Size	Pack (u.)	Art. No.
White	L	25	3762105163
White	XL	25	3762105164
White	XXL	25	3762105165



Standard protective overalls

Overalls made of Tychem, hood with elastic material for tight fit with a mask, taped seams, zipper with double flap, elasticated cuffs, ankles and waist. 100% impermeable to particles, resists liquid splashes up to 2 bar pressure, excellent barrier against concentrated inorganic chemicals and biological hazards. Category III, Type 3B/4/5/6. complies with norms EN 340, EN 465, EN 466 and EN 1149.

Colour	Size	Pack (u.)	Art. No.
Yellow	L	25	0012107513
Yellow	XL	25	0012107514
Yellow	XXL	25	0012107515



Cryo aprons

Apron to work at low temperatures, suitable for the manipulation of cryogenic materials. With nylon and polyester lining. Resistant to chemicals. Fastened at the neck and the waist. Category II. Complies with norms EN 388, EN 511 and EN 340.

Length (mm)	Size	Pack (u.)	Art. No.
915	One	1	004-005251
1070	One	1	004-005261



Apron with Sleeves (back closure)

Apron with sleeves (white coat style) made of polyethylene without weave, covered with polymeric material. Can be sterilized with gamma rays. Velcro fastening on the back. Adjustable ties. Elasticated wrist. Offers protection against blood and protection against particles, sprays and splashes of low or high intensity. Category III type 6.

Colour	Size	Pack (u.)	Art. No.
Yellow	One	5	004-0K1791

PERSONAL PROTECTIVE EQUIPMENT: Eye protection

Safety over-spectacles 3M

Light polycarbonate glasses, with lateral and top protection. Can be used alone.



Visitor



Comfort

Model	Version	Goggles mark EN 166	Treatments	Visible light transparency (%)	Pack (u.)	Art. No.
Visitor	Against impact	AOS. 1. F	UV Filter	92	20	387-71448C
Comfort	Filtro UV	2C-1.2 3M, 1FT	Impact protection and adjustable temples	91	20	387-2800CG

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Spectacles 2800 Series
3M

Universal framed glasses, fully adjustable temples both in length and angle. They adapt to respiratory protective equipment.

Series 2800



2840 Comfort



2820 Classic



2822 Classic yellow



2810 Classic

Model	Version	Spectacles mark EN 166	Treatments	Visible light transparency (%)	Pack (u.)	Art. No.
Comfort Colorless	UV Filter	2C-1.2 3M, 1 FT	Anti-scratch and demister	93	2	387-002840
Comfort Yellow	Blue and UV Filter	2-1.2 3M, 1FT	Anti-scratch and demister	93	2	387-002842
Classic colorless	UV Filter	2C-1.2 3M, 1 FT	Anti-scratch and demister	93	2	387-002820
Classic Yellow	Blue and UV Filter	2-1.2 3M, 1FT	Anti-scratch and demister	93	2	387-002822
Classic light	UV Filter	2C-1.2 3M, 1FT	Light, 21g	93	2	387-002810

Safety goggles
3M

Protection and comfort, with spherical goggles.



Serie 2890



Maxim Hybrid

Model	Version	Goggles mark EN 166	Treatments	Visible light transparency (%)	Pack (u.)	Art. No.
Comfort PC, ventilated	UV Filter	2C-1.2 3M, 1 K N BT	Anti-scratch and demister	86	1	387-02890V
Comfort S, sealed	UV Filter	2C-1.2 3M, 1 K N BT	Anti-scratch and demister	86	1	387-2890SA
Modul-R	UV Filter	2C-1.2 AOS, 1 BT	-	92	1+1	387-02890S
Maxim Hybrid	Well visibility, light, protection against flows and impacts	AOS. 1. FT	Anti-scratch, demister and antistatic	92	1	387-133300

For further information, please contact scharlab@scharlab.com

PERSONAL PROTECTIVE EQUIPMENT



VersaFlo screen

Headgear 3M

Superior protection, to protect from dust and sprays.

Series M 100

Model	Version	Goggles mark	Pack (u.)	Art. No.
VersaFlo	Face, eye and ear protection	EN 166	1	387-G500GU

H8 Harness

Model	Version	Goggles mark	Pack (u.)	Art. No.
Peltor WP98	Face protection	EN 166	1	387-H8WP98

Headgear 3M

Superior protection, to protect from dust, noise and impacts or splashes.

Multi System



Model	Version	Goggles mark	Treatments	Visible light transparency (%)	Pack (u.)	Art. No.
Peltor V40	Face protection	EN 166	Demister	+/-90%	1	387-V40401



Safety spectacles (disposable) BOLLÉ

Economic glasses with angle adjustable and extendable temples, safety at a good price.

B Line model

Model	Characteristics	Goggles and frame marks	Treatments	Pack (u.)	Art. No.
BL13CI	Economical protection	2-1.2 1F, EN 166 F CE	Anti-scratch	1	102-00BL13



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Safety spectacles BOLLÉ

High comfort glasses, 180° panoramic view of the highest optical quality. Straight non slip temples and soft nose bridge.

Cobra model


Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
COBCONT	Decreasing UV Filter	2C-1,2  1BT, EN 166 3 FT CE	Anti-scratch and demister	25g	1	102COBCONT
COBHDP	Maximum transparency	2C-1,2  1BT, EN 166 3 FT CE	Hydrophobe, anti-scratch and demister	25g	1	102COBHDP



Safety spectacles BOLLÉ

Sports spectacles. Adjustable angle, non slip temple, soft and adaptable nose bridge. Removes 99,99% of UVA and UVB light. 190nm certificated maximum UV protection.

Axis model


Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
AXPSI	Certificated UV protection and sport	2-1.2  1F, EN 166 F CE	Anti-scratch and demister	25g	1	102-0AXPSI



Safety spectacles BOLLÉ

High comfort adjustable metal-rimmed spectacles. Adaptable bridge. 99,99% UVA and UVB protection

Silium model


Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
SILPSI	Flexible temples	2-1.2  1F, EN 166 F CE	Anti-scratch and demister	34g	1	102-SILPSI

For further information, please contact scharlab@scharlab.com


Safety spectacles
BOLLÉ

The glasses are made of nylon and are extremely light and sporty, they offer comfort, adjustability and safety for all kinds of users.


Contour model

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
CONTPSI	Adjustable nose bridge	2-1.2  , EN 166 F CE	Anti-scratch and demister	21g	1	102-CONTPS


Safety spectacles
BOLLÉ

Is the evolution of the classic Bollé Safety glasses, with improved bridge and temples, a new classic.


Rush model

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
RUSHPSI	Antiskid and transparent	2C-1.2  , EN 166 FT CE	Anti-scratch and demister	25g	1	102-RUSHSI


Safety spectacles
BOLLÉ

A Bollé Safety classic, offering the best protection at the best price.

Bandido model

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
BANCI	Lightweight and enveloping	3-1.2  , EN 166 F CE	Anti-scratch and demister	28g	1	102-000BAN

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Overlight model

Safety over-spectacles

BOLLÉ

Goggles with classical vision, adjustable and modern.

Visiteur model

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
VISPI	For visitors	2-1.2 ¹ FT, EN 166 FT CE	Anti-scratch	39g	1	102-000VIS

Squale model

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
SQUIPSI	Protection and extensible	2C-1.2 ¹ FT, EN 166 FT CE	Anti-scratch and demister	43g	1	102-00SQUA

Overlight model

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
OVERLPSI	Swivel temples	2C-1.2 ¹ F, EN 166 F CE	Anti-scratch and demister	25g	1	102-00OVER



Safety goggles

BOLLÉ

General use panoramic goggles with various versions, best in panoramic.

Blast model

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
BLAPSI	Safety and protection	2-1.2 ¹ B, EN 166 34BT 9 CE	Anti-scratch and demister	113g	1	102-00BLAI



Blast auto-clave model

Safety goggles

BOLLÉ

With panoramic field of view, autoclavable, great durability and comfort.



Model	Characteristics	Goggles and frame marks	Weight	Pack (u.)	Art. No.
BLAST CLAVE	Safety and protection, autoclavable	¹ BT, EN 166 BT CE	103g	1	102-00BLAU
COVACLAVE	Resistant and autoclavable	¹ FT, EN 166 34FT CE	54g	1	102-000646



Safety face shields

BOLLÉ

Ultra-light comfortable face visor

Model	Characteristics	Goggles and frame marks	Treatments	Weight	Pack (u.)	Art. No.
RELRSI	Comprehensive protection, light	2-1.2  2B8N, EN 166 3B8 CE	Anti-scratch	200g	1	102-RELRSI
SPHERPI	Protection, comfort and visual quality	2C-1.2  2BT89, EN 166 3BT89 CE	Anti-scratch	355g	1	102SPHERPI



Cleaning solutions

BOLLÉ

The Bollé Safety range fulfills all requirements, small and big formats, with the Bollé Safety and Colts warranty.

Cleaning

Model	Pack (u.)	Art. No.
100 wipes	1	102-LIB100
Cleaning atomizer 250ml	1	102-LIB411

PERSONAL PROTECTIVE EQUIPMENT: Feet protection



Pisa Correa sandals

DIAN

Sandals with perforated cowhide padded instep, white colour.
Padded to prevent rubbing, light.
Antistatic and non slip system.
Conformity to norms EN-ISO20347 OB+E+SRC.

Number	Pack (u.)	Art. No.
38	Pair	422-PIS038
39	Pair	422-PIS039
40	Pair	422-PIS040
41	Pair	422-PIS041
42	Pair	422-PIS042



Milán shoes

DIAN

Microfiber flat shoe, white colour.
Washable cold and hot up to 40 degrees.
Breathable with large moisture absorption and quick drying.
Complies to norms EN-ISO20347 OB+E+SRC.

Number	Pack (u.)	Art. No.
38	Pair	422-MILA38
39	Pair	422-MILA39
40	Pair	422-MILA40
41	Pair	422-MILA41
42	Pair	422-MILA42



02S white shoes
DIAN

SBS polymer material shoe, monocoque, antistatic and slip resistant. Suitable for machine washing and sterilization up to 140°C for up to 30 minutes. Antistatic. Conforms to norms UNE-EN 61340-4-3:2005.

Number	Pack (u.)	Art. No.
38	Pair	422-02BS38
39	Pair	422-02BS39
40	Pair	422-02BS40
41	Pair	422-02BS41
42	Pair	422-02BS42



Clinic Atmosphere Oxygen shoes
PANTER

Full grain leather shoe with Velcro closure, white colour. Waterproof and breathable sole with the PANTER oxygen system. Keeps the foot dry through ventilation, expelling moisture and preventing the entry of water. The highest comfort and ergonomic sole designed for standing a long time due to its air chamber which prevents muscle overload. Complies with norms EN 345, EN 347 and EN 344.

Number	Pack (u.)	Art. No.
38	Pair	CLINIC0238
39	Pair	CLINIC0239
40	Pair	CLINIC0240
41	Pair	CLINIC0241
42	Pair	CLINIC0242



Zagros shoes
PANTER

Microfiber and breathable shoe, white colour. Hydrogrip single density polyurethane sole, lightweight and flexible. Plastic Safety Toe. Complies with norms EN 345, EN 347 and EN 344. Microlight.

Number	Pack (u.)	Art. No.
38	Pair	ZAGROSS238
39	Pair	ZAGROSS239
40	Pair	ZAGROSS240
41	Pair	ZAGROSS241
42	Pair	ZAGROSS242



Carmen shoes
ROBUSTA

Anatomical shoe made of grain leather for green rooms. Washable up to 24 times with breathable insole. Antistatic and non slip system. According to norms S2+CI+SRC EN ISO 20345:2007.

Number	Pack (u.)	Art. No.
38	Pair	452CARVE38
39	Pair	452CARVE39
40	Pair	452CARVE40
41	Pair	452CARVE41
42	Pair	452CARVE42

For further information, please contact scharlab@scharlab.com

PERSONAL PROTECTIVE EQUIPMENT


Maria lab shoes
ROBUSTA

Anatomical shoe of grain leather for white rooms.
 Washable up to 12 times with breathable insole.
 Antistatic and non slip system.
 According to norms S2+CI+SRC EN ISO 20345:2007.

Number	Pack (u.)	Art. No.
38	Pair	452MARIA38
39	Pair	452MARIA39
40	Pair	452MARIA40
41	Pair	452MARIA41
42	Pair	452MARIA42


Acebo leather shoes
ROBUSTA

Shoe with breathable insole with microcapsules of active oxygen to stimulate circulation.
 Leather, soft grain, perforated laterally for foot breathability.
 Laced closure, blue-gray.
 The extra-wide shape in the forefoot and toecap reduces foot fatigue.
 Conformity to norm EN 345 +S1.

Number	Pack (u.)	Art. No.
38	Pair	452PACEB38
39	Pair	452PACEB39
40	Pair	452PACEB40
41	Pair	452PACEB41
42	Pair	452PACEB42

PERSONAL PROTECTIVE EQUIPMENT: Hand protection

NeoTouch® Green neoprene disposable powder-free gloves
ANSELL

Neoprene single-use gloves
 With a latex-free formulation, NeoTouch® gloves are appropriate for the prevention of Type I allergies.
 For laboratory and analysis use especially when resistance to acids, bases and alcohols is important.
 Category III. Conformity to the norm EN 374. AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	240	100	402-251017
M	240	100	402-251018
L	240	100	402-251019
XL	240	100	4022510110


Conform® White natural rubber disposable gloves
ANSELL

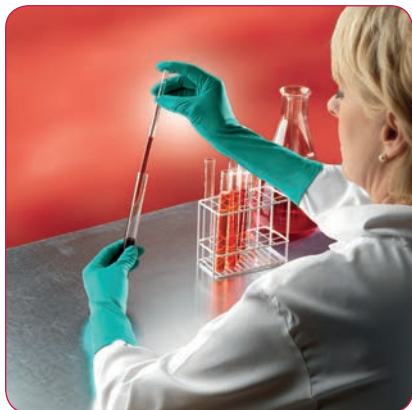
Ambidextrous gloves, powder-free.
 Latex gloves. Cooler than vinyl, with superior finger flexibility and grip.
 Rolled cuffs, tighter fit on the wrist and providing protection against contamination.
 0,12mm wall thickness. Category III. Conformity to the norm EN 374. AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	240	100	402-06915S
M	240	100	402-06915M
L	240	100	402-06915L

Touch N Tuff® Nitrile Disposable powder-free gloves
ANSELL

Touch N Tuff® gloves provide greater protection against an even wider range of industrial chemicals. Manufactured from nitrile, Touch N Tuff® offers high puncture resistance. It contains no natural rubber proteins, which means no risk of Type I allergies for the wearer. No risk from irritation or allergic contact dermatitis. This glove is easy to put on and provides a strong grip in wet or dry conditions. Ambidextrous. Rolled beaded cuffs, tighter fit on the wrist. Category III. Conformity to the norm EN 374. Suitable for food contact and AQL 1,5.

Powder-free, green



Size	Length (mm)	Pack (u.)	Art. No.
S	300	100	004-92605S
M	300	100	004-92605M
L	300	100	004-92605L
XL	300	100	00492605XL

Powder-free, structured fingertips, blue



Size	Length (mm)	Pack (u.)	Art. No.
S	240	100	004-0P4381
M	240	100	004-0P4391
L	240	100	004-0P4401
XL	240	100	004-0P4411



Sol-Vex® Nitrile gloves
ANSELL

The Sol-Vex® nitrile glove is designed to deliver optimal results in wet or dry work environments. High chemical resistance. Fully reusable, with an unequalled abrasion resistance, it provides superb comfort for the wearer. Sol-Vex® nitrile gloves are the ideal choice for safe handling in a wide range of work environments where harsh chemicals are present. Category III. Conformity to the norm EN 374. Suitable for food contact and AQL 1,5.

Size	Length (mm)	Pack (pairs)	Art. No.
S	330	12	402MA6750S
M	330	12	402MA6750M
L	330	12	402MA6750L
XL	330	12	402MA675XL

For further information, please contact scharlab@scharlab.com

PERSONAL PROTECTIVE EQUIPMENT



Neotop® gloves
ANSELL

Neoprene maintains its superb elasticity even at low temperatures. Protects against a wide range of acids, caustics, alcohols and many solvents. Superior flexibility. Contains natural rubber. Much less tiring to the hands than other heavy-duty gloves. Flocklined in pure cotton. Soft, comfortable and absorbant. 0,12mm wall thickness. Category III. Conformity to the norm EN 374. AQL 0,65.

Size	Length (mm)	Pairs	Art. No.
S	300	144	402M950065
M	300	144	402M950075
L	300	144	402M950085
XL	300	144	402M950095



Sol-Vex® PREMIUM Nitrile gloves
ANSELL

The nitrile film, in the Sol-Vex® PREMIUM glove, offers greater strength and superior chemical resistance. Sets new standards for mechanical performance, with unrivalled abrasion resistance and puncture resistance almost twice that of the current leading nitrile glove. 0,425mm wall thickness. Category III. Conformity to the norm EN 374. AQL 0,065.

Size	Length (mm)	Pack (pairs)	Art. No.
S	380	12	402M79000S
M	380	12	402M79000M
L	380	12	402M79000L
XL	380	12	402M7900XL



PowerFlex® cut resistance gloves
ANSELL

The PowerFlex® glove is the practical answer to the safe handling of glass which offers exceptional cut resistance and robust overall mechanical performance, plus superior comfort. The PowerFlex® 80-600 glove is rated at the exceptionally high cut level of EN level 4. This high level of protection is achieved through the Kevlar® knitted liner and the natural rubber coating. This coating also stands up very well to abrasion, tearing and punctures. The latex coating's raised crinkle finish gives the glove an excellent grip in both dry and wet conditions. Silicone-free, the PowerFlex® glove prevents fingerprints on metalized warm insulation glass, leaving surfaces clean and avoiding the need for extra cleaning work. Category III. Conformity to the norms EN 388 and EN 407.

Size	Length (mm)	Pack (u.)	Art. No.
S	245	12	402-80600S
M	245	12	402-80600M
L	245	12	402-80600L
XL	245	12	402-8060XL

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**Blue Nitrile Disposable Xtra lite powder-free gloves
SEMPERGUARD®**

Resistant to chemicals, acids and non ketone solvents.
Larger pack, less packaging waste.
Ambidextrous, with rolled cuffs, impermeable.
Free from allergenic latex proteins
0,07mm wall thickness. Category III. Conformity to the norms EN 374 and EN 455. Suitable for food contact and AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	240	200	266SP0060S
M	240	200	266SP0060M
L	240	200	266SP0060L
XL	240	180	266SP006XL



**Confort Blue Nitrile Disposable powder-free gloves
SEMPERGUARD®**

CE category III protective glove for complex risks
Soft glove with excellent chemical resistance to skin irritants.
High elasticity similar to latex products to guarantee comfort.
Protection against chemical splashing including the processing of fatty foods.
Free from phthalates/softeners and allergenic latex proteins.
Category III. Conformity to the norms EN 374 and EN 455. Suitable for food contact and AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	240	100	266SP6080S
M	240	100	266SP6080M
L	240	100	266SP6080L
XL	240	90	266SP608XL



**XPERT Blue Nitrile Disposable powder-free gloves
SEMPERGUARD®**

Resistant to chemicals, acids and non ketone solvents.
Ambidextrous. Impermeable. Powder-free to avoid allergies.
Category III. Conformity to the norms EN 374. Suitable for food contact and AQL 1,5.

Size	Pack (u.)	Art. No.
S	100	2666080SPS
M	100	2666080SPM
L	100	2666080SPL
XL	90	2666080SXL

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PERSONAL PROTECTIVE EQUIPMENT



Xenon White Nitrile Disposable powder-free gloves
SEMPERGUARD®

Replaces latex, thinner than usual nitrile gloves.
Sensitive touch similar to latex gloves.
Resistant to chemicals.
Ambidextrous. Impermeable. Free from allergy risks.
0,08mm wall thickness. Category I. Conformity to the norms EN 374, EN 420 and EN 455. Suitable for food contact and AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	240	200	266SP6X80S
M	240	200	266SP6X80M
L	240	200	266SP6X80L
XL	240	180	266SP6X8XL



Xtension Blue Nitrile Disposable powder-free gloves
SEMPERGUARD®

Resistant to chemicals, acids and non ketone solvents.
Ambidextrous. Impermeable. Powder-free to avoid allergies.
0,10mm wall thickness. Category III. Conformity to the norms EN 374 and EN 455. Suitable for food contact and AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	290	100	266SPXT60S
M	290	100	266SPXT60M
L	290	100	266SPXT60L
XL	290	90	266SPXT6XL



White latex disposable powdered gloves
SEMPERGUARD®

Natural Rubber Latex, provides maximum comfort, elasticity and dexterity.
Impervious to water, alcohols and detergents.
Ambidextrous.
0,1mm wall thickness. Category III. Conformity to the norm EN 374. Suitable for food contact and AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	240	100	266-60100S
M	240	100	266-60100M
L	240	100	266-60100L
XL	240	90	266-6010XL

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White latex disposable powder-free gloves SEMPERGUARD®

Ambidextrous.
0,1mm wall thickness. Category III. Conformity to the norm EN 374. Suitable for food contact and AQL 1,5.

Size	Length (mm)	Pack (u.)	Art. No.
S	240	100	266SP6020S
M	240	100	266SP6020M
L	240	100	266SP6020L



PVC gloves

PVC gloves with a double layer of cotton backing.
Offers protection against acids, phenol, oils and hydrocarbons.
Thickness of 1mm. Red colour.
1mm wall thickness. Conformity to the norms EN 374 and EN 388.

Size	Length (mm)	Pack (u.)	Art. No.
One	270	12	423-012227
One	400	12	423-012240



Kevlar gloves

Five finger Kevlar gloves, flame-resistant liner. Are appropriate for temperatures between 250°C and 300°C.
High protection against cuts and punctures.
Conformity to the norms EN 420, EN 388 and EN 407.

Size	Pack (u.)	Art. No.
One	1	423-000292



CRYO hardiness gloves

Long gloves for protection against cold environments. CRYO model.
For working in extreme temperatures from -190°C to +150°C.
Suitable for handling cryogenic materials.
Effective against chemical products and moisture.
Category II. Conformity to the norms EN 388 and EN 511.

Size	Length (mm)	Pack (pairs)	Art. No.
S	400	1	004-009261
M	400	1	004-009271
L	400	1	004-009281
XL	400	1	004-009291

For further information, please contact scharlab@scharlab.com

PERSONAL PROTECTIVE EQUIPMENT: Hearing protection


Insert

Earplugs
3M

Simple hearing protection. The attenuation range (System Noise Reduction) gives a guide regarding the degree of protection. No roll down is required, a gentle push is all it takes for easy, consistent insertion.

Disposable earplugs


Ear Soft 21. Single use



1100 simple



1110 corded



Classic Soft

Model	Version	SNR value (%)	Pack (u.)	Art. No.
EAR Soft 21	Uncorded	21	250 pairs	387-A01009
1100	Uncorded	37	200 pairs	387-A01100
1110	Corded	37	100 pairs	387-A01110
Ear Soft Yellow	Uncorded	36	50 pairs	387-A001SP
Classic	Corded	29	200 pairs	387-A01005

Inserts

Model	Version	SNR value (%)	Pack (u.)	Art. No.
Express insert	Uncorded	28	50	387-A002SP

Reusable earplugs


Reusable: 1271 with storage case



Ultrafit

Model	Version	SNR value (%)	Pack (u.)	Art. No.
1271 with storage case	Corded	25	50	387-A01271
Ultrafit	Corded	20	50	387-AUF20P

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Earmuffs
3M

High level of hearing protection, without blocking the lower sounds.

Standard earmuffs



H4A



H510A



X4A

Model	Version	SNR value (%)	Pack (u.)	Art. No.
H4A	Ear defenders with headband	24	2	387-AH4A30
H510A	Optime I ear defenders with headband	27	2	387-AH510A
X4A	Peltor X earmuff	33	2	387-A00X4A

Communicative earmuffs



P. Optime



Model	Version	SNR value (%)	Pack (u.)	Art. No.
Peltor Optime	"Push to listen"	31	2	387-AMT155
Peltor Bluetooth	"Push to listen"	31	1	387-AMT53H
Peltor Alert	Mobile radio signal (requires appropriate flex cord to connect your mobile)	32	1	387-AM2RX7

For further information, please contact scharlab@scharlab.com

PERSONAL PROTECTIVE EQUIPMENT

PERSONAL PROTECTIVE EQUIPMENT: Respiratory protection

Particulate respirators

3M

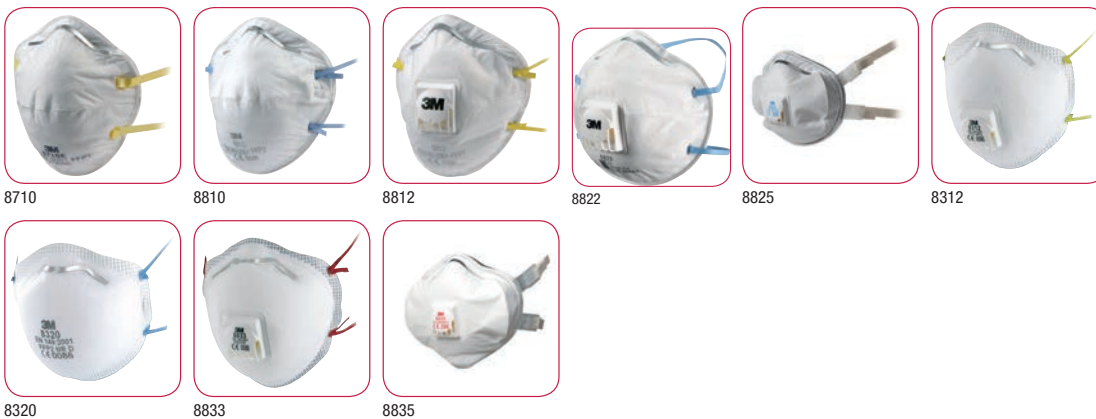
Protection against non volatile solid and liquid particles. Protection level according to norm EN 149.

Folded

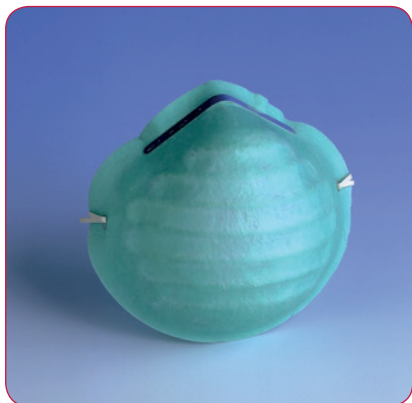


Model	EN 149 Classification	Maximum level of usage nxVLA	Filter type	Pack (u.)	Art. No.
Classic K101	FFP1 NR D	4 x	P1	20	387-00K101
Classic K112	FFP2 D	12 x	P2	10	387-00K112
Comfort 9310	FFP1 NR D	4 x	P1	20	004-0N1861
Comfort 9312	FFP1 NR D	4 x	P1	10	004-0N1881
Comfort 9320	FFP2 NR D	12 x	P2	20	004-0N1871
Comfort 9322	FFP2 NR D	12 x	P2	10	004-0N1891
Comfort 9332	FFP3 NR D	50 x	P3	10	004-0N1901
Special 9906	FFP1 NR D	12 x	P1	20	387-843639
Special 9913	FFP1 NR D	4 x	P1	20	004-009361
Special 9914	FFP1 NR D	4 x	P1	10	387-009914

Molded serie 8000



Model	EN 149 Classification	Maximum level of usage nxVLA	Filter type	Pack (u.)	Art. No.
Classic 8710	FFP1 NR D	4 X	P1	20	004-002651
Classic 8810	FFP2 NR D	12 x	P2	20	004-0L1591
Classic 8812	FFP1 NR D	4 x	P1	10	004-0C8101
Classic 8822	FFP2 NR D	12 x	P2	10	004-0C8111
Classic 8825	FFP2 RD	12 X	P2	5	004-002661
Comfort 8310	FFP1 NR D	4 x	P1	10	387-048310
Comfort 8312	FFP1 NR D	4 x	P1	10	387-048312
Comfort 8320	FFP2 NR D	12 x	P2	10	387-128320
Premium 8825	FFP2 D	12 x	P2	5	387-128825
Comfort 8833	FFP3 R D	50 x	P3	10	387-508833
Premium 8835	FFP3 R D	50 x	P3	5	004-081231



Hygienic mask
3M

Model	Pack (u.)	Art. No.
Hygiene Mask 600. Not PPE.	50	387-000600



Single use mask
Cup-shape hygienic masks made of polypropylene.

Description	Size	Pack (u.)	Art. No.
White mask. Not PPE.	One	50	1115-22039

PERSONAL PROTECTIVE EQUIPMENT

3M Personal Safety Division
New 3M™ Reusable Half Mask 6500 Series

Introducing
New 6500 Series Half Mask



- QL Mechanism**
- Easy on and off as you move in and out of contaminated areas
 - No need to remove your safety helmet or face shield when lowering or raising your respirator



Rugged
comfortable,
with wide field of view

Productos de Protección Personal

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Tel: 91 321 62 81
Fax: 91 321 63 05
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Reusable respirators

3M

Protection, safety and comfort against particles and contaminating gases.
Filters integrated in the mask.

Series 4000, reusable, half mask



Mask 4251



Mask 4255

Model	EN 149 Classification	Maximum level of usage nxVLA	Filter type	Pack (u.)	Art. No.
Half mask 4251	FFA1P2 R D	EN 405.2001	A1:2009	1	004-097501
Half mask 4277	FFABE1P3D	EN 405.2001	A1:2009	1	004-0C2721
Half mask 4255	FFA2P3D	EN 405.2001	A1:2009	1	004-0E3471
Half mask 4279	FFABEK1P3D	EN 405.2001	A1:2009	1	004-0L1621

Series 6000



6100 Half Mask



6200 Half Mask



6800 Complete Mask



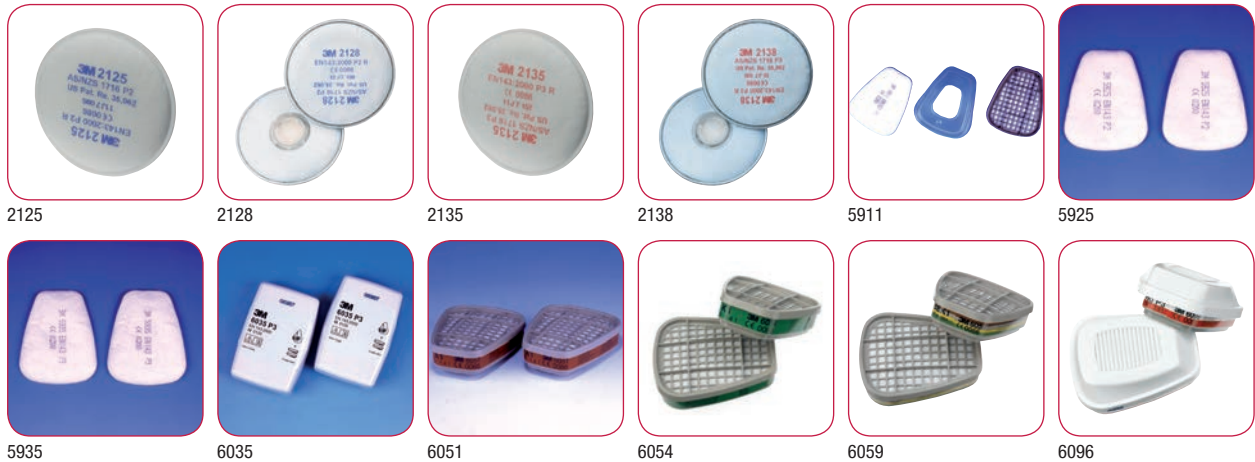
Model	Filter type	Pack (u.)	Art. No.
Half Mask 6100 small size	A1, A2, K1, ABE1, ABEK1	1	004-0L1671
Half Mask 6200 medium size	A1, A2, K1, ABE1, ABEK1	1	004-0L1681
Half Mask 6300 large size	A1, A2, K1, ABE1, ABEK1	1	004-0L1691
Complete Mask 6700 small	All bayonet filters	1	004-0N1681
Complete Mask 6800 medium	All bayonet filters	1	004-0N1691
Complete Mask 6900 large	All bayonet filters	1	004-0N1701
Half Mask 7501small size	All bayonet filters	1	387-0N1800
Half Mask 7502 medium size	All bayonet filters	1	004-0N1801
Half Mask 7503 large size	All bayonet filters	1	004-0N1811
Complete Mask 7907S	All bayonet filters	1	004-0N1821

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Filters for masks

3M

3M masks are characterized by the fact that they can be taken apart and that there are replacements for all parts, not just the replacement filters.



Model	EN 149 Classification	Application	Filter type	Pack (u.)	Art. No.
FFP 2125	P2R	-	P2	20	004-0L1771
FFP 2128	P2R, VAPORS AND OZONE	-	P2	20	004-0L1781
FFP 2135	P3R	-	P3	20	004-0L1791
FFP 2138	P3R, VAPORS AND OZONE	-	P3	20	004-0L1801
Additional filter 5911	P1R (requires holder filter 004-0L1811)	-	P1	30	004-0L1751
Additional filter 5925	P2R (requires holder filter 004-0L1811)	-	P2	20	004-0L1761
Additional filter 5935	P3R (requires holder filter 004-0L1811)	-	P3	20	004-0N1741
FFP 603 (encapsulated)	P3R	-	P3	20	387-006035
Filter for gases, vapors and particules type 6051	-	Organic vapours (b.pt > 65°C)	A1	8	004-0L1701
Filter for gases, vapors and particules type 6054	-	Ammonia & derivatives	K1	8	004-0L1711
Filter for gases, vapors and particules type 6055	-	Organic vapours (b.pt > 65°C)	A2	8	004-0L1721
Filter for gases, vapors and particules type 6057	-	Combination organic Vapours (b.pt. > 65°C) inorganic & acid gases	ABE1	8	004-0L1731
Filter for gases, vapors and particules type 6059	-	Combination organic Vapours (b.pt. > 65°C) inorganic & acid gases & ammonia	ABEK1	8	004-0N1711
Filter for gases, vapors and particules type 6075	-	Combination organic Vapours (b.pt. > 65°C) & Formaldehyde	A1+formaldehyde	20	004-0L1741
Filter for gases, vapors and particules type 6096	-	Organic Vapours (b.pt. > 65°C) Mercury vapour, Chlorine & Particulates	A1+Hg+P3R	4	387-843795
Filter for gases, vapors and particules type 6098	-	Organic Vapours (b.pt. < 65°C) & Particulates	AXP3NR	4	004-0N1731
Filter for gases, vapors and particules type 6099	-	Organic Vapours (b.pt. > 65°C) inorganic Gases, Acid Gases, Ammonia & Particulates	ABEK2P3R	4	004-0N1721
Holder S01				2	004-0L1811

For further information, please contact scharlab@scharlab.com



**Full Face Respirator
BARIKOS**

Black rubber mixture, approved according to EN 136 class 3 and CE-marked, with diaphragm, heat-resistant polycarbonate visor and standard thread connector according to EN 148-1

Mask BRK 820

Type	Pack (u.)	Art. No.
Full face mask BRK 820 with heat resistant visor. Ask for your filters	1	004-012621



**Half Mask
BARIKOS**

Approved acc. EN 140 with quick adjustable rubber harness, 2 exhalation valves and standard thread connector acc. EN 148-1.

Half mask 620 S

Type	Pack (u.)	Art. No.
Half silicone mask, model 620 S	1	004-097991

Half mask 620 N

Type	Pack (u.)	Art. No.
Half rubber mask, model 620 N	1	004-019391

Cleaning in **CONSUMABLES**



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Respirator Filters, Screw-Type BARIKOS

For all masks and half masks with holder. The filters carry the CE-mark. With screw-locks complies with EN 148-1.

Type A: gases from organic compounds with boiling points > 65°C

Type B: inorganic gases and vapors, e.g. chlorine, hydrogen sulfide

Type E: sulfur dioxide

Type K: ammonia

Class P2: particles from harmful substances

Class P3: particles from toxic substances

Type AX: gases from organic compounds with boiling points < 65°C

Type	Protection class	Pack (u.)	Art. No.
Filter for gases and organic vapors p.e.>65°	A2	1	004-012701
Multifilters for gases 67 ABEK for BRK	A2 - B2 - E2 - K1	1	092-920650
Screw combined filters K for BRK	A2 - B2 - E2 - K2 - P3 RD	1	004-006351
Screw combined filters A for BRK	A2 - P2 RD	1	004-012721
Screw filters for gases and organic vapors p.e.>65° and acid gases	A2-B2	1	092-920605
Screw filters for gases and organic vapors p.e.>65° and inorganic, acids or ammonia	A2-B2-E2-K1	1	092-920650
Screw combined filters A2B2E2K1-P2	A2-B2-E2-K1-P2	1	004-924350
Complete filters: organic and inorganic gases, acid, ammonia, mercury and toxic particules	A2-B2-E2-K2-Hg-P3	1	092-924703
Screw filters for gases and organic vapors p.e.>65°, inorganic gases and particles	A2-B2-P3	1	092-924406
Screw filters for gases and organic vapors p.e.>65° and toxic particles	A2-P3	1	004-0A2491
Screw filters for gases and organic vapors p.e.<65°	AX	1	004-015501
Screw filters for gases and organic vapors p.e.>65° and toxic particles	AX-P3	1	004-924702
Screw filters for inorganic gases	B2	1	004-012711
Screw combined filters B for BRK	B2 - P2 RD	1	004-012821
Screw filters for inorganic gases and toxic particles	B2-P3	1	004-000291
Screw filters for acid gases	E2	1	004-012771
Screw filters for mercury vapors and toxic particules	Hg-P3	1	004-012741
Screw filters for ammonia	K2	1	004-012751
Screw filters for nitrous gases and particles	NO-P3	1	004-012241
Screw in filters for fumes and toxic dust	P2	1	004-012861
Screw filters for toxic particles	P3	1	004-012251

Safety barrels in CONSUMABLES



For further information, please contact scharlab@scharlab.com

SAFETY CABINETS


Model 794 M3

Multirisk safety cabinets for flammable and explosive products, EN 14470-1 TRIONYX

The same cabinets as the anti-flammable range, especially compartmentalized and ready to store acids, toxic products and bases with flammable products (1363-1 norm). This range conforms to 90 minutes fire resistance standards. Double-walled isolated versions are available, with resistances of 60, 30 and 15 minutes.

Check product accessories in: Safety cabinets for flammable products, european norm.



Model 795M22 + CDFP

COMPREHENSIVE: Robust cabinets approved and tested for 105 minutes. Thermo-fuse automatically seals off the ventilation system and doors. Heat expandable door seal. To avoid concentrations of dangerous vapours it is necessary to connect the cabinet to a forced ventilation system with recirculation or extraction filters.

Model	Cabinet construction	Net cap. (l)	Equipment	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
792 M11	Medium. 2 doors, 2 compartments	28 + 28	2 shelves + 2 base trough	670x1135x615	248	1	178-M15792
793 M11	Medium. 2 doors, 2 compartments	55 + 55	2 shelves + 2 base trough + 2 perforated cover plate	1080x1135x615	347	1	178-M15793
793 M12	Medium. 2 doors, 3 compartments	55 + 28 + 28	1 shelves + 3 base trough + 3 perforated cover plate	1880x635x615	355	1	178-M25793
794 M2	Upper. 1 door, 2 compartments	55 + 55	2 shelves + 2 base trough + 2 perforated cover plate	1880x635x615	336	1	178-M25794
794 M3	Upper. 1 door, 3 compartments	30 + 30 + 30	3 shelves + 3 base trough	1880x635x615	338	1	178-M35794
794 M4	Upper. 1 door, 4 compartments	22 + 22 + 22 + 22	4 base trough + 4 perforated cover plate	1880x635x615	352	1	178-M45794
795 M11	Upper. 2 doors, 2 compartments	120 + 120	6 shelves + 2 base trough	1880x1135x615	464	1	178-M15795
795 M12	Upper. 2 doors, 3 compartments	120 + 55 + 55	5 shelves + 3 base trough + 2 perforated cover plate	1880x1135x615	476	1	178-M25795
795 M13	Upper. 2 doors, 4 compartments	120 + 28 + 28 + 28	6 shelves + 4 base trough	1880x1135x615	478	1	178-M35795
795 M22	Upper. 2 doors, 4 compartments	55 + 55 + 55 + 55	4 shelves + 4 base trough + 4 perforated cover plate	1880x1135x615	488	1	178-M45795
795 M22 + CDFP. SECUMAX	Upper. 2 doors and 4 base trough, extraction and filtration unit with activated carbon	4x55	4 shelves + 4 base trough + 4 perforated cover plate	1880x1135x615	488	1	178-COM795

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Multirisk safety cabinets for hazardous products TRIONYX

For storage of flammable, corrosive, toxic or irritating products in a cabinet. Pictograms included. Construction made of epoxy coated steel with vent openings. Optional solid door.

Series 14 M

Cabinet construction	Net cap. (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Upper, glass door, 2 compartments of 3 shelves	2x130	1825x1100x500	115	1	178-ASVM11
Upper, glass door, 4 compartments of 2 shelves	5x55	1825x1100x500	120	1	178-ASVM22

PVC safety cabinets for corrosives TRIONYX

Sturdy construction, built entirely in white melamine and PVC protection with a retention tank and vent openings. Optional forced air extraction with or without filter (see accessories on page 1165). With sliding drawers.



Series 8-B

Cabinet construction	Net cap. (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
2 compartments and 2 drawers	68	670x635x615	35	1	178-OAPC32
2 compartments and 4 drawers	96	670x1135x615	60	1	178-OAPC62
4 compartments and 6 drawers	150	1850x635x615	87	1	178-OAPC92
2 compartments and 6 drawers	144	900x1135x615	80	1	178-APC112
2 compartments and 6 drawers	192	1850x1135x615	124	1	178-APC222

For further information, please contact scharlab@scharlab.com

Safety cabinets for pesticides

TRIONYX

Especially designed for pesticides and other agricultural chemical products. Epoxy coated steel construction with lock. Cabinet bottom with retention tank.

Series 16



Cabinet construction	Net cap. (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Upper, 1 door, 3 shelves and cuvette	150	1950x500x500	55	1	178-OAC150
Upper, 2 doors, 3 shelves and cuvette	300	1950x930x500	90	1	178-OAC300
Upper, 2 doors, 3 shelves and cuvette disassembled	200	1830x940x460	65	1	178-APK300

Safety cabinets for flammable products, EU standard

TRIONYX

The 7-XX series of safety cabinets conforms to the 90, 60, 30 and 15 minutes fire resistance standards, according to EN14470-1 norm. They option of forced air ventilation and filtration is available for the entire range.



→ Continued on the next page

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105' resistance, 90 LAB NORM: Double wall construction made of steel and thermal insulation, thermo-fuse automatically seals off the ventilation system and doors and thermo-sensitive door seal.

NOTE: Consult our range of special width 900mm, with double door and three heights. Available also in red and yellow colours.

Model	Cabinet construction	Net cap. (l)	Equipment	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
791E	Under. 1 door	30	1 shelves + 1 base trough	670x635x615	158	1	178-005791
792E	Under. 2 doors	60	1 shelves + 1 base trough	670x1135x615	246	1	178-005792
793E	Medium. 2 doors	115	2 shelves + 1 base trough	1080x1135x615	342	1	178-005793
794E	Upper. 1 door	130	3 shelves + 1 base trough	1880x635x615	324	1	178-005794
795E	Upper. 2 doors	250	3 shelves + 1 base trough	1880x1135x615	458	1	178-005795

Complements

Cabinet construction	Dim. HxWxD (cm)	Weight (Kg)	Pack (u.)	Art. No.
Shelves for models 791, 794, 792 Mx, 793 Mx, 794 Mx and 795 Mx	30x490x410	3	1	178-0790E1
Shelves for models 792, 793 and 795	30x1000x410	6	1	178-0790E2
Retention cuvettes for 791, 794, 792 Mx, 793 Mx, 794 Mx and 795 Mx	100x490x410	5	1	178-59714B
Retention cuvettes for 792, 793 and 795	100x1000x410	10	1	178-59723B
Base trough for 791, 794, 792 Mx, 793 Mx, 794 Mx and 795 Mx	90x480x400	4	1	178-59714C
Base trough for 792, 793 and 795	90x990x400	8	1	178-59723C
Drawer for 791, 794, 792 Mx, 793 Mx, 794 Mx and 795 Mx	80x420x380	6	1	178-59714C
Drawer for 792, 793 and 795	80x930x380	12	1	178-00079C
PVC protection for E79148 (for E79235 Shelf, with 2 guards)	30x485x405	2	1	178-5971SE
PVC protection for B79148 (for B79235, with 2 guards)	100x485x405	3	1	178-5971SB

60' LABORATORY RESISTANCE: Double wall construction made of steel and thermal insulating, thermo-fuse automatically seals off the ventilation system and thermo-expanding seals of the doors.



Model	Cabinet construction	Net cap. (l)	Equipment	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
761E	Under. 1 door	30	1 shelves + 1 base trough	670x635x615	153	1	178-LA5761
762E	Under. 2 doors	60	1 shelves + 1 base trough	670x1135x615	236	1	178-LA5762
763E	Medium. 2 doors	115	2 shelves + 1 base trough	1080x1135x615	332	1	178-LA5763
764E	Upper. 1 door	130	3 shelves + 1 base trough	1880x635x615	319	1	178-LA5674
765E	Upper. 2 doors	250	3 shelves + 1 base trough	1880x1135x615	448	1	178-LA5675

→ Continued on the next page

30' LABORATORY RESISTANCE: HPL thermal insulation. Thermo-fuse automatically seals off the ventilation system and doors, thermo-sensitive door seal.



Model 7032E

Model	Cabinet construction	Net cap. (l)	Equipment	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
7031E	Under. 1 doors	25	1 base trough + 1 perforated cover plate	635x605x550	63	1	178-LB5731
7032E	Under. 2 doors	50	1 base trough + 1 perforated cover plate	635x1110x550	102	1	178-LB5732
7033E	Medium. 2 doors	115	2 shelves + 1 base trough	1300x1135x615	194	1	178-LB5733
7034E	Upper. 1 door	150	3 shelves + 1 base trough	1980x605x550	150	1	178-LB5764
7035E	Upper. 2 doors	250	3 shelves + 1 base trough	1980x1110x550	230	1	178-LB5765

15' LABORATORY RESISTANCE: Double wall construction made of steel/MPL and thermal insulation, thermo-fuse automatically seals off the ventilation system and doors, thermo-sensitive door seal.

Model	Cabinet construction	Net cap. (l)	Equipment	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
7011E	Under. 1 door	25	1 base trough + 1 perforated cover plate	635x605x550	58	1	178-LC5711
7012E	Under. 2 doors	50	1 base trough + 1 perforated cover plate	635x1110x550	92	1	178-LC5712
7013E	Medium. 2 doors	115	2 shelves + 1 base trough	1300x1135x615	184	1	178-LC5713
7014E	Upper. 1 door	150	3 shelves + 1 base trough	1980x605x550	145	1	178-LC5714
7015E	Upper. 2 doors	250	3 shelves + 1 base trough	1980x1110x550	220	1	178-LC5715



Safety cabinets for flammables NFPA / OSHA / FM standards TRIONYX

Safety cabinet range conforming to US standards, less stringent than the European norms.

WITHOUT FIRE EXTINGUISHER: Double wall, cavity construction, made of steel. Manual or optional automated door closure.

Cabinet construction	Net cap. (l)	Dim. HxWxD (mm)	Pack (u.)	Art. No.
Medium, 2 doors	113	1120x1090x460	1	178-00MB30
Upper, 2 doors	170	1650x1090x460	1	178-00MC45
Upper, 2 doors	228	1650x860x860	1	178-00MC60

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Filtering ventilation secure cabinets
TRIONYX

Autonomous equipment, with extraction and filtration using activated charcoal. No modification of the structure required. Optional glazed doors. Separate motor.

Series 14 X

Cabinet construction	Net cap. (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Steel and epoxy paint. Active and current filter indicator. 1 door, 3 shelves	150	2135x560x500	75	1	178-AFP1P3
Steel and epoxy paint. Active and current filter indicator. 2 doors, 6 shelves	2x140	2135x1100x500	120	1	178-AFP2P6

FM safety cabinets for corrosives
TRIONYX

Sturdy construction, double wall steel with insulating air space, continuous piano hinge, retention tank, ground anchor points and flame retardant high and low vent with grid. Optional forced air extraction with or without filter. See other sizes and accessories. Conforms to NFPA and OSHA norms. Manual (M) or self-closing (S) doors.



Series 4

Cabinet construction	Net cap. (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Upper. 1 door, 3 shelves and cuvette	86	1650x585x460	90	1	178-00B22M
Upper. 2 doors, 1 shelf and cuvette	113	1120x1090x460	105	1	178-00B30M
Upper. 2 doors, 1 shelf and cuvette	113	1120x1090x460	108	1	178-00B30S
Upper. 1 door, 3 shelves and cuvette	86	1650x585x460	92	1	178-00B22S
Upper. 2 door, 1 shelf and cuvette	228	1650x860x860	170	1	178-00B60M
Upper. 2 door, 1 shelf and cuvette	228	1650x860x860	173	1	178-00B60S

Safety cabinets for hazardous
TRIONYX

Suitable for storage rooms. Epoxy coated steel construction. Passive vent openings.

Series 14 E


Cabinet construction	Net cap. (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Counter with 2 doors and lock, 2 levels	155	1000x930x500	43	1	178-AZ1100
Upper, 1 door, 4 levels	150	1950x500x500	55	1	178-AZ1500
Upper, 2 doors, 4 levels	300	1950x930x500	90	1	178-AZ3000

SHELVES

RRA steel safety shelving
TRIONYX

Steel shelves for toxic, hazardous products... Shelves with a 50mm metallic sliding drawer.

NOTE: References 178-0XXXXX have 4 shelves and the remaining have 5 shelves.



Material	Capacity (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Steel. Isolated shelf	180	2000x1030x400	50	1	178-400RRA
Steel. First module in a series	144	2000x1030x400	45	1	178-040RRA
Steel. Following modules	144	2000x1030x400	43	1	178-044RRA
Steel. Isolated shelf	270	2000x1030x600	75	1	178-600RRA
Steel. First module in a series	216	2000x1030x600	65	1	178-060RRA
Steel. Following modules	216	2000x1030x600	63	1	178-066RRA

RRP polyethylene safety shelving TRIONYX

Shelves made of HDPE for corrosive products. Shelves with a 30mm sliding drawer made of PVC.



Material	Capacity (l)	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
HDPE. Unmounted	120	1880x910x450	35	1	178-000RRP

SHOWERS AND EYEWASHES



Eye wash bottles

Eye wash bottles BARIKOS

Bottle for eye wash as first aid in case of chemical burns.
On pressing the bottle, the eye is washed by plenty of gamma sterilized water.

Description	Pack (u.)	Art. No.
Eye wash bottles, approximate capacity of 620ml	1	004-015431
Eye wash bottles, approximate capacity of 175ml	1	004-0K1281
Bottle eyewash wall bracket	1	004-055461

For further information, please contact scharlab@scharlab.com

Emergency showers and eyewashes

CARLOS ARBOLES

Emergency showers and eyewashes provide water instantly as a first aid for the protection of people exposed to: fire, acids, reagents, radioactive materials and other contaminants in order to avoid serious or irreversible damage.

Emergency showerheads have a large diameter (250mm), ABS construction, anticorrosive plastic, yellow in colour with high visibility.

Eyewashes provide a good flow of aerated water at low pressure for washing both eyes and face. They do not get clogged by dust or lime due to the large sized holes and a circular water curtain.

Eyewashes include an automatic opening anti-dust cover upon use.



226-002220



226-002210



226-003130



226-001110



226-004220



226-004285

Description	Pack (u.)	Art. No.
Floor mounted, on pedestal, with eyewash bowl in plastic ABS	1	226-002220
Wall mounted with eyewash bowl in plastic ABS	1	226-002210
Table mounted. Have flexible hose to make easy spraying	1	226-003130
Floor mounted, with two push handle, ABS shower head/bowl	1	226-004220
Wall mounted, two push handle, pull rod, with shower head en plastic ABS	1	226-004285
Wall mounted, horizontal with shower head in plastic ABS	1	226-001110

VENTILATION AND EXTRACTION

Manual pump and reactive tubes

LABOPUR®

Simple system to detect the presence of organic or corrosive vapours.

Vapours control



Description	Pack (u.)	Art. No.
Handpump	1	178-00PMAF
Box of 10 reactive tubs to control organic vapours	1	178-00TROR
Box of 10 reactive tubs to control corrosive vapours	1	178-00TRAC
Box of 10 reactive tubs (5 organic + 5 corrosive)	1	178-00TLOA

Visit our new web www.scharlab.com

Recycling air box LABOPUR®

Epoxy coated steel drawer, with activated charcoal filter and quiet motor. Access to verify efficiency and count the number of working hours.



AF 10



H 50

Description	Flow	Protection	Includes	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Recycling air box	86m ³ /h	CE	Polyvalent active coal filter, filteralarm and connecting kit	310x460x460	15	1	178-H50KIT

Ventilation and extraction LABOPUR®

In order to increase the safety and protection of people against toxic, aggressive or harmful vapours, the independent extraction and ventilation units can be installed in rooms, gas cabinets and also, all cabinets that can be equipped with forced air ventilation and filtration systems. The cabinet must be prepared at the factory. Consult our subchapter on safety cabinets for flammable and chemical products.

Extractors



178-00KITA



331-00CDFP

Description	Flow	Protection	Includes	Dim. HxWxD (mm)	Weight (Kg)	Pack (u.)	Art. No.
Ventilation box in steel	215m ³ /h	IP44	-	235x235x250	8	1	331-00CDVA
Ventilation box in steel	215m ³ /h	IP44	Connecting kit option (KRC)	235x235x250	8	1	178-00KITA
Filtration box in steel with filter	86m ³ /h	IP20	Filter type CDFORG for organic vapours	285x410x285	13	1	331-00CDFA
Filtration box in cellular PVC	86m ³ /h	IP20	Filter type CDFCORG for corrosive and organic vapours	305x580x300	10	1	331-00CDFP
Connecting kit	-	-	-	-	-	1	331-000KRC

For further information, please contact scharlab@scharlab.com

