



The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.



Your partner for world-class inorganics and solvents

At MilliporeSigma, our vision is to unleash the potential of science for life. But we couldn't do it without you. Close partnerships with our customers have been at the heart of our progress throughout our long history. They have allowed us to clearly understand your challenges. To develop high-quality solutions that are tailored to your needs. And to constantly push the boundaries of innovation.

As your reliable partner and one-stop supplier, we offer a portfolio of more than 40,000 products, and serve you from 154 locations in 67 countries around the world. So whether in your quality control lab, pilot plant or production facility, you'll have the most suitable products, packaging and documentation to conduct your application more easily, efficiently and economically.

Discover how our world-class Inorganics and Solvents can empower your work.

Demanding or regulated analytical applications

Routine analytical applications

Preparative lab work, cleaning and production

right reagent for your application?

Just choose your grade

Life science is a vast field. It can mean anything from complex analysis to routine lab work or production. Each poses unique demands, requires distinct solutions, and is governed by different regulations. When looking for products, you have to consider your application, your target and, of course, your budget.

To simplify your search, our extensive portfolio of Inorganics and Solvents is divided into three grades: EMSURE®, EMPARTA® and EMPLURA®. Each quality grade is offered in a variety of volumes, packaging materials, and with different documentation packages. Now, you won't have to search for the right solution for your application. All you have to do is choose.





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EMC	Regulations	Regulatory support	Purity	Number of specified parameters
-1.120RE	ACS ISO Reag. Ph Eur	Quality Docu- mentation, CoA's, MSDS, BSE / TSE certificates	99.7 – 99.9 %	< 70
EMPARTA*	ACS	CoA's MSDS BSE / TSE certificates	99.0 – 99.5 %	< 10
EMPLURA'	-	CoA's MSDS	99 %	4 - 5

Packaging and Safe Handling
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Inorganics & Solvents

EMSURE® Acids **EMPARTA**® Page 72 **EMPLURA® EMSURE®** Caustic alkalis and bases **EMPLURA®** Page 80 **EMSURE®** Metals and metal oxides **EMPLURA®** Page 84 **EMSURE®** Salts **EMPLURA®** Page 90 **EMSURE®** Solvents **EMPARTA®** Page 106 **EMPLURA®**

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compliance and bocumentation

Whether you manufacture products nationally or internationally, you need to comply with a host of regulations. It can be challenging to maintain an overview of requirements – especially when they change. This is where a capable partner can help.

Our Inorganics and Solvents are produced and tested according to multiple international guidelines. This means they can be used worldwide for almost all applications. It also allows our global customers to work with the same standard operating procedures (SOPs), and export to countries with different regulations.

By combining multi-standard compliance with comprehensive documentation, our products make your work both simpler and safer.

Regulatory environment

Our analytical reagents are available in different grades, which are specified in accordance with various international regulations.

American Chemical Society (ACS)

EMPARTA® and EMSURE® products are specified according to the monographs published in the "Reagent Chemicals" guidelines of the American Chemical Society (ACS). We follow the 11th and most recent edition of the guidelines, and regularly check for updates. Our in-depth approach to ACS specifications includes comparison with our own stringent quality control standards.

United States Pharmacopeia (USP)

The "Reagents" chapter of the U.S. Pharmacopeia and National Formulary defines the quality of reagents reguired for testing according to USP-NF. In most cases, the USP recommends to "use ACS reagent grade", which is described as a grade meeting the corresponding specifications of the current edition of "Reagent Chemicals" published by the ACS. Since EMPARTA® and EMSURE® products are ACS-compliant, they are also ideal for quality control according to USP-NF.

Reagents section of the European Pharmacopoeia (Reag. Ph Eur)

Currently in its 9th edition, the European Pharmacopoeia (Ph Eur) is published by the European Directorate for the Quality of Medicines & Health Care (EDQM), and defines requirements for the "qualitative and quantitative composition of medicines, the tests to be carried out on medicines and on substances and materials used in their production". It contains a detailed section describing reagents to be used for analysis in accordance with the European Pharmacopoeia. EMSURE® products fulfill these requirements, and bear the designation, "Reag. Ph Eur".

International Organization for Standardization (ISO)

Besides pharmacopoeia regulations, the International Organization for Standardization (ISO) also sets guidelines for analytical reagents. Specifically, ISO 6353 defines the requirements for reagents used in analytical chemistry. All EMSURE® products with the designation "ISO" are compliant with ISO 6353.

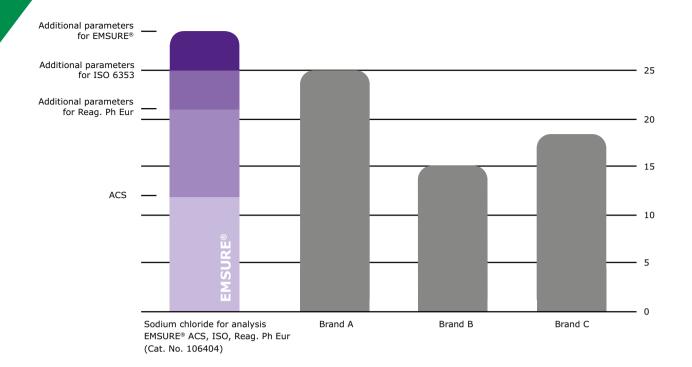
Compliance and Documentation

We offer a choice of product grades to suit the regulatory environment you work in. EMPARTA® products are specified according to ACS. EMSURE® product specifications not only fulfill ACS, Reag. Ph Eur, and ISO guidelines – but exceed them. That's because we are regularly adding new parameters required by our customers. This is essential as it enables the use of new, more sensitive technologies.

The most parameters

The graphs "below" vs "on the right hand side" demonstrate the typical number of parameters specified for EMSURE® products versus those required by regulatory organizations (ACS, Reag. Ph Eur and ISO). Clearly, EMSURE® products not only fulfills international guidelines, but surpasses them by far. Brand comparisons confirm the advantages of EMSURE® reagents. In this example, the number of specified parameters clearly demonstrates the superior quality of an EMSURE® product.

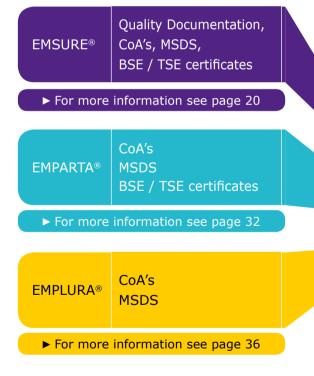




Documentation

Complete, correct documentation is vital when working with analytical reagents. That's why we offer product specifications, Certificates of Analysis, and Material Safety Data Sheets (MSDS) for all EMSURE®, EMPARTA® and EMPLURA® products. Available 24/7 on our website, the specifications and Certificates of Analysis prove the superior quality of the chemicals, while the MSDS provides product-specific safety information. For selected EMSURE® products we even offer detailed quality documentation packages.

Regulatory support



pharmaceutical Analysis

With suitable, specified reagents

We supply several hundred Inorganics and Solvents for pharmaceutical analysis – the most extensive range offered by any manufacturer. Comprising solvents, acids, salts, caustics, bases, indicators and special reagents, our pharmacopoeia portfolio ensures that you work with the most suitable products for your particular needs and that they meet all quality guidelines.

For pharmaceutical analysis, you have the choice of two grades: EMSURE® or EMPARTA®. While both grades comply with ACS standards, EMSURE® products also fulfill the Reagents requirements of the European Pharmacopoeia.

Fulfill global requirements

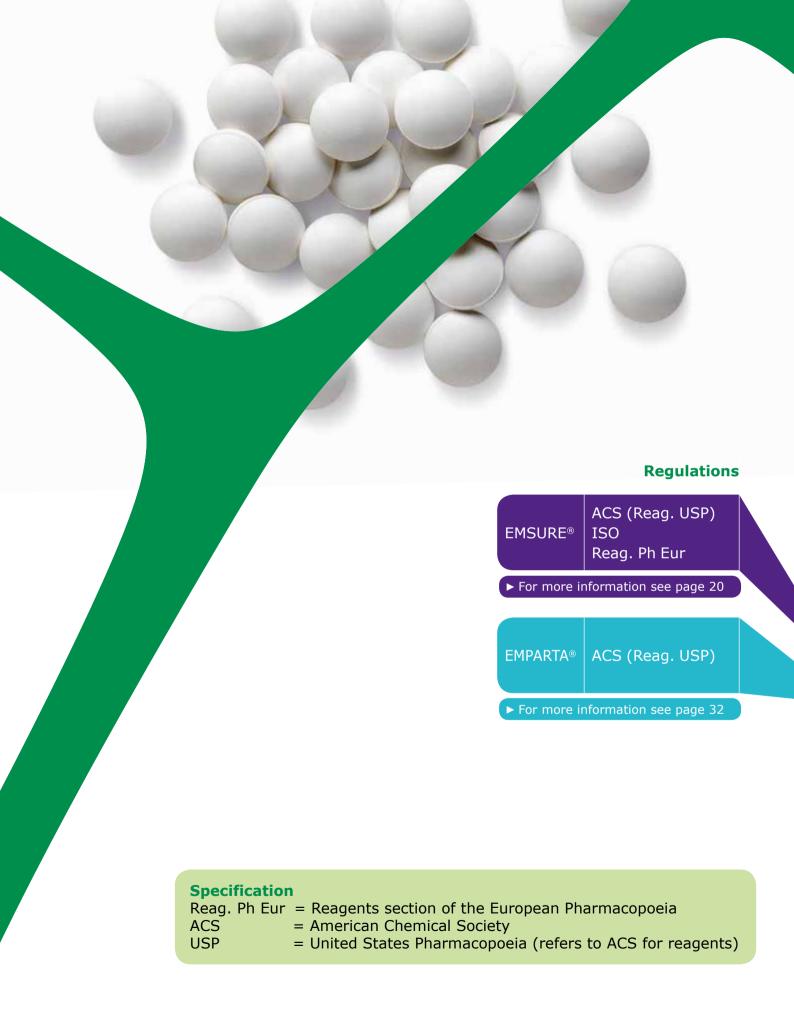
Through compliance with these comprehensive global standards, our analytical reagents offer a new level of quality and reliability in pharmaceutical applications. Whether for research and development or routine quality control, they allow you to fulfill the fundamental prerequisites of your scientific work and successfully pass audits.

Ensure reliable analyses

Reagent quality is decisive in pharmaceutical analysis. The greater and more consistent the quality, the more reproducible the results, and the lower the need for repeat analyses. Due to their exceptional quality and purity, our analytical reagents provide you with greater accuracy, efficiency and economy from the start.

Soar with our high standards

Our product quality not only complies with international regulations, but also fulfills the Merck KGaA, Darmstadt, Germany rigorous pharmaceutical guidelines – which are even more stringent for most products. Due to our unique, superior quality standards and additional parameters, our reagents offer maximum purity and security.



specifications and purity

Our promise of exceptional quality

Our reagents and chemicals are renowned for their outstanding quality. We achieve and maintain this reputation through three important measures: validation, accreditation, and compliance with regulations. Every step in our supply chain is subject to the most stringent controls and fully documented to give you complete confidence in your analysis.

Purity

Decades of experience with highly pure chemicals combined with state-of-the-art production and filling plants ensure that what you order is what you receive. We only use high-quality raw materials and manufacture under strictly controlled conditions using our advanced methodology. This results in outstanding chemical purity and extremely low limiting values, which makes our products the ideal choice for reliable qualitative and quantitative analyses.

Quality control

All our Inorganics and Solvents are tested and certified in our own state-of-the-art laboratories under the guidance of highly qualified specialists. We have quality control labs at every production site, which work closely together to ensure comparable test procedures and results. During testing, we always adhere to international standards and legal requirements, and integrate the latest developments in technology and methods.

So you can trust on our analytical competence. EMPARTA® and EMPLURA® grade products are tested at one of our own labs close to its production site. EMSURE® grade products are quality controlled at our Merck KGaA, Darmstadt, Germany site.

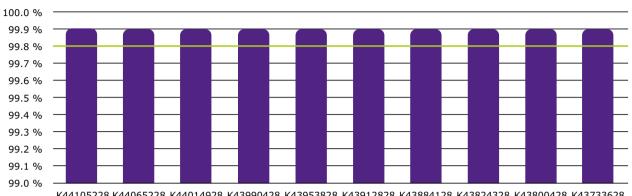
Consistency

Due to their outstanding batch-to-batch consistency, each time you use our products, you can expect the same excellent quality. This not only ensures reproducible results, but also avoids the costs and complications of repeat analyses.

The graphs on the right demonstrate the superior batch-to-batch consistency of some of our products.



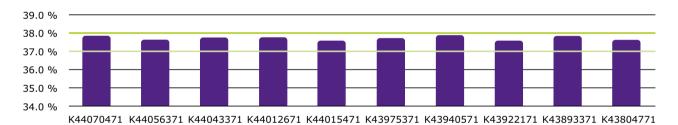
Acetone for analysis EMSURE® ACS, ISO, Reag. Ph Eur



K44105228 K44065228 K44014928 K43990428 K43953828 K43912828 K43884128 K43824328 K43800428 K43733628

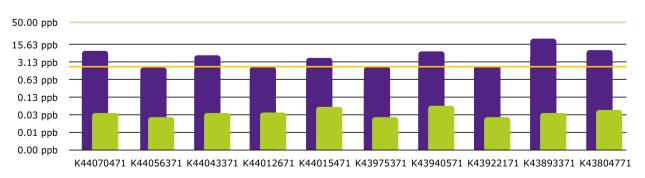
Assay specification
Assay effective values

Hydrochloric acid fuming 37 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur



Assay (acidimetric) specified max.

Assay (acidimetric) effective values



Fe specification Cu specification

Fe effective values Cu effective values

Specifications and Purity

Our promise of exceptional quality

Unrivalled specifications

Our reagents and solvents often offer additional specifications beyond those required by international guidelines, such as ISO, ACS and Reag. Ph Eur. Many are measured for up to 70 parameters! Furthermore, thanks to our proven Quality Management System, we are able to continuously improve our specifications.

Application-optimized

The differences in our quality grades are clearly shown in their individual specifications. Regardless of the grade you choose, you will always receive a product of excellent quality that's perfectly suited to your application.

		Specifications	Purity	Number of specified parameters
EMSURE® products combine maximum specifications with minimum impurities. Their Certificates of Analysis provide an extended impurity profile for each batch, and detailed batch values for each specification parameter. This avoids misinterpretation of results, and gives you greater control of your analysis, especially when developing new methods.	EMSURE®	The most extensive specifications world-wide!	99.7 – 99.9 %	< 70
	EMPARTA®	All ACS requirements	99.0 – 99.5 %	< 10
	EMPLURA®	All basic parameters	99 %	4 - 5

Dedicated service

For us, quality encompasses more than product purity and consistency. It also means service that exceeds expectations. Whether you require regulatory support, application advice, or a specific product, our experienced team is always at hand to work closely with you and deliver swift, innovative solutions.



Certificate of Analysis

1.04933.0500 Potassium chloride for analysis (<= 0.005% Br) EMSURE® ACS,ISO,

Reag. Ph Eur

Batch A1073933

	Spec. Values		Batch Values	
Assay (argentometric)	99.5 - 100.5	%	99.7	%
Assay (argentometric; calculated on dried substance)	99.0 - 100.5	%	99.8	%
Identity	passes test		passes test	
Appearance of solution	passes test		passes test	
Insoluble matter	≤ 0.005	%	≤ 0.005	%
pH-value (5 %; water)	5.5 - 8.0		5.6	
Acidity or alkalinity	passes test		passes test	
Bromide (Br)	≤ 0.005	%	≤ 0.005	%
Chlorate and Nitrate (as NO ₃)	≤ 0.003	%	≤ 0.003	%
lodide (I)	≤ 0.002	%	≤ 0.002	%
lodide (I)	passes test		passes test	
Phosphate (PO ₄)	≤ 0.0005	%	≤ 0.0005	%
Sulphate (SO ₄)	≤ 0.001	%	≤ 0.001	%
Total nitrogen (N)	≤ 0.001	%	≤ 0.001	%
Heavy metals (as Pb)	≤ 0.0005	%	≤ 0.0005	%
Ba (Barium)	passes test		passes test	
Ca (Calcium)	≤ 0.001	%	≤ 0.001	%
Fe (Iron)	≤ 0.0002	%	≤ 0.0002	%
Mg (Magnesium)	≤ 0.0005	%	≤ 0.0005	%
Na (Sodium)	≤ 0.005	%	≤ 0.005	%
Magnesium and alkaline-earth metals (as Ca)	≤ 0.02	%	≤ 0.02	%
Loss on Drying (105°C)	≤ 1.0	%	< 0.7	%

Corresponds to ACS,ISO,Reag. Ph Eur

Date of release (DD.MM.YYYY) 19.08.2016 Minimum shelf life (DD.MM.YYYY) 31.08.2021

Claudia Wiegand

Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.

Merck KGaA, Frankfurter Straße 250, 64293 Darmstadt (Germany): +49 6151 72-0 EMD Millipore Corporation - a subsidiary of Merck KGaA, Darmstadt, Germany 290 Concord Road, Billerica, MA 01821, USA, Phone: (978) 715-4321 SALSA Version 45787 9000000311460* Dai: 1:0.03.0316

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SAFETY AND PACKAGING

Protecting people, products and the planet

Besides offering premium chemicals and reagents, we have invested decades into developing the most advanced packaging concepts in the field of chemistry. Our innovative packaging and withdrawal systems are precisely tailored to the contents, and based on sustainable principles. So they not only protect your personnel and products, but also the environment.



Light, unbreakable HDPE bottles for reagents

- Safe and unbreakable
- · High pressure stability
- Light, easy to carry
- Integrated handle
- Environmentally friendly, easy to recycle

Robust, PE-coated Safebreak bottles for acids

- Safe handling of acids
- Meet all safety requirements
- All advantages of glass bottles
- Easy, eco-friendly disposal (with glass)

Environmentally friendly, returnable stainless steel drums for solvents

- Safe, easy and convenient handling of solvents
- Ecological, returnable container
- Cost effective solution
- Suitable withdrawal systems available



Development and testing

Our internal packaging department is exclusively responsible for testing, developing and approving packaging materials. Our package testing facility is accredited by the German Federal Institute for Materials Research and Testing (BAM - Bundesanstalt für Materialforschung und -prüfung), the authority responsible for the packaging of dangerous goods.

Grades and options

All our products are delivered in sophisticated and suitable packaging. The choice of packaging, however, varies from grade to grade. EMSURE® products are available in a large variety of packaging sizes and materials to suit your particular application and requirements. EMPARTA® and EMPLURA® products are offered in standard pack sizes, for example, 1 kg or 25 kg for solids, and 2.5 l, 4 l, or 25 l for liquids.

Packaging advantages

- Packaging is always compatible with the product
- Safe and convenient handling, storage and transportation
- Optimal protection of chemicals and reagents from contamination
- Application-oriented packaging
- Wide choice of packaging materials and sizes
- ▶ For more details about our packaging, please see "Packaging and Safe Handling" on page 42

EMSURE®

Premium Grade Products

Inorganics and Solvents – for demanding or regulated analytical applications

The EMSURE® brand designates our premium grade Inorganics and Solvents, which are optimized for regulated analyses and highly demanding lab applications. These products offer the highest quality and an unmatched scope of specifications to give you complete control of test conditions and eliminate uncertainties. What's more, EMSURE® Inorganics and Solvents are fully compliant with international regulations, and are suitable for an extraordinarily wide range of applications. So when you want to be more than sure: choose EMSURE® products.





Highest convenience and safety ► Page 26



Obtain more accurate and reliable results

▶ Page 24



Fulfill regulatory requirements

▶ Page 27



Know your impurity profile

mpurity profi ▶ Page 22



Worldwide availability

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Comprehensive documentation

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EMSURE® Premium Grade Products

EMSURE®

Premium Grade Inorganics and Solvents



Extended impurity profile - Superior purity and clarity

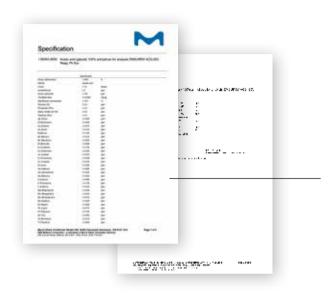
New analytical methods have lower detection limits and higher sensitivity. Hence, reagents of greater purity are required. EMSURE® products are the perfect choice. They not only offer superior quality, but also more extensive product information to prepare you for any analytical challenge.

All EMSURE® products are made from high-quality raw materials in our state-of-the-art production facilities, then tested for up to 70 parameters at our stringent quality control labs in Darmstadt, Germany. This results in outstanding chemical purity and extremely low limiting values.

Every EMSURE® product comes with a comprehensive Certificate of Analysis, which includes an extended impurity profile for each batch. This gives you absolute analytical security, and prevents misinterpretation of results caused by impurities.



Acetic acid (glacial) 100 % anhydrous for analysis EMSURE® Premium Grade Inorganics and Solvents, ACS, ISO, Reag. Ph Eur



Additional parameters for EMSURE® products -

Additional parameters for ISO 6353 ____

Additional parameters for Reag. Ph Eur _____

ACS —

- Most extensive specifications worldwide
 - Tested for up to 70 parameters
 - Extraordinary purity
 - Very low limiting values
- Greater accuracy and control of analyses
- Optimized for highly critical and demanding analyses
- Ideal for method development
- No interference or contamination due to unknown impurities

Acetic acid (glacial)

100% anhydrous for analysis **EMSURE®**

Water	≤ 0.2 %
Zr (Zirconium)	≤ 0.050 ppm
Zn (Zinc)	≤ 0.030 ppm
V (Vanadium)	≤ 0.010 ppm
Tl (Thallium)	≤ 0.020 ppm
Ti (Titanium)	≤ 0.050 ppm
Sr (Strontium)	≤ 0.010 ppm
Sn (Tin)	≤ 0.050 ppm
Pt (Platinum)	≤ 0.100 ppm
Phosphate (PO₄)	≤ 0.4 ppm
Ni (Nickel)	≤ 0.020 ppm
Na (Sodium)	≤ 0.200 ppm
Mo (Molybdenum)	≤ 0.010 ppm
Mn (Manganese)	≤ 0.010 ppm
Mg (Magnesium)	≤ 0.050 ppm
Li (Lithium)	≤ 0.010 ppm
K (Potassium)	≤ 0.100 ppm
In (Indium)	≤ 0.050 ppm
Hg (Mercury)	≤ 0.005 ppm
Ge (Germanium)	≤ 0.020 ppm
Ga (Gallium)	≤ 0.050 ppm
Cr (Chromium)	≤ 0.020 ppm
Co (Cobalt)	≤ 0.010 ppm
Cd (Cadmium)	≤ 0.020 ppm
Ca (Calcium)	≤ 0.100 ppm
Bi (Bismuth)	≤ 0.050 ppm
Be (Beryllium)	≤ 0.005 ppm
Ba (Barium)	≤ 0.010 ppm
B (Boron)	≤ 0.100 ppm
Au (Gold)	≤ 0.010 ppm
As (Arsenic)	≤ 0.010 ppm
Al (Aluminium)	≤ 0.020 ppm
Ag (Silver)	≤ 0.005 ppm
Acetaldehyde	≤ 2 ppm

Cu (Copper)	≤ 0.010 ppm
Solidification temp.	≤ 16.3 °C

Titratable base	≤ 0.0004 meq/g
Substances reducing KMnO ₄	≤ 20 ppm
Substances reducing K ₂ Cr ₂ O ₇	passes test
Fe (Iron)	≤ 0.050 ppm
Heavy metals (as Pb)	≤ 0.5 ppm
Sulphate (SO ₄)	≤ 0.4 ppm
Chloride (CI)	≤ 0.4 ppm
Acetic anhydride	≤ 100 ppm
Evaporation residue	≤ 5 ppm
Dilution test	passes test
Color	≤ 10 Hazen
Assay (alkalimetric)	≤ 99.8%

EMSURE®

Premium Grade Inorganics and Solvents



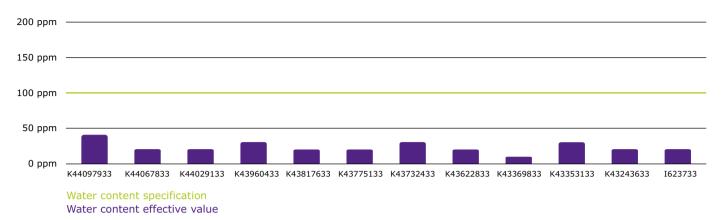
Accuracy and reliability - Absolute trust - every time

Thanks to their outstanding batch-to-batch consistency, each time you use EMSURE® products, you can expect the same excellent quality. This not only ensures reproducible results, but also reduces your analytical costs. Now, you can avoid repeat analyses, and won't need to stock up on specific product batches.

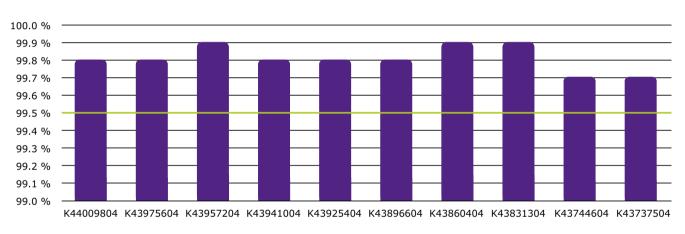
- Unmatched batch-to-batch consistency
- Reliable and reproducible results
- Lower analytical costs
- No repeat analyses



Chloroform for analysis EMSURE® ACS, ISO, Reag. Ph Eur



Sodium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur



Assay (agentometric) specification Assay (agentometric) effective value

Perchloric acid 70 - 72 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur



EMSURE®

Premium Grade Inorganics and Solvents



Convenience and safety - Packed with innovation

EMSURE® products offer top quality both inside and out. Through continuous innovation, we have developed various packaging and withdrawal systems, which are precisely tailored to the contents. Our solutions offer secure and convenient usage for lab personnel, while being safer for the planet.

- Packaging is always compatible with the product
- Safe and convenient handling, storage and transportation
- Optimal protection of chemicals and reagents from contamination
- Application-oriented packaging
- Wide choice of packaging materials and sizes



Safebreak bottle for EMSURE® acids and unbreakable HDPE bottles for acids, solvents and bases.



Regulatory compliance - Specified beyond standards

EMSURE® product specifications not only fulfill ACS, Reag. Ph Eur and ISO guidelines - but surpass them. That's because we are reqularly adding new parameters required by our customers. As a result, EMSURE® products can be used around the world for almost all applications, including pharmacopoeia analysis. Due to their extensive specifications, EMSURE® products are also suitable for use with the latest technologies, such as detecting concentrations of metals via atomic absorption spectroscopy (AAS).

- Compliance with ACS, ISO and / or Reag. Ph Eur (Please see "Compliance and Documentation")
- Most products' specifications exceed international standards
- Suitable for pharmacopoeia analysis
- Can be used internationally



Global availability - One excellent quality - worldwide

Whenever or wherever you require EMSURE® Inorganics and Solvents, we serve you the same excellent quality from 154 locations in 67 countries around the world. This, combined with multi-standard compliance, means that our multinational customers can work with the same standard operating procedures (SOPs), and export to countries with different regulations.

- Identical quality worldwide
- Comparable results
- Work with one global SOP
- Suitable for global export



EMSURE®

Premium Grade Inorganics and Solvents



Comprehensive documentation – All the documents you need – whenever you need them

We provide extensive documentation for EMSURE® products to further support your work. All standard documents are available 24/7 on www.emdmillipore.com. Simply search for documents using the product number, CAS number or keywords.

Standard EMSURE® documents include:

- Material Safety Data Sheet (MSDS)
- Product specifications
- Batch-specific Certificate of Analysis (CoA)
- Physicochemical information

EMSURE® Quality Documentation – More insights. More efficiency. More expertise.

For even greater security and simplicity in your analyses and audits, we also offer EMSURE® Quality Documentation. The service includes comprehensive product information and up-to-date certificates, which can be downloaded in one file, and stored in your lab system or printed when required. Now, you won't need to search for individual documents on various sources, or to perform time-consuming lab filing. Just one click and you have all the information you need from one source. EMSURE® Quality Documentation will be available for selected products in two versions: Basic and Advanced.



EMSURE®

Premium Grade Inorganics and Solvents



EMSURE® Quality Documentation

Your advantages

No matter which package you choose, EMSURE® Quality Documentation will add considerable simplicity and security to your analyses and audits.

- Streamline lab work
- Save time and costs
- Ensure comparability of results
- Certainty during use of product
- Accuracy regarding impurities
- Confidence in analysis and production

Learn more about your advantages, and obtain your copy of EMSURE® Quality Documentation on:

www.emdmillipore.com/emsure/documentation





Quality Documentation Basic

Available free of charge, the "Basic" version provides all standard registration and productspecific characteristics in a clear and concise format. Simply download the package from the our website, and obtain essential, up-to-date information about the reagents you use.

Package includes:

- Synonyms / nomenclature
- Chemical formula
- Material Safety Data Sheet
- ISO certificates of Merck KGaA, Darmstadt, Germany production sites
- REACH registration statements
- Chemical inventories statement.
- Product specifications
- Country of origin
- Risk statements e.g. BSE / TSE information

Quality Documentation "Advanced"

The "Advanced" version provides additional, valuable insights into our stringent production and testing procedures, including details about costly tests we perform to give you the utmost security in your lab work. The information is continuously revised and upgraded according to new methods and regulations.

The documentation is available as a PDF file, which can be saved directly in your lab system. The complete package can be ordered and it includes free updates for 5 years. Simply sign the confidentiality agreement, download the document, and enjoy unlimited access to the most current information.

Package includes:

- All documents of the "Basic" package
- Production flow charts
- Test monographs
- RoHS certificate
- Batch analysis comparison
- Additional test certificates e.g. allergens, aflatoxins, residual solvents
- GMO information
- Non-nano particle information

EMPARTA®

Standard Grade Products

Inorganics and Solvents - for routine analytical applications

With EMPARTA® products, we offer a range of high-quality, cost-efficient Inorganics and Solvents for routine analytical applications. These standard-grade products offer fewer test parameters than EMSURE® products. Still, EMPARTA® product sepecifications are fully compliant with ACS requirements and cover all important parameters, thus ensuring reliable and reproducible results.





for routine applications ▶ Page 35



Compliant with ACS ► Page 34



Convenient lab-sized packaging

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Reliable results ▶ Page 35



cost-effective solution

▶ Page 35

EMPARTA® Standard Grade Products

EMPARTA®

Standard Grade Inorganics and Solvents



Compliant with ACS

The quality of EMPARTA® Inorganics and Solvents is tested according to the specifications of the monographs published in the "Reagent Chemicals" guidelines of the American Chemical Society (ACS). We follow the 11th and most recent edition of the guidelines, and regularly check for updates. Our in-depth approach to ACS specifications includes comparison with our own stringent guality control standards.

Reagents for analysis according to USP

The "Reagents" chapter of the U.S. Pharmacopeia and National Formulary defines the quality of reagents required for testing according to USP-NF. In most cases, the USP recommends to "use ACS reagent grade", which is described as a grade meeting the corresponding specifications of the current edition of "Reagent Chemicals" published by the ACS. Since EMPARTA® products are fully compliant with ACS guidelines, they are ideal for quality control according to USP-NF.



Standard quality for routine lab applications

EMPARTA® products offer just the parameters you really need – including all those required by the ACS. Hence, they are the perfect choice for reliable quality control and routine analytical applications in less regulated industries.





Reliable results

EMPARTA® Inorganics and Solvents feature a high analytical purity of 99.0 - 99.5 %. Thanks to our sophisticated production chain, particulate impurities and cross-contamination from other products are completely ruled out.

Efficient and cost-effective solution

From raw materials to specifications, packaging and documentation, every aspect of EMPARTA® products is designed to make your analytical lab applications as cost-effective as possible – without sacrificing quality.





Convenient lab-sized packaging

EMPARTA® Inorganics and Solvents typically come in HDPE or amber glass bottles, which are the perfect size for working in the lab. Our tailor-made packaging offers multiple safety features.

Learn about them in the chapter >> "Packaging and Safe Handling" (page 42).

EMPLURA®

Basic Grade Products

Inorganics and Solvents for preparative lab work, cleaning and production

For many applications, you don't need chemicals of the highest purity – you need a cost-effective solution with reliable quality that is available in large quantities. The EMPLURA® product range is ideal for basic lab work and production applications. These economical Solvents and Inorganics offer adequate specifications with the most common parameters, and are available in small pack sizes as well as in bulk quantities.









Adequate specifications with most common parameters

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Completely flexible pack sizes

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Greener chemical alternatives

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EMPLURA® Basic Grade Products

EMPLURA®

Basic Grade Inorganics and Solvents

Suitable for numerous basic applications

The EMPLURA® product range includes a broad selection of the most important Inorganics and Solvents. So you will easily find the most suitable solutions for numerous basic applications, such as preparative lab work, cleaning or standard production processes.





Economical solution

Why pay for high purity when your application only requires basic quality? EMPLURA® products Inorganics and Solvents are your economical answer. It gives you reliable results at a reasonable price.

Completely flexible pack sizes

Our standard packaging options vary from 1 I glass bottles to 190 I drums. However, we are completely flexible and can offer even larger quantities, such as intermediate bulk containers (IBCs) or tank containers, on request.





Adequate specifications

EMPLURA® products are mainly tested for preparative lab applications and standard production processes. Hence, we only monitor the basic parameters that are important in these applications, such as purity, identity, density, evaporation residue and water content. In most cases, the purity exceeds 98 %.

Principles of green chemistry

- Prevent waste
- Use renewable raw materials
- Minimize energy and resource requirements of chemical processes
- Create safer, less toxic chemicals
- Develop less hazardous synthetic methods
- Design chemicals that do not persist in air and water



Greener chemical alternatives

The products we create help our customers improve people's lives every day, but we recognize that every product we make also has an environmental impact. That's why we are committed to continually improving the sustainability performance of our products and adopting a greener chemical process. Our latest advances in green chemistry include: bioethanol, 2-methyl tetrahydrofuran, cyclopentyl methyl ether and ethyl lactate.



EMPLURA®

Basic Grade Inorganics and Solvents

Innovative greener solvent alternatives

Bioethanol

Produced from grain or sugar cane, we use bioethanol in place of synthetic ethanol. High quality, an affordable price, and ready availability make our bioethanol an obvious choice for a sustainable future.

2-Methyl tetrahydrofuran (Methyl THF)

2-Methyl tetrahydrofuran is a greener alternative to dichloromethane and tetrahydrofuran. It is derived from renewable resources such as corncobs and sugarcane bagasse.

Bioethanol

- Produced from grain or sugar cane, a renewable source
- Lower toxicity for users
- Production methods safer for the environment
- Consistently high quality at an affordable price
- Reliable availability (supply risk uncoupled from petrochemical production)
- Offered in various grades: EMPLURA®, EMPARTA®, EMSURE®

Methyl THF

- Produced from renewable sources
- Reliable availability (supply risk uncoupled from petrochemical production)
- Less solvent needed due to more efficient extraction and higher reaction yields
- Lower volatility, higher flash point increase user safety
- Limited miscibility in water reduces waste stream



Cyclopentyl methyl ether (CPME)

Cyclopentyl methyl ether is a greener substitute for tetrahydrofuran, tert-butyl methyl ether, 1,4 dioxane and other ether solvents.

Ethyl lactate

Ethyl lactate is a safer and more sustainable alternative to ethyl acetate and acetone. It is an ester of natural L-lactic acid, which is produced by fermentation of sugar.

CPME

- Resistance to peroxide formation improves laboratory safety
- One-step reaction saves energy and reduces waste water
- More stable than tetrahydrofuran
- More hydrophobic solvent increases yields and selectivity
- Limited miscibility in water reduces waste stream

Ethyl lactate

- Increased user safety due to less toxicity (non-carcinogenic)
- No waste due to 100 % biodegradability
- Non-corrosive in contact with metals



packaging and safe Handling

Perfected to protect

For us, packaging is not just an empty vessel for products. It is a fundamental aspect of safety, sustainability and reliability. Hence, we pay as much attention to the quality of our outer materials as to their inner contents. This commitment has led to an exceptional range of packaging options that ensure safe transport, storage and handling, while minimizing environmental impact.



► For more information about stainless steel drums see page 63



Packaging and Safe Handling

Perfected to protect

Every detail – optimized and tested

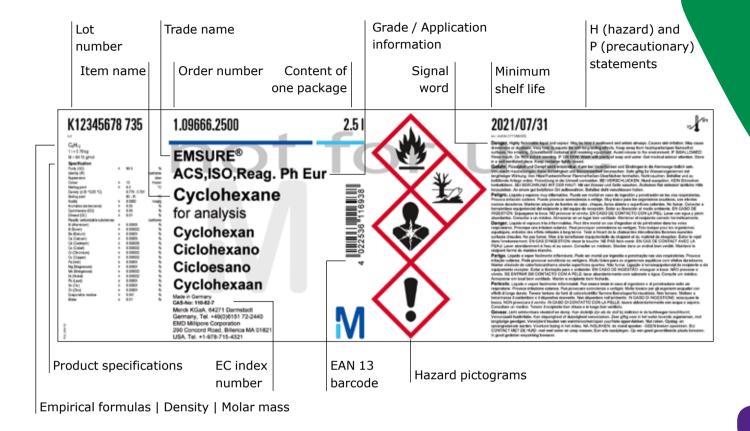
All our packing materials are tailored to their contents and meticulously tested for quality and permeability to preserve the purity of our products. Not only the container, but also the closure, transportation box and withdrawal systems (for solvents) are optimized as a complete packaging concept. Thanks to our high standards, our package testing facility is accredited by the German Institute for Materials Research and Testing (Bundesanstalt für Materialforschung und -prüfung), the authority responsible for the packaging of dangerous goods.

Your advantages

- Application-oriented packaging materials and volumes
- Convenient, safe and contamination-free handling
- · Maximum safety through an extensive portfolio of accessories
- Ecological and economical use of returnable containers where suitable
- Individual user installation or other customized solutions possible



Product label



Labels that last

Our labels provide essential information for our customers. So their durability is a top priority. We use varnished paper labels that are resistant to most chemicals, or apply PE labels wherever necessary. All labels are resistant to abrasion, forgery proof, and adhered with glue that is specially developed for use in the chemicals sector. Since June 1, 2015, all our substances and mixtures feature GHS labels.

GHS: The global label

In the past, inconsistent evaluation criteria in different countries led to identical chemicals being classified as poisonous, harmful to health, or even not harmful. This resulted in conflicting levels of protection for employees, consumers and the environment. Consequently, the United Nations (UN) initiated an effort to create a globally uniform safety standard for chemicals.

First published in the UN's "Purple Book" in December 2003, the Globally Harmonized System (GHS) describes standardized classification and labeling criteria for chemicals, including hazard symbols and safety data sheets. Since its introduction, the GHS has been progressively adopted in different countries. June 1, 2015 was a significant implementation deadline in both the EU and the US. Since all our Inorganics and Solvents carry GHS labels, our customers can work safely and in compliance with these regulations.

Packaging overview

From bottles to tanks















Glass bottles for acids, bases and solvents

- Safe and convenient handling, storage and transportation
- Special shape of the opening allows optimum pouring
- Secure S40 screw cap with tamperproof seal
- Premium amber blank glass remains inert even to aggressive chemicals
- · High pressure resistance
- Pulp packaging for safe transport of glass bottles

Strong yet light in weight, our molded fiber trays ensure that chemical bottles are optimally protected during transportation and storage. All our pulp packaging is made from recyclable materials, so it also protects the environment.









5 I







HDPE bottles for acids, bases and solvents

- Made from high-density polyethylene (HDPE)
- Convenient handling and dosage with integrated handle for 2.5 and 5 l bottles
- Narrow base for efficient use of lab space
- Low tare weight facilitates handling and reduces transport costs
- Secure S40 screw cap with tamperproof seal
- High pressure resistance (particularly for 2.5 I bottle with special base geometry)



Aluminum bottles for solvents

- Safe and convenient handling, storage and transportation
- Optimum material characteristics avoid interactions with solvents
- Secure S40 screw cap with tamperproof seal
- Low tare weight facilitates handling and reduces transport costs
- · No risk of breakage









190 I

Stainless steel drums for solvents

- Optimum material characteristics avoid interactions with solvents
- Returnable drums reduce costs and environmental waste
- Compatible with a variety of withdrawal systems and level sensors
- Optimum emptying characteristics
- Stackable for efficient use of space



Packaging overview

From bottles to tanks









Other drums and containers

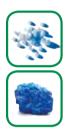
- Special packaging for higher volume requirements
- Steel drums (10, 25 or 180 / 190 l) with option of PE inliner and special coating depending on contents
- PE drums (up to 200 I)
- PE canisters
- 1,000 l intermediate bulk containers (IBCs)
- Larger sizes (up to tank containers or tank trucks) also available

Exemplary packaging. Offering depends on suitability with content.



HDPE bottles for caustic alkalis and salts

- Made from high-density polyethylene (HDPE)
- Wide opening for easy withdrawal
- Square base allows efficient use of storage space in labs and during transportation
- Compatible with S38 to S85 closure systems









25 kg / 50 kg

Large packaging for caustic alkalis and salts

- Special packaging for higher volume requirements
- PE inliner is produced in clean room conditions to protect contents
- Corrugated board boxes are glued in a water-resistant manner acc. to DIN 53133 to remain stable even under damp conditions
- Robust construction of corrugated board boxes allows stacking



Quantity Guide

Safety comes in many sizes

Our extensive variety of packaging types and sizes is unrivaled in the industry. With volumes from 0.05 I to 20,000 I, and materials from glass and HDPE to metal and stainless steel, we can easily cater to your individual requirements. The guide below will help you select the size and material that best suits your application. Whichever you choose, extraordinary safety comes standard.

Metal drums

PE drums, canisters etc.

Bottles







Pack sizes

0.51-51

10 | - 190 |

Annual consumption

0.5 | - 100 |

100 I - 1,000 I

Standard packaging

Standard packaging range one-way packaging

Stainless steel drums optional returnable packaging in Europe

- Advantage: no rinsing / cleaning / disposing
- Return unrinsed with original labels and tightly closed

Tank trucks

Stainless steel drums







> 1,000 |

- Customized products and containers
- Individual processes with rental agreements

Amber glass bottles

for acids, bases and solvents

Pack sizes: 0.5 I to 4 I

Specially developed S40 thread

withstands higher contact pressure and ensures tighter seals

Specially formed, sharp thread lip

for safe drip free pouring

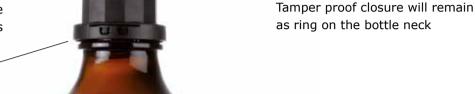
Specially treated high quality glass

with extreme durability due to constant wall thickness for highest safety and product quality

Pour ring for safe and

"bottle out of one drop" to avoid any predetermined





2.51

12.10.14

1,09634,2500

ACS, ISO, Reag. Ph Eur 2-Propanol

EMSURE"

for analysis Propanol-2

2-Propanolo

Long shelf life of contents

New S40 screw cap

due to bottle's impermeability to air and water vapor as well as protection against light

Unique, clear and complete labeling

with product specifications and all relevant hazard declarations

Broad and stable base for safe stand with low point of gravity

ergonomic withdraw tension-free

manufacturing technology: breaking point



Technical data

Material:

Amber glass, hydrolytic class 3

Available packaging size:

0.5 l, 1 l, 2.5 l and 4 l

Height, diameter and net weight (bottle size):

180 mm, ø 83 mm, approx. 450 g (0.5 l) 222 mm, ø 101 mm, approx. 600 g (1 l)

258 mm, ø 151 mm, approx. 1140 g (2.5 l) 350 mm, ø 162 mm, approx. 1525 g (4 l)

Safety accessories	
Adapter with integrated level sensor for our bottles with S40 thread (supply)	9.67100.2001
Adapter with integrated level sensor for our bottles with S40 thread (solvent disposal)	9.67100.2002
Bottle opening key S40 / S28	1.08801.0001
Display for level sensor	9.67100.2004
Label set for self-labeling lab-mixtures according to GHS, DIN EN ISO & GLP	1.00801.0001
Pouring aid for 1 I and 2.5 I glass bottles with S40 thread (for single-use)	1.02547.0005
Safety carrier for bottles up to 2.5 l	9.20078.0001
Safety carrier for 4 l bottles	1.40140.0001
Withdrawal system for solvents with manual pressure build-up in S40 bottles	1.78178.0001

HDPE bottles for liquids

for acids, bases and solvents

Pack sizes: 0.25 I to 5 I

Specially developed S40 thread

withstands higher contact pressure and ensures tighter seals

Specially formed, sharp thread lip

for safe drip free pouring

Specially treated high quality HDPE

with extreme durability, inertness and shock resistance for highest safety and product quality

Reduced packaging waste (no additional protection material necessary inside cardboard boxes)

to protect the environment and to benefit from economical advantages



New S40 screw cap

Tamper proof closure will remain as ring on the bottle neck

Integrated handle

for best pouring properties (for 2.5 I and 5 I)

For certain chemicals, bottles are colored to protect against UV

Unique, clear and complete labeling

with product specifications and all relevant hazard declarations

Low bottle weight

for easy, safe and economic handling

Special base geometry

of 2.5 I bottles prevents bulging



Technical data

Material: HDPE

Available packaging size:

0.25 I, 0.5 I, 1 I, 2.5 I and 5 I

Height, diameter and net weight (bottle size):

206 mm, ø 101 mm, approx. 66 g (1 l) 322 mm, ø 125 mm, approx. 145 g (2.5 l)

330 mm, ø 178 mm, approx. 335 g (5 l)

Safety accessories

1.09634,2511

2-Propanol

CS, ISO, Reag. Ph Eur

EMSURE"

20.04.14

Adapter with integrated level sensor for our bottles with S40 thread (supply)	9.67100.2001
Adapter with integrated level sensor for our bottles with S40 thread (solvent disposal)	9.67100.2002
Bottle opening key S40 / S28	1.08801.0001
Display for level sensor	9.67100.2004
Label set for self-labeling lab-mixtures according to GHS, DIN EN ISO & GLP	1.00801.0001
Safety stand for 2.5 I HDPE bottles	9.67213.0001
Withdrawal system for solvents with manual pressure build-up in S40 bottles	1.78178.0001

Safety accessories for bottles

To further protect you during daily lab work, we offer several safety accessories specially designed for Merck KGaA, Darmstadt, Germany bottles.

Withdrawal system for solvents (1.78178.0001)

- Manual pump system for safe and easy withdrawal of solvents (!) from glass bottles
- Specially designed to fit bottles with S40 neck
- Conductive dip tube (included) can be easily adjusted to the size of the bottle
- Conductive dip tubes are also available separately in packs of 5 (1.78179.0001)
- Grounding cable can be easily connected to avoid the risks of static electricity
- Withdrawal system can also be used for 2.5 I HDPE bottles when combined with the safety stand (9.67213.0001)





S28 thread

Bottle key (1.08801.0001)

- Convenient opening and closing of bottles with S40 and S28 screw caps
- Perfectly tailored to our bottles
- Maximum safety when working with hazardous liquids

Safety carrier for glass bottles up to 2.5 I (9.20078.0001) and up to 4 I (1.40140.0001)

- Secure transport of broken glass bottles and contents
- High-quality PE foam buffer ensures optimal protection
- Additional time for disposal due to chemical resistant materials
- Robust material avoids risk of cuts by glass splinters
- Leak-proof top cover prevents exposure to liquids and vapors
- Stable, broad handle for convenient handling





Label set acc. to GHS, DIN EN ISO and GLP (1.00801.0001)

- Comprehensive label compliant with GHS, DIN EN ISO and GLP standards
- Complete safety information at a glance with adhesive pictograms and signal words
- Non-permanent adhesive for easy, residue-free removal
- Robust plastic label, resistant to chemicals



Pouring aid for 1 l and 2.5 l glass bottles with S40 thread for single-use (1.02547.0005)

- Can be clipped on the bottle neck
- Convenient handling of 1 I and 2.5 I glass bottles
- Suitable for all liquids like acids, bases and solvents
- Is only for single-use and is disposed of with the bottle (1.78178.0001)

Adapter with integrated level sensor for MilliporeSigma bottles with S40 thread for solvent supply (9.67100.2001) and for solvent disposal (9.67100.2002)

- Suitable for solvents (!) in all S40 bottles
- The level sensor is pre-assembled in a S40 screw cap
- Equipped with a clamping screw, the sensor can be adjusted to several bottle sizes or also to the desired level
- Needs to be connected to an alarm display for optical and acoustic signalling (9.67100.2004)

Specials for acids

Safebreak bottles for acids - Just in case

The only problem with glass

As containers for many types of reagents, glass bottles offer numerous advantages. They are inert to most chemicals, highly impermeable, easy to sterilize, and reusable. There's just one problem: glass can break. Depending on the contents, this could pose serious health risks for lab personnel.

Problem solved

Fortunately, we have developed an effective solution: the Safebreak bottle. This computer-designed glass bottle is coated with polyethylene (PE), and can withstand considerable impact force. But should the bottle break, all liquid acid (!) and glass splinters are reliably contained within the PE coating, thereby protecting users from cuts or exposure to harmful chemicals.

Additional protective features

Every Safebreak bottle is fitted with a S40 screw cap made of polypropylene that has an integrated PTFE component. Even after frequent opening and closing, the cap keeps the bottle absolutely airtight so that no liquid or vapor can escape. Our Safebreak bottle also protects the planet. It can be reused and ecologically disposed of, just as conventional glass. During incineration, the PE is burnt off without affecting the environment.



- Now also available in 0.5 l and 1 l bottle size (See ordering information page 72 ff.)
- Can withstand considerable impact force
- Should breakage occur, liquid acid and glass splinters are reliably contained
- Meets all safety requirements
- Maintains high quality of contents
- Can be incorporated in all logistic systems
- · Can be reused and ecologically disposed of
- S40 screw cap prevents exposure to liquid or vapors



HDPE dosage bottle for hydrofluoric acid

Hydrofluoric acid is extremely dangerous. Even small quantities can cause severe injuries and poisoning. To avoid such hazards, we supply hydrofluoric acid in a special 500 ml dosage bottle. It is equipped with a pouring aid that allows safe, drop-by-drop withdrawal of the acid, and the last drop stays reliably in the bottle. Furthermore, our exclusive S40 screw cap ensures that the bottle is completely airtight, thereby preventing exposure to the acid or its vapors.



- 500 ml bottle with a pouring aid specially designed for hydrofluoric acid
- Allows drop-by-drop withdrawal, and last drop stays reliably in the bottle
- S40 screw cap keeps bottle completely airtight





SafetyCap for reagents that build pressure

Certain reagents, such as sodium hypochlorite solution or hydrogen peroxide, are capable of generating excess pressure through chemical reactions. To help avoid contamination, we supply all such reagents in bottles fitted with the SafetyCap.

This innovative cap has a valve that allows excess gas to be released, hence preventing the build-up of pressure. It is also absolutely leak-proof – even if the bottle is tipped. Furthermore, the PTFE membrane incorporated in the SafetyCap allows neither gas nor liquid to enter the bottle, thus protecting the contents from contamination. For additional safety, all bottles with such reagents are packed in PE bags.

- Allows gas to be released, thereby reducing internal pressure
- Absolutely leak-proof, protects users and the environment from contamination
- Prevents gas and liquid from entering bottle, protects contents from contamination



HDPE bottles

for solids

Pack sizes: 0.1 kg to 5 kg



Technical data

Material: HDPE Available packaging size: 0.1 kg to 5 kg (volume dependent on bulk density of the product) Volume Height Width Depth Net weight 0.25 I 111.5 mm 59 mm 59 mm 26 g 0.45 I 142 mm 70.5 mm 70.5 mm 50 g 0.75 I 142 mm 91 mm 91 mm min. 49 g 1.10 l 176 mm 90 mm 90 mm min. 55 g 1.25 I 207 mm 90 mm 90 mm min. 65 g 1.80 l 170.5 mm 121 mm 121 mm min. 103 g 2.50 I 219 mm 121 mm 121 mm min. 103 g 6.00 I 281 mm min. 237 g 180 mm 180 mm

Safety accessories

Wire carrier for widenecked PE bottles (4 I to 10 I volume)

Corrugated board box

with PE inliner

Pack sizes: 25 kg and 50 kg



PE inliner

is produced in clean room conditions to protect contents

Stackable

resistant manner acc. to DIN 53133

to remain stable even under damp conditions

Unique, clear and complete labeling

with product specifications and all relevant hazard declarations

Robust construction

for convenient and secure packing

Technical data

Material: Corrugated cardboard, PE bag					
Available packa	iging size: 25 kg and 50	0 kg (volume dependent	on bulk density of the product)		
Volume	Height	Width	Depth		

	J J J	3 (
Volume	Height	Width	Depth
26 I	310 mm	370 mm	275 mm
36 I	420 mm	370 mm	275 mm
40 I	330 mm	379 mm	379 mm
44 I	500 mm	370 mm	275 mm
50 I	413 mm	374 mm	374 mm
57 I	640 mm	370 mm	275 mm
60 I	488 mm	374 mm	374 mm
80 I	648 mm	369 mm	369 mm

Aluminum bottle

for solvents

Pack size: 5 l

Specially developed -S40 thread

withstands higher contact pressure and ensures tighter seals

New S40 screw cap

Tamper proof closure will remain as ring on the bottle neck

Pour ring

for safe and ergonomic withdrawal

Specially treated highquality aluminum

with extreme durability, inertness and shock resistance for highest safety and product quality

EMSURE® ACS,ISO,Reag. Ph Eur Diethyl ether for analysis Diethylether Éter dietilico Ether diethylique Etere dietilico Diëthylether **The Communication of the Communication of t

Unique, clear and complete labeling

with product specifications and all relevant hazard declarations

No outer shipping packaging necessary

to protect the environment and to benefit from economical advantages

Low bottle weight

for easy, safe and economic solvents handling

Technical data

Material: Aluminum

Available packaging size:

5 I

Height, diameter and net weight: 300 mm, ø 175 mm, approx. 285 g

Safety accessories	
Adapter with integrated level sensor for our bottles with S40 thread (supply)	9.67100.2001
Adapter with integrated level sensor for our bottles with S40 thread (solvent disposal)	9.67100.2002
Bottle opening key S40 / S28	1.08801.0001
Display for level sensor	9.67100.2004
Label set for self-labeling lab-mixtures according to GHS, DIN EN ISO & GLP	1.00801.0001

PE canisters & Fassetts®

for acids and bases

Pack sizes: 5 l, 10 l and 25 l



▶ Withdrawal systems for acids and bases see page 66

Technical data				
	Canister		Fassett®	
Parameter	5 I	25 I	25 I	
Height	24.1 cm	48.8 cm	50 cm	
Width	16.5 cm	24.2 cm	28.5 cm	
Depth	19.5 cm	29.5 cm	32.9 cm	
Volume	5.6	27 l	30 I	
Filling quantity	5 I	25 I	25 l	
Weight (empty)	0.28 kg	1.25 kg	1.5 kg	
Number per pallet	72 (4 / cardboard)	11	8	
Openings	S 60 x 6	KS 60 x 6	CCS 60 x 6	
Material	PE	PE	PE	

Safety accessories

1.08804.0001 Container key for opening containers with KS 60 x 6 screw cap

Steel drums and combi drums

for solvents and acids

Pack sizes: 10 I to 190 I



Technical data					
Parameter	10	25 I	25 I with PE	180 / 190	180 / 190 I with PE
Height	34 cm	52 cm	52 cm	88 cm	88.5 cm
Diameter	24.5 cm	29 cm	29 cm	59.5 cm	58.8 cm
Volume	13.5	28	28 I	216.5	203 I
Filling quantity	10 l	25 l	25 l	180 / 190	180 / 190 l
Weight (empty)	1.8 kg	3.6 kg	3.4 kg	22 kg	22 kg
Number per pallet	13	11	11	2	2
Openings	2" decentrally located	2" centrally and 3/4" decentrally located	S56 x 4 (PP)	2" centrally and 3/4" decentrally located (steel, galvanized)	2 x S56x4 (PP)
Material	steel	steel	steel with PE	steel	steel with PE

Stainless steel drums

returnable packaging

for solvents

Pack sizes: 10 I to 190 I



Special formed rims

for best stackability

Standard openings

to ensure highest interoperability

Safe and easy handling due to 2 large handles

High quality stainless steel

with extreme durability, inertness and shock resistance for highest safety and product quality

Printed / engraved UN-code

includes important safety information and provides packaging certificates

Unique, clear and complete labeling

with product specifications and all relevant hazard declarations

Cost effectiveness and environmental protection

by using the drum returning process (Europe only)



Bottom reservoir

for optimal emptying

▶ Withdrawal systems for solvents see page 68

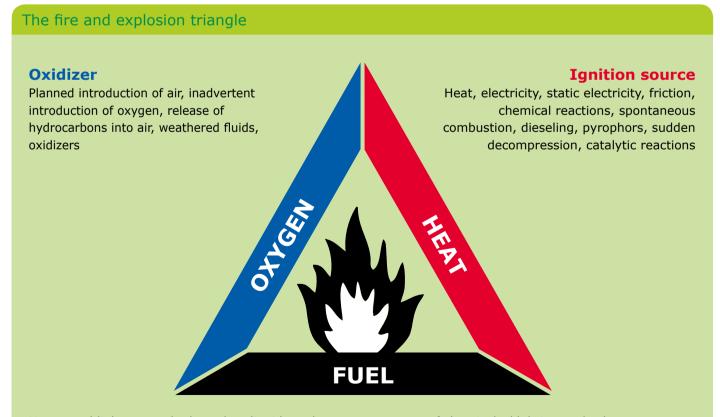
Technical data			
Parameter	10	25	190
Height	35 cm	52 cm	88 cm
Diameter	24 cm	29 cm	59.5 cm
Volume	12	28 I	215 l
Filling quantity	10	25 I	190 l
Weight (empty)	1.9 kg	3.8 kg	18 kg
Number per pallet	15	11	2
Openings	2" decentrally located	2" decentrally located	2" decentrally located 3/4" decentrally located
Material	stainless steel	stainless steel	stainless steel

Important information for safety and returnable system

If flammable liquids (e.g. solvents) are to be used, the container (10 l or more) must be properly earthed according to valid safety regulations to avoid the risk of explosion and fire. Appropriate measures must be taken to discharge static electricity.

- General warnings and safety instructions must be observed.
- All components (e.g. container and withdrawal system) must be grounded separately in accordance with the applicable safety regulations.
- Grounding clamps must have metallic contact with both the container and the withdrawal system, and a safe ground connection.
- The grounding of the container and the grounding of the withdrawal system must be installed before opening the container.
- The user must always wear conductive personal protective equipment, especially shoes and gloves, to avoid electrostatic charges.
- The floor has to be conductive.
- Sampling vessels made of insulating material with a volume greater than 1 liter should not be used.
- Before using organic solvents, the user must ensure that there are no additional ignition hazards caused by process-specific parameters, such as increased ignitability of the substances due to changed environmental conditions or when sampling in combination with highly charge-generating processes.

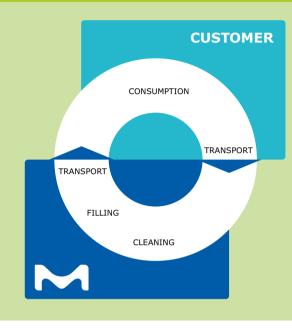
These measures reduce the risk of electrostatic separation of charges, and significantly increase safety when handling solvents.



Heavy and light gases, hydrocarbon liquids and vapours, vapours of chemicals / lubricants / solvents, frac oils, flammable materials

Removing at least one of the component avoids the fire / explosion.

The returnable system and process



Easy detection

Symbols for easy detection which packaging material can be returned:

Stainless steel drums are part of a returnable process (in Europe) – optional returnable packaging.

Metal drums are used as one-way packaging.

In Europe Merck KGaA, Darmstadt, Germany stainless steel drums are part of a returnable process. Their use means that the user no longer has to cope with the topics of complete emptying, rinsing, disposing of the rinsing liquid and even disposing of the packaging itself in the proper manner.

returnable

After consumption of the solvents on user site the empty drums are returned to us, unrinsed and with their original labels still attached. On their return, we will ensure that they are properly cleaned, checked and refilled. Clear advantages for a time saving and cost effective way of daily solvent handling.



Important safety advice

Our withdrawal systems have been developed and optimized for the use with containers and solvents from us. We therefore disclaims any warranty or liability for the operability of its withdrawal systems in connection with containers or solvents from other manufacturers.

We reserve the right to refrain from the delivery of withdrawal systems if the respective order does not indicate that each withdrawal system will be used in combination with appropriate solvents and containers from us.

We inform and advise our customers to the best of our knowledge and ability but without any engagement or liability on our part. Our customers must obey all existing laws and regulations. This also applies in respect of any protected rights of third parties. Our information and advice does not eliminate the need for our customers to check, on their own responsibility, that our products are suitable for the purpose envisaged.

Manual withdrawal systems

for acids & bases



The need for greater volumes of acids or bases may require a switch from bottles to larger containers, which increases the risk of spills and accidents. The best way to protect yourself from unintended contact with harmful and often corrosive liquids is through the use of suitable withdrawal systems. Our unique solutions allow you to safely and easily dispense harmful chemicals from large containers into other, typically smaller, reaction vessels, thereby minimizing risks.

- Unique concept allows safe and easy withdrawal of chemicals, preventing accidental contact with contents and vapors
- Flexible, lightweight withdrawal systems with integrated outlet valve and individual pressurizing options
- Integrated check valve protects the pump ball from chemical vapors
- Integrated venting system avoids vacuum development
- No operating supplies required: manual pressure buildup by hand or foot pump ball
- Lower costs through use of larger volumes of 10 l or more

Manual withdrawal system for acids and bases (PE)

- Made of specially tested high purity polyethylene (PE)
- Suitable for use with all acids and bases (except HNO₃ and H₂SO₄)



Examples for individual compilations						
25 Fassett® e.g. 25 Hydrochloric acid 37 % EMSURE® (1.00317.9026)		25 PE canisters e.g. 25 Sodium hydroxide solution about 32 % EMSURE® (1.05590.9025)				
Dispense head (PE) for acids and bases, manual pressure build-up	1.67500.0001	Dispense head (PE) for acids and bases, manual pressure build-up	1.67500.0001			
Hand pump ball for withdrawal systems	9.67114.0000	Hand pump ball for withdrawal systems	9.67114.0000			
Dip tube (PE) for acids and bases in 25 I fassetts	1.67526.0001	Dip tube (PE) for acids and bases in 25 I canisters	1.67525.0001			





Manual withdrawal system especially for Nitric acid and Sulfuric acid (PVDF)

- Made of specially tested high purity polyvinylidene fluoride (PVDF)
- Developed specifically for use with aggressive acids, e.g. HNO₃ and H₂SO₄



Safe withdrawal in 8 simple steps

Check proper operation

Open the container*

Insert dip tube and tighten*

Check outlet valve is closed

Screw in dispensing head and thighten

Place receptacle under the outlet

Pressurize by squeezing the red pump ball and fill the receptacle

Close outlet valve

* use drum key 1.67503.0001

(Always follow local safety regulations and the detailed instructions provided in the manual of the withdrawal system in use.)

Examples for individual compilation	ons		
25 combi containers e.g. 25 Nitric acid 65 % EMSURE® (1.00456.9026)		180 combi containers e.g. 180 Nitric acid 65 % EMSURE® (1.00456.9180)	
Dispense head (PVDF) for Nitric acid and Sulfuric acid, manual pressure build-up	1.67501.0001	Dispense head (PVDF) for Nitric acid and Sulfuric acid, manual pressure build-up	1.67501.0001
Hand pump ball for withdrawal systems	9.67114.0000	Foot pump ball for dispense heads	1.67502.0001
Dip tube (PVDF) for Nitric acid and Sulfuric acid in 25 I combi containers	1.67527.0001	Dip tube (PVDF) for Nitric acid in 180 l combi containers	1.67585.0001

Withdrawal Systems

for solvent drums



Manual pressure build-up

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of our solvents
- High flexibility due to independence on gas supply
- Suitable for solvents in 10 I and 25 I metal and stainless steel drums



System at a glance Necessary completive 9.67100.1026 Dip tube for 25 I composite drum Order number 1.01114.0001 (steel/PE) products 10 I and 25 I metal and stainless steel drums Suitability Recommended safety Antistatic set (3 cables) 1.07070.0001 1.08803.0001 Operation mode Manual pressure build-up by pump ball products Drum opening key Withdrawal system body with 2" clamp, Dip tube for 10 I drums 9.67100.1012 Set Hand pump ball with rapid action connector, Dip tube for 25 I drums 9.67100.1028 Spare parts components 10 I dip tube, 25 I dip tube Hand pump ball 9.67114.0000

Pressurizing with inert gas [only for stainless steel drums]

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of our solvents

 Construction of a central supply system, direct connection to instruments or individual installations as options



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to avoid tube tensions

Order number Suitability	1.06710.0001 10 I, 25 I and 190 I stainless steel drums		Necessary completive	Dip tube for 10 l stainless steel drums Dip tube for 25 l stainless steel drums Dip tube for 190 l stainless steel drums	9.67100.1010 9.67100.1025 9.67100.1190
Operation mode	Pressurizing with inert gas		products	Stainless steel clamp for filling nozzle attachment to drums	9.67106.0001
•	(house gas / gas bottle)	Recommended	Antistatic set (3 cables)	1.07070.0001	
	Filling nozzle with stainless	ess safety pr	safety products	Drum opening key	1.08803.0001
steel coated, flexible PTFE- 9.67100.9090 Set tube (80 cm)		Filling nozzle with stainless steel coated, flexible PTFE-tube (80 cm)	9.67100.9090		
components	Gas feeding tube 9	.67100.9051	Spare parts	Gas feeding tube	9.67100.9051
	Threaded adapter with 9.67100.9002 vertical connections		Threaded adapter with horizontal connections Threaded adapter with vertical connections	9.67100.9003 9.67100.9002	

Withdrawal Systems

for solvent drums



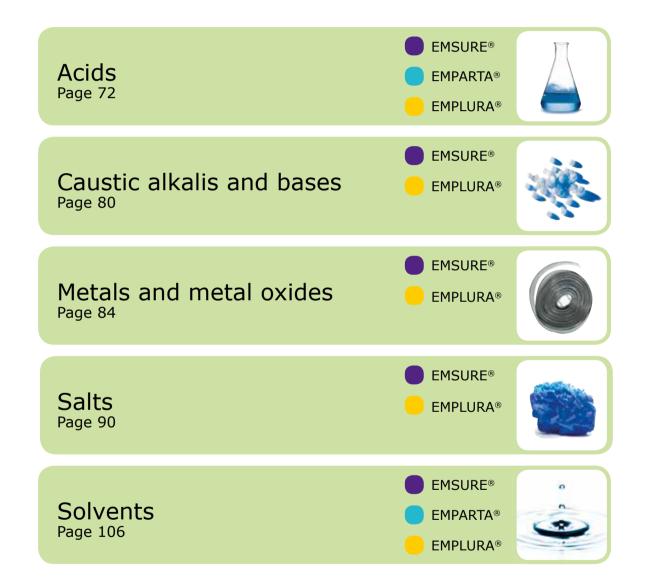
Manual pressure build-up for high volumes

- Safe, easy and convenient solvent handling
- Usage of tested high quality materials to ensure a reliable, contamination free and safe handling of our solvents
- High flexibility due to independence on gas supply



System at a glance				
Order number	1.19171.0001	Necessary completive products	Reducer (PE) from S56 x 4 to 2" thread (for combi drum)	9.67202.0000
Suitability Operation mode	180 / 190 / 200 metal and stainless steel drums Manual pressure build-up by foot pump ball	Recommended safety products	Antistatic set (3 cables) Drum opening key	1.07070.0001 1.08803.0001
Set components	Withdrawal system body with 2" thread Foot nump hall with flexible tube and rapid	Spare parts	-	

Ordering information Inorganics & Solvents



acids



EMSURE® | EMPARTA® | EMPLURA® acids offer the highest possible quality, greatest safety and optimized packaging - for a multitude of analytical applications. Every product undergoes strict quality checks using the most sensitive instruments and methods.

EMSURE® Acids

Premium Grade

▶ For more information please have a look at page 20

EMPARTA® Acids

Standard Grade

▶ For more information please have a look at page 32

EMPLURA® Acids

Basic Grade

▶ For more information please have a look at page 36

Ordering informationAcids

Acids A-B

	Product	CAS No.	Chemical formula		Content	Packaging	Ord. No.
Α	Acetic acid 30 % for analysis EMSURE® Reag. Ph Eur				500 ml	Glass bottle	1.59166.0500
	Acetic acid 60 % EMPLURA®				25 I	PE canister	4.80362.9025
					1 l	Glass bottle	1.00062.1000
				_	1 l	HDPE bottle	1.00062.1011
				_	2.5	Glass bottle	1.00062.2500
	Acetic acid 96 % for analysis EMSURE®			_	2.5	HDPE bottle	1.00062.2511
				_	25 I	PE canister	1.00062.9025
				_	200 I	PE drum	1.00062.9200
				NEW	500 ml	Safebreak bottle	1.00063.0510
				_	1 l	Glass bottle	1.00063.1000
					1 l	Safebreak bottle	1.00063.1010
					1 l	HDPE bottle	1.00063.1011
	Acetic acid (glacial) 100 % anhydrous for analysis EMSURE® ACS, ISO, Reag. Ph Eur	64-19-7	CH₃COOH		2.5	Glass bottle	1.00063.2500
	analysis Erisone Acs, 130, Reag. 111 Eur				2.5	Safebreak bottle	1.00063.2510
					2.5	HDPE bottle	1.00063.2511
					25 I	PE canister	1.00063.9026
					200 l	PE drum	1.00062.9200
	Acetic acid (glacial) 100 % for analysis	64.40.7	CIL COOLI		2.5	HDPE bottle	1.01830.2500
	EMPARTA® ACS	64-19-7	CH₃COOH	NEW	25 I	PE canister	1.01830.9025
	Acetic anhydride for analysis EMSURE® ACS, ISO, Reag. Ph Eur				1 l	Glass bottle	1.00042.1000
		108-24-7	(CH ₃ CO) ₂ O		2.5	Glass bottle	1.00042.2500
					25 I	PE canister	1.00042.9025
	Amidosulfuric acid for analysis EMSURE®	5329-14-6	5 H₂NSO₃H		100 g	HDPE bottle	1.00103.0100
	Annuosullulic acid for allalysis EMSORE-		1121130311		250 g	HDPE bottle	1.00103.0250
	Amidosulfuric acid EMPLURA®	5329-14-6	5 H₂NSO₃H		2.5 kg	HDPE bottle	1.00219.2500
	Amidosdifarie dela Elli Eorea	3323 14 0	1121130311		25 kg	Fibre carton	1.00219.9025
	1/() A 1: :16			_	100 g	HDPE bottle	1.00468.0100
	L(+)-Ascorbic acid for analysis EMSURE® ACS, ISO, Reag. Ph Eur	50-81-7	$C_6H_8O_6$	_	500 g	HDPE bottle	1.00468.0500
					1 kg	HDPE bottle	1.00468.1000
В	Barbituric acid for analysis EMSURE®	67-52-7	$C_4H_4N_2O_3$	_	25 g	HDPE bottle	1.00132.0025
	Surficient dela for dilarysis El ISORE	0, 32 ,			100 g	HDPE bottle	1.00132.0100
				_	100 g	HDPE bottle	1.00136.0100
	Benzoic acid for analysis EMSURE® Reag. Ph Eur	65-85-0	C₅H₅COOH	_	250 g	HDPE bottle	1.00136.0250
	Senzore dela for diratysis Erisorita i Reagi. Fil Edi	03 03 0	G6115C0011	_	1 kg	HDPE bottle	1.00136.1000
					25 kg	Fibre carton	1.00136.9025
					100 g	HDPE bottle	1.00165.0100
					500 g	HDPE bottle	1.00165.0500
	Boric acid for analysis EMSURE® ACS, ISO,	10043-35-	-3 H ₃ BO ₃	_	1 kg	HDPE bottle	1.00165.1000
	Reag. Ph Eur	100.43 33	J 113DO3		5 kg	HDPE bottle	1.00165.5000
					12 kg	PE bucket	1.00165.9012
					25 kg	Fibre carton	1.00165.9025

Acids C-H

	Acido C 11					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
				500 g	HDPE bottle	1.00244.0500
				1 kg	HDPE bottle	1.00244.1000
	Citric acid monohydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	5949-29-1	$C_6H_8O_7 * H_2O$	5 kg	HDPE bottle	1.00244.5000
	, , ,			12 kg	PE bucket	1.00244.9012
				25 kg	Fibre carton	1.00244.9026
	Formic acid 89 – 91 % for analysis EMSURE® ACS			1 l	Glass bottle	1.00253.1000
	Formic acid 90 % for determination of viscosity acc. to DIN EN ISO 307			2.5	Glass bottle	1.10854.2500
				100 ml	Glass bottle	1.00264.0100
				1	Glass bottle	1.00264.1000
	Formic acid 98 – 100 % for analysis EMSURE® ACS, Reag. Ph Eur	64-18-6	НСООН	2.5	Glass bottle	1.00264.2500
				25 I	PE canister	1.00264.9026
				200 I	PE drum	1.00264.9200
	Glycolic acid for analysis EMSURE®	79-14-1	HOCH₂COOH	100 g	HDPE bottle	1.04106.0100
	Hydrobromic acid 47 % for analysis EMSURE® ACS, ISO			1	Glass bottle	1.00307.1000
				500 ml	Glass bottle	1.00304.0500
	Hydrobromic acid 47 % EMPLURA®			2.5	Glass bottle	1.00304.2500
				20 I	Carboy	1.00304.9020
				1	Glass bottle	1.00316.1000
				11	HDPE bottle	1.00316.1011
	Hydrochloric acid 25 % for analysis EMSURE®			2.5	Glass bottle	1.00316.2500
				2.5	HDPE bottle	1.00316.2511
				25 I	PE canister	1.00316.9025
				1	Glass bottle	1.00319.1000
				11	HDPE bottle	1.00319.1011
				2.5	Glass bottle	1.00319.2500
	Hydrochloric acid 32 % for analysis EMSURE®			2.5 l	HDPE bottle	1.00319.2511
				25 I	PE canister	1.00319.9025
				200 I	PE drum	1.00319.9200
				2.5	Glass bottle	1.00313.2500
	Hydrochloric acid 32 % EMPLURA®			25 I	PE canister	1.00313.9025
	i i i i i i i i i i i i i i i i i i i			180 I	PE drum	1.00313.9180
	Hydrochloric acid fuming 37 % for analysis max. 0.001 ppm Hg EMSURE®			2.5	Glass bottle	1.13386.2500
	pp			NEW 500 ml	Safebreak bottle	1.00317.0510
				1	Glass bottle	1.00317.1000
				NEW 1 I	Safebreak bottle	1.00317.1010
				11	HDPE bottle	1.00317.1011
	Hydrochloric acid fuming 37 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur			NEW 2 I	HDPE bottle	1.00317.2011
				2.5	Glass bottle	1.00317.2500
				2.5	Safebreak bottle	1.00317.2510
				25 I	PE canister	1.00317.9026
				200 I	PE drum	1.00317.9200

Ordering informationAcids

Acids H-N

	ACIOS H-IN					
	Product	CAS No.	Chemical formula		Packaging	Ord. No.
Н	Hydrochloric acid fuming 37 % for analysis		N	2	HDPE bottle	1.01834.2011
•	EMPARTA® ACS		_	2.5	Glass bottle	1.01834.2502
			N	25 I	PE canister	1.01834.9025
	Hydrofluoric acid 38 – 40 % EMPLURA®			1	HDPE bottle	1.00337.1000
	.,,			2.5	HDPE bottle	1.00337.2500
	I hadra floration and 40 0/ for a malaria EMCUDE®			500 ml	HDPE bottle	1.00338.0500
	Hydrofluoric acid 40 % for analysis EMSURE® ISO, Reag. Ph Eur			1	HDPE bottle	1.00338.1000
				2.5	HDPE bottle	1.00338.2500
				500 ml	HDPE bottle	1.00334.0500
	Hydrofluoric acid 48 % for analysis EMSURE®			1	HDPE bottle	1.00334.1000
	ACS, ISO, Reag. Ph Eur			2.5	HDPE bottle	1.00334.2500
				5 I	PE canister	1.00334.5000
				250 ml	HDPE bottle	1.07210.0250
	Hydrogen peroxide 30 % (Perhydrol™)			1	HDPE bottle	1.07210.1000
	(stabilized for higher storage temp.) for analysis EMSURE® ISO			2.5 I	HDPE bottle	1.07210.2500
				25 I	PE canister	1.07210.9025
				250 ml	HDPE bottle	1.07209.0250
	Hydrogen peroxide 30 % (Perhydrol™)			500 ml	HDPE bottle	1.07209.0500
	for analysis EMSURE® ISO			1	HDPE bottle	1.07209.1000
				2.5 I	HDPE bottle	1.07209.2500
	Hydrogen peroxide 35 % EMPLURA®			25 I	PE canister	1.08556.9025
	,				Glass bottle	1.00344.0250
	Hydroiodic acid 57 % for analysis EMSURE®			1	Glass bottle	1.00344.1000
					Glass bottle	1.00341.0250
	Hydroiodic acid 57 % EMPLURA®			22 I	Carboy	1.00341.9022
	Hydroiodic acid 67 % for analysis EMSURE®			250 ml	Glass bottle	1.00345.0250
	Hypophosphorous acid 50 % for analysis EMSURE®			500 ml	Glass bottle	1.04633.0500
М	Molybdatophosphoric acid hydrate for analysis	51429-74-4	U [D/Ma O)] * v U O	25 g	Glass bottle	1.00532.0025
	EMSURE® ACS, Reag. Ph Eur	31429-74-4	$H_3[P(Mo_3O_{10})_4] * x H_2O$	100 g	Glass bottle	1.00532.0100
	Molybdic acid about 85 % MoO ₃ (containing ammonium molybdate) EMPLURA®	7782-91-4	H ₂ MoO ₄	1 kg	HDPE bottle	1.00400.1000
N	annionan morphace, Em Eoret			1	Glass bottle	1.00452.1000
	Nitric acid 65 % for analysis (max. 0.005 ppm Hq) EMSURE® ISO			2.5	Glass bottle	1.00452.2500
	(max. 0.003 ppm rig) Embone 150			180 I	PE / Metal drum	1.00452.9180
			N	₩ 500 ml	Safebreak bottle	1.00456.0510
				11	Glass bottle	1.00456.1000
			N	1 l	Safebreak bottle	1.00456.1010
	Nitric acid 65 % for analysis EMSURE® ISO			2.5 l	Glass bottle	1.00456.2500
				2.5 l	Safebreak bottle	1.00456.2510
				25 I	PE / Metal drum	1.00456.9026
				180 l	PE / Metal drum	1.00456.9180
				1 l	Glass bottle	1.00443.1000
	Nitric acid 65 % EMPLURA®			2.5 l	Glass bottle	1.00443.2500
	22.2 33 73 2 25.31			25 I	PE / Metal drum	1.00443.9025
				180 I	PE / Metal drum	1.00443.9180

Acids N-P

	ACIOS N-P	CACAL	Chaminal family		Control	Dealerain	Ond No.
	Product	CAS No.	Chemical formula		Content	Packaging Cafabasala battle	Ord. No.
				NEW		Safebreak bottle	1.01799.0510
					1	Glass bottle	1.01799.1000
	Nitric acid 69 % for analysis EMSURE® ACS,			NEW		Safebreak bottle	1.01799.1010
	Reag. Ph Eur			_	2.5	Glass bottle	1.01799.2500
				_	2.5	Safebreak bottle	1.01799.2510
					180 l	PE / Metal drum	1.01799.9180
	Nitric acid 69 % for analysis EMPARTA® ACS			_	2.5	Glass bottle	1.01832.2500
	<u> </u>			NEW	25 I	PE / Metal drum	1.01832.9025
	Nitric acid fuming 100 % for analysis EMSURE® Reag. Ph Eur	7697-37-2	HNO ₃		1 l	Glass btl. pl. coat.	1.00455.1000
					100 g	HDPE bottle	1.00495.0100
	Oxalic acid dihydrate for analysis EMSURE® ACS,	6152.56.6	(60011) * 3 11 0	_	500 g	HDPE bottle	1.00495.0500
	ISO, Reag. Ph Eur	6153-56-6	(COOH) ₂ * 2 H ₂ O	_	1 kg	HDPE bottle	1.00495.1000
				_	25 kg	Fibre carton	1.00495.9025
					1 kg	HDPE bottle	1.00492.1000
	Oxalic acid dihydrate EMPLURA®	6153-56-6	(COOH) ₂ * 2 H ₂ O	_	5 kg	HDPE bottle	1.00492.5000
				_	50 kg	Fibre carton	1.00492.9050
	5				1	Glass bottle	1.00518.1001
				_	6 x 1 l	Glass bottle	1.00518.1016
	Perchloric acid 60 % for analysis EMSURE® ACS			_	2.5	Glass bottle	1.00518.2501
				_	1 x 2.5 l	Glass bottle	1.00518.2514
	Perchloric acid 70 % for analysis				1	Glass bottle	1.00514.1000
	(max. 0.0000005 % Hg) EMSURE®ACS, ISO, Reag. Ph Eur			_	6 x 1 l	Glass bottle	1.00514.1006
				NEW	500 ml	Safebreak bottle	1.00519.0510
					1	Glass bottle	1.00519.1001
	Perchloric acid 70 – 72 % for analysis EMSURE®			NEW	1	Safebreak bottle	1.00519.1010
	ACS, ISO, Reag. Ph Eur			_	6 x 1 l	Glass bottle	1.00519.1016
				_	2.5	Glass bottle	1.00519.2501
				_	1 x 2.5 l	Glass bottle	1.00519.2514
				_	2.5	Safebreak bottle	1.00519.2510
					25 g	Glass bottle	1.00524.0025
	Periodic acid for analysis EMSURE®	10450-60-9	H ₅ IO ₆	-	100 g	Glass bottle	1.00524.0100
	meta-Phosphoric acid pieces for analysis				100 g	Metal can	1.00546.0100
	(stabilized with sodium metaphosphate) EMSURE®			_	500 g	Metal can	1.00546.0500
				NEW		Safebreak bottle	1.00573.0510
					1	HDPE bottle	1.00573.1000
	ortho-Phosphoric acid 85 % for analysis			_	2.5 l	HDPE bottle	1.00573.2500
	EMSURE® ACS, ISO, Reag. Ph Eur			_	2.5	Safebreak bottle	1.00573.2510
				_	25 I	PE canister	1.00573.9025
					200 I	PE drum	1.00573.9200
	ortho-Phosphoric acid 99 % cryst. for analysis EMSURE®	7664-38-2	H ₃ PO ₄		500 g	HDPE bottle	1.00565.0500

Ordering informationAcids

Acids S-T

	Acido 5 1						
	Product	CAS No.	Chemical formula	Cont	ent	Packaging	Ord. No.
S				250	0 g	HDPE bottle	1.00682.0250
	Succinic acid for analysis EMSURE® ACS	110-15-6	HOOCCH ₂ CH ₂ COOH	500	0 g	HDPE bottle	1.00682.0500
				25	5 kg	Fibre carton	1.00682.9025
	Sulfuric acid 25 % for analysis EMSURE®			1	1 l	HDPE bottle	1.00716.1000
	Sulfuric acid 25 70 for arialysis EPISONE			25	5 I	PE canister	1.00716.9025
	Sulfuric acid 40 % for determination			2.5		Glass bottle	1.09286.2500
	of gas metabolism acc. to knipping				5 I	PE canister	1.09286.9025
	Sulfuric acid 62 % for analysis EMSURE®, for the determination of fat in cheese (d 1.52)				1 I	HDPE bottle	4.80531.1000
	for the determination of fat in theese (d 1.52)			2.5		HDPE bottle	4.80531.2500
	Sulfuric acid 90 – 91 % for gerber fat determina-					Glass bottle	1.00729.0500
	tion and determination of nitrates in milk			2.5		Glass bottle	1.00729.2500
					5 I	PE canister	1.00729.9025
						Safebreak bottle	
	Sulfuric acid 95 – 97 % for analysis (max. 0.005	7664 02 0	11.00		1	Glass bottle	1.00732.1000
	ppm Hg) EMSURE® ACS, ISO, Reag. Ph Eur	7664-93-9	H ₂ SU ₄	2.5		Glass bottle	1.00732.2500
				2.5		Safebreak bottle PE canister	
					5 I		1.00732.9025
					1 I	Safebreak bottle Glass bottle	1.00731.0310
					1 I	Safebreak bottle	
	Sulfuric acid 95 – 97 % for analysis EMSURE® ISO				1 I	HDPE bottle	1.00731.1010
		7664-93-9	н со	2.5		Glass bottle	1.00731.1011
		7004-93-9	112304	2.5		Safebreak bottle	
				2.5		HDPE bottle	1.00731.2510
					5 I	PE canister	1.00731.9025
				200		PE drum	1.00731.9201
		7664-93-9		2.5	5 I	HDPE bottle	1.01833.2500
	Sulfuric acid 95 – 97% for analysis EMPARTA® ACS			NEW 25	5 I	PE canister	1.01833.9025
	Sulfuric acid 96 % for the determination of				1 I	HDPE bottle	1.08131.1000
	viscosity acc. to DIN EN ISO 307	7664-93-9	H ₂ SO ₄	2.5	5 I	HDPE bottle	1.08131.2500
				NEW 500	0 ml	Safebreak bottle	1.12080.0510
				:	1 l	Glass bottle	1.12080.1000
	Sulfuric acid 98 % for analysis EMSURE®	7664-93-9	H ₂ SO ₄	2.5	5 I	Glass bottle	1.12080.2500
				2.5	5 I	Safebreak bottle	1.12080.2510
				25	5 I	PE canister	1.12080.9025
	Culturia anid OO O/ for the debarrate time of the	7664.00.0	11.60	500	0 ml	Glass bottle	1.00748.0500
	Sulfuric acid 98 % for the determination of nitrogen	7664-93-9	H ₂ SU ₄	2.5	5 I	Glass bottle	1.00748.2500
	Sulfuric acid 100 % for conductivity measurements	7664-93-9	H ₂ SO ₄	1	1 l	Glass bottle	1.12223.1000
	Sulfuric acid fuming 65 % SO ₃ EMPLURA®	8014-95-7	H ₂ SO ₄ * SO ₃ (1:2)	1	1 l	Glass btl. pl. coat.	1.00720.1000
				1	1 l	Glass bottle	1.00761.1000
	Sulfurous acid 5 – 6 % SO ₂ for analysis EMSURE®			2.5	5 I	Glass bottle	1.00761.2500
Т				250	0 g	HDPE bottle	1.00804.0250
	L(+)-Tartaric acid for analysis EMSURE® ACS,	07.66.4	HOOCCH(OH)CH(OH)		1 kg	HDPE bottle	1.00804.1000
	ISO, Reag. Ph Eur	87-69-4	COOH		5 kg	HDPE bottle	1.00804.5000
				50	0 kg	Fibre carton	1.00804.9050

Acids T

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Toluene-4-sulfonic acid monohydrate for analysis	6192-52-	-5 CH ₃ C ₆ H ₄ SO ₃ H * H ₂ O	100 g	HDPE bottle	1.09613.0100
EMSURE® ACS	0192-32-	-5 CΠ ₃ C ₆ Π ₄ SO ₃ Π Π ₂ O	500 g	HDPE bottle	1.09613.0500
			100 g	Glass bottle	1.00807.0100
Trichloroacetic acid for analysis EMSURE® ACS, Reag. Ph Eur	76-03-9	CCI ₃ COOH	250 g	Glass bottle	1.00807.0250
			1 kg	Glass bottle	1.00807.1000
Tungstophosphoric acid hydrate for analysis	12501 2	3-4 H ₃ [P(W ₃ O ₁₀) ₄] * x H ₂ O	100 g	HDPE bottle	1.00583.0100
EMSURE®	12301-2.	5-4 11 ₃ [P(W ₃ O ₁₀) ₄] · X 11 ₂ O	250 g	HDPE bottle	1.00583.0250
Tungstophosphoric acid hydrate cryst. EMPLURA®	12501 2	3-4 H ₃ [P(W ₃ O ₁₀) ₄] * x H ₂ O	100 g	HDPE bottle	1.00582.0100
Tungstophosphone acid flydrate cryst. EMPLORA	12301-2.	3-4 Π ₃ [F(W ₃ O ₁₀) ₄] " X Π ₂ O	25 kg	Fibre carton	1.00582.9025
Tungstosilicic acid hydrate for analysis EMSURE®	12027-43	3-9 H ₄ [Si(W ₃ O ₁₀) ₄] * x H ₂ O	100 g	HDPE bottle	1.00659.0100



▶ For more details about our packaging, please see "Packaging and Safe Handling" on page 42

caustic alkalis and bases



EMSURE® | EMPLURA® Our high-quality caustic alkalis and bases are produced using specially selected raw materials. The range includes sodium and potassium hydroxide pellets and corresponding solutions, as well as ammonia solutions in various concentrations and grades. Simply choose the right product for your application.

EMSURE® Caustic alkalis and bases

Premium Grade

▶ For more information please have a look at page 20

EMPLURA® Caustic alkalis and bases

Basic Grade

▶ For more information please have a look at page 36

Ordering information Caustics and bases

Caustics and bases A-S

Ammonia solution 25 % for analysis EMSURE* 1.05432.1000 1.1 HDPE bottle 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2000 1.05432.2005 1		Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Ammonia solution 25 % for analysis EMSURE*	Α				1 l	Glass bottle	1.05432.1000
S HDPE bottle 1.05432.5000					1	HDPE bottle	1.05432.1011
Passium hydroxide pellets for analysis EMSURE* ACS, Reag. Ph Eur 1,05432.9005 1,05423.1000 2,5 1 Glass bottle 1,05426.1000 2,5 1 Glass bottle 1,05033.0500 2,5 1 G		Ammonia solution 25 % for analysis EMSURE®			2.5 I	Glass bottle	1.05432.2500
1 Glass bottle					5 I	HDPE bottle	1.05432.5000
Ammonia solution 28 - 30 % for analysis EMSURE® ACS, Reag. Ph Eur 25 PE canister 1.05423.2005 180 PE / Metal drum 1.05423.3905 180 PE / Metal drum 1.05423.3905 180 PE / Metal drum 1.05423.39180 190 PE / Metal drum 1.05423.39180 190 PE / Metal drum 1.05426.2500 190 Glass bottle 1.05426.2500 190 Glass bottle 1.05426.2500 190 Glass bottle 1.05426.2500 190 Bass bottle 1.05029.1000 190 Bucket 1.05029.1000 190 Bucket 1.05029.9012 190 Bucket 1.05033.0500 190 HDPE bottle 1.05033.0500 190 HDPE bottle 1.05033.1000 190 HDPE bottle 1.05033.0500 190 H					25 I	PE canister	1.05432.9025
Potassium hydroxide pellets for analysis EMSURE* 1310-58-3 KOH 12 kg PE carister 1.05423.9025 180 l PE / Metal drum 1.05423.9180 180 l PE / Metal drum 1.05426.2500 180 l PE /					1	Glass bottle	1.05423.1000
EMSURE® ACS, Reag. Ph Eur 105423,9025 180 PE / Metal drum 1.05423,9025 180 PE / Metal drum 1.05423,9025 180 PE / Metal drum 1.05423,9026 180 PE / Metal drum 1.05426,1000 1		Ammonia solution 28 – 30 % for analysis			2.5	Glass bottle	1.05423.2500
Ammonia solution 32 % EMPLURA* 1.05426.1000 1.05426.2500 1.06498.2500 1					25 I	PE canister	1.05423.9025
Potassium hydroxide pellets for analysis EMSURE* 1310-58-3 KOH 12 kg Pb buttle 1.05029.9000					180 I	PE / Metal drum	1.05423.9180
Part		Ammonia colution 22.9/ EMPLLIDA®			1	Glass bottle	1.05426.1000
Potassium hydroxide pellets for analysis max. 0.05 % Na) EMSURE® ACS, Reag. Ph Eur 1310-58-3 KOH 12 kg PE bucket 1.05029.9050 50 kg Fibre carton 1.05029.9050 1 kg HDPE bottle 1.05033.0500 1 kg HDPE bottle 1.05033.1000 1 kg HDPE bottle 1.05033.1000 1 kg HDPE bottle 1.05033.5000 1 kg HDPE bottle 1.05033.9055 1 kg HDPE bottle 1.05033.9050 1 kg HDPE bottle 1.05031.0000 1 kg HDPE bottle 1.05012.1000 1 kg HDPE bottle 1.05012.5000 1 kg HDPE bottle 1.05012.5000 1 kg HDPE bottle 1.05501.1000 1 kg HDPE bottle 1.05501.1000 1 kg HDPE bottle 1.05545.9025 1 kg HDPE bottle 1.05545.9025 1 kg HDPE bottle 1.06469.1000 1 kg HDPE bottle 1.06469.9050 1 kg HDPE bottle 1.06498.5000		Ammonia solution 32 % EMPLORA®			2.5 I	Glass bottle	1.05426.2500
Max. 0.05 % Na) EMSURE® ACS, Reag. Ph Eur 1310-30-3 KOT 12 kg Fibre carton 1.05029.9050	Р				1 kg	HDPE bottle	1.05029.1000
Potassium hydroxide pellets for analysis EMSURE* 1310-58-3 KOH 100		Potassium hydroxide pellets for analysis max, 0.05 % Na) EMSURE® ACS, Reag, Ph Eur	1310-58-	3 KOH	12 kg	PE bucket	1.05029.9012
1 kg HDPE bottle 1.05033.1000 25 kg HDPE bottle 1.05033.5000 25 kg Fibre carton 1.05033.9025 50 kg Fibre carton 1.05033.9025 50 kg Fibre carton 1.05033.9050 1 kg HDPE bottle 1.05012.1000 1.05012.1000 1 kg HDPE bottle 1.05012.5000 1 kg HDPE bottle 1.05501.0500 1 kg HDPE bottle 1.05545.1000 1 kg HDPE bottle 1.05545.000 1 kg HDPE bottle 1.06469.1000 1 kg HDPE bottle 1.06469.9050 1 kg HDPE bottle 1.06498.5000 1 kg HDPE bottle		, , ,			50 kg	Fibre carton	1.05029.9050
Potassium hydroxide pellets for analysis EMSURE® Potassium hydroxide pellets EMPLURA® 1310-58-3 KOH 5 kg HDPE bottle 1.05033.5000 25 kg Fibre carton 1.05033.9025 50 kg Fibre carton 1.05033.9050 1 kg HDPE bottle 1.05012.1000 1 kg HDPE bottle 1.05012.5000 50 kg Fibre carton 1.05012.9050 1 l HDPE bottle 1.05012.5000 2.5 l HDPE bottle 1.05501.2500 Potassium hydroxide solution 32 % (max. 0.005% Na) for analysis EMSURE® Potassium hydroxide solution 47 % for analysis EMSURE® 1 l HDPE bottle 1.05545.1000 25 l PE canister 1.05545.9025 Sodium hydroxide pellets for analysis (max. 0.02 % K) EMSURE® ACS, ISO, Reag. Ph Eur Sodium hydroxide pellets for analysis EMSURE® ACS, ISO, Reag. Ph Eur 1310-73-2 NaOH 1310-73-2 NaOH 5 kg HDPE bottle 1.06469.9050 1 kg HDPE bottle 1.06498.0500 1 kg HDPE bottle 1.06498.0500 1 kg HDPE bottle 1.06498.0500 25 kg Fibre carton 1.06498.9050 5 kg Fibre carton 1.06498.9050 1 kg HDPE bottle 1.06498.9050					500 g	HDPE bottle	1.05033.0500
25 kg Fibre carton 1.05033.9025		Potassium hydroxide pellets for analysis EMSURE®			1 kg	HDPE bottle	1.05033.1000
S0 kg Fibre carton 1.05033.9050			1310-58-	3 KOH	5 kg	HDPE bottle	1.05033.5000
Potassium hydroxide pellets EMPLURA* 1310-58-3 KOH 5 kg HDPE bottle 1.05012.1000					25 kg	Fibre carton	1.05033.9025
Potassium hydroxide pellets EMPLURA® 1310-58-3 KOH 5 kg HDPE bottle 1.05012.5000					50 kg	Fibre carton	1.05033.9050
So kg Fibre carton 1.05012.9050		Potassium hydroxide pellets EMPLURA®			1 kg	HDPE bottle	1.05012.1000
Potassium hydroxide solution 32 % (max. 0.005% Na) for analysis EMSURE® 1 HDPE bottle 1.05501.2500 Potassium hydroxide solution 47 % for analysis EMSURE® 1 HDPE bottle 1.05545.1000 2.5 PE canister 1.05545.9025 1 kg HDPE bottle 1.06469.1000 Sodium hydroxide pellets for analysis (max. 0.02 % K) EMSURE® ACS, ISO, Reag. Ph Eur 1310-73-2 NaOH 12 kg PE bucket 1.06469.9012 Sodium hydroxide pellets for analysis (max. 0.02 % K) EMSURE® ACS, ISO, Reag. Ph Eur 1310-73-2 NaOH 1 kg HDPE bottle 1.06498.9050 Sodium hydroxide pellets for analysis (max. 0.02 % K) EMSURE® ACS, ISO, Reag. Ph Eur 1310-73-2 NaOH 1 kg HDPE bottle 1.06498.0500 1 kg HDPE bottle 1.06498.9050 1 kg HDPE bottle 1.06498.9050 25 kg Fibre carton 1.06498.9050 25 kg Fibre carton 1.06498.9050 1 kg HDPE bottle 1.06462.1000			1310-58-	3 KOH	5 kg	HDPE bottle	1.05012.5000
Potassium hydroxide solution 47 % for analysis EMSURE® 2.5 HDPE bottle 1.05501.2500					50 kg	Fibre carton	1.05012.9050
2.5 HDPE bottle 1.05501.2500	NEW				1 l	HDPE bottle	1.05501.1000
25 PE canister 1.05545.9025	NE	(max. 0.005% Na) for analysis EMSURE®			2.5	HDPE bottle	1.05501.2500
1 kg HDPE bottle 1.06469.1000					1 l	HDPE bottle	1.05545.1000
Sodium hydroxide pellets for analysis (max. 0.02 % K) EMSURE® ACS, ISO, Reag. Ph Eur 1310-73-2 NaOH 12 kg PE bucket 1.06469.5000 12 kg PE bucket 1.06469.9012 1.06469.9050 1.06469.9050 1.06469.9050 1.06469.9050 1.06498.0500 1.06498.0500 1.06498.1000 1.06462.1000		EMSURE®			25 I	PE canister	1.05545.9025
1310-73-2 NaOH 12 kg PE bucket 1.06469.9012 1.06469.9050 1 kg HDPE bottle 1.06498.0500 1 kg HDPE bottle 1.06498.1000 1.06498.5000 1 kg HDPE bottle 1.06498.5000 1.06498.9025 1.06498.9025 1.06498.9025 1.06498.9025 1.06498.9050 1 kg HDPE bottle 1.06498.9025 1.06498.9025 1.06498.9050 1 kg HDPE bottle 1.06498.9050 1.06498.9050 1 kg HDPE bottle 1.06498.9050 1.06498.9050 1 kg HDPE bottle 1.06498.9050 1 kg HDPE bottle 1.06498.9050 1 kg HDPE bottle 1.06462.1000 1.06462.5000 1 kg HDPE bottle 1.06462.5000 1.06462.5000 1 kg HDPE bottle 1.06462.5000 1.06462.5000 1 kg HDPE bottle 1 kg HDPE bottle 1 kg HDPE bo	S				1 kg	HDPE bottle	1.06469.1000
Ph Eur			1310-73-	.2 NaOH	5 kg	HDPE bottle	1.06469.5000
Sodium hydroxide pellets for analysis EMSURE® ISO 1310-73-2 NaOH 1 kg HDPE bottle 1.06498.0500 1 kg HDPE bottle 1.06498.5000 1 kg HDPE bottle 1.06498.5000 1 kg HDPE bottle 1.06498.9025 1 kg Fibre carton 1.06498.9050 1 kg HDPE bottle 1.06462.1000 1 kg HDPE bottle 1.06462.1000 1 kg HDPE bottle 1.06462.5000 1 kg HDPE bottle 1 k			1310-73-	2 NaOII	12 kg	PE bucket	1.06469.9012
1 kg HDPE bottle					50 kg	Fibre carton	1.06469.9050
1310-73-2 NaOH 5 kg HDPE bottle 1.06498.5000					500 g	HDPE bottle	1.06498.0500
EMSURE® ISO 1310-73-2 NaOH					1 kg	HDPE bottle	1.06498.1000
1.06498.9050 1 kg HDPE bottle 1.06462.1000 5 kg HDPE bottle 1.06462.5000 1.06462.5000 1.06462.5000 1.06462.5000 1.06462.500			1310-73-	2 NaOH	5 kg	HDPE bottle	1.06498.5000
1 kg HDPE bottle 1.06462.1000		2232 100			25 kg	Fibre carton	1.06498.9025
Sodium hydroxide pellets EMPLURA® 1310-73-2 NaOH 5 kg HDPE bottle 1.06462.5000					50 kg	Fibre carton	1.06498.9050
					1 kg	HDPE bottle	1.06462.1000
50 kg Fibre carton 1.06462.9050		Sodium hydroxide pellets EMPLURA®	1310-73-2	2 NaOH	5 kg	HDPE bottle	1.06462.5000
					50 kg	Fibre carton	1.06462.9050

Caustics and bases S-Z

	Caastics and bases 5 Z						
	Product		CAS No.	Chemical formula	Content	Packaging	Ord. No.
S	Codium bydrovide grapulated EMDLIDA®		1310-73-2	NaOH	10 kg	HDPE bottle	1.06467.9010
	Sodium hydroxide granulated EMPLURA®		1310-/3-2	NdUff	50 kg	Fibre carton	1.06467.9050
	Sodium hydroxide solution min. 10 % (1.11)				1 l	HDPE bottle	1.05588.1000
	for analysis EMSURE®				10 l	PE canister	1.05588.9010
	Sodium hydroxide solution 21 % for analysis EMSURE®				25 I	PE canister	1.05593.9025
	Sodium hydroxide solution min. 27 % (1.30)				2.5	HDPE bottle	1.05591.2500
	for analysis (for the determination of nitrogen) EMSURE®				25 I	PE canister	1.05591.9025
NEW	Sodium hydroxide solution about 32 % (max. 0.002 % K) for analysis EMSURE®				1	HDPE bottle	1.05500.1000
NEV					2.5	HDPE bottle	1.05500.2500
	Sodium hydroxide solution about 32 % (for the determination of nitrogen) for analysis EMSURE®				2.5	HDPE bottle	1.05590.2500
					25 I	PE canister	1.05590.9025
					200 I	PE drum	1.05590.9200
					2.5	HDPE bottle	1.05587.2500
	Sodium hydroxide solution about 32 % EMPLURA®				5 I	HDPE bottle	1.05587.5000
	Socialii liyaroxide Solution about 32 % EMPLORA				25 I	PE canister	1.05587.9025
					200 I	PE drum	1.05587.9200
	Sodium hydroxide solution about 36 % for analysis EMSURE®				5 I	HDPE bottle	1.05596.5000
	Sodium hydroxide solution min. 45 %				2.5	HDPE bottle	1.11360.2500
	for analysis EMSURE®				25 I	PE canister	1.11360.9025
					1 l	HDPE bottle	1.58793.1000
	Sodium hydroxide solution 50 % for analysis				5 I	HDPE bottle	1.58793.5000
	EMSURE®				25 I	PE canister	1.58793.9025
					200 l	PE drum	1.58793.9200



► For more details about our packaging, please see "Packaging and Safe Handling" on page 42

metals and metal oxides



EMSURE® | EMPLURA® metal salts, metals and noble metals are renowned for their high quality and purity. We offer a diverse range of products suitable for a multitude of applications in R&D, production and quality control.

EMSURE® Metals and metal oxides

Premium Grade

▶ For more information please have a look at page 20

EMPLURA® Metals and metal oxides

Basic Grade

► For more information please have a look at page 36

Ordering information Metals and metal oxides

Metals and metal oxides A-L

	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Α				250 g	Metal can	1.01056.0250
	Aluminium fine powder, stabilized about 2 % fat	7429-90-5	Al	1 kg	Metal can	1.01056.1000
	Aluminium (foil) for analysis 0.3 mm thickness,			250 g	Fibre case	1.01057.0250
	30 mm width EMSURE®	7429-90-5	Al	1 kg	Plastic bag	1.01057.1000
	Antimo and / III \ ablanida fan analysis EMCUDE® ACC	10025 01 0	ChCl	250 g	Glass bottle	1.07838.0250
	Antimony(III) chloride for analysis EMSURE® ACS	10025-91-9	SDCI ₃	1 kg	Glass bottle	1.07838.1000
	Antimony(III) oxide for analysis EMSURE®	1309-64-4	Sb ₂ O ₃	100 g	HDPE bottle	1.07836.0100
	Andinony(111) oxide for analysis EMSORE	1309-04-4	30 ₂ O ₃	1 kg	HDPE bottle	1.07836.1000
	Antimony(III) oxide EMPLURA®	1309-64-4	Sb ₂ O ₃	2.5 kg	HDPE bottle	1.07835.2500
	Antimony(III) Oxide EMFLORA	1309-04-4	3D ₂ O ₃	50 kg	Fibre carton	1.07835.9050
В	Bismuth(III) oxide EMPLURA®	1304-76-3	Bi ₂ O ₃	1 kg	HDPE bottle	1.01862.1000
	Districtif(III) Oxide EMPLORA	1304-70-3	DI ₂ O ₃	25 kg	Fibre carton	1.01862.9025
С	Cadmium coarse powder, for analysis and for filling reductors particle size about 0.3-1.6 mm	7440-43-9	Cd	250 g	Metal can	1.02001.0250
	EMSURE®	7440-43-9		1 kg	Metal can	1.02001.1000
	Cadmium granular, for analysis particle size about 3 – 6 mm EMSURE®	7440-43-9	Cd	250 g	Metal can	1.02004.0250
	Cesium chloride for analysis EMSURE®	7647-17-8	CsCl	25 g	Glass bottle	1.02038.0025
	Cesium Chloride for analysis EMSORE-	7047 17 0		100 g	HDPE bottle	1.02038.0100
	Cesium chloride EMPLURA®	7647-17-8	CsCl	1 kg	HDPE bottle	1.02041.1000
	Cesium nitrate 99+ for analysis EMSURE®	7789-18-6	CsNO ₃	25 g	Glass bottle	1.02856.0025
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7703 10 0		1 kg	HDPE bottle	1.02856.1000
	Chromium(VI) oxide for analysis EMSURE®	1333-82-0	CrO ₃	250 g	Glass bottle	1.00229.0250
	Copper fine powder particle size < 63 MYm	7440-50-8	Cu	250 g	HDPE bottle	1.02703.0250
	(> 230 mesh ASTM) EMSURE®			1 kg	HDPE bottle	1.02703.1000
	Copper foil about 0.1 mm thickness for analysis EMSURE®	7440-50-8	Cu	250 g	Fibre case	1.02700.0250
	Copper(II) oxide granular for analysis EMSURE®	1317-38-0	CuO	500 g	HDPE bottle	1.02768.0500
	Connec(TI) avide novides for each sie FMCUDE®			100 g	HDPE bottle	1.02766.0100
	Copper(II) oxide powder for analysis EMSURE® ACS	1317-38-0	CuO	500 g	HDPE bottle	1.02766.0500
				25 kg	Fibre carton	1.02766.9025
	Copper(II) oxide powder EMPLURA®	1317-38-0	CuO	500 g	HDPE bottle	1.02761.0500
				25 kg	PE bucket	1.02761.9025
D	Devarda's alloy for analysis EMSURE®	8049-11-4	Cu / Al / Zn	250 g	HDPE bottle	1.05341.0250
				1 kg	HDPE bottle	1.05341.1000
Ι	Iron for analysis reduced, particle size 10 μm	7439-89-6	Fe	100 g	HDPE bottle	1.03819.0100
	EMSURE®			500 g	HDPE bottle	1.03819.0500
L	Lanthanum(III) oxide EMPLURA®	1312-81-8	La ₂ O ₃	100 g	HDPE bottle	1.12220.0100
				500 g	HDPE bottle	1.12220.0500
	Lead foil for analysis about 0.25 mm thick EMSURE®	7439-92-1	Pb	500 g	Plastic bag	1.07365.0500
	Lead(II) oxide for analysis EMSURE®	1317-36-8	PbO	250 g	HDPE bottle	1.07401.0250
		131/-30-6		1 kg	HDPE bottle	1.07401.1000

Metals and metal oxides L-U

	Metals and metal oxides L-U					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
L	Lead(II) oxide EMPLURA®	1317-36-8	PbO	5 kg	HDPE bottle	1.05658.5000
				50 kg	PE drum	1.05658.9050
	Lithium hydroxide 98 % + for analysis EMSURE®	1310-65-2	LiOH	100 g	HDPE bottle	1.05691.0100
				1 kg	HDPE bottle	1.05691.1000
М	Magnesium foil 0.15 – 0.30 mm thickness, 3 mm wide	7439-95-4	Mg	1 roll (~ 25 g)	Fibre case	1.05812.0001
	Magnesium powder particle size about 0.06 – 0.3 mm	7439-95-4	Mg	1 kg	Metal can	1.05815.1000
	Magnesium oxide for analysis	1309-48-4	MgO	100 g	HDPE bottle	1.05866.0100
	(max. 0.001 % SO₄) EMSURE® ACS			500 g	HDPE bottle	1.05866.0500
	Magnesium oxide for analysis EMSURE®	1309-48-4	MgO	100 g	HDPE bottle	1.05865.0100
				500 g	HDPE bottle	1.05865.0500
	Manganese(IV) oxide powder EMPLURA®	1313-13-9	MnO ₂	1 kg	Glass bottle	1.05957.1000
				25 kg	Fibre carton	1.05957.9025
	Molybdenum(VI) oxide for analysis EMSURE®	1313-27-5	MoO ₃	100 g	HDPE bottle	1.00403.0100
				500 g	HDPE bottle	1.00403.0500
Р	Palladium powdered 99+ for analysis EMSURE®	7440-05-3	Pd	1 g	Glass bottle	1.19225.0001
				5 g	Glass bottle	1.19225.0005
	Platinum black 98+ for analysis EMSURE®	7440-06-4	Pt	5 g	Glass bottle	1.19233.0005
				50 g	HDPE bottle	1.19233.0050
R	Rubidium chloride for analysis EMSURE®	7791-11-9	RbCl	25 g	Glass bottle	1.07615.0025
	Ruthenium(III) chloride hydrate for analysis	14898-67-0	RuCl ₃ * x H ₂ O	5 g	Glass bottle	1.19247.0005
	EMSURE®			25 g	Glass bottle	1.19247.0025
S	Selenium black 99+ for analysis EMSURE®	7782-49-2	Se	50 g	HDPE bottle	1.07714.0050
				250 g	HDPE bottle	1.07714.0250
				1 kg	HDPE bottle	1.07714.1000
	Silver chloride 99+ for analysis EMSURE®	7783-90-6	AgCl	25 g	HDPE bottle	1.19203.0025
				100 g	HDPE bottle	1.19203.0100
				1 kg	HDPE bottle	1.19203.1000
	Silver oxide 99+ for analysis EMSURE®	20667-12-3	Ag ₂ O	25 g	HDPE bottle	1.19208.0025
				100 g	HDPE bottle	1.19208.0100
	Sodium rod diameter 2.5 cm (protective liquid: paraffin oil)	7440-23-5	Na	250 g	Glass bottle	1.06260.0250
Т	Tin fine powder EMPLURA® (particle size < 71 μm)	7440-31-5	Sn	250 g	HDPE bottle	1.07807.0250
	Tin foil about 0.04 mm thick	7440-31-5	Sn	200 strips	Plastic box	1.07826.0001
	Tin granulated for analysis (particle size about	7440-31-5	Sn	250 g	HDPE bottle	1.07806.0250
	4 mm) EMSURE® Reag. Ph Eur			1 kg	HDPE bottle	1.07806.1000
	Tin(IV) oxide EMPLURA®	18282-10-5	SnO ₂	250 g	HDPE bottle	1.07818.0250
				25 kg	Fibre carton	1.07818.9025
	Titanium(IV) oxide for analysis EMSURE®	13463-67-7	TiO ₂	1 kg	HDPE bottle	1.00808.1000
	Reag. Ph Eur			25 kg	Fibre carton	1.00808.9025
				50 kg	Fibre carton	1.00808.9050
		-				

Ordering information

Metals and metal oxides

Metals and metal oxides V-Z

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Vanadium()/) oxida EMPLLIDA®	1214 62 1	V 0 -	250 g	HDPE bottle	1.00824.0250
Vanadium(V) oxide EMPLURA®	1314-62-1	V ₂ O ₅	1 kg	HDPE bottle	1.00824.1000
Yttrium oxide 99+ for analysis EMSURE®	1314-36-9	Y_2O_3	25 g	HDPE bottle	1.12412.0025
Zinc dust particle size < 63 µm EMPLURA®	7440-66-6	Zn	1 kg	HDPE bottle	1.08774.1000
Zinc dust particle size < 03 µm EMPLORA	7440-00-0	ZII	50 kg	Steel drum	1.08774.9050
Zinc coarse powder for analysis suitable for filling	7440 66 6	7	250 g	Metal can	1.08756.0250
of reductors, particle size about 0.3–1.5 mm (14–50 mesh ASTM) EMSURE® Reag. Ph Eur	7440-66-6	Zn -	1 kg	Metal can	1.08756.1000
Zinc granular for analysis, particle size about 3 – 8 mm EMSURE® ISO	7440-66-6	Zn -	500 g	HDPE bottle	1.08780.0500
	/440-00-0	ZII	1 kg	HDPE bottle	1.08780.1000
Zinc powder for analysis particle size < 45 MYm	7440-66-6	Zn	500 g	Metal can	1.08789.0500
EMSURE®	7440-00-0		1 kg	Metal can	1.08789.1000
Zinc sticks, triangular cross section about 8 mm for analysis EMSURE®	7440-66-6	Zn	500 g	Plastic bag	1.08782.0500
			500 g	HDPE bottle	1.08849.0500
Zinc oxide for analysis EMSURE® ACS, Reag. Ph Eur	1314-13-2	ZnO	1 kg	HDPE bottle	1.08849.1000
			25 kg	Fibre carton	1.08849.9025
Zirconium(IV) oxide chloride octahydrate for analysis EMSURE®	13520-92-8	ZrOCl ₂ * 8 H ₂ O	100 g	HDPE bottle	1.08917.0100

▶ For more details about our packaging, please see "Packaging and Safe Handling" on page 42



salts



EMSURE® | EMPLURA® Salts. We offer an extensive range of inorganic salts for qualitative and quantitative analysis. Each product is manufactured under strictly controlled conditions at our facilities in Darmstadt, Germany, to ensure outstanding analytical purity.

EMSURE® Salts

Premium Grade

▶ For more information please have a look at page 20

EMPLURA® Salts

Basic Grade

▶ For more information please have a look at page 36

Ordering informationSalts

Salts A

	Salts A					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
	Aluminium ammonium sulfate dodecahydrate for analysis EMSURE® ACS	7784-26-1	NH ₄ Al(SO ₄) ₂ * 12 H ₂ O	500 g	HDPE bottle	1.01031.0500
	Aluminium hydroxide powder EMPLURA®	21645 51 2	AI(OII) * II O	1 kg	HDPE bottle	1.01091.1000
	hydrargillite	21645-51-2	Al(OH) ₃ * x H ₂ O -	50 kg	Fibre carton	1.01091.9050
	Aluminium nitrata nanahudrata far analusia EMCUDE®	7704 27 2	AI(NO.) * 0 H O	500 g	HDPE bottle	1.01063.0500
	Aluminium nitrate nonahydrate for analysis EMSURE®	7704-27-2	AI(NO ₃) ₃ * 9 H ₂ O	50 kg	Fibre carton	1.01063.9050
	Aluminium nitrate nonahydrate EMPLURA®	7704 27 2	AI(NO ₃) ₃ * 9 H ₂ O	1 kg	HDPE bottle	1.01086.1000
	Aluminium mitrate nonanyurate EMPLORA®	7704-27-2	AI(NO ₃) ₃ ** 9 H ₂ O	50 kg	PE canister	1.01086.9050
	Aluminium potassium sulfate dodecahydrate	7794 24 0	KAI(SO ₄) ₂ * 12 H ₂ O	1 kg	HDPE bottle	1.01047.1000
	for analysis EMSURE® ACS, Reag. Ph Eur	7764-24-9	KAI(5O ₄) ₂ ** 12 Π ₂ Ο	25 kg	Fibre carton	1.01047.9025
			_	500 g	HDPE bottle	1.01116.0500
	Ammonium acetate for analysis EMSURE® ACS, Reag. Ph Eur		_	1 kg	HDPE bottle	1.01116.1000
		631-61-8	CH₃COONH₄ -	5 kg	HDPE bottle	1.01116.5000
				12 kg	PE bucket	1.01116.9012
				25 kg	Fibre carton	1.01116.9025
	Ammonium acetate EMPLURA®	621 61 0	CH COONII	1 kg	HDPE bottle	1.01115.1000
		631-61-8	CH ₃ COONH ₄	5 kg	HDPE bottle	1.01115.5000
	Ammonium amidosulfonate for analysis (for detection of sulfonamide in blood) EMSURE® ACS, Reag. Ph Eur	7773-06-0	$H_2NSO_3NH_4$	100 g	HDPE bottle	1.01220.0100
	Ammonium benzoate EMPLURA®	1962 62 4	C ₆ H ₅ COONH ₄	1 kg	HDPE bottle	1.01118.1000
	7.IIIIII SCII 2504CE EI II 2014	1603-03-4	C ₆ H ₅ COONH ₄	50 kg	Fibre carton	1.01118.9050
	Ammonium bromide for analysis EMSURE® ACS	12124-97-9	NH Br	1 kg	HDPE bottle	1.01125.1000
	Animoniani broninae for analysis EMSORE ACS	12124 37 3		25 kg	Fibre carton	1.01125.9025
	Ammonium carbamate for analysis EMSURE®	1111-78-0	H ₂ NCOONH ₄	500 g	HDPE bottle	1.01134.0500
	Ammonium carbonate for analysis EMSURE®	10361-29-2	<u>-</u>	250 g	HDPE bottle	1.59504.0250
	ACS, Reag. Ph Eur	10301 23 2		1 kg	HDPE bottle	1.59504.1000
	Ammonium cerium(IV) nitrate for analysis	16774-21-3	$(NH_4)_2[Ce(NO_3)_6]$	100 g	HDPE bottle	1.02276.0100
	EMSURE® ACS, Reag. Ph Eur	10// 121 3	(11114/2[00(1103/6]	1 kg	HDPE bottle	1.02276.1000
	Ammonium cerium(IV) sulfate dihydrate for analysis EMSURE® ACS	10378-47-9	(NH ₄) ₄ Ce(SO ₄) ₄ * 2 H ₂ O	100 g	HDPE bottle	1.02273.0100
				500 g	HDPE bottle	1.01145.0500
			-	1 kg	HDPE bottle	1.01145.1000
	Ammonium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur	12125-02-9	NH₄CI	5 kg	HDPE bottle	1.01145.5000
			-	25 kg	Fibre carton	1.01145.9025
			<u>-</u>	50 kg	Fibre carton	1.01145.9050
				500 g	HDPE bottle	1.01126.0500
	Ammonium dihydrogen phosphate for analysis EMSURE® ACS, Reag. Ph Eur	7722-76-1	(NH ₄)H ₂ PO ₄	5 kg	HDPE bottle	1.01126.5000
	EMSURE® ACS, Reag. Ph Eur			50 kg	Fibre carton	1.01126.9050
				250 g	HDPE bottle	1.01164.0250
	Ammonium fluoride for analysis EMSURE® ACS	12125-01-8	NH ₄ F	1 kg	HDPE bottle	1.01164.1000
			-	25 kg	Fibre carton	1.01164.9025

Salts A-B

	Suits A B					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
A			_	500 g	HDPE bottle	1.01154.0500
	di-Ammonium hydrogen citrate for analysis EMSURE® ACS, Reag. Ph Eur	3012-65-5	C ₆ H ₈ O ₇ * 2 NH ₃	2.5 kg	HDPE bottle	1.01154.2500
	2.133.12 7.33, 1.0ag. 1.11 2a.			25 kg	Fibre carton	1.01154.9025
				500 g	HDPE bottle	1.01207.0500
	di-Ammonium hydrogen phosphate for analysis EMSURE® ACS, Reag. Ph Eur	7783-28-0	(NH ₄) ₂ HPO ₄	25 kg	Fibre carton	1.01207.9025
	Elisone Acs, Reag. I il Eul		-	50 kg	Fibre carton	1.01207.9050
				500 g	HDPE bottle	1.03776.0500
			-	1 kg	HDPE bottle	1.03776.1000
	Ammonium iron(III) sulfate dodecahydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	7783-83-7	(NH ₄)Fe(SO ₄) ₂ * 12 H ₂ O	5 kg	HDPE bottle	1.03776.5000
	alialysis LMSUKL ACS, 130, Reag. Fil Lui		-	12 kg	PE bucket	1.03776.9012
			-	50 kg	Fibre carton	1.03776.9050
				500 g	HDPE bottle	1.03792.0500
	Ammonium iron(II) sulfate hexahydrate for		-	1 kg	HDPE bottle	1.03792.1000
	analysis EMSURE® ISO	7783-85-9	$(NH_4)_2 Fe(SO_4)_2 * 6 H_2O^{-1}$	5 kg	HDPE bottle	1.03792.5000
			-	50 kg	Fibre carton	1.03792.9050
				500 g	HDPE bottle	1.01188.0500
	Ammonium nitrate for analysis EMSURE® ACS	6484-52-2	NH₄NO₃	1 kg	HDPE bottle	1.01188.1000
	,		-	5 kg	HDPE bottle	1.01188.5000
				1 kg	HDPE bottle	1.01187.1000
	Ammonium nitrate EMPLURA®	6484-52-2	NH ₄ NO ₃	5 kg	HDPE bottle	1.01187.5000
	di-Ammonium oxalate monohydrate for analysis		(NH ₄) ₂ C ₂ O ₄ * H ₂ O -	250 g	HDPE bottle	1.01192.0250
	EMSURE® ACS, ISO, Reag. Ph Eur	6009-70-7		1 kg	HDPE bottle	1.01192.1000
				1 kg	HDPE bottle	1.01190.1000
	di-Ammonium oxalate monohydrate EMPLURA®	6009-70-7	$(NH_4)_2C_2O_4*H_2O$	50 kg	Fibre carton	1.01190.9050
				500 g	HDPE bottle	1.01201.0500
	Ammonium peroxodisulfate for analysis		-	1 kg	HDPE bottle	1.01201.1000
	EMSURE® ACS, Reag. Ph Eur	7727-54-0	$(NH_4)_2S_2O_8$		HDPE bottle	1.01201.5000
			-	12 kg	PE bucket	1.01201.9012
				1 kg		1.01200.1000
	Ammonium peroxodisulfate EMPLURA®	7727-54-0	(NH ₄) ₂ S ₂ O ₈		HDPE bottle	1.01200.5000
			. 7/2 2 0	25 kg	PE bucket	1.01200.9025
				100 g	HDPE bottle	1.01217.0100
			-	1 kg	HDPE bottle	1.01217.1000
	Ammonium sulfate for analysis EMSURE® ACS,	7783-20-2	(NH ₄) ₂ SO ₄	5 kg	HDPE bottle	1.01217.5000
	ISO, Reag. Ph Eur			25 kg	Fibre carton	1.01217.9025
			-	50 kg	Fibre carton	1.01217.9050
	Ammonium this granate for analysis EMCURE®			500 g	HDPE bottle	1.01213.0500
	Ammonium thiocyanate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1762-95-4	NH₄SCN -	25 kg	Fibre carton	1.01213.9025
	Barium acetate for analysis EMSURE® ACS	543-80-6	Ba(CH ₃ COO) ₂	500 g	HDPE bottle	1.01704.0500
	2 2 22222 22 222750 2.10012 7.00		- (37)2	250 g	HDPE bottle	1.01714.0250
	Barium carbonate for analysis EMSURE® ACS,	513-77-9	BaCO _s	<u>-</u>	-	1.01714.1000
	Reag. Ph Eur	313 , , ,				1.01714.1000
		513-77-9	BaCO ₃	1 kg 25 kg	HDPE bottle Fibre carton	

Ordering informationSalts

Salts B-C

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
			500 g	HDPE bottle	1.01719.0500
Barium chloride dihydrate for analysis EMSURE®	10226 27 0	D 01 * 2 ! 0	1 kg	HDPE bottle	1.01719.1000
ACS, ISO, Reag. Ph Eur	r 10326-27-9 BaCl ₂ * 2 H ₂ O atte EMPLURA® 10326-27-9 BaCl ₂ * 2 H ₂ O	BaCl ₂ * 2 H ₂ O	5 kg	HDPE bottle	1.01719.5000
			50 kg	Fibre carton	1.01719.9050
Barium chloride dihydrate EMPLURA®	10326-27-9	BaCl ₂ * 2 H ₂ O	1 kg	HDPE bottle	1.01717.1000
Barium hydroxide octahydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	12230-71-6	Ba(OH) ₂ * 8 H ₂ O	500 g	HDPE bottle	1.01737.0500
Barium hydroxide octahydrate EMPLURA®	12230-71-6	Ba(OH) ₂ * 8 H ₂ O	1 kg	HDPE bottle	1.01735.1000
Barium nitrate for analysis EMSURE® ACS	10022-31-8	Pa(NO.)	500 g	HDPE bottle	1.01729.0500
Bartuiti filtrate for alialysis EMSORE ACS	10022-31-6	Da(NO ₃) ₂	50 kg	Fibre carton	1.01729.9050
Barium perchlorate anhydrous for analysis	12465 05 7	Pa(CIO.)	250 g	Metal can	1.01738.0250
EMSURE®	13465-95-7		1 kg	Metal can	1.01738.1000
Bismuth(III) nitrate alkaline for analysis EMSURE® Reag. Ph Eur	1304-85-4	Bi ₅ O(OH) ₉ (NO ₃) ₄	100 g	HDPE bottle	1.01878.0100
Cadmium acetate dihydrate for analysis EMSURE®	5743-04-4	(CH ₃ COO) ₂ Cd * 2 H ₂ O	500 g	HDPE bottle	1.02003.0500
Cadmium oxide EMPLURA®	1306-19-0	CdO	5 kg	Metal can	1.02015.5000
Cadmium sulfate hydrate for analysis EMSURE® ACS	7790-84-3	3 CdSO ₄ * 8 H ₂ O	100 g	HDPE bottle	1.02027.0100
Calcium carbonate precipitated for analysis EMSURE® Reag. Ph Eur		CaCO ₃	250 g	HDPE bottle	1.02066.0250
	471-34-1		1 kg	HDPE bottle	1.02066.1000
			50 kg	Fibre carton	1.02066.9050
Calcium carbonate precipitated for analysis of silicates EMSURE®	471-34-1	CaCO ₃	500 g	HDPE bottle	1.02067.0500
			250 g	HDPE bottle	1.02382.0250
			500 g	HDPE bottle	1.02382.0500
Calcium chloride dihydrate for analysis EMSURE® ACS, Reag. Ph Eur	10035-04-8	CaCl ₂ * 2 H ₂ O	1 kg	HDPE bottle	1.02382.1000
,g			5 kg	HDPE bottle	1.02382.5000
			25 kg	Fibre carton	1.02382.9025
			500 g	HDPE bottle	1.02047.0500
Calcium hydroxide for analysis EMSURE® ACS, Reag. Ph Eur	1305-62-0	Ca(OH) ₂	1 kg	HDPE bottle	1.02047.1000
			50 kg	Fibre carton	1.02047.9050
			500 g	HDPE bottle	1.02121.0500
Calcium nitrate tetrahydrate for analysis EMSURE® ACS	13477-34-4	Ca(NO ₃) ₂ * 4 H ₂ O	5 kg	HDPE bottle	1.02121.5000
2.133.12 7.33			50 kg	Fibre carton	1.02121.9050
Calcium nitrate tetrahydrate EMPLURA®	13477-34-4	Ca(NO ₃) ₂ * 4 H ₂ O	5 kg	HDPE bottle	1.02120.5000
Calcium sulfate dihydrate precipitated for	10101 11 1	C-CO * 2 !! C	500 g	HDPE bottle	1.02161.0500
analysis EMSURE®	10101-41-4	CaSO₄ * 2 H₂O	25 kg	Fibre carton	1.02161.9025
			25 g	HDPE bottle	1.02274.0025
Cerium(IV) sulfate tetrahydrate for analysis EMSURE®	10294-42-5	Ce(SO ₄) ₂ * 4 H ₂ O	100 g	HDPE bottle	1.02274.0100
anarysis ensures			250 g	HDPE bottle	1.02274.0250
Chromium(III) nitrate nonahydrate for analysis EMSURE®	7789-02-8	Cr(NO ₃) ₃ * 9 H ₂ O	250 g	HDPE bottle	1.02481.0250

Salts C-I

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Chromium(III) potassium sulfate dodecahydrate for analysis EMSURE® ACS, Reag. Ph Eur	7788-99-0	KCr(SO ₄) ₂ * 12 H ₂ O	250 g	HDPE bottle	1.01036.0250
Cobalt(II) acetate tetrahydrate for analysis EMSURE® ACS	6147-53-1	(CH ₃ COO) ₂ Co * 4 H ₂ O	100 g	HDPE bottle	1.02529.0100
Cobalt(II) chloride hexahydrate for analysis	7701 12 1	CoCl * 6 H O	100 g	HDPE bottle	1.02539.0100
EMSURE® ACS, Reag. Ph Eur	7/91-13-1		250 g	HDPE bottle	1.02539.0250
Cobalt(II) nitrate hexahydrate for analysis	10026 22 0	Co(NO) * 6 H O	50 g	HDPE bottle	1.02554.0050
(max. 0.001 % Ni) EMSURE® ACS, Reag. Ph Eur	10020-22-9	CO(NO ₃) ₂ · O II ₂ O	250 g	HDPE bottle	1.02554.0250
Cobalt(II) nitrate hexahydrate for analysis	10026-22-0	Co(NO) * 6 H O	100 g	HDPE bottle	1.02536.0100
EMSURE®	10020-22-9	CO(NO ₃) ₂ · O H ₂ O	250 g	HDPE bottle	1.02536.0250
Cobalt(II) sulfate heptahydrate for analysis	10026-24-1	CoSO * 7 H O	100 g	HDPE bottle	1.02556.0100
EMSURE®	10020-24-1	C030 ₄ 7 H ₂ O	250 g	HDPE bottle	1.02556.0250
Copper(II) acetate monohydrate for analysis	6046-03-1	(CH COO) Cu * H O	250 g	HDPE bottle	1.02711.0250
EMSURÉ® ACS	0040-33-1	(Cri ₃ COO _{J2} Cu · ri ₂ O	25 kg	Fibre carton	1.02711.9025
Copper(II) acetate monohydrate cryst.	6046 02 1	(CH COO) Cu * H O	500 g	HDPE bottle	1.02710.0500
EMPLURA®	0040-33-1	(Ci I ₃ COO _{J2} Cu ··· П ₂ O	50 kg	Fibre carton	1.02710.9050
Conner(I) chloride for analysis EMSLIDE® ACS	7750 00 6	CuCl	250 g	HDPE bottle	1.02739.0250
Copper(1) Chloride for analysis EMSORE® ACS	7736-69-0	Cuci	25 kg	Fibre carton	1.02739.9025
Copper(II) chloride dihydrate for analysis	1012F 12 0 CuCl		250 g	HDPE bottle	1.02733.0250
EMSURE® ACS, Reag. Ph Eur	10125-15-0	CuCl ₂ 2 H ₂ O	1 kg	HDPE bottle	1.02733.1000
		3 Cu(NO ₃) ₂ * 3 H ₂ O	250 g	HDPE bottle	1.02753.0250
Copper(II) nitrate trihydrate for analysis EMSURE®	10031-43-3 Cu		1 kg	HDPE bottle	1.02753.1000
			25 kg	Fibre carton	1.02753.9025
Copper(II) sulfate anhydrous for analysis	7758-98-7	CuSO	250 g	HDPE bottle	1.02791.0250
EMSURE®	7730 30 7		1 kg	HDPE bottle	1.02791.1000
			250 g	HDPE bottle	1.02790.0250
Copper(II) sulfate pentahydrate for analysis	7758-99-8	CuSO. * 5 H ₂ O	1 kg	HDPE bottle	1.02790.1000
EMSURE® ACS, ISO, Reag. Ph Eur	7730 33 0		5 kg	HDPE bottle	1.02790.5000
			50 kg	Fibre carton	1.02790.9050
			250 g	HDPE bottle	1.03943.0250
EMSURE® ACS, Reag. Ph Eur	10025-77-1	FeCl ₃ * 6 H ₂ O	1 kg	HDPE bottle	1.03943.1000
			25 kg	PE drum	1.03943.9025
Iron(III) chloride solution (10 % Fe) for analysis EMSURE®			250 ml	HDPE bottle	1.05512.0250
			250 g	HDPE bottle	1.03861.0250
Iron(II) chloride tetrahydrate for analysis EMSURE®	13478-10-9	FeCl ₂ * 4 H ₂ O	1 kg	HDPE bottle	1.03861.1000
,			50 kg	PE drum	1.03861.9050
Iron(III) nitrate nonahydrate for analysis	7792 61 0	E ₀ (NO) * 0 !! 0	250 g	HDPE bottle	1.03883.0250
EMSÙRÉ® ACS, Reag. Ph Eur	//82-61-8	re(NO ₃) ₃ ™ 9 H ₂ O	1 kg	HDPE bottle	1.03883.1000
Iron(III) phosphate for analysis calcined (max. 0.001 % SO ₄) EMSURE®	10045-86-0	FePO ₄	500 g	HDPE bottle	1.03935.0500
	Cobalt(II) potassium sulfate dodecahydrate for analysis EMSURE® ACS, Reag. Ph Eur Cobalt(II) acetate tetrahydrate for analysis EMSURE® ACS Cobalt(II) chloride hexahydrate for analysis EMSURE® ACS, Reag. Ph Eur Cobalt(II) nitrate hexahydrate for analysis (max. 0.001 % Ni) EMSURE® ACS, Reag. Ph Eur Cobalt(II) nitrate hexahydrate for analysis EMSURE® Cobalt(II) sulfate heptahydrate for analysis EMSURE® Copper(II) acetate monohydrate for analysis EMSURE® ACS Copper(II) acetate monohydrate cryst. EMPLURA® Copper(II) chloride for analysis EMSURE® ACS Copper(II) chloride dihydrate for analysis EMSURE® ACS, Reag. Ph Eur Copper(II) nitrate trihydrate for analysis EMSURE® Copper(II) sulfate anhydrous for analysis EMSURE® Copper(II) sulfate pentahydrate for analysis EMSURE® Copper(II) sulfate pentahydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Iron(III) chloride hexahydrate for analysis EMSURE® ACS, Reag. Ph Eur Iron(III) chloride solution (10 % Fe) for analysis EMSURE® Iron(III) chloride tetrahydrate for analysis EMSURE® Iron(III) chloride tetrahydrate for analysis EMSURE® Iron(III) nitrate nonahydrate for analysis EMSURE® Iron(III) phosphate for analysis calcined	Chromium(III) potassium sulfate dodecahydrate for analysis EMSURE® ACS, Reag. Ph Eur Cobalt(II) acetate tetrahydrate for analysis EMSURE® ACS, Reag. Ph Eur Cobalt(II) chloride hexahydrate for analysis (max. 0.001 % Ni) EMSURE® ACS, Reag. Ph Eur Cobalt(II) nitrate hexahydrate for analysis (max. 0.001 % Ni) EMSURE® ACS, Reag. Ph Eur Cobalt(II) nitrate hexahydrate for analysis EMSURE® Cobalt(II) sulfate heptahydrate for analysis EMSURE® Cobalt(II) sulfate heptahydrate for analysis EMSURE® Copper(II) acetate monohydrate for analysis EMSURE® ACS Copper(II) acetate monohydrate cryst. EMPLURA® Copper(II) chloride for analysis EMSURE® ACS Copper(II) chloride dihydrate for analysis EMSURE® ACS, Reag. 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Ph Eur Iron(III) chloride solution (10 % Fe) for analysis EMSURE® Iron(III) chloride tetrahydrate for analysis EMSURE® Iron(III) chloride tetrahydrate for analysis EMSURE® Iron(III) chloride tetrahydrate for analysis EMSURE® ACS, Reag. Ph Eur Iron(III) phosphate for analysis calcined Iron(III) phosphate for analysis calcined	Chromium(III) potassium sulfate dodecahydrate for analysis EMSURE® ACS, Reag. Ph Eur 7788-99-0 KCr(SO,);** 12 H₂O 250 g Cobalt(II) cacetate tetrahydrate for analysis EMSURE® ACS, Reag. Ph Eur 6147-53-1 (CH,COO);Co * 4 H₂O 100 g Cobalt(II) chloride hexahydrate for analysis EMSURE® ACS, Reag. Ph Eur 7791-13-1 CoCl, * 6 H₂O 100 g Cobalt(II) nitrate hexahydrate for analysis (max. 0.001 % Ni) EMSURE® ACS, Reag. Ph Eur 10026-22-9 Co(NO,); * 6 H₂O 250 g Cobalt(II) sulfate hexahydrate for analysis EMSURE® ACS, Reag. Ph Eur 10026-22-9 Co(NO,); * 6 H₂O 100 g Cobalt(III) sulfate heptahydrate for analysis EMSURE® ACS 10026-22-9 Co(NO,); * 6 H₂O 100 g Copper(II) acetate monohydrate for analysis EMSURE® ACS 10026-22-9 Co(NO,); * 6 H₂O 250 g Copper(II) acetate monohydrate cryst. EMPLURA® 6046-93-1 (CH,COO); Cu * H₂O 250 g Copper(II) chloride for analysis EMSURE® ACS 7758-89-6 CuCl 25 kg Copper(II) chloride dihydrate for analysis EMSURE® ACS, Reag. Ph Eur 10031-43-3 Cu(NO,); * 3 H₂O 1 kg Copper(II) sulfate anhydrous for analysis EMSURE® ACS, Reag. Ph Eur 7758-98-7 CuSO, * 5 H₂O 1 kg	Chromium(III) potassium sulfate dodecaryorate for analysis EMSURE® ACS, Reag. Ph Eur

Ordering informationSalts

Salts I-M

	Saits 1-M					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
				100 g	HDPE bottle	1.03965.0100
	Iron(II) sulfate heptahydrate for analysis			500 g	HDPE bottle	1.03965.0500
	EMSURE® ACS, ISO, Reag. Ph Eur	7782-63-0	FeSO ₄ * 7 H ₂ O	1 kg	HDPE bottle	1.03965.1000
		ACS 598-63-0 PbCO ₃ the 51404-69-4 (CH ₃ COO) ₂ Pb * — Pb(OH) ₂	5 kg	HDPE bottle	1.03965.5000	
_				25 kg	PE drum	1.03965.9025
	Lead(II) acetate trihydrate for analysis EMSURE®	6080-56-4	(CH COO) Ph * 3 H O	250 g	HDPE bottle	1.07375.0250
_	ACS, Reag. Ph Eur	0000 30 4	(6113600)21 10 3 1120	1 kg	HDPE bottle	1.07375.1000
_	Lead(II) carbonate for analysis EMSURE® ACS	598-63-0	PbCO ₃	250 g	HDPE bottle	1.07381.0250
	Lead(II) hydroxide acetate anhydrous for the	51404-69-4	(CH ₃ COO) ₂ Pb *	1 kg	HDPE bottle	1.07414.1000
_	analysis of sugar acc. to Horne EMSURE®	31404 03 4	Pb(OH) ₂	30 kg	Fibre carton	1.07414.9030
	Lead(II) nitrate for analysis EMSURE® ACS,	10000 74 8	Dh(NO)	100 g	HDPE bottle	1.07398.0100
_	Reag. Ph Eur	10099-74-6	PD(NO ₃) ₂	1 kg	HDPE bottle	1.07398.1000
	Lithium carbonate for analysis EMSURE® ACS, Reag. Ph Eur	554-13-2	Li ₂ CO ₃	250 g	HDPE bottle	1.05680.0250
_	Lithium carbonate EMPLURA®	554-13-2	Li ₂ CO ₃	50 kg	Fibre carton	1.05670.9050
				100 g	HDPE bottle	1.05679.0100
	Lithium chloride for analysis EMSURE® ACS, Reag. Ph Eur	7447-41-8	LiCl	250 g	HDPE bottle	1.05679.0250
_			N	12 kg	PE bucket	1.05679.9012
	Lithium sulfate monohydrate for analysis EMSURE® ACS, Reag. Ph Eur	10102-25-7	Li ₂ SO ₄ * H ₂ O	250 g	HDPE bottle	1.05694.0250
1				250 g	HDPE bottle	1.05819.0250
	Magnesium acetate tetrahydrate for analysis EMSURE® ACS, Reag. Ph Eur	250 16674-78-5 (CH ₃ COO) ₂ Mg * 4 H ₂ O 1	1 kg	HDPE bottle	1.05819.1000	
_				50 kg	Fibre carton	1.05819.9050
				250 g	HDPE bottle	1.05833.0250
	Magnesium chloride hexahydrate for analysis	7701 10 6	MacL * C II O	1 kg	HDPE bottle	1.05833.1000
	EMSURE® ACS, ISO, Reag. Ph Eur	7791-18-6	$MgCl_2 * 6 H_2O$	5 kg	HDPE bottle	1.05833.5000
				25 kg	Fibre carton	1.05833.9025
_	Magnesium hydroxide carbonate for analysis	12125 20.0	~ 4 MgCO ₃ * Mg(OH)	250 g	HDPE bottle	1.05827.0250
	EMSURE®	12125-28-9	* 5 H₂O	25 kg	Fibre carton	1.05827.9025
_	Magnesium nitrate hexahydrate for analysis	12446 10.0	Ma(NO) * C !! O	500 g	HDPE bottle	1.05853.0500
	EMSURE® ACS, Reag. Ph Eur	13446-18-9	$Mg(NO_3)_2 * 6 H_2O$	25 kg	PE drum	1.05853.9025
	Magnesium perchlorate hydrate [about 83 %	C4010 43 3	M=(CIO.) * :: !! O	100 g	Metal can	1.05874.0100
	Mg(ClO₄)₂] for analysis EMSURE®	64010-42-0	$Mg(ClO_4)_2 * x H_2O$	500 g	Metal can	1.05874.0500
_	Magnesium sulfate anhydrous for analysis	7407.00.0	M-CO	1 kg	Glass bottle	1.06067.1000
	EMSURE®	7487-88-9	MgSO₄	25 kg	PE drum	1.06067.9025
_				500 g	HDPE bottle	1.05886.0500
		4005 1 55 5		1 kg	HDPE bottle	1.05886.1000
	Magnesium sulfate heptahydrate for analysis	10034-99-8	MgSO ₄ * 7 H ₂ O	E I	HDPE bottle	1.05886.5000
	Magnesium sulfate heptahydrate for analysis EMSURE® ACS, Reag. Ph Eur	10034-99-8	3	5 kg	TIDI L DOLLIC	2.00000.000
		10034-99-8		5 kg 50 kg	Fibre carton	1.05886.9050
_			MnCl, * 2 H ₂ O			

Salts M-N

	Saits M-IV					
	Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
М	Manganese(II) chloride tetrahydrate for analysis	13446-34-0	MnCl ₂ * 4 H ₂ O	100 g	HDPE bottle	1.05927.0100
	EMSURE® ACS	13440 34 3	1111Cl ₂ 4 11 ₂ O	1 kg	HDPE bottle	1.05927.1000
				500 g	HDPE bottle	1.05940.0500
	Manganese(II) nitrate tetrahydrate for analysis EMSURE®	20694-39-7	$Mn(NO_3)_2 * 4 H_2O$	1 kg	HDPE bottle	1.05940.1000
				25 kg	Metal drum	1.05940.9025
	Manganese(II) sulfate monohydrate spray-dried	10024 06 5	MnSO ₄ * H ₂ O	250 g	HDPE bottle	1.05941.0250
	for analysis EMSURE® ACS, Reag. Ph Eur	10034-90-3	MII3O ₄ · H ₂ O	25 kg	Fibre carton	1.05941.9025
	Manganese(II) sulfate tetrahydrate for analysis	10101 60 E	MnSO ₄ * 4 H ₂ O	1 kg	HDPE bottle	1.02786.1000
	EMSURE®	10101-08-3	MII3O ₄ · 4 II ₂ O	25 kg	Fibre carton	1.02786.9025
	Mercury for analysis and for polarography	7439-97-6	Ца.	250 g	HDPE bottle	1.04403.0250
	EMSURE®	7439-97-0	Hg	1 kg	HDPE bottle	1.04403.1000
	Mayayay FMDI I DA®	7420 07 6	lle.	250 g	HDPE bottle	1.04401.0250
	Mercury EMPLURA®	7439-97-6	Hg	1 kg	HDPE bottle	1.04401.1000
	Mercury(II) acetate for analysis EMSURE® ACS,	1600-27-7	Ha(CH COO)	50 g	HDPE bottle	1.04410.0050
	Reag. Ph Eur	1600-27-7	Hg(CH ₃ COO) ₂	250 g	HDPE bottle	1.04410.0250
	Mercury(II) bromide for analysis EMSURE® ACS,	7700 47 1	H-D.	50 g	HDPE bottle	1.04421.0050
	Reag. Ph Eur	7789-47-1	HgBr ₂	250 g	HDPE bottle	1.04421.0250
				50 g	HDPE bottle	1.04419.0050
	Mercury(II) chloride for analysis EMSURE® Reag. Ph Eur, ACS	7487-94-7 H	HgCl ₂	250 g	HDPE bottle	1.04419.0250
	THE Edit, ACS			1 kg	HDPE bottle	1.04419.1000
	Mercury(II) chloride EMPLURA® fine cryst.	7487-94-7	HgCl ₂	100 g	HDPE bottle	1.04417.0100
	Mercury(II) iodide red, for analysis EMSURE®	7774 20 0		50 g	HDPE bottle	1.04428.0050
	ACS, Reag. Ph Eur	7774-29-0	HgI_2	250 g	HDPE bottle	1.04428.0250
	Manager (III) is did a used EMDILIDA®	7774 20 0	II-T	100 g	HDPE bottle	1.04420.0100
	Mercury(II) iodide red EMPLURA®	7774-29-0	HgI_2	1 kg	HDPE bottle	1.04420.1000
	Mercury(II) nitrate monohydrate for analysis	7702 24 0	(NO.) # O	50 g	HDPE bottle	1.04439.0050
	EMSURÉ® ÁCS, Reag. Ph Eur	7783-34-8	$Hg(NO_3)_2 * H_2O$	250 g	HDPE bottle	1.04439.0250
	Manager (TI) aside and for each size EMCUDE®	21000 52 2	11-0	50 g	HDPE bottle	1.04466.0050
	Mercury(II) oxide red, for analysis EMSURE®	21908-53-2	ндО	250 g	HDPE bottle	1.04466.0250
	M (TT)	7702.25.0		50 g	HDPE bottle	1.04480.0050
	Mercury(II) sulfate for analysis EMSURE® ACS	7783-35-9	HgSO₄	250 g	HDPE bottle	1.04480.0250
				100 g	HDPE bottle	1.04481.0100
	Mercury(II) sulfate EMPLURA®	7783-35-9	HgSO₄	250 g	HDPE bottle	1.04481.0250
				1 kg	HDPE bottle	1.04481.1000
	Mercury(II) thiocyanate for analysis EMSURE®	502.65.6	II. (CCN)	25 g	HDPE bottle	1.04484.0025
	Reag. Ph Eur	592-85-8	Hg(SCN)₂	100 g	HDPE bottle	1.04484.0100
V	Nickel(II) chloride hexahydrate for analysis			250 g	HDPE bottle	1.06717.0250
	EMSURE® ACS	7791-20-0	NiCl ₂ * 6 H ₂ O	1 kg	HDPE bottle	1.06717.1000
				100 g	HDPE bottle	1.06721.0100
	Nickel(II) nitrate hexahydrate for analysis	13478-00-7	Ni(NO ₃) ₂ * 6 H ₂ O	250 g	HDPE bottle	1.06721.0250
	EMSURE® ACS					

Ordering informationSalts

Salts N-P

Product		aits IV-F					
Nicole N	Pr	oduct	CAS No.	Chemical formula	Content	Packaging	Ord. No.
Potassium chromate for analysis EMSURE* 284-08-7 K,CO2 1 kg HDPE bottle 1.06922.1000				_	100 g	HDPE bottle	1.06727.0100
Protassium antimony(III) oxide tartrate trihydrate EMPLURA* Potassium bromate for analysis EMSURE* Reag. Ph Eur Potassium chromate for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* Reag. Ph Eur Potassium chloride for analysis EMSURE* Reag. Ph Eur Sali-04-9 Potassium chloride for analysis EMSURE* Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur Potassium chloride for analysis EMSURE* ACS, ISO, Reag. Ph Eur ACS, ISO, Reag. Ph Eur Potassium chromate for analysis EMSURE* ACS, ISO, Reag. Ph Eur ACS, ISO, Reag. Ph Eur Potassium chromate for analysis EMSURE* ACS, ISO, Reag. Ph Eur ACS, IS			10101-97-0	NiSO ₄ * 6 H ₂ O	250 g	HDPE bottle	1.06727.0250
28300-74-5 K_(SDO)_CH_O_n * 3 H_O					1 kg	HDPE bottle	1.06727.1000
1 kg HDPE bottle 1.06092,1000	Po	otassium antimony(III) oxide tartrate	20200 74 5	N (CPU) C H U	250 g	HDPE bottle	1.08092.0250
Potassium chloride for analysis EMSURE® 7758-01-2 KBrO, 250 g Metal can 1.04912.0250	tri	hydrate EMPLURA®	26300-74-3	K ₂ (3DO) ₂ C ₈ H ₄ O ₁₀ · 3 H ₂ O	1 kg	HDPE bottle	1.08092.1000
Potassium chloride for analysis (≤ 0.005 % Br) EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur Futassium c				_	100 g	Metal can	1.04912.0100
Potassium bromide for analysis (max. 0.00001% Hg) EMSURE*ACS, Reag. Ph Eur 7758-02-3 KBr 500 g HDPE bottle 1.04905.0500			7758-01-2	KBrO ₃	250 g	Metal can	1.04912.0250
Potassium chloride for analysis EMSURE® 7447-40-7 KCl 1 kg HDPE bottle 1.04936.0500		-			25 kg	Metal drum	1.04912.9025
Potassium chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur S84-08-7 K,CO3 1 kg HDPE bottle 1.04928.1000			7758-02-3	KBr	500 g	HDPE bottle	1.04905.0500
ACS, ISO, Reag. Ph Eur 50 kg Fibre carton 1.04928.1050					500 g	HDPE bottle	1.04928.0500
Potassium chlorate for analysis EMSURE® Reag. Ph Eur A47-40-7 KCl 100 g Metal can 1.04928.9050			3811-04-9 KCIO ₃ 7447-40-7 KCI	1 kg	HDPE bottle	1.04928.1000	
Reag. Ph Eur Story	, , ,	25, 155, Reag. 1 11 Ear		-	50 kg	Fibre carton	1.04928.9050
Reag. Ph Eur S811-04-9 KCUs S00 g Metal can 1.04944.0500	Po	otassium chlorate for analysis EMSURE®	2011 04 0	VCIO.	100 g	Metal can	1.04944.0100
Target T			3811-04-9	KCIO ₃	500 g	Metal can	1.04944.0500
Potassium chromate for analysis EMSURE®	Po	otassium chloride for analysis (≤ 0.005 % Br)	7447 40 7	I/Cl	500 g	HDPE bottle	1.04933.0500
Potassium chloride for analysis EMSURE® 7447-40-7 KCl 1 kg HDPE bottle 1.04936.0500			/44/-40-/	KCI -	25 kg	Fibre carton	1.04933.9025
Potassium chloride for analysis EMSURE® 7447-40-7 KCI 1 kg HDPE bottle 1.04936.1000 1.04936.5000 Potassium chromate for analysis EMSURE® ACS, Reag. Ph Eur 7789-00-6 K₂CrO₄ 250 g HDPE bottle 1.04952.0250 1.04936.9050 Potassium cyanide for analysis EMSURE® ACS, ISO, Reag. Ph Eur 151-50-8 KCN 250 g HDPE bottle 1.04967.0100 1.04967.0100 Potassium cyanide EMPLURA® 151-50-8 KCN 250 g HDPE bottle 1.04967.0000 1.04967.0000 Potassium dichromate for analysis (max. 0.000001 % Hg) EMSURE® ACS, ISO 7778-50-9 K₂Cr₂O₂ 500 g Glass bottle 1.04865.0500 1.04865.0500 Potassium dihydrogen phosphate for analysis (≤ 0.005 % Na) EMSURE® ACS, ISO, Reag. Ph Eur 7778-77-0 KH₂PO₄ 1 kg HDPE bottle 1.04877.1000 1.04877.000 Potassium dihydrogen phosphate for analysis (≤ 1.04877.9012 25 kg Fibre carton 1.04877.9012 1.04877.9012 25 kg Fibre carton 1.04877.9025 Potassium dihydrogen phosphate for analysis (≤ 1.04877.9025 7778-77-0 KH₂PO₄ 5 kg HDPE bottle 1.04873.1000 1.04877.9025 Potassium dihydrogen phosphate for analysis (≤ 1.04873.1000 7778-77-0 KH₂PO₄ 5 kg HDPE bottle 1.04873.5000 1.04873.5000				_	250 g	HDPE bottle	1.04936.0250
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				-	500 g	HDPE bottle	1.04936.0500
Potassium chromate for analysis EMSURE® ACS, Reag. Ph Eur	Po	otassium chloride for analysis EMSURE®	7447-40-7	KCI	1 kg	HDPE bottle	1.04936.1000
Potassium chromate for analysis EMSURE® ACS, Reag. Ph Eur $P_{100} = P_{100} = P_{10$				-	5 kg	HDPE bottle	1.04936.5000
ACS, Reag. Ph Eur 7789-00-6 K₂CrO₄ $\frac{1 \text{ kg}}{100 \text{ g}}$ HDPE bottle $\frac{1.04952.1000}{1.04967.0100}$ Potassium cyanide for analysis EMSURE® ACS, ISO, Reag. Ph Eur $\frac{151-50-8}{151-50-8}$ KCN $\frac{250 \text{ g}}{100 \text{ g}}$ HDPE bottle $\frac{1.04967.0100}{1.04967.0250}$ RCN, ISO, Reag. Ph Eur $\frac{151-50-8}{151-50-8}$ KCN $\frac{1 \text{ kg}}{100 \text{ g}}$ HDPE bottle $\frac{1.04967.0100}{1.04967.1000}$ Potassium dichromate for analysis (max. 0.000001 % Hg) EMSURE® ACS, ISO $\frac{1}{151-50-8}$ KCN $\frac{1}{151-50-$					50 kg	Fibre carton	1.04936.9050
ACS, Reag. PH EUF Potassium cyanide for analysis EMSURE® ACS, ISO, Reag. Ph Eur 151-50-8 KCN 151-50-8 KCN 250 g HDPE bottle 1.04967.0100 Potassium cyanide EMPLURA® 151-50-8 KCN 1 kg HDPE bottle 1.04967.1000 Potassium dichromate for analysis (max. 0.000001 % Hg) EMSURE® ACS, ISO Potassium dichromate for analysis EMSURE® ACS, ISO Potassium dichromate for analysis EMSURE® ACS, ISO Potassium dichromate for analysis EMSURE® ACS, ISO Rotassium dichromate for analysis EMSURE® ACS, ISO Potassium dihydrogen phosphate for analysis (≤ 0.005 % Na) EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ISO RH₂PO₄ S kg HDPE bottle 1.04873.1000 Potassium dihydrogen phosphate for analysis EMSURE® ISO	Po	otassium chromate for analysis EMSURE®	7790 00 6	K C-0	250 g	HDPE bottle	1.04952.0250
Potassium cyanide for analysis EMSURE® ACS, ISO, Reag. Ph Eur $151-50-8$ KCN 250 g HDPE bottle $1.04967.0250$ ACS, ISO, Reag. Ph Eur $151-50-8$ KCN 1 kg HDPE bottle $1.04967.1000$ Potassium cyanide EMPLURA® $151-50-8$ KCN 1 kg HDPE bottle $1.04967.1000$ Potassium dichromate for analysis (max. 0.000001 % Hg) EMSURE® ACS, ISO $1000000000000000000000000000000000000$			7789-00-6	K ₂ CrO ₄	1 kg	HDPE bottle	1.04952.1000
ACS, ISO, Reag. Ph Eur 151-50-8 KCN 250 g HDPE bottle 1.04967.1000				_	100 g	HDPE bottle	1.04967.0100
Potassium dichromate for analysis (max. 0.000001 % Hg) EMSURE® ACS, ISO $\frac{1 \text{ kg}}{2000} = 1000000000000000000000000000000000000$			151-50-8	KCN	250 g	HDPE bottle	1.04967.0250
Potassium dichromate for analysis (max. 0.000001 % Hg) EMSURE® ACS, ISO Potassium dichromate for analysis EMSURE® ACS, ISO Potassium dichromate for analysis EMSURE® ACS, ISO RCS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis (≤ 0.005 % Na) EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis (≤ 0.005 % Na) EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ACS, ISO, Reag. Ph Eur Potassium dihydrogen phosphate for analysis EMSURE® ISO RH₂PO₄ Style="background-color: blue;"> 500 g HDPE bottle 1.04864.0500 1 kg HDPE bottle 1.04877.1000 1 kg PE bucket 1.04877.9012 25 kg Fibre carton 1.04877.9025 1 kg HDPE bottle 1.04873.1000 Potassium dihydrogen phosphate for analysis EMSURE® ISO RH₂PO₄ Style="background-color: blue;"> 5 kg HDPE bottle 1.04873.5000 1.04873.5000					1 kg	HDPE bottle	1.04967.1000
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Po	otassium cyanide EMPLURA®	151-50-8	KCN	1 kg	HDPE bottle	1.04965.1000
ACS, ISO, Reag. Ph Eur 7778-50-9 $K_2Cr_2O_7$ 1 kg HDPE bottle 1.04864.1000 1 kg HDPE bottle 1.04877.1000 1 kg HDPE bottle 1.04877.1000 1 kg HDPE bottle 1.04877.9012 1 kg PE bucket 1.04877.9012 1 kg PE bucket 1.04877.9012 1 kg PE bucket 1.04877.9025 1 kg Fibre carton 1.04873.0250 1 kg HDPE bottle 1.04873.1000 1 kg HDPE bottle 1.04873.1000 1 kg HDPE bottle 1.04873.5000 1 kg HDPE bottle 1.04873.5000 1 kg HDPE bottle 1.04873.5000			7778-50-9	K ₂ Cr ₂ O ₇	500 g	Glass bottle	1.04865.0500
ACS, ISO, Reag. Ph Eur $7778-30-9$ K ₂ Cl ₂ O ₇ 1 kg HDPE bottle $1.04864.1000$ Potassium dihydrogen phosphate for analysis (≤ 0.005 % Na) EMSURE® ACS, ISO, Reag. Ph Eur $7778-77-0$ KH ₂ PO ₄ 12 kg PE bucket $1.04877.1000$ 12 kg Fibre carton $1.04877.9012$ 12 kg Fibre carton $1.04877.9025$ 12 kg Fibre bottle $1.04873.0250$ 12 kg HDPE bottle $1.04873.0250$ 12 kg HDPE bottle $1.04873.1000$ Potassium dihydrogen phosphate for analysis EMSURE® ISO $1.04873.5000$	Po	otassium dichromate for analysis EMSURE®	7770 50 5	W 0 0	500 g	HDPE bottle	1.04864.0500
Potassium dihydrogen phosphate for analysis ($\leq 0.005 \%$ Na) EMSURE® ACS, ISO, Reag. Ph Eur			///8-50-9	$K_2Cr_2O_7$	1 kg	HDPE bottle	1.04864.1000
$(\leq 0.005 \% \text{ Na}) \text{ EMSURE} ACS, ISO, Reag. Ph Eur} $					1 kg	HDPE bottle	1.04877.1000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			7778-77-0	KH ₂ PO ₄	12 kg	PE bucket	1.04877.9012
Potassium dihydrogen phosphate for analysis EMSURE® ISO 1 kg HDPE bottle 1.04873.1000	(-	. 5.555 70 Hay Elisone 71007, 1007, 1009, 111 Eur			25 kg	Fibre carton	1.04877.9025
Potassium dihydrogen phosphate for analysis EMSURE® ISO 7778-77-0 KH₂PO₄ 5 kg HDPE bottle 1.04873.5000					250 g	HDPE bottle	1.04873.0250
EMSURE® ISO				-	1 kg	HDPE bottle	1.04873.1000
			7778-77-0	KH ₂ PO ₄	5 kg	HDPE bottle	1.04873.5000
	LI	1501.2 150		-	25 kg	Fibre carton	1.04873.9025
50 kg Fibre carton 1.04873.9050				-	50 kg	Fibre carton	1.04873.9050

Salts P

Juliu I					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
			1 kg	HDPE bottle	1.05107.1000
Potassium disulfate (potassium pyrosulfate) for analysis EMSURE® ACS	7790-62-7	$K_2S_2O_7$	5 kg	HDPE bottle	1.05107.5000
analysis Enserte Ates			50 kg	PE drum	1.05107.9050
			500 g	HDPE bottle	1.05057.0500
Potassium disulfite for analysis EMSURE®	16731-55-8	$K_2S_2O_5$	1 kg	HDPE bottle	1.05057.1000
			2.5 kg	HDPE bottle	1.05057.2500
D	7700 22 2	145	250 g	HDPE bottle	1.04994.0250
Potassium fluoride for analysis EMSURE® ACS	7789-23-3	KF	1 kg	HDPE bottle	1.04994.1000
			100 g	HDPE bottle	1.04973.0100
Potassium hexacyanoferrate(III) for analysis EMSURE® ACS, Reag. Ph Eur	13746-66-2	$K_3[Fe(CN)_6]$	250 g	HDPE bottle	1.04973.0250
2.156.12 7.667, 1.663. 1.1. 2d.			1 kg	HDPE bottle	1.04973.1000
Potassium hexacyanoferrate(III) EMPLURA®	13746-66-2	K ₃ [Fe(CN) ₆]	1 kg	HDPE bottle	1.04971.1000
			100 g	HDPE bottle	1.04984.0100
Potassium hexacyanoferrate(II) trihydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	14459-95-1 K ₄ [Fe(CN) ₆] * 3 H ₂ O	500 g	HDPE bottle	1.04984.0500	
701C 703, 130, 100g. 111 Eur			50 kg	Fibre carton	1.04984.9050
Data si ing bangan famata /TI) bilanda ta FMDI IID A®	144F0 OF 1 1/ [F-/CN] 1 × 2 11	1/ FE-/CN) 3 * 3 H O	1 kg	HDPE bottle	1.04982.1000
Potassium hexacyanoferrate(II) trihydrate EMPLURA®	14459-95-1	$K_4[Fe(CN)_6] * 3 H_2O$	25 kg	Fibre carton	1.04982.9025
Potassium hexahydroxoantimonate(V) cryst. for analysis EMSURE®	12208-13-8	K[Sb(OH) ₆]	100 g	HDPE bottle	1.05110.0100
Potassium hydrogen carbonate for analysis EMSURE®	298-14-6	KIICO	500 g	HDPE bottle	1.04854.0500
ACS		KHCO ₃	25 kg	Fibre carton	1.04854.9025
Potassium hydrogen diiodate for analysis EMSURE®	13455-24-8	KH(IO ₃) ₂	50 g	Glass bottle	1.04867.0050
			1 kg	HDPE bottle	1.05104.1000
di-Potassium hydrogen phosphate anhydrous for analysis EMSURE®	7758-11-4	K ₂ HPO ₄	25 kg	Fibre carton	1.05104.9025
una., 505 E. 155 N.E			50 kg	Fibre carton	1.05104.9050
	298-14-6 KHCO ₃ 13455-24-8 KH(IO ₃) ₂ 7758-11-4 K ₂ HPO ₄	250 g	HDPE bottle	1.05099.0250	
			1 kg	HDPE bottle	1.05099.1000
di-Potassium hydrogen phosphate trihydrate for analysis EMSURE®	16788-57-1	K ₂ HO ₄ P * 3 H ₂ O		HDPE bottle	1.05099.1000 1.05099.5000
di-Potassium hydrogen phosphate trihydrate for analysis EMSURE®	16788-57-1	K ₂ HO ₄ P * 3 H ₂ O	5 kg		
	16788-57-1	K ₂ HO ₄ P * 3 H ₂ O	5 kg	HDPE bottle Fibre carton	1.05099.5000
	16788-57-1	K ₂ HO₄P * 3 H ₂ O	5 kg 25 kg	HDPE bottle Fibre carton	1.05099.5000 1.05099.9025
analysis EMSURE® Potassium hydrogen phthalate for analysis EMSURE®	16788-57-1 877-24-7	$K_2HO_4P * 3 H_2O$ $C_8H_5KO_4$	5 kg 25 kg 50 kg	HDPE bottle Fibre carton Fibre carton	1.05099.5000 1.05099.9025 1.05099.9050
analysis EMSURE®			5 kg 25 kg 50 kg 250 g	HDPE bottle Fibre carton Fibre carton HDPE bottle	1.05099.5000 1.05099.9025 1.05099.9050 1.04874.0250
analysis EMSURE® Potassium hydrogen phthalate for analysis EMSURE®			5 kg 25 kg 50 kg 250 g 1 kg	HDPE bottle Fibre carton Fibre carton HDPE bottle HDPE bottle	1.05099.5000 1.05099.9025 1.05099.9050 1.04874.0250 1.04874.1000
Potassium hydrogen phthalate for analysis EMSURE® Reag. Ph Eur Potassium hydrogen sulfate for analysis EMSURE®			5 kg 25 kg 50 kg 250 g 1 kg 12 kg	HDPE bottle Fibre carton Fibre carton HDPE bottle HDPE bottle PE bucket	1.05099.5000 1.05099.9025 1.05099.9050 1.04874.0250 1.04874.1000 1.04874.9012
analysis EMSURE® Potassium hydrogen phthalate for analysis EMSURE® Reag. Ph Eur	877-24-7	C ₈ H ₅ KO ₄	5 kg 25 kg 50 kg 250 g 1 kg 12 kg 500 g	HDPE bottle Fibre carton Fibre carton HDPE bottle HDPE bottle PE bucket HDPE bottle	1.05099.5000 1.05099.9025 1.05099.9050 1.04874.0250 1.04874.1000 1.04874.9012 1.04885.0500
Potassium hydrogen phthalate for analysis EMSURE® Reag. Ph Eur Potassium hydrogen sulfate for analysis EMSURE®	877-24-7	C ₈ H ₅ KO ₄	5 kg 25 kg 50 kg 250 g 1 kg 12 kg 500 g 2.5 kg	HDPE bottle Fibre carton Fibre carton HDPE bottle HDPE bottle PE bucket HDPE bottle HDPE bottle	1.05099.5000 1.05099.9025 1.05099.9050 1.04874.0250 1.04874.1000 1.04874.9012 1.04885.0500 1.04885.2500
Potassium hydrogen phthalate for analysis EMSURE® Reag. Ph Eur Potassium hydrogen sulfate for analysis EMSURE®	877-24-7	C ₈ H ₅ KO ₄	5 kg 25 kg 50 kg 250 g 1 kg 12 kg 500 g 2.5 kg 25 kg	HDPE bottle Fibre carton Fibre carton HDPE bottle HDPE bottle PE bucket HDPE bottle HDPE bottle Fibre carton	1.05099.5000 1.05099.9025 1.05099.9050 1.04874.0250 1.04874.1000 1.04874.9012 1.04885.0500 1.04885.2500 1.04885.9025

Ordering informationSalts

Salts P

Salts P					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
			250 g	HDPE bottle	1.05043.0250
Detaccium indide for analysis EMCUDE® ICO			500 g	HDPE bottle	1.05043.0500
Potassium iodide for analysis EMSURE® ISO, Reag. Ph Eur	7681-11-0	KI	1 kg	HDPE bottle	1.05043.1000
			2.5 kg	HDPE bottle	1.05043.2500
			50 kg	Fibre carton	1.05043.9050
			500 g	HDPE bottle	1.05063.0500
Potassium nitrate for analysis EMSURE® ISO,	7757-79-1	KNO ₃	1 kg	HDPE bottle	1.05063.1000
Reag. Ph Eur	7737-79-1	KNO ₃	5 kg	HDPE bottle	1.05063.5000
			25 kg	Fibre carton	1.05063.9025
Potassium nitrite cryst. for analysis EMSURE® ACS	7758-09-0	KNO ₂	250 g	HDPE bottle	1.05067.0250
di-Potassium oxalate monohydrate for analysis	6407 40 5	V C O * H O	250 g	HDPE bottle	1.05073.0250
EMSURE® ACS	0467-46-3	K ₂ C ₂ O ₄ * H ₂ O	1 kg	HDPE bottle	1.05073.1000
Potassium perchlorate for analysis EMSURE®	7770 74 7	KCIO	250 g	Metal can	1.05076.0250
ACS	7778-74-7	KClO₄	1 kg	Metal can	1.05076.1000
Potassium permanganate for analysis (max. 0.000005 % Hg) EMSURE® ACS	7722-64-7	KMnO ₄	1 kg	Glass bottle	1.05084.1000
Potassium permanganate for analysis EMSURE®			250 g	Glass bottle	1.05082.0250
ACS, Reag. Ph Eur	7722-64-7	KMnO₄	1 kg	Glass bottle	1.05082.1000
			1 kg	Glass bottle	1.05080.1000
otassium permanganate cryst. EMPLURA®	7722-64-7	KMnO₄	5 kg	Metal can	1.05080.5000
· · · · · · · · ·		·	50 kg	Steel drum	1.05080.9050
Potassium peroxodisulfate for analysis (≤ 0.001 % N) EMSURE® ACS, Reag. Ph Eur	7727-21-1	$K_2S_2O_8$	250 g	HDPE bottle	1.05092.0250
			250 g	HDPE bottle	1.05091.0250
Potassium peroxodisulfate for analysis EMSURE®	7727-21-1	$K_2S_2O_8$	1 kg	HDPE bottle	1.05091.1000
			500 g	HDPE bottle	1.08087.0500
			1 kg	HDPE bottle	1.08087.1000
Potassium sodium tartrate tetrahydrate for	6381-59-5	C ₄ H ₄ KNaO ₆ * 4 H ₂ O	5 kg	HDPE bottle	1.08087.5000
analysis EMSURE® ACS, ISO, Reag. Ph Eur	0301 33 3	C411411111006		PE bucket	1.08087.9012
			50 kg	Fibre carton	1.08087.9050
			500 g	HDPE bottle	1.05057.9030
				HDPE bottle	
Potassium sulfate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	7778-80-5	K_2SO_4	1 kg		1.05153.1000
,			5 kg	HDPE bottle	1.05153.5000
			25 kg	Fibre carton	1.05153.9025
Potassium sulfide small lumps for analysis EMSURE®	39365-88-3		250 g	HDPE bottle	1.05134.0250
E. ISSINE			1 kg	HDPE bottle	1.05134.1000
Potassium thiocyanate for analysis EMSURE®			250 g	HDPE bottle	1.05125.0250
ACS, ISO, Reag. Ph Eur	333-20-0	KSCN	1 kg	HDPE bottle	1.05125.1000
			50 kg	Fibre carton	1.05125.9050
Potassium thiocyanate EMPLURA®	333-20-0	KSCN	1 kg	HDPE bottle	1.05124.1000

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
			25 g	HDPE bottle	1.01512.0025
Silver nitrate for analysis EMSURE® ACS, ISO,	7764 00 0	4. NO	100 g	HDPE bottle	1.01512.0100
Reag. Ph Eur	7761-88-8	AgNO ₃	250 g	HDPE bottle	1.01512.0250
			1 kg	HDPE bottle	1.01512.1000
			250 g	HDPE bottle	1.06268.0250
			1 kg	HDPE bottle	1.06268.1000
Sodium acetate anhydrous for analysis EMSURE® ACS, Reag. Ph Eur	127-09-3	CH₃COONa	2.5 kg	HDPE bottle	1.06268.2500
Acs, Reag. Fit Ear			12 kg	PE bucket	1.06268.9012
			25 kg	Fibre carton	1.06268.9025
			500 g	HDPE bottle	1.06267.0500
			1 kg	HDPE bottle	1.06267.1000
Sodium acetate trihydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	6131-90-4	CH₃COONa * 3 H₂O	5 kg	HDPE bottle	1.06267.5000
res, 150, reag. The Lai			NEW 12 kg	PE bucket	1.06267.9012
			50 kg	Fibre carton	1.06267.9050
Sodium ammonium hydrogen phosphate tetrahydrate for analysis EMSURE®	7783-13-3	NaNH ₄ HPO ₄ * 4 H ₂ O	1 kg	HDPE bottle	1.06682.1000
Sodium carbonate anhydrous for analysis	407.40.0	N. 60	1 kg	HDPE bottle	1.06393.1000
EMSURE® ACS, ISO, Reag. Ph Eur	497-19-8	Na ₂ CO ₃	50 kg	Fibre carton	1.06393.9050
			500 g	HDPE bottle	1.06392.0500
			1 kg	HDPE bottle	1.06392.1000
Sodium carbonate anhydrous for analysis EMSURE® ISO	497-19-8	Na ₂ CO ₃	5 kg	HDPE bottle	1.06392.5000
			25 kg	Fibre carton	1.06392.9025
			50 kg	Fibre carton	1.06392.9050
			1 kg	HDPE bottle	1.06391.1000
Sodium carbonate decahydrate for analysis EMSURE® ISO, Reag. Ph Eur	6132-02-1	$Na_2CO_3 * 10 H_2O$	5 kg	HDPE bottle	1.06391.5000
200, 11025. 111 221			25 kg	Fibre carton	1.06391.9025
Codium oblavete EMPLLIDA®	7775 00 0	N-CIO	1 kg	HDPE bottle	1.06420.1000
Sodium chlorate EMPLURA®	7775-09-9	NaCiO ₃	50 kg	PE drum	1.06420.9050
			500 g	HDPE bottle	1.06404.0500
			1 kg	HDPE bottle	1.06404.1000
Sodium chloride for analysis EMSURE® ACS, ISO,	7647 14 5	NaCl	5 kg	HDPE bottle	1.06404.5000
Reag. Ph Eur	7647-14-5	INDCI	12 kg	PE bucket	1.06404.9012
			25 kg	Fibre carton	1.06404.9025
			50 kg	Fibre carton	1.06404.9050
			500 g	HDPE bottle	1.06448.0500
tri-Sodium citrate dihydrate for analysis EMSURE®	6132-04.2	C ₆ H ₅ Na ₃ O ₇ * 2 H ₂ O	1 kg	HDPE bottle	1.06448.1000
ACS, ISO, Reag. Ph Eur	0132-04-3	C ₆ H ₅ INa ₃ U ₇ · ∠ Π ₂ U	5 kg	HDPE bottle	1.06448.5000
			25 kg	Fibre carton	1.06448.9025
Sodium cyanide EMPLURA®	143-33-9	NaCN	1 kg	HDPE bottle	1.06437.1000
Sodium dichromate dihydrate for analysis	7780 12 0		250 g	HDPE bottle	1.06336.0250
EMSURE® ACS	7789-12-0	$Na_2Cr_2O_7 * 2 H_2O$	1 kg	HDPE bottle	1.06336.1000

Ordering informationSalts

Salts S					
Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
			250 g	HDPE bottle	1.06342.0250
Sodium dihydrogen phosphate dihydrate for	13472-35-0 NaH₂PO₄ * 2 H₂O — —		1 kg	HDPE bottle	1.06342.1000
analysis EMSURĒ® Reag. Ph Eur			2.5 kg	HDPE bottle	1.06342.2500
			25 kg	Fibre carton	1.06342.9025
			500 g	HDPE bottle	1.06346.0500
			1 kg	HDPE bottle	1.06346.1000
Sodium dihydrogen phosphate monohydrate for analysis EMSURE® ACS, Reag. Ph Eur	10049-21-5	$NaH_2PO_4*H_2O$	12 kg	PE bucket	1.06346.9012
			25 kg	Fibre carton	1.06346.9025
			50 kg	Fibre carton	1.06346.9050
			500 g	HDPE bottle	1.06591.0500
tetra-Sodium diphosphate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur	13472-36-1	$Na_4P_2O_7 * 10 H_2O$	2.5 kg	HDPE bottle	1.06591.2500
,			50 kg	Fibre carton	1.06591.9050
			100 g	HDPE bottle	1.06528.0100
			500 g	HDPE bottle	1.06528.0500
Sodium disulfite (sodium metabisulfite) for analysis EMSURE® ACS, Reag. Ph Eur	7681-57-4	$Na_2S_2O_5$	1 kg	HDPE bottle	1.06528.1000
analysis Erisoke Aesy Reag. The Eur		5 kg	HDPE bottle	1.06528.5000	
			50 kg	Fibre carton	1.06528.9050
			500 g	Metal can	1.06507.0500
Sodium dithionite for analysis EMSURE®	7775-14-6	Na ₂ S ₂ O ₄	2.5 kg	Metal can	1.06507.2500
		N. 6.0	1 kg	Metal can	1.06505.1000
Sodium dithionite EMPLURA®	7775-14-6	$Na_2S_2O_4$	50 kg	Steel drum	1.06505.9050
			250 g	HDPE bottle	1.06449.0250
Sodium fluoride for analysis EMSURE® ACS, ISO, Reag. Ph Eur	7681-49-4	NaF	1 kg	HDPE bottle	1.06449.1000
icag. Fil Eur			50 kg	Fibre carton	1.06449.9050
Sodium formate for analysis EMSURE® ACS,			500 g	HDPE bottle	1.06443.0500
Reag. Ph Eur	141-53-7	HCOONa	50 kg	Fibre carton	1.06443.9050
Sodium hexanitrocobaltate(III) [sodium			25 g	HDPE bottle	1.02521.0025
cobalt(III)nitrite] for analysis EMSURE® ACS, Reag. Ph Eur	13600-98-1	$Na_3[Co(NO_2)_6]$	100 g	HDPE bottle	1.02521.0100
roaga.			500 g	HDPE bottle	1.06329.0500
			1 kg	HDPE bottle	1.06329.1000
				HDPE bottle	
Sodium hydrogen carbonate for analysis EMSURE® ACS, Reaq. Ph Eur	144-55-8	NaHCO ₃	5 kg		1.06329.5000
,			12 kg 25 kg	PE bucket PE drum	1.06329.9012
				Fibre carton	
			50 kg 500 g	HDPE bottle	1.06329.9050
di-Sodium hydrogen phosphate anhydrous (~18 – 80 mesh ASTM) EMSURE®	7558-79-4	Na ₂ HPO ₄		Fibre carton	
, , , , , , , , , , , , , , , , , , , ,			25 kg		1.06559.9025
			500 g	HDPE bottle	1.06586.0500
di-Sodium hydrogen phosphate anhydrous	7550 70 4	No HDO	1 kg	HDPE bottle	1.06586.1000
for analysis ÉMSÜRE® ACS, Reag. Ph Eur	7558-79-4	Na₂HPO₄	2.5 kg	HDPE bottle	1.06586.2500
			12 kg	PE bucket	1.06586.9012
			50 kg	Fibre carton	1.06586.9050

Product	CAS No.	Chemical formula	Content	Packaging	Ord. No.
			500 g	HDPE bottle	1.06580.0500
			1 kg	HDPE bottle	1.06580.1000
di-Sodium hydrogen phosphate dihydrate for analysis EMSURE®	10028-24-7	Na ₂ HPO ₄ * 2 H ₂ O	5 kg	HDPE bottle	1.06580.5000
TOT ATTAINS EMISURE			25 kg	Fibre carton	1.06580.9025
			50 kg	Fibre carton	1.06580.9050
			500 g	HDPE bottle	1.06579.0500
di-Sodium hydrogen phosphate dodecahydrate			1 kg	HDPE bottle	1.06579.1000
for analysis EMSURE® ISO, Reag. Ph Eur	10039-32-4	Na ₂ HPO ₄ * 12 H ₂ O	5 kg	HDPE bottle	1.06579.5000
			25 kg	Fibre carton	1.06579.9025
di-Sodium hydrogen phosphate heptahydrate			1 kg	HDPE bottle	1.06575.1000
for analysis EMSURE® ACS	7782-85-6	$Na_2HPO_4 * 7 H_2O$	25 kg	Fibre carton	1.06575.9025
Sodium hydrogen sulfate monohydrate for analysis EMSURE®	10034-88-5	NaHSO ₄ * H ₂ O	500 g	HDPE bottle	1.06352.0500
Sodium hypochlorite solution (6 – 14 % active			2.5	HDPE bottle	1.05614.2500
chlorine) EMPLURA®			25 I	PE canister	1.05614.9025
	7604 55 0		100 g	Glass bottle	1.06525.0100
Sodium iodate for analysis EMSURE®	7681-55-2	NaIO ₃	1 kg	Glass bottle	1.06525.1000
Sodium iodide for analysis EMSURE® ACS, Reag. Ph Eur		NaI	100 g	HDPE bottle	1.06523.0100
	7681-82-5		250 g	HDPE bottle	1.06523.0250
			1 kg	HDPE bottle	1.06523.1000
			50 g	HDPE bottle	1.06597.0050
Sodium metaperiodate for analysis EMSURE® ACS, Reag. Ph Eur	7790-28-5	NaIO ₄	250 g	HDPE bottle	1.06597.0250
Aco, Icag. III Edi			1 kg	HDPE bottle	1.06597.1000
			100 g	HDPE bottle	1.06521.0100
Sodium molybdate dihydrate for analysis EMSURE®	10102-40-6	Na ₂ MoO ₄ * 2 H ₂ O	250 g	HDPE bottle	1.06521.0250
LINGURL			1 kg	HDPE bottle	1.06521.1000
			1 kg	HDPE bottle	1.06524.1000
Sodium molybdate dihydrate EMPLURA®	10102-40-6	$Na_2MoO_4 * 2 H_2O$	50 kg	Fibre carton	1.06524.9050
			500 g	HDPE bottle	1.06537.0500
Sodium nitrate for analysis EMSURE® ACS, ISO,	7674.00		1 kg	HDPE bottle	1.06537.1000
Reag. Ph Eur	7631-99-4	NaNO ₃	12 kg	PE bucket	1.06537.9012
			25 kg	Fibre carton	1.06537.9025
Coding altertance TABLUDA®	7604 00 :	N-NO	1 kg	HDPE bottle	1.06535.1000
Sodium nitrate cryst. EMPLURA®	7631-99-4	NaNO ₃	50 kg	Fibre carton	1.06535.9050
			100 g	HDPE bottle	1.06549.0100
Sodium nitrite for analysis EMSURE® ACS, Reag. Ph Eur	7632-00-0	NaNO ₂	500 g	HDPE bottle	1.06549.0500
reagn in Eur			12 kg	PE bucket	1.06549.9012
			250 g	HDPE bottle	1.06557.0250
di-Sodium oxalate for analysis EMSURE®	62-76-0	$Na_2C_2O_4$	1 kg	HDPE bottle	1.06557.1000
			100 g	Metal can	1.06564.0100
Sodium perchlorate monohydrate for analysis EMSURE®	7791-07-3	NaClO ₄ * H ₂ O	500 g	Metal can	1.06564.0500
LIIJONL-			25 kg	Steel drum	1.06564.9025

Ordering informationSalts

Product					
	CAS No.	Chemical formula	Content	Packaging	Ord. No.
			500 g	HDPE bottle	1.06609.0500
Cadium navaridirulfata fan aralı sia FMCUDE®	7775 27 1	N= C O	1 kg	HDPE bottle	1.06609.1000
Sodium peroxidisulfate for analysis EMSURE®	7775-27-1	$Na_2S_2O_8$	12 kg	PE bucket	1.06609.9012
			25 kg	Fibre carton	1.06609.9025
			1 kg	HDPE bottle	1.06578.1000
			5 kg	HDPE bottle	1.06578.5000
tri-Sodium phosphate dodecahydrate for analysis EMSURE® ACS, Reag. Ph Eur	10101-89-0	Na ₃ PO ₄ * 12 H ₂ O	12 kg	PE bucket	1.06578.9012
Endone nesy heag. I'm Ear			25 kg	Fibre carton	1.06578.9025
			50 kg	Fibre carton	1.06578.9050
			1 kg	HDPE bottle	1.06572.1000
tri-Sodium phosphate dodecahydrate for analysis EMSURE®	10101-89-0	Na₃PO₄ * 12 H₂O	5 kg	HDPE bottle	1.06572.5000
ENSONE			25 kg	Fibre carton	1.06572.9025
			1 kg	HDPE bottle	1.06529.1000
Sodium polyphosphate EMPLURA® (Graham's salt)	10361-03-2	$(NaPO_3)_n / n = \sim 25$	5 kg	HDPE bottle	1.06529.5000
			50 kg	Fibre carton	1.06529.9050
			250 g	HDPE bottle	1.06601.0250
Sodium salicylate for analysis EMSURE®	54-21-7	54-21-7 HOC ₆ H ₄ COONa	1 kg	HDPE bottle	1.06601.1000
			NEW 2.5 kg	HDPE bottle	1.06601.2500
		•	500 g	HDPE bottle	1.06637.0500
Sodium sulfate anhydrous coarse granules		Na ₂ SO ₄	1 kg	HDPE bottle	1.06637.1000
or analysis EMSURE® ACS			25 kg	Fibre carton	1.06637.9025
			500 g	HDPE bottle	1.06649.0500
Sodium sulfate anhydrous for analysis EMSURE®			1 kg	HDPE bottle	1.06649.1000
ACS, ISO, Reag. Ph Eur	7757-82-6	Na₂SO₄	5 kg	HDPE bottle	1.06649.5000
			25 kg	Fibre carton	1.06649.9025
Sodium sulfate anhydrous granulated for organic trace analysis EMSURE®	7757-82-6	Na ₂ SO ₄	25 kg 500 g	Glass bottle	1.06649.9025
trace analysis EMSURE®					
	7757-82-6		500 g	Glass bottle	1.06639.0500
trace analysis EMSURE® Sodium sulfate decahydrate for analysis			500 g	Glass bottle HDPE bottle	1.06639.0500 1.06648.1000
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur	7727-73-3	Na ₂ SO ₄ * 10 H ₂ O	500 g 1 kg 25 kg 500 g	Glass bottle HDPE bottle Fibre carton	1.06639.0500 1.06648.1000 1.06648.9025
trace analysis EMSURE® Sodium sulfate decahydrate for analysis		Na ₂ SO ₄ * 10 H ₂ O	500 g 1 kg 25 kg 500 g	Glass bottle HDPE bottle Fibre carton HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE®	7727-73-3	Na ₂ SO ₄ * 10 H ₂ O	500 g 1 kg 25 kg 500 g 1 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur	7727-73-3	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃	500 g 1 kg 25 kg 500 g 1 kg 5 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE®	7727-73-3	Na ₂ SO ₄ * 10 H ₂ O	500 g 1 kg 25 kg 500 g 1 kg 5 kg 5 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur	7727-73-3	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃	500 g 1 kg 25 kg 500 g 1 kg 5 kg 50 kg 250 g	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.0250
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur di-Sodium tartrate dihydrate for analysis EMSURE®	7727-73-3 7757-83-7 6106-24-7	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃ C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O	500 g 1 kg 25 kg 500 g 1 kg 5 kg 5 kg 50 kg 250 g 1 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.0250 1.06663.1000
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur di-Sodium tartrate dihydrate for analysis EMSURE® Sodium thiocyanate EMPLURA®	7727-73-3 7757-83-7 6106-24-7 540-72-7	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃ C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O NaSCN	500 g 1 kg 25 kg 500 g 1 kg 5 kg 50 kg 250 g 1 kg 250 g 1 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.0250 1.06663.1000 1.06627.2500
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur di-Sodium tartrate dihydrate for analysis EMSURE®	7727-73-3 7757-83-7 6106-24-7	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃ C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O NaSCN	500 g 1 kg 25 kg 500 g 1 kg 5 kg 50 kg 250 g 1 kg 250 g 250 g	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.0250 1.06663.1000 1.06627.2500 1.066512.0250
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur di-Sodium tartrate dihydrate for analysis EMSURE® Sodium thiocyanate EMPLURA®	7727-73-3 7757-83-7 6106-24-7 540-72-7	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃ C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O NaSCN	500 g 1 kg 25 kg 500 g 1 kg 5 kg 50 kg 250 g 1 kg 255 kg 250 g 2.5 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle HDPE bottle HDPE bottle HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.0250 1.06663.1000 1.06627.2500 1.06512.0250 1.06512.0250
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur di-Sodium tartrate dihydrate for analysis EMSURE® Sodium thiocyanate EMPLURA®	7727-73-3 7757-83-7 6106-24-7 540-72-7	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃ C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O NaSCN	500 g 1 kg 25 kg 500 g 1 kg 5 kg 50 kg 250 g 1 kg 255 kg 255 kg 255 kg 255 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton HDPE bottle Fibre carton	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.0250 1.06663.1000 1.06627.2500 1.06512.0250 1.06512.2500 1.06512.9025
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur di-Sodium tartrate dihydrate for analysis EMSURE® Sodium thiocyanate EMPLURA® Sodium thiosulfate anhydrous EMPLURA®	7727-73-3 7757-83-7 6106-24-7 540-72-7	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃ C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O NaSCN	500 g 1 kg 25 kg 500 g 1 kg 5 kg 50 kg 250 g 1 kg 25 kg 25 kg 25 kg 50 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle Fibre carton Fibre carton Fibre carton HDPE bottle	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.1000 1.06627.2500 1.06512.0250 1.06512.9025 1.06512.9025 1.06512.9050 1.06516.0500
trace analysis EMSURE® Sodium sulfate decahydrate for analysis EMSURE® ACS, Reag. Ph Eur Sodium sulfite anhydrous for analysis EMSURE® Reag. Ph Eur di-Sodium tartrate dihydrate for analysis EMSURE® Sodium thiocyanate EMPLURA®	7727-73-3 7757-83-7 6106-24-7 540-72-7 7772-98-7	Na ₂ SO ₄ * 10 H ₂ O Na ₂ SO ₃ C ₄ H ₄ Na ₂ O ₆ * 2 H ₂ O NaSCN	500 g 1 kg 25 kg 500 g 1 kg 5 kg 50 kg 250 g 1 kg 255 kg 255 kg 255 kg 50 kg	Glass bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle Fibre carton HDPE bottle HDPE bottle HDPE bottle HDPE bottle HDPE bottle HDPE bottle Fibre carton Fibre carton	1.06639.0500 1.06648.1000 1.06648.9025 1.06657.0500 1.06657.1000 1.06657.5000 1.06657.9050 1.06663.0250 1.06663.1000 1.06627.2500 1.06512.0250 1.06512.9050

Salts S-Z

	Sails S-Z						
	Product		CAS No.	Chemical formula	Content	Packaging	Ord. No.
S	Sodium tungstate dihydrate for analysis EMSURE®		10213-10-2	Na ₂ WO ₄ * 2 H ₂ O	250 g	HDPE bottle	1.06673.0250
					1 kg	HDPE bottle	1.06673.1000
					25 kg	Fibre carton	1.06673.9025
	Sodium tungstate dihydrate EMPLURA®		10213-10-2	Na ₂ WO ₄ * 2 H ₂ O	1 kg	HDPE bottle	1.06672.1000
					25 kg	Fibre carton	1.06672.9025
	Strontium chloride hexahydrate for analysis EMSURE® ACS		10025-70-4	SrCl ₂ * 6 H ₂ O	250 g	HDPE bottle	1.07865.0250
					1 kg	HDPE bottle	1.07865.1000
	Strontium nitrate for analysis EMSURE®		10042-76-9	Sr(NO)	250 g	HDPE bottle	1.07872.0250
			10042-76-9	31 (NO ₃) ₂	25 kg	Fibre carton	1.07872.9025
Т	Tin(IV) chloride EMPLURA®		7646-78-8	SnCl ₄	500 ml	Glass bottle	1.07810.0500
	Tin(II) chloride dihydrate for analysis (max. 0.000001 % Hg) EMSURE®		10025 60 1	SnCl ₂ * 2 H ₂ O -	100 g	Glass bottle	1.07815.0100
					250 g	Glass bottle	1.07815.0250
		10023-09-1	10023-09-1		1 kg	Glass bottle	1.07815.1000
					25 kg	Fibre carton	1.07815.9025
Z	Tin(II) chloride dihydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1	10025-69-1	SnCl ₂ * 2 H ₂ O	250 g	Glass bottle	1.07814.0250
					2.5 kg	Glass bottle	1.07814.2500
	Zinc acetate dihydrate for analysis EMSURE® ACS		5970-45-6	(CH ₃ COO) ₂ Zn * 2 H ₂ O	250 g	HDPE bottle	1.08802.0250
		,	3970-43-0		1 kg	HDPE bottle	1.08802.1000
	Zinc chloride for analysis EMSURE® ACS, ISO, Reag. Ph Eur		7646-85-7	ZnCl ₂	250 g	HDPE bottle	1.08816.0250
					1 kg	HDPE bottle	1.08816.1000
					25 kg	PE drum	1.08816.9025
	Zinc iodide for analysis EMSURE®		10139-47-6	ZnI ₂	100 g	Glass bottle	1.08828.0100
	Zinc nitrate tetrahydrate for analysis EMSURE®		19154-63-3	3-3 Zn(NO ₃) ₂ * 4 H ₂ O		HDPE bottle	1.08833.1000
	Zinc sulfate heptahydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur			ZnSO ₄ * 7 H ₂ O -	500 g	HDPE bottle	1.08883.0500
			7446-20-0		1 kg	HDPE bottle	1.08883.1000
			7440-20-0		5 kg	HDPE bottle	1.08883.5000
					50 kg	Fibre carton	1.08883.9050



► For more details about our packaging, please see "Packaging and Safe Handling" on page 42

solvents



EMSURE® | EMPARTA® | EMPLURA® Solvents. Distinguished by exceptional quality and reliability, our solvents undergo strict controls and continuous development to meet growing regulations. As your reliable, one-stop supplier, we offer a complete solution, including solvents, documentation, secure packaging and withdrawal systems.

EMSURE® Solvents

Premium Grade

▶ For more information please have a look at page 20

EMPARTA® Solvents

Standard Grade

▶ For more information please have a look at page 32

EMPLURA® Solvents

Basic Grade

▶ For more information please have a look at page 36

Ordering informationSolvents

Solvents A-B

	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
A	Acetone for analysis EMSURE® ACS, ISO, Reag. Ph Eur		≥ 99.8 %	≤ 0.0005 %	≤ 0.05 %	1 l	Glass bottle	1.00014.1000
							HDPE bottle	1.00014.1011
						2.5 l	Glass bottle	1.00014.2500
						2.5 I	HDPE bottle	1.00014.2511
						4 1	Glass bottle	1.00014.4000
		67-64-1				5 I	HDPE bottle	1.00014.5000
						10 I	Stainless steel drum	1.00014.6010
						25 I	Stainless steel drum	1.00014.6025
						190 I	Stainless steel drum	1.00014.6190
						180 I	PE / Metal drum	1.00014.9180
	Acetone for analysis EMPARTA® ACS	67.64.1	≥ 99.5 %	≤ 0.001 %	≤ 0.5 %	2.5	HDPE bottle	1.07021.2511
		67-64-1				4 1	Glass bottle	1.07021.4000
	Acetone EMPLURA®		≥ 99.0 %	≤ 0.004 %	≤ 0.3 %	1	HDPE bottle	8.22251.1000
		67-64-1				2.5	HDPE bottle	8.22251.2500
		07-04-1				NEW 51	HDPE bottle	8.22251.5011
						25 I	Metal drum	8.22251.9025
	Acetonitrile for analysis EMSURE® ACS, Reag. Ph Eur		≥ 99.5 %	≤ 0.001 %		1 l	Glass bottle	1.00003.1000
					≤ 0.1 %	2.5	Glass bottle	1.00003.2500
		75-05-8				4 1	Glass bottle	1.00003.4000
						10 I	Stainless steel drum	1.00003.6010
						25 I	Stainless steel drum	1.00003.6025
	Acetonitrile EMPLURA®	75-05-8	≥ 99.0 %	≤ 0.005 %	≤ 0.5 %	1 l	Glass bottle	1.15500.1000
						2.5 I	Glass bottle	1.15500.2500
						4 1	Glass bottle	1.15500.4000
						25 I	Stainless steel drum	1.15500.6025
						190 l	Metal drum	1.15500.9190
	Acetylacetone for analysis EMSURE®	123-54-6	≥ 99.0 %		≤ 0.3 %	100 ml	Glass bottle	1.09600.0100
		125 5 . 6				500 ml	Glass bottle	1.09600.0500
	n-Amyl alcohol (Pentan-1-ol) for analysis	71-41-0	≥ 98.5 %	≤ 0.005 %	≤ 0.1 %	1	Glass bottle	1.00975.1000
	EMSURE®					2.5	Glass bottle	1.00975.2500
	tert-Amyl alcohol EMPLURA®	75-85-4	≥ 99.0 %			1	HDPE bottle	8.06193.1000
	Aniline for analysis EMSURE®	62-53-3	≥ 99.5 %		≤ 0.1 %	1	Glass bottle	1.01261.1000
В	1-Butanol for analysis EMSURE® ACS, ISO, Reag. Ph Eur		≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	1	Glass bottle	1.01990.1000
		71-36-3				2.5	Glass bottle	1.01990.2500
						4 1	Glass bottle	1.01990.4000
						25 I	Stainless steel drum	
	1-Butanol EMPLURA®	71-36-3	≥ 99.0 %	≤ 0.004 %	≤ 0.2 %	2.5	HDPE bottle	8.22262.2500
	2-Butanol for analysis EMSURE®	78-92-2	≥ 99.0 %	≤ 0.001 %	≤ 0.2 %	11	Glass bottle	1.09630.1000
						2.5	Glass bottle	1.09630.2500
		-0				25	Stainless steel drum	
	2-Butanol EMPLURA®	78-92-2			≤ 0.2 %	2.5	HDPE bottle	8.22263.2500

Solvents B-C

	Solvents B-C		CACAL	Dunity (CC)	Francisco de la constanta	Make	Combons	Dealeraine	Ond No
	Product		CAS No.	Purity (GC)	Evap. residue	water	Content	Packaging	Ord. No.
В						_	1	Glass bottle	1.09626.1000
	Benzyl alcohol for analysis EMSURE®		100-51-6	≥ 99.5 %		≤ 0.1 % -	2.5	Glass bottle	1.09626.2500
						_	4	Glass bottle	1.09626.4000
							25	Stainless steel drum	
	tert-Butanol for analysis EMSURE® ACS,		75.65.0	. 00 5 0/	. 0 004 0/	-	500 ml	Glass bottle	1.09629.0500
	Reag. Ph Eur		75-65-0	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	5	Aluminum bottle	1.09629.5000
							25 I	Metal drum	1.09629.9025
						_	1	Glass bottle	8.22264.1000
	tert-Butanol EMPLURA®		75-65-0	≥ 99.0 %		≤ 0.1 % _	5 I	Aluminum bottle	8.22264.5000
							25 I	PE canister	8.22264.9025
						_	1	Glass bottle	1.09652.1000
	n-Butyl acetate for analysis EMSURE®		123-86-4	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	2.5 l	Glass bottle	1.09652.2500
							4 1	Glass bottle	1.09652.4000
	n-Butyl acetate EMPLURA®		123-86-4	≥ 99.0 %	≤ 0.001 %	_	2.5 l	Glass bottle	1.01974.2500
	·						25 I	Stainless steel drum	1.01974.6025
						_	1 l	Glass bottle	1.01849.1000
	tert-Butyl methyl ether for analysis EMSURE®		1634-			_	2.5 l	Glass bottle	1.01849.2500
	ACS		04-4	≥ 99.5 %	≤ 0.001 %	≤ 0.03 % _	4	Glass bottle	1.01849.4000
						_	5 I	HDPE bottle	1.01849.5011
							190 l	Metal drum	1.01849.9190
	tert-Butyl methyl ether EMPLURA®					_	2.5 I	Glass bottle	1.01843.2500
			1634-	≥ 99.0 %	≤ 0.005 %	≤ 0.05 % -	10 l	Metal drum	1.01843.9011
			04-4				25 I	Stainless steel drum	1.01843.6025
							190 l	Stainless steel drum	1.01843.6190
С						_	1 l	Glass bottle	1.02445.1000
				2.5 l	Glass bottle	1.02445.2500			
	Chloroform for analysis EMSURE® ACS,	67-6	67-66-3	99.0-	≤ 0.001 %	≤ 0.01 % -	41	Glass bottle	1.02445.4000
	ISO, Reag. Ph Eur		0, 00 5	99.4%	2 0.001 70	_ 0.01 %	10 l	Stainless steel drum	1.02445.6010
						_	25 I	Stainless steel drum	1.02445.6025
							190 l	Metal drum	1.02445.9190
	Chloroform for analysis EMPARTA® ACS		67-66-3	99.0-	≤ 0.001 %	≤ 0.01 % -	2.5 l	Glass bottle	1.07024.2500
	Chloroform for undrysis Em ARTA ACS			99.4 %			4 I	Glass bottle	1.07024.4000
	Chloroform EMPLURA®		67-66-3	≥ 99%	≤ 0.001 %	≤ 0.1 % -	1 l	Glass bottle	8.22265.1000
	Chioloffii Erii Eoro						2.5 l	Glass bottle	8.22265.2500
	Chloroform for analysis		67-66-3	99.0 -	< 0.001%	< 0.01 % -	1 l	Glass bottle	1.02442.1000
	(for determinations with dithizone)			99.4%	0.00170		2.5 l	Glass bottle	1.02442.2500
						_	1 l	Glass bottle	1.09666.1000
						_	2.5 l	Glass bottle	1.09666.2500
						_	2.5 l	HDPE bottle	1.09666.2511
	Cyclohexane for analysis EMSURE®		110-82-7	> 99 5 %	< 0.001 %	< 0.01 % =	4 I	Glass bottle	1.09666.4000
	ACS, ISO, Reag. Ph Eur		-10 02 /		_ 0.001 /0	NEW NEW	5 1	HDPE bottle	1.09666.5011
						-	10 l	Stainless steel drum	1.09666.6010
							25 I	Stainless steel drum	1.09666.6025
							190 l	Metal drum	1.09666.9190
	Cyclohexane for analysis EMSURE® ACS, ISO, Reag. Ph Eur		110-82-7	≥ 99.5 %	≤ 0.001 %	≤ 0.01 % —	2.5 I 4 I 5 I 10 I 25 I	HDPE bottle Glass bottle HDPE bottle Stainless steel drum Stainless steel drum	1.09666.2511 1.09666.4000 1.09666.5011 1.09666.6010 1.09666.6025

Ordering informationSolvents

Solvents C-D

	Product		CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.	
2							1 l	Glass bottle	1.02832.1000	
	G		440.00.7	. 00 0 0/			2.5	Glass bottle	1.02832.2500	
	Cyclohexane EMPLURA®		110-82-7	≥ 99.0 %		≤ 0.05 % -	25 I	Stainless steel drum	1.02832.6025	
						-	190 l	Metal drum	1.02832.9190	
	Cylclohexane for denaturation		110-82-7	≥ 99.0 %			190 l	Metal drum	1.02830.9190	
							1	Glass bottle	1.02888.1000	
						-	2.5	Glass bottle	1.02888.2500	
	Cyclohexanone EMPLURA®		108-94-1	≥ 99.0 %		≤ 0.2 %	10 l	Stainless steel drum	1.02888.6010	
						-	25 I	Stainless steel drum	1.02888.6025	
						-	190 l	Metal drum	1.02888.9191	
							1	Glass bottle	1.08293.1000	
	Cyclopentyl methyl ether EMPLURA®		5614- 37-9	≥ 99.0 %		≤ 0.2 %	2.5	Glass bottle	1.08293.2500	
			J, J			-	4	Glass bottle	1.08293.4000	
	1,2-Dichlorobenzene for extraction						1	Glass bottle	1.02930.1000	
)	analysis EMSURE®		95-50-1	≥ 99.0 %		≤ 0.01 % -	2.5	Glass bottle	1.02930.2500	
							1	Glass bottle	1.00955.1000	
	1,2-Dichloroethane EMPLURA®		107-06-2	≥ 99.5 %	≤ 0.002 %	≤ 0.03 % -	2.5	Glass bottle	1.00955.2500	
	Dichloromethane for analysis EMSURE® ACS, ISO, Reag. Ph Eur						1	Glass bottle	1.06050.1000	
						-	2.5	Glass bottle	1.06050.2500	
			75-09-2	≥ 99.8 %	≤ 0.001 %	≤ 0.01 %	4 1	Glass bottle	1.06050.4000	
						-	10 l	Stainless steel drum	1.06050.6010	
						-	25 I	Stainless steel drum	1.06050.6025	
	Dichloromethane for analysis EMPARTA®		75 00 2	> 00 F 0/	< 0.002.0/	< 0.02.0/ -	2.5	Glass bottle	1.07020.2500	
	ACS		75-09-2	≥ 99.5 %	≤ 0.002 %	≤ 0.02 % ·	4 1	Glass bottle	1.07020.4000	
							1	Glass bottle	8.22271.1000	
	Dichloromethane EMPLURA®		75-09-2	≥ 99.0 %	≤ 0.002 %	≤ 0.1 %	2.5 I	Glass bottle	8.22271.2500	
							25 I	Metal drum	8.22271.9025	
	Diethanolamine for analysis EMSURE®		111-42-2	≥ 99.5 %		≤ 0.25 %	1 l	HDPE bottle	1.16205.1000	
							1	Glass bottle	1.00921.1000	
						_	2.5 l	Glass bottle	1.00921.2500	
	Diethyl ether for analysis EMSURE®		60 20 7	> 00 7 0/	4 0 000E 0/	. 0 02 0/	5 I	Aluminum bottle	1.00921.5000	
	ACS, ISO, Reag. Ph Eur		60-29-7	≥ 99.7 %	≤ 0.0005 %	≤ 0.03 % -	25 I	Stainless steel drum	1.00921.6025	
							190 l	Stainless steel drum	1.00921.6190	
							190 l	Metal drum	1.00921.9190	
	Diathyl other for analysis FMDADTA® ACC		60.20.7	> 00 F 0/	< 0.001.0/	- 0 1 0/	2.5 l	Glass bottle	1.07026.2500	
	Diethyl ether for analysis EMPARTA® ACS		60-29-7	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	5 I	Aluminum bottle	1.07026.5000	
			· · ·				1	Glass bottle	1.00923.1000	
	Diethyl ether EMPLURA®	her EMPLURA®	60-29-7	60-29-7	≥ 99.0 %)	≤ 0.2 %	5 I	Aluminum bottle	1.00923.5000
	·					_ 3.2 /3				

Solvents D-E

	Solvents D-E							
	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
D	Diethyl ether for analysis, Ethanol		≥ 98.0 %	≤ 0.001 %	≤ 0.5 % -	4 1	Glass bottle	1.07062.4000
	stabilized EMPARTA® ACS					5 I	Aluminum bottle	1.07062.5000
					_	1	Glass bottle	1.00867.1000
	Diisopropyl ether for analysis EMSURE®	108-20-3	≥ 99.0 %	≤ 0.005 %	≤ 0.05 % -	2.5 l	Glass bottle	1.00867.2500
	ACS, Reag. Ph Eur	100 20 5	_ 55.0 70	_ 0.000 70	_ = 0.00 %	4	Glass bottle	1.00867.4000
						10 l	Stainless steel drum	1.00867.6010
					_	1	Glass bottle	1.03053.1000
					_	1	HDPE bottle	1.03053.1011
	N,N-Dimethylformamide for analysis	68-12-2	≥ 99.8 %	≤ 0.001 %	≤ 0.1 % -	2.5	Glass bottle	1.03053.2500
	EMSURE® ACS, ISO, Reag. Ph Eur	00 12 2	2 33.0 70	3 0.001 /0	3 0.1 70	2.5	HDPE bottle	1.03053.2511
					_	4	Glass bottle	1.03053.4000
						25 I	Stainless steel drum	1.03053.6025
	N,N-Dimethylformamide EMPARTA®				_	1 l	Glass bottle	1.03034.1000
					_	2.5	Glass bottle	1.03034.2500
		68-12-2	≥ 99.5 %	≤ 0.001 %	≤ 0.1 %	2.5	HDPE bottle	1.03034.2511
			41 (Glass bottle	1.03034.4000	
						25 I	Stainless steel drum	1.03034.6025
	N,N-Dimethylformamide EMPLURA®				_	1 l	HDPE bottle	8.22275.1000
		68-12-2	≥ 99.0 %		≤ 0.1 %	2.5	HDPE bottle	8.22275.2500
						25 I	Stainless steel drum	8.22275.6025
					_	1 l	Glass bottle	1.02952.1000
					-	1 l	HDPE bottle	1.02952.1011
	Dimethyl sulfoxide for analysis EMSURE®	67-68-5	≥ 99.9 %	≤ 0.001 %		2.5	Glass bottle	1.02952.2500
	ACS	67-06-3			≤ 0.1 % -	2.5	HDPE bottle	1.02952.2511
					_	4	Glass bottle	1.02952.4000
						25 I	Metal drum	1.02952.9025
	Dimothyl gulfavida EMPLLIDA®	67-68-5	≥ 99.0 %		< 0.2 W =	1 l	Glass bottle	1.16743.1000
	Dimethyl sulfoxide EMPLURA®	07-08-3	2 99.0 %		≤ 0.2 % -	25 I	Stainless steel drum	1.16743.6025
					_	250 ml	Glass bottle	1.09671.0250
	1,4-Dioxane for analysis EMSURE® ACS,	122 01 1	≥ 99.5 %	< 0.001.0/	- 0.0E 0/ -	1 l	Glass bottle	1.09671.1000
	ISO	123-91-1	2 99.5 %	≤ 0.001 %	≤ 0.05 % -	2.5	Glass bottle	1.09671.2500
						25 I	Stainless steel drum	1.09671.6025
						1	Glass bottle	1.03115.1000
	1.4 Diagrae EMPLUDA®	122.01.1	> 00 0 0/		-0.10	2.5	Glass bottle	1.03115.2500
	1,4-Dioxane EMPLURA®	123-91-1	≥ 99.0 %		≤ 0.1 % -	25 I	Stainless steel drum	1.03115.6025
						190 l	Metal drum	1.03115.9191
Е		c4 := =	95.1-	. 25 "		500 ml	Glass bottle	1.59010.0500
	Ethanol 96 % EMSURE® Reag. Ph Eur	64-17-5	96.9 %	≤ 25 mg/l	_	2.5 l	Glass bottle	1.59010.2500

Ordering informationSolvents

Solvents E

Content Con								
Company Comp	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Ethanol absolute for analysis EMPARTA* ACS Ethanol absolute EMPLURA* Ethanol absolute for analysis EMPARTA* Etha						1 l	Glass bottle	1.00983.1000
Ethanol absolute for analysis EMPARTA* ACS 299.9						1 l	HDPE bottle	1.00983.1011
Ethanol absolute for analysis EMSURE® ACS, ISO, Reag. Ph Eur 64-17-5 299.9 % 30.0005 % 30.1 % 61 100Fe bottle 1.00983.4000						2.5	Glass bottle	1.00983.2500
C4-17-5 ≥99.9 % ≤0.0005 % ≤0.1 %						2.5	HDPE bottle	1.00983.2511
ACS, ISO, Reag. Ph Eur 64-17-5 299.5 % 0.0005 % 2.0005 %	Ethanol absolute for analysis EMSURE®	64.47.5		. 0 0005 0/	. 0 . 0 . 0	4 1	Glass bottle	1.00983.4000
Ethanol absolute for analysis EMPARTA* 64-17-5 ≥ 99.5 % ≥ 0.001 % ≥ 0.25 % 25 1 Metal drum 1.00983.9136		64-17-5	≥ 99.9 %	≤ 0.0005 %	≤ 0.1 %	5 I	HDPE bottle	1.00983.5000
Ethanol absolute for analysis EMPARTA® ACS 64-17-5 ≥ 99.5 % ≤ 0.001 % ≤ 0.2 % (2.5 iii HDPE bottle 1.07017.7511 (2.5 iii HDPE bottle 1.07017.7510 (2.5 iii HDPE bottle 1.07017.7510 (2.5 ii HDPE bottle 1.07017.7510 (2.5 iii HDPE bottle 1.07017.7510 (2.5 ii						10 l	Stainless steel drum	1.00983.6010
Ethanol absolute for analysis EMPARTA* ACS 64-17-5 ≥ 99.5 % ≥ 0.001 % ≥ 0.2 %						25 I	Stainless steel drum	1.00983.6025
Ethanol absolute for analysis EMPARTA® ACS Ethanol absolute EMPLURA® Ethanol absolute EMPLURA® 64-17-5 ≥ 99.5 % ≥ 0.0025 % ≥ 0.0						25 I	Metal drum	1.00983.9025
Ethanol absolute for analysis EMPARTA* ACS 64-17-5 ≥ 99.5 % ≤ 0.001 % ≤ 0.2 % 4 1 Glass bottle 1.07017.4000 25 1 Metal drum 1.07017.9026 11 HDPE bottle 8.18760.1000 2.5 1 HDPE bottle 8.18760.1000 2.5 1 Metal drum 8.18760.9025 180 1 PE / Metal drum 1.00974.0025 180 1 PE / Metal drum 1.00974.0020 180 1 PE / Metal drum 1.00974.0020 180 1 PE / Metal drum 1.00974.0020 180 1 PE / Metal drum 1.00974.9180 180 1 PE / Metal drum 1.009623.2500 180 1 PE / Metal drum 1.009623.2501 180 1 PE / Metal drum 1.009623.2501 180 1 PE / Metal drum 1.009623.2501 180 1 PE / Metal drum 1.009623.3501 1						180 l	PE / Metal drum	1.00983.9180
ACS A-17-5 2 99.5 % 5 0.001 % S 0.00						2.5 l	HDPE bottle	1.07017.2511
Ethanol absolute EMPLURA® 64-17-5 ≥ 99.5 % ≤ 0.0025 % ≤ 0.002 %	·	64-17-5	64-17-5 ≥ 99.5 % ≤ 0.001 % ≤ 0.2 % 4 l	4 1	Glass bottle	1.07017.4000		
Ethanol absolute EMPLURA® 64-17-5 ≥ 99.5 % ≤ 0.0025 % ≥ 0.2 % (2.5 HDPE bottle 8.18760.2500 (2.5 Metal drum 8.18760.9025 (180 PE / Metal drum 8.18760.9025 (180 PE / Metal drum 8.18760.9180 (180 PE / Metal drum 9.18760.9180 (180 PE / Metal drum 9.100974.1011 (180 PE / Metal drum 9.100974.1011 (180 PE / Metal drum 9.100974.1011 (180 PE / Metal drum 9.100974.9180 (180 PE / Metal drum 9.09623.9191 (180 PE / Metal drum 9.09623.9191 (190 PE / Metal drum 9.09623.919	ACS					25 I	Metal drum	1.07017.9026
Ethanol absolute EMPLURA® 64-17-5 ≥ 99.5 % ≥ 0.0025 % ≥ 0.2 % Ethanol absolute denatured with 1 % MEK and 0.001 % Bitrex for analysis EMSURE® 64-17-5 ≥ 99.5 % ≥ 0.002 % ≥ 0.1 % □ 10PE bottle					,	1	HDPE bottle	8.18760.1000
Ethanol absolute denatured with 1 % MEK and 0.001 % Bitrex for analysis EMSURE® 64-17-5 ≥ 99.5 % ≤ 0.002 % ≤ 0.1 % 2.5 l HDPE bottle 1.02428.2500 w 5 l HDPE bottle 1.02428.2500 w 5 l HDPE bottle 1.02428.2501 w 5 l HDPE bottle 1.02428.2501 w 5 l HDPE bottle 1.02428.2501 w 5 l HDPE bottle 1.00974.2501 w 5 l HDPE bottle 1.00974.2501 w 5 l HDPE bottle 1.00974.2500 w 5 l HDPE bottle 1.009623.2500 w 5 l HDPE bottle 1.09623.2500 w 5 l H						2.5 I	HDPE bottle	8.18760.2500
Ethanol absolute denatured with 1 % MEK and 0.001 % Bitrex for analysis EMSURE® 64-17-5 ≥ 99.5 % ≤ 0.002 % ≤ 0.1 % 2.5 l HDPE bottle 1.02428.25001 Ethanol denatured with about 1 % Methyl ethyl ketone for analysis EMSURE® 64-17-5 ≥ 99.5 % ≤ 0.001 % 5 l HDPE bottle 1.00974.2500 Ethanolamine for analysis EMSURE® 141-43-5 ≥ 99.5 % ≤ 0.001 % 5 l HDPE bottle 1.00974.2500 Ethanolamine for analysis EMSURE® 141-43-5 ≥ 99.5 % ≤ 0.001 % 5 l HDPE bottle 1.00974.2500 Ethyl acetate for analysis EMSURE® ACS, ISO, Reag. Ph Eur 141-78-6 ≥ 99.5 % ≤ 0.001 % 5 l HDPE bottle 1.09623.2501 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 l Glass bottle 1.09623.9026 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 l Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 l Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.003 % ≤ 0.2 % 4 l Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.003 % ≤ 0.2 % 4 l Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.003 % ≤ 0.1 % 141-78-6 ≥ 20.000 % ≤ 0.	Ethanol absolute EMPLURA®	64-17-5	≥ 99.5 %	≤ 0.0025 %	≤ 0.2 %	25 I	Metal drum	8.18760.9025
MEK and 0.001 % Bitrex for analysis EMSURE® 64-17-5 ≥ 99.5 % ≤ 0.002 % ≤ 0.1 %						180 I	PE / Metal drum	8.18760.9180
MEK and 0.001 % Bitrex for analysis	Ethanol absolute denatured with 1 %					2.5 I	HDPE bottle	1.02428.2500
Ethanol denatured with about 1 % Methyl ethyl ketone for analysis EMSURE® 64-17-5 ≥ 99.5 % ≤ 0.001 % ≤ 0.1 %		64-17-5	≥ 99.5 %	≤ 0.002 %		NEW 51	HDPE bottle	
Ethanol denatured with about 1 % Methyl ethyl ketone for analysis EMSURE® 64-17-5 ≥ 99.5 % ≤ 0.001 % ≤ 0.1 % 4 l Glass bottle 1.00974.000						1	HDPE bottle	1.00974.1011
Ethanol denatured with about 1 % Methyl ketone for analysis EMSURE® 64-17-5 ≥ 99.5 % ≤ 0.001 % ≤ 0.1 % 4 Glass bottle 1.00974.4000 25 Stainless steel drum 1.00974.6025 25 Metal drum 1.00974.9025 180 Metal drum 1.00974.9180 180 Metal drum 1.00974.9180 180 Metal drum 1.00974.9180 2.5 Glass bottle 1.00845.1000 2.5 Glass bottle 1.00845.2500 2.5 Glass bottle 1.00845.2500 2.5 Glass bottle 1.00823.2500 2.5 Glass bottle 1.09623.1000 2.5 Glass bottle 1.09623.2500 2.5 HDPE bottle 1.09623.2500 2.5 HDPE bottle 1.09623.2500 2.5 HDPE bottle 1.09623.5011 10 Stainless steel drum 1.09623.6010 25 Stainless steel drum 1.09623.6010 25 Stainless steel drum 1.09623.6025 25 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9181 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000						2.5	Glass bottle	1.00974.2500
## Accordance Part Company Part Company Part Company Part Company Part Company Part Company Part Part Company Part	Ethanol donatured with about 1 %					2.5 l	HDPE bottle	1.00974.2511
Ethanolamine for analysis EMSURE® 141-43-5 ≥ 99.5 %	Methyl ethyl ketone for analysis	64-17-5	64-17-5 ≥ 99.5 % ≤ 0.001 % ≤ 0.1 % 4 l	4 1	Glass bottle	1.00974.4000		
Ethanolamine for analysis EMSURE® 141-43-5 ≥ 99.5 %	EMSURE®					25 I	Stainless steel drum	1.00974.6025
Ethanolamine for analysis EMSURE® 141-43-5 ≥ 99.5 % ≤ 0.2 % 1 Glass bottle 1.00845.1000						25 I	Metal drum	1.00974.9025
Ethanolamine for analysis EMSURE® 141-43-5 ≥ 99.5 % ≤ 0.2 % 2.5 I Glass bottle 1.00845.2500 1						180 l	Metal drum	1.00974.9180
2.5 Glass bottle 1.00845.2500 1 HDPE bottle 1.09623.2500 2.5 Glass bottle 1.09623.2500 2.5 HDPE bottle 1.09623.2500 2.5 HDPE bottle 1.09623.2511 4 Glass bottle 1.09623.2511 4 Glass bottle 1.09623.2511 4 Glass bottle 1.09623.4000 5 HDPE bottle 1.09623.5011 10 Stainless steel drum 1.09623.6010 25 Stainless steel drum 1.09623.6025 25 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9181 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 % 2.5 HDPE bottle 8.22277.2500 3.00845.2500 4 Glass bottle 1.07048.4000 5 HDPE bottle 8.22277.2500 6 HDPE bottle 8.22277.2500 7 HDPE bottle 8.22277.2500 7 HDPE bottle 8.22277.2500 7 HDPE bottle 8.22277.2500 7 HDPE bottle 8.22277.2500 8	Ethanologina for analysis EMCUDE®	141 42 5	> 00 F 0/		< 0.2 W	1 l	Glass bottle	1.00845.1000
Ethyl acetate for analysis EMSURE® ACS, ISO, Reag. Ph Eur 141-78-6 ≥ 99.5 % ≤ 0.001 % ≤ 0.05 % □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	Ethanolamine for analysis EMSORE®	141-43-3	2 99.5 %		≥ 0.2 %	2.5 l	Glass bottle	1.00845.2500
Ethyl acetate for analysis EMSURE® ACS, ISO, Reag. Ph Eur 141-78-6 ≥ 99.5 % ≤ 0.001 % ≤ 0.005 % Stainless steel drum 1.09623.5011 10 Stainless steel drum 1.09623.6010 25 Stainless steel drum 1.09623.6025 25 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9026 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 %						1	HDPE bottle	1.09623.1000
Ethyl acetate for analysis EMSURE® ACS, ISO, Reag. Ph Eur 141-78-6 ≥ 99.5 % ≤ 0.001 % ≤ 0.05 % 5 HDPE bottle 1.09623.4000 25 Stainless steel drum 1.09623.6010 25 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9181 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 %						2.5	Glass bottle	1.09623.2500
Ethyl acetate for analysis EMSURE® ACS, ISO, Reag. Ph Eur 141-78-6 ≥ 99.5 % ≤ 0.001 % ≤ 0.05 % 5 HDPE bottle 1.09623.5011 10 Stainless steel drum 1.09623.6010 25 Stainless steel drum 1.09623.6025 25 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9181 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 %						2.5 1	HDPE bottle	1.09623.2511
ISO, Reag. Ph Eur 141-78-6 ≥ 99.5 % ≤ 0.001 % ≤ 0.001 % ≤ 0.003 % ≤ 0.001 %						4 1	Glass bottle	1.09623.4000
10 Stainless steel drum 1.09623.6010 25 Stainless steel drum 1.09623.6010 25 Stainless steel drum 1.09623.6025 25 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9181 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000 2.5 HDPE bottle 8.22277.2500 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 % 2.5 HDPE bottle 8.22277.2500 2.5 HDPE bottle 3.22277.2500 3.2		141-78-6	≥ 99.5 %	≤ 0.001 %	≤ 0.05 %	NEW 51	HDPE bottle	1.09623.5011
25 PE / Metal drum 1.09623.9026 180 PE / Metal drum 1.09623.9181 Ethyl acetate for analysis EMPARTA® ACS 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 Glass bottle 1.07048.4000 Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 % 2.5 HDPE bottle 8.22277.2500	227, 11223. 11. 22.					10 l	Stainless steel drum	1.09623.6010
Ethyl acetate FMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.2 % 4 I Glass bottle 1.07048.4000 2.5 I HDPE bottle 8.22277.2500						25 I	Stainless steel drum	1.09623.6025
Ethyl acetate for analysis EMPARTA® ACS						25 I	PE / Metal drum	1.09623.9026
Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 % 2.5 l HDPE bottle 8.22277.2500						180 I	PE / Metal drum	1.09623.9181
Ethyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 %	Ethyl acetate for analysis EMPARTA® ACS	141-78-6	≥ 99.5 %	≤ 0.003 %	≤ 0.2 %	4 1	Glass bottle	1.07048.4000
Etnyl acetate EMPLURA® 141-78-6 ≥ 99.5 % ≤ 0.003 % ≤ 0.1 % 5 I HDPF hottle 8 22277 5000		==		. 0 222 -:		2.5	HDPE bottle	8.22277.2500
51 1151 E BOUIC 0.22277.3000	Ethyl acetate EMPLURA®	141-78-6	≥ 99.5 %	≤ 0.003 %	≤ 0.1 %	5 I	HDPE bottle	8.22277.5000

Solvents E-H

	Product		CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Е							1 l	HDPE bottle	1.09621.1000
	Ethylene glycol for analysis EMSURE®		107.01.1	. 00 5 0/		- 0.4.0/	2.5	HDPE bottle	1.09621.2500
	Reag. Ph Eur, Reag. USP		107-21-1	≥ 99.5 %		≤ 0.1 %	4	Glass bottle	1.09621.4000
						-	25 I	PE canister	1.09621.9028
							1 l	HDPE bottle	1.00949.1000
	Ethylene glycol EMPLURA®		107-21-1	≥ 99.0 %		≤ 0.3 %	2.5 l	HDPE bottle	1.00949.2500
						-	25 I	PE canister	1.00949.9028
	Ethylene glycol monomethyl ether for						1	Glass bottle	1.00859.1000
	analysis EMSURE® ACS, Reag. Ph Eur		109-86-4	≥ 99.5 %	≤ 0.003 %	≤ 0.1 % ⁻	2.5	Glass bottle	1.00859.2500
							1 l	Glass bottle	1.09639.1000
	Ethyl(-)-L-lactate EMPLURA®		687-47-8	≥ 99.0 %		≤ 0.2 %	2.5 l	Glass bottle	1.09639.2500
							4 1	Glass bottle	1.09639.4000
							1 l	Glass bottle	1.09708.1000
	Ethyl methyl ketone for analysis EMSURE®						2.5 l	Glass bottle	1.09708.2500
	ACS, Reag. Ph Eur		78-93-3	≥ 99.5 %	≤ 0.001 %	≤ 0.05 % ⁻	4	Glass bottle	1.09708.4000
						-	25 I	Stainless steel drum	1.09708.6025
	Ethyl methyl ketone (2-Butanone) EMPLURA®						1 l	Glass bottle	1.06014.1000
						-	2.5 l	Glass bottle	1.06014.2500
			78-93-3	≥ 99.0 %		≤ 0.1 %	10 l	Metal drum	1.06014.9011
						- -	25 I	Stainless steel drum	1.06014.6025
						- -	190 l	Metal drum	1.06014.9190
_							1 l	Glass bottle	1.01771.1000
F	FAM Benzine DIN 51635		64742-49-0			-	5 I	Aluminum bottle	1.01771.5000
			-				25 I	Stainless steel drum	1.01771.6025
							1 l	HDPE bottle	1.09684.1000
	Formamide for analysis EMSURE®		75-12-7	≥ 99.5 %		≤ 0.1 % ⁻	2.5 I	HDPE bottle	1.09684.2500
							1 l	HDPE bottle	1.04008.1000
	Formamide EMPLURA®		75-12-7	≥ 99.0 %		≤ 0.3 %	2.5	HDPE bottle	1.04008.2500
						-	25 I	PE canister	1.04008.9025
EW							2.5 l	HDPE bottle	1.04063.2511
	Glycerol 85% (vegetable origin) for analysis EMSURE® Reag. Ph Eur			84.5 - 85.5	%	14.5 - 15.5 %	10 l	PE canister	1.04063.9011
	unarysis Erisone neug. Fit Edi					13.3 70 -	25 I	PE canister	1.04063.9026
EW							2.5	HDPE bottle	1.04057.2511
	Glycerol (vegetable origin) for analysis EMSURE® ACS, Reag. Ph Eur		56-81-5	≥ 99.5%		≤ 0.5 %	10 l	PE canister	1.04057.9011
	E. ISONE ACO, Neug. FII Eur					-	25 I	PE canister	1.04057.9026
Н							1 l	Glass bottle	1.04307.1000
	n-Heptane about 85 % EMPLURA®			≥ 85.0 % ≤ 0.005 %		_	2.5	Glass bottle	1.04307.2500
	n-neptane about 85 % EMPLORA®					-	4 1	Glass bottle	1.04307.4000

Ordering informationSolvents

Solvents H-I

	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Н						1 l	I Glass bottle I Glass bottle I HDPE bottle I Stainless steel drum I Stainless steel drum I Metal drum I Glass bottle I HDPE bottle I HDPE bottle I Metal drum I Stainless steel drum I Stainless steel drum I Glass bottle I HOPE bottle I Metal drum I Glass bottle I HDPE bottle I HDPE bottle I Glass bottle I Glass bottle I Stainless steel drum I Metal drum I Glass bottle I HDPE bottle I Glass bottle I Glass bottle I Glass bottle I HDPE bottle I Glass bottle	1.04379.1000
					-	2.5 Glass bottle 2.5 HDPE bottle 4 Glass bottle 10 Stainless steel drum 25 Stainless steel drum 190 Metal drum 1 Glass bottle 2.5 Glass bottle 2.5 HDPE bottle 10 Metal drum 25 Stainless steel drum 190 Stainless steel drum 190 Stainless steel drum 1 Glass bottle		1.04379.2500
					-	2.5	HDPE bottle	1.04379.2511
	n-Heptane for analysis EMSURE® Reag. Ph Eur	142-82-5	≥ 99.0 %	≤ 0.001 %	≤ 0.01 %	4	Glass bottle	1.04379.4000
	· · ·					10 l	Stainless steel drum	1.04379.6010
						25 I	Stainless steel drum	1.04379.6025
						190 l	Metal drum	1.04379.9190
					_	1 l	Glass bottle	1.04365.1000
					-	2.5	Glass bottle	1.04365.2500
	n-Heptane EMPLURA®	142-82-5	≥ 99.0 %	≤ 0.005 %	-	2.5	HDPE bottle	1.04365.2511
	Ti Fieptane Emi Loto	142 02 3	2 33.0 70	3 0.005 70	-	10 l	Metal drum	1.04365.9011
					-	25 I	Stainless steel drum	1.04365.6025
						190 l	Stainless steel drum	1.04365.6190
	Hexanes for analysis EMPARTA® ACS		≥ 98.5 %	≤ 0.01 %	-	1 l	Glass bottle	1.07060.1000
	Trondings for dilaryone 21 m / mm. / mee					4	Glass bottle	1.07060.4000
					-	1 l	Glass bottle	1.04306.1000
	n-Hexane about 85 % EMPLURA®		≥ 85.0 %		≤ 0.02 %	2.5	Glass bottle	1.04306.2500
						4 I	Glass bottle	1.04306.4000
	n-Hexane for analysis EMSURE® ACS				_	1 l	Glass bottle	1.04367.1000
					_	2.5 l	Glass bottle	1.04367.2500
		110-54-3	≥ 99.0 %	≤ 0.001 %	≤ 0.005 %	2.5	HDPE bottle	1.04367.2511
					_	25 I	Stainless steel drum	1.04367.6025
						190 l	Metal drum	1.04367.9190
					-	1 l	Glass bottle	1.04374.1000
	U C L : FMGURES AGG				-	2.5	Glass bottle	1.04374.2500
	n-Hexane for analysis EMSURE® ACS, Reag. Ph Eur	110-54-3	≥ 96.0 %	≤ 0.001 %	≤ 0.01 %	2.5 l	HDPE bottle	1.04374.2511
						4	Glass bottle	1.04374.4000
			-			25 I	Stainless steel drum	1.04374.6025
					-	2.5	HDPE bottle	1.07023.2511
	n-Hexane for analysis EMPARTA® ACS	110-54-3	≥ 98.5 %	≤ 0.001 %	≤ 0.02 %	4		1.07023.4000
						25 I		
					-	1	Glass bottle	1.04368.1000
					-	2.5	Glass bottle	1.04368.2500
					-	2.5	HDPE bottle	1.04368.2511
	n-Hexane EMPLURA®	110-54-3	≥ 95.0 %		≤ 0.02 %	10	Metal drum	1.04368.9011
					-	25 I	Stainless steel drum	
					-	190 l	Stainless steel drum	
	Taxanid a sababa FMDI USAS	122.02.0				190 l	Metal drum	1.04368.9190
I	Isoamyl acetate EMPLURA®	123-92-2	≥ 99.0 %		≤ 0.1 %	1	Glass bottle	1.01231.1000
					-	11	Glass bottle	1.00979.1000
	isoamyl alcohol for analysis EMSURE® ACS, Reag. Ph Eur	123-51-3	≥ 99.0 %	≤ 0.002 %	≤ 0.2 %	2.5	Glass bottle	1.00979.2500
	,				-	41	Glass bottle	1.00979.4000
			-			25 I	Stainless steel drum	1.009/9.6025

Solvents I-M

	Solvents 1-M							
	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
I	Isoamyl alcohol (mixture of isomers) for	30899-19-5			≤ 0.3 % ⁻	1 l	Glass bottle	1.00978.1000
	determination of fat acc. to Gerber					10 l	Stainless steel drum	1.00978.6010
	Isobutanol for analysis EMSURE® ACS,	78-83-1	≥ 99.0 %	≤ 0.001 %	≤ 0.05 % ⁻	1	Glass bottle	1.00984.1000
	Reag. Ph Eur	70 03 1				2.5	Glass bottle	1.00984.2500
					-	2.5	Glass bottle	1.00985.2500
	Isobutanol (Isobutyl alcohol) EMPLURA®	78-83-1	≥ 98.5 %		≤ 0.05 %	25 I	Stainless steel drum	1.00985.6025
						190 l	Metal drum	1.00985.9190
					-	1 l	Glass bottle	1.06146.1000
	Isobutyl methyl ketone for extraction	108-10-1	≥ 99.0 %	≤ 0.001 %	≤ 0.1 % ·	2.5	Glass bottle	1.06146.2500
	analysis EMSURE® ACS, Reag. Ph Eur	100 10 1	_ 33.0 70	_ 0.001 70	_ 0.1 /0	4 I	Glass bottle	1.06146.4000
						25 I	Stainless steel drum	1.06146.6025
					-	2.5	Glass bottle	8.20820.2500
	Isobutyl methyl ketone EMPLURA®	108-10-1	≥ 99.0 %		-	10 l	Stainless steel drum	8.20820.6010
						25 I	Stainless steel drum	8.20820.6025
	Isohexane for analysis EMSURE®	92112-69-1	> 95 0 %	≤ 10 mg/l	≤ 0.01 % ⁻	1	Glass bottle	1.04333.1000
	Isoliexalie for allalysis EMSORE	92112-09-1	2 93.0 70	2 10 mg/1	3 0.01 70	2.5	Glass bottle	1.04333.2500
					-	1	Glass bottle	1.04727.1000
					-	2.5	Glass bottle	1.04727.2500
	Isooctane for analysis EMSURE® ACS, Reag. Ph Eur	540-84-1	≥ 99.5 %	≤ 0.001 %	≤ 0.01 %	4	Glass bottle	1.04727.4000
					-	10 I	Stainless steel drum	1.04727.6010
						25 I	Stainless steel drum	1.04727.6025
K	Kerosene EMPLURA®	64742-48-9				4	Glass bottle	1.09774.4000
М						1	Glass bottle	1.06009.1000
					-	1 l	HDPE bottle	1.06009.1011
					-	2.5	Glass bottle	1.06009.2500
					-	2.5	HDPE bottle	1.06009.2511
	Methanol for analysis EMSURE®	67-56-1	≥ 99.9 %	≤ 0.0005 %	≤ 0.05 % ⁻	4	Glass bottle	1.06009.4000
	ACS, ISO, Reag. Ph Eur	0, 30 1	_ 33.3 70	_ 0.0003 70	_ 0.05 %	5 I	HDPE bottle	1.06009.5000
					-	10 l	Stainless steel drum	1.06009.6010
					-	25 I	Stainless steel drum	1.06009.6025
					-	25 I	PE / Metal drum	1.06009.9025
						180 l	PE / Metal drum	1.06009.9180
					-	2.5 I	HDPE bottle	1.07018.2511
	Methanol for analysis EMPARTA® ACS	67-56-1	≥ 99.8 %	≤ 0.001 %	≤ 0.1 %	4 1	Glass bottle	1.07018.4000
						25 I	Metal drum	1.07018.9026
					-	1	HDPE bottle	8.22283.1000
					-	2.5	HDPE bottle	8.22283.2500
	Methanol EMPLURA®	67-56-1	≥ 99.5 %	≤ 0.001 %	≤ 0.1 % ·	5 I	HDPE bottle	8.22283.5000
		0, 30 1		_ 0.001 /0	_ 0.1 /0	10 I	Metal drum	8.22283.9011
					-	25 I	Metal drum	8.22283.9025
						180 I	PE / Metal drum	8.22283.9180
	L-Methoxy-2-propanol EMPLURA®	107-98-2	> 99 5 %		< 0.1 %	1 l	Glass bottle	1.16738.1000
		10, 50 2	≥ 99.5 % ≤		≤ 0.1 % -	25 I	Stainless steel drum	1.16738.6025

Ordering informationSolvents

Solvents M-P

	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
	Froduct	CAS NO.	runty (GC)	Lvap. residue	water	1 I	Glass bottle	1.06059.1000
	Methyl benzoate EMPLURA®	93-58-3	≥ 99.0 %		≤ 0.1 %	2.5 l	Glass bottle	1.06059.2500
	Methyl benzoate EMPLORA-	93-30-3	2 99.0 70		2 0.1 70	2.5 I	Stainless steel drum	
						23 1	Stairliess steel druin	1.00039.0023
	1-Methyl-2-pyrrolidone for analysis EMPARTA® ACS	872-50-4	≥ 99.0 %		≤ 0.05 %	4 I	Glass bottle	1.07063.4000
					_	1	HDPE bottle	8.06072.1000
	1 Mahlad 2 manalida a FMDI IIDA®	072 50 4	> 00 F 0/				HDPE bottle	8.06072.2500
	1-Methyl-2-pyrrolidone EMPLURA®	8/2-50-4	≥ 99.5 %		≤ 0.1 %	10 I	Metal drum	8.06072.9011
					_	25 I	PE canister	8.06072.9025
				_		1	Glass bottle	1.08292.1000
	2-Methyltetrahydrofuran EMPLURA®	96-47-9	≥ 99.0 %		≤ 0.1 %	2.5	Glass bottle	1.08292.2500
					-	4 1	Glass bottle	1.08292.4000
						1	Glass bottle	1.00991.1000
	1-Octanol EMPLURA®	111-87-5	≥ 99.0 %		≤ 0.1 %	25 I	Stainless steel drum	1.00991.6025
			,			1	Glass bottle	1.07176.1000
	n-Pentane about 95 % EMPLURA®	109-66-0	≥ 95.0 %	≤ 0.005 %	-	5 I	Aluminum bottle	1.07176.5000
					-	190 l	Metal drum	1.07176.9190
			1	Glass bottle	1.07177.1000			
	n-Pentane for analysis EMSURE®	109-66-0	≥ 99.0 %	≤ 0.001 %	≤ 0.01 %	2.5 I	Glass bottle	1.07177.2500
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-	4	Glass bottle	1.07177.4000
	n-Pentane EMPLURA®					11	Glass bottle	8.20957.1000
		109-66-0	≥ 99.0 %		-	2.5	Glass bottle	8.20957.2500
		103 00 0	_ 55.0 %		-	25 I	Metal drum	8.20957.9025
						1	Glass bottle	1.09718.1000
	Petroleum for analysis EMSURE®	64742-48-9)		≤ 0.01 %	2.5 l	Glass bottle	1.09718.2500
	, , , , , , , , , , , , , , , , , , ,				-	25 I	Stainless steel drum	1.09718.6025
	Debudence hagging hailing again					11	Glass bottle	1.01786.1000
	Petroleum benzine boiling range 30 – 50°C for analysis EMSURE®	64742-49-0)	≤ 0.003 %	≤ 0.01 % -	2.5	Glass bottle	1.01786.2500
						1	Glass bottle	1.00915.1000
	Petroleum benzine boiling range to about	64742-49-0	1	≤ 0.002 %	≤ 0.01 %	5 I	Aluminum bottle	1.00915.5000
	40°C EMPLURA®	01712130	,	2 0.002 70	_ 0.01 %	25 I	Stainless steel drum	1.00915.6025
						1	Glass bottle	1.01775.1000
					-	2.5	Glass bottle	1.01775.2500
					-	4	Glass bottle	1.01775.4000
	Petroleum benzine for analysis boiling	64742-49-0	1	≤ 0.001 %	≤ 0.01 %	5 1	Aluminum bottle	1.01775.5000
	range 40 – 60°C EMSURE® ACS, ISO	04742-49-0	,	5 0.001 70	5 0.01 70	10		
					-		Stainless steel drum	1.01775.6010
					-	25	Stainless steel drum	1.01775.6025
						190 l	Metal drum	1.01775.9190
	Petroleum benzine boiling range			. 0 001 01	- 0.01.01	1	Glass bottle	1.01773.1000
	40 – 80°C EMPLURA®			≤ 0.001 %	≤ 0.01 %	5	Aluminum bottle	1.01773.5000
						25 I	Stainless steel drum	1.01773.6025
	Petroleum benzine boiling range 50 – 70°C EMSURE® Reag. Ph Eur					500 ml	Glass bottle	1.59542.0500

Solvents P

Solvents P							
Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Potroloum honzino hoiling rongo					1 l	Glass bottle	1.00910.1000
Petroleum benzine boiling range 50 – 70°C EMPLURA®			≤ 0.001 %	≤ 0.01 %	5 I	Aluminum bottle	1.00910.5000
				-	25 I	Stainless steel drum	1.00910.6025
					1	Glass bottle	1.01774.1000
Petroleum benzine boiling range			≤ 0.001 %	- ≤ 0.01 % -	2.5 l	Glass bottle	1.01774.2500
60 – 80°C for analysis EMSURE®			≤ 0.001 70	≤ 0.01 70	5 I	Aluminum bottle	1.01774.5000
					25 I	Stainless steel drum	1.01774.6025
Petroleum benzine boiling range 80 – 100°C for analysis EMSURE®	64742-49-	-0	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.01777.1000
Petroleum benzine boiling range 100 – 120°C for analysis EMSURE® Reag. Ph Eur	64742-49-	-0	≤ 0.001 %	≤ 0.01 %	1	Glass bottle	1.01781.1000
					1 l	Glass bottle	1.01770.1000
Petroleum benzine boiling range 100 – 140°C (Naphta Benzine) EMPLURA®	64742-49-	-0	≤ 0.005 %	≤ 0.01 %	5 I	Aluminum bottle	1.01770.5000
2.00 2 (25 I	Stainless steel drum	1.01770.6025	
					1 l	Glass bottle	1.01769.1000
					5 I	Aluminum bottle	1.01769.5000
Petroleum ether for denaturation				_	10 l	Stainless steel drum	1.01769.6010
				-	25 I	Stainless steel drum	1.01769.6025
					190 l	Metal drum	1.01769.9190
Piperidine for analysis EMSURE®	110-89-4	≥ 99.0 %	≤ 0.1 %	≤ 0.3 %	500 ml	Glass bottle	1.09724.0500
1,2-Propanediol EMPLURA®	57-55-6	≥ 99.0 %		≤ 0.2 % -	1	HDPE bottle	8.22324.1000
,2-Propariedioi EMPLORA®	37 33 0				5 I	HDPE bottle	8.22324.5000
					1 l	Glass bottle	1.00997.1000
1-Propanol for analysis EMSURE®	71-23-8	≥ 99.5 %	≤ 0.001 %	≤ 0.05 % -	2.5	Glass bottle	1.00997.2500
ACS, Reag. Ph Eur	/1-23-0	E 55.5 70	≤ 0.001 %	≥ 0.05 % -	4 1	Glass bottle	1.00997.4000
					25 I	Stainless steel drum	1.00997.6025
					1	Glass bottle	1.00996.1000
1-Propanol EMPLURA®	71-23-8	≥ 99.0 %		≤ 0.2 %	2.5 l	Glass bottle	1.00996.2500
				-	25 I	Stainless steel drum	1.00996.6025
					1	Glass bottle	1.09634.1000
				-	1	HDPE bottle	1.09634.1011
				-	2.5 l	Glass bottle	1.09634.2500
				-	2.5 l	HDPE bottle	1.09634.2511
2 Duananal fau analysia FMCUDE®				-	4 I	Glass bottle	1.09634.4000
2-Propanol for analysis EMSURE® ACS, ISO, Reag. Ph Eur	67-63-0	≥ 99.8 %	≤ 0.001 %	≤ 0.05 % -	5 I	HDPE bottle	1.09634.5000
				-	10 l	Stainless steel drum	
				-	25 I	Stainless steel drum	
	_			-	190 l	Stainless steel drum	
	_			-			
					180 l	PE / Metal drum	1.09634.9180
2.8	67.60.5	. 00 = 0:	. 0.001.01	- 0.00	2.5	HDPE bottle	1.07022.2511
2-Propanol for analysis EMPARTA® ACS	67-63-0	≥ 99.5 %	≤ 0.001 %	≤ 0.2 % 4 I Glass bottle		1.07022.4000	
					25 I	Metal drum	1.07022.9026

Ordering informationSolvents

Solvents P-T

	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Р						1 l	HDPE bottle	8.18766.1000
					_	2.5	HDPE bottle	8.18766.2500
	2-Propanol EMPLURA®	67-63-0	≥ 99.5 %	≤ 0.002 %	≤ 0.2 %	10 l	Metal drum	8.18766.9011
					_	25 I	Metal drum	8.18766.9025
						100 ml	Glass bottle	1.09728.0100
					_	500 ml	Glass bottle	1.09728.0500
					_	1	Glass bottle	1.09728.1000
	Pyridine for analysis EMSURE® ACS, Reag. Ph Eur	110-86-1	≥ 99.5 %	≤ 0.002 %	≤ 0.1 %	2.5	Glass bottle	1.09728.2500
	incug. 111 Edi				_	4 1	Glass bottle	1.09728.4000
					_	25 I	Stainless steel drum	1.09728.6025
					_	190 l	Metal drum	1.09728.9190
						0.5 l	Glass bottle	1.94601.0500
	Pyridine for analysis EMPARTA® ACS	110-86-1	≥ 99.0 %	≤ 0.002 %	≤ 0.1 %	2.5	Glass bottle	1.94601.2500
					_	4 1	Glass bottle	1.94601.4000
						1 l	Glass bottle	1.07462.1000
	D II. FMDUIDAS	110.06.1		. 0.01.0/		2.5	Glass bottle	1.07462.2500
	Pyridine EMPLURA®	110-86-1	≥ 99.0 %	≤ 0.01 %	≤ 0.1 % -	25 I	Stainless steel drum	1.07462.6026
					_	190 l	Metal drum	1.07462.9190
Т	Tetrachloroethylene EMPLURA®			1 l Glass bottle			Glass bottle	1.00964.1000
		127.10.1		. 0 001 0/		2.5	Glass bottle	1.00964.2500
		127-18-4	≥ 99.0 %	≤ 0.001 %	≤ 0.005 % -	25 I	Stainless steel drum	1.00964.6025
					_	190 l	Metal drum	1.00964.9190
						1 l	Glass bottle	1.09731.1000
						2.5	Glass bottle	1.09731.2500
	Tetrahydrofuran for analysis EMSURE®	109-99-9	≥ 99.8 %	≤ 0.0005 %		4 I	Glass bottle	1.09731.4000
	ACS, Reag. Ph Eur	109-99-9	2 33.0 %			10 l	Stainless steel drum	1.09731.6010
						25 I	Stainless steel drum	1.09731.6025
						190 l	Metal drum	1.09731.9190
	Tetrahydrofuran for analysis	109-99-9	≥ 99.5 %	≤ 0.03 %	≤ 0.05 % -	2.5	Glass bottle	1.07025.2500
	EMPARTA® ACS					4 1	Glass bottle	1.07025.4000
					_	1 l	Glass bottle	1.08114.1000
					_	2.5 l	Glass bottle	1.08114.2500
	Tetrahydrofuran EMPLURA®	109-99-9	≥ 99.0 %		≤ 0.1 %	25 I	Stainless steel drum	1.08114.6025
					_	190 l	Stainless steel drum	1.08114.6190
						190 l	Metal drum	1.08114.9190
					_	1 l	Glass bottle	1.08325.1000
					_	2.5 l	Glass bottle	1.08325.2500
					_	2.5 l	HDPE bottle	1.08325.2511
	Toluene for analysis EMSURE® ACS, ISO,	108-88-3	≥ 99.9 %	≤ 0.0005 %	≤ 0.03 %	4 1	Glass bottle	1.08325.4000
	Reag. Ph Eur	100 00 0		_ 0.0000 /0	_ 5.55 /	ЕW 5 I	HDPE bottle	1.08325.5011
					=	10 l	Stainless steel drum	1.08325.6010
			Stainless steel drum	1.08325.6025				
						190 l	Metal drum	1.08325.9190

Solvents T-Z

	Solvents 1-Z							
	Product	CAS No.	Purity (GC)	Evap. residue	Water	Content	Packaging	Ord. No.
Т					_	2.5 l	Glass bottle	1.07019.2500
	Toluene for analysis EMPARTA® ACS	108-88-3	≥ 99.5 %	≤ 0.001 %	≤ 0.03 %	2.5 l	HDPE bottle	1.07019.2511
						4 I	Glass bottle	1.07019.4000
					_	1 l	Glass bottle	1.08323.1000
					_	2.5 l	Glass bottle	1.08323.2500
	Toluene EMPLURA®	108-88-3	≥ 99.0 %		_	10 l	Metal drum	1.08323.9011
					_	25 I	Stainless steel drum	1.08323.6025
						190 l	Metal drum	1.08323.9190
	1,1,2-Trichlorotrifluoroethane for analysis EMSURE® Reag. Ph Eur	76-13-1	≥ 99.8 %	≤ 0.0005 %	≤ 0.005 %	2.5	Glass bottle	1.08440.2500
	Triable and arrive FMDLUDA®	102-71-6			≤ 0.3 % -	5 I	PE canister	8.22341.5000
	Triethanolamine EMPLURA®	102-71-6			≤ 0.3 % 	25 I	PE canister	8.22341.9026
U	n-Undecane for analysis EMSURE®	1120-21-4	≥ 99.0 %		≤ 0.01 %	100 ml	Glass bottle	1.09795.0100
W					_	4 I	Titripac	1.16754.4000
	Water for analysis EMSURE®	7732-18-5	≥ 99.0 %	≤ 1 mg/l	≤ 0.01 %	5 I	HDPE bottle	1.16754.5000
			,			10 l	Titripac	1.16754.9010
X					_	1 l	Glass bottle	1.08684.1000
	p-Xylene for analysis EMSURE® ISO	106-42-3	≥ 99.0 %	≤ 0.001 %	≤ 0.01 %	2.5 l	Glass bottle	1.08684.2500
						25 I	Stainless steel drum	1.08684.6025
NEW	Xylene (isomeric mixture) for analysis	1330-20-7	> 98 5 %	≤ 0.002 %	≤ 0.03 % -	2.5	Glass bottle	1.08297.2500
	EMSURE® ACS, ISO, Reag. Ph Eur	1330-20-7	2 90.5 70	3 0.002 70	3 0.03 70	4 I	Glass bottle	1.08297.4000
NEW	Xylenes (isomeric mixture) for analysis	1330-20-7	> 08 5 %	≤ 0.002 %	≤ 0.05 % -	2.5 l	Glass bottle	1.08633.2500
	EMPARTA® ACS	1550-20-/	≥ 30.J 70	≤ 0.002 % ≤ 0.05 % ⁻	4 I	Glass bottle	1.08633.4000	
NEW	Yylanas (isomaric miytura) EMPLUDA®	1330-20-7		≤ 0.002 %	≤ 0.05 % -	2.5 l	Glass bottle	1.08634.2500
	vlenes (isomeric mixture) EMPLURA®	1330-20-7		3 0.002 70	= 0.05 70	4 I	Glass bottle	1.08634.4000

[▶] For more details about our packaging, please see "Packaging and Safe Handling" on page 42

GENERAL APPLICATION CHEMICALS

Safety, simplicity and sustainability

We offer a comprehensive range of general application chemicals, which are designed to maximize safety and simplicity in daily lab work. Wherever possible, we use natural products to ensure that we both work more sustainably and achieve our environmental targets.

Learn more

The following pages present a selection of our general application chemicals. For further products and information, please visit **www.emdmillipore.com/safety-products**, or download our Inorganic Reagents catalog on **www.emdmillipore.com/inorganic-reagents-catalog**.

► For more information about drying agents see page 130





Cleaning Applications

Extran® cleaning agents for reliable, residue-free cleaning

For over 30 years, Extran® cleaning agents have enabled precise scientific working procedures in labs and production facilities around the world. Thanks to their thorough, residue-free cleaning, Extran® products ensure that everything that comes into contact with chemicals or biological substances is free of impurities – before and after use. Despite their exceptional cleaning strength, Extran® products contain biodegradable ingredients that are free of toxins, so they are gentle on the environment and on the health of laboratory staff.

Safer

Extran® cleaning agents not only supports your work, but also protects your health. Our cleaning agents contain no chlorine or other toxic ingredients, and avoid all scents and dyestuffs. Extran® products are also free of silicones, oxidants, and NTA (nitrilotriacetic acid).

Greener

Extran® cleaning agents are produced from biodegradable active ingredients under strictly controlled conditions, and fulfill the highest standards in environmental protection. In almost all cases, Extran® cleaning agents avoid the use of the toxic cleaning agent chromosulfuric acid, which is still common on the market.

Simpler

For added certainty, we provide a practical and easy-to-use application aid to prove the absence of nonionic surfactant residues by means of a photometric test. This helps you prepare your cleaning validation, thus saving you time and costs.

Learn more

The following pages present a selection of Extran® cleaning agents. For further products and information, please visit **www.emdmillipore.com/extran**, or download our Inorganic Reagents catalog on **www.emdmillipore.com/inorganic-reagents-catalog**.

Your advantages

- Reliable, residue-free all-purpose cleaner
- Free from NTA thus safer for lab staff
- Free from scents and dyestuffs
- Free from chlorine or other toxic ingredients
- All active ingredients are biodegradable
- Validation support to prove the absence of surfactants



Cleaning Applications

Extran® cleaning agents for manual washing

Manual washing

Extran® MA cleaning agents for manual washing are universally applicable concentrates for the production of water baths. Simply immerse equipment in the diluted solution for reliable, residue-free cleaning.

General application advice

- Use water to prepare the cleaning solution. If slight sedimentation of the hardener occurs, more Extran® cleaning agents should be added. De-mineralized water boosts the cleaning effect.
- Completely immerse items that need to be cleaned in the solution.
- Once cleaning is finished, rinse items first with tap water, then with de-mineralized water.
- Baths can be used for long periods without a noticeable decrease in the cleaning effect.
- If necessary, the rinsing liquid can be supplemented with fresh Extran[®] cleaning agents.
- Application duration is less than 2 hours.
- For difficult cases (e.g. plaster, blood or heavy oil), leave items in the bath a little longer.
- Heat speeds up the cleaning process.
- Extran® "cleaning agents" vs "products" are also ideally suited to ultrasound cleaning.





Dosing aid

For dependable and economical cleaning, the detergent must be dosed precisely: too little cleans insufficiently, too much leaves residues. To ensure accurate dosing and safe handling during manual cleaning, we offer 1 l bottles with reusable dosing aids. They can also be ordered separately if required.

Extran® MA 01 liquid, alkaline	Content	Packaging	Ord. No.
Extran® MA 01 alkaline	1 l	HDPE bottle	1.07555.1000
	2.5	HDPE bottle	1.07555.2500
	5 I	HDPE bottle	1.07555.5000
	10 l	PE canister	1.07555.9010
	25 I	PE canister	1.07555.9025

Extran® MA 02 liquid, neutral	Content	Packaging	Ord. No.
Extran® MA 02 neutral	2.5 l	HDPE bottle	1.07553.2500
	5 I	HDPE bottle	1.07553.5000
	10 l	PE canister	1.07553.9010
	25 I	PE canister	1.07553.9025

Extran® MA 05 liquid, alkaline, phosphate-free	Content	Packaging	Ord. No.
Extran® MA 05 alkaline, phosphate-free concentrate	2.5 l	HDPE bottle	1.40000.2500
	5 I	HDPE bottle	1.40000.5000
	10 l	PE canister	1.40000.9010
	25 I	PE canister	1.40000.9025
Accessories			Ord. No.
Dosing unit (PP) 20 – 28 ml for 1 l Extran® bottle			9.57571.1020
Adapter made from PP, for 10 I and 25 I Extran®			9.67212.0001

Cleaning Applications

Extran® cleaning agents for automated cleaning

Automated cleaning

Extran® AP automated cleaning agents were created and tested in cooperation with leading appliance manufacturers especially for use in laboratory washing machines. The products ensure effective cleaning, while significantly limiting foam formation and minimizing residues.

Extran® AP 12 powder, alkaline	Content	Packaging	Ord. No.
Extran® AP 12 alkaline	2 kg	HDPE bottle	1.07563.2000
	10 kg	PE bucket	1.07563.9010
	25 kg	PE drum	1.07563.9025
Extran® AP 17 liquid, alkaline	Content	Packaging	Ord. No.
Extran® AP 17 liquid, alkaline concentrate	2.5 l	HDPE bottle	1.40006.2500
	5 I	HDPE bottle	1.40006.5000
	10 l	PE canister	1.40006.9010
	25 I	PE canister	1.40006.9025
Extran® AP 21 liquid, acidic with phosphoric acid	Content	Packaging	Ord. No.
Extran® AP 21 acidic with phosphoric acid	2.5 l	HDPE bottle	1.07559.2500
	10 l	PE canister	1.07559.9010
	25 I	PE canister	1.07559.9025
Extran® AP 22 liquid, acidic with citric acid	Content	Packaging	Ord. No.
Extran® AP 22 acidic with citric acid	2.5 l	HDPE bottle	1.07561.2500
	10 l	PE canister	1.07561.9010
	25 I	PE canister	1.07561.9025

Universal adapter

Larger volumes of detergent, such as 10 and 25 l cans, are typically used for cleaning equipment. The cans should be connected tightly to washing machines to prevent spraying and potential health risks. Since various types of machines are used around the world with different connection systems, we have designed a universal adapter that fits them all. It enables secure connection between different machines and detergent cans to avoid spills, protect personnel and prevent external contamination.

Your advantages

- Safety: Secure connection between cans and washing machines prevents spills and protects users
- Reliability: External (airborne) contamination is avoided, thus analytical results are unaffected



Absorbents for spilled liquids

Chemizorb® absorbents for safe and swift absorption

Accidents happen in every lab. With Chemizorb® absorbents, you can remove aggressive or unpleasant spilled liquids quickly and safely. Chemizorb® absorbents consist of porous mineral or synthetic copolymers that are chemically inert, and are capable of taking up 100 to 400 percent of their own weight in liquid material.

Learn more

For further products and information, please visit **www.emdmillipore.com/chemizorb**, or download our Inorganic Reagents catalog on

www.emdmillipore.com/inorganic-reagents-catalog.





Chemizorb® powder and granule absorbents are insoluble in water and in all other media that are liquid at room temperature. These "all-rounders" are suitable for removing nearly all kinds of aqueous spills, such as acids, alkalis and solvents.

Chemizorb® powder	Content	Packaging	Ord. No.
Chemizorb® powder absorbent for spilled liquids	500 g	HDPE bottle	1.02051.0500
	25 kg	Fibre carton	1.02051.9025
Chemizorb® granules	Content	Packaging	Ord. No.
Chemizorb® granules absorbent for spilled liquids	1 kg	HDPE bottle	1.01568.1000
	5 kg	Bucket, plastic	1.01568.5000
	20 kg	Paper sack	1.01568.9020
	20 kg	PE drum	1.01568.9021



The »specialists«

We offer specific absorbents for alkalis, acids, and hydrofluoric acid. Each contains special carrier materials and water-soluble neutralizers, as well as pH indicators that help you visually monitor the neutralization of the spilled chemicals. Please note that the reaction may generate heat and gas.

Chemizorb® OH-	Content	Packaging	Ord. No.
Chemizorb® OH ⁻ absorbent and neutralizer for spilled alkalis, with indicator	1 kg	HDPE bottle	1.01596.1000
Chemizorb® H+	Content	Packaging	Ord. No.
Chemizorb® H+ absorbent and neutralizer for spilled	500 g	HDPE bottle	1.02491.0500
acids, with indicator	2.5 kg	Bucket, plastic	1.02491.2500
Chemizorb® HF	Content	Packaging	Ord. No.
Chemizorb $^{\! \otimes \! \! }$ HF absorbent and neutralizer for spilled hydrofluoric acid, with indicator	1 kg	HDPE bottle	1.01591.1000

The »all-in-one« set for mercury

Chemizorb® Hg kit Mercury is an all-inclusive set of reagents and auxiliaries for safe and complete removal of drops of mercury and traces of elementary mercury. The reagents in the set are sufficient for decontaminating an area of around one square meter.

Chemizorb® Hg	Content	Packaging	Ord. No.
Chemizorb® Hg Reagents and accessories for absorbent for mercury		PE case	1.12576.0001
1 set consisting of: 500 g of reagent 1, 100 ml of reagent 2, one sma	ll tub, one l	large disposal o	can, protective gloves,
Chemizorb® Hg reagents refill pack for Ord. No. 1.12576.0001	1 set	PE can	1.01569.0001
1 set consisting of: 500 g reagent 1 and 100 ml reagent 2			

Drying Agents

Safe, environmentally friendly desiccants

Our drying agents are not only effective and easy to use, but also support sustainability and safety in the lab. For example, we offer silica gels with or without orange or brown indicators as an alternative to silica gel with blue indicator, which is known to be toxic and carcinogenic due to the presence of cobalt chloride.

Your advantages

- Reliability: Thorough drying minimizes the effects of moisture on products to maintain their original condition
- Convenience: Ease of use saves time and increases lab productivity
- Cost efficiency: Effective drying increases the longevity of your products and avoids costly damages



Safety information

The use of drying agents carries potential risks. These are listed below for your safety.

- Acidic and basic drying agents can be corrosive
- Magnesium perchlorate can be explosive
- Sodium and potassium can be explosive when in contact with certain organic substances, water or chlorinated hydrocarbons
- Drying agents that develop hydrogen during the drying process must be used in a well-ventilated fume chamber

Learn more

The following pages present a selection of the most important drying agents. For further products, information and advice, please visit **www.emdmillipore.com/safety-products**, or download our Inorganic Reagents catalog on **www.emdmillipore.com/inorganic-reagents-catalog**.

Drying Agents

Safe, environmentally friendly desiccants

Calcium chloride [CaCl ₂]	CAS No.	Content	Packaging	Ord. No.		
	10043 53 4	500 g	HDPE bottle	1.02378.0500		
Calcium chloride anhydrous powder Reag. Ph Eur	10043-52-4	2.5 kg	HDPE bottle	1.02378.2500		
Calcium chloride anhydrous, granular ~ 1 – 2 mm	10043 53 4	1 kg	500 g HDPE bottle 1.02378.050 2.5 kg HDPE bottle 1.02378.250 1 kg HDPE bottle 1.02379.100 5 kg HDPE bottle 1.02379.500 1 kg HDPE bottle 1.02391.100 5 kg Fibre carton 1.02391.500 25 kg Fibre carton 1.02391.902 1 kg HDPE bottle 1.02392.100 5 kg Fibre carton 1.02392.500			
	10043-52-4	5 kg	HDPE bottle	1.02379.5000		
		1 kg	1 kg HDPE bottle 1.02391			
Calcium chloride anhydrous, granular ~ 2 – 6 mm	10043-52-4	5 kg	Fibre carton	DPE bottle 1.02378.0500 DPE bottle 1.02378.2500 DPE bottle 1.02379.1000 DPE bottle 1.02379.5000 DPE bottle 1.02391.1000 ibre carton 1.02391.5000 ibre carton 1.02391.9025 DPE bottle 1.02392.1000 ibre carton 1.02392.5000		
		25 kg	1.02391.9025			
Calcium chloride anhydrous, granular ~ 6 – 14 mm		1 kg	HDPE bottle	1.02392.1000		
	10043-52-4	5 kg	500 g HDPE bottle 1.02378.050 2.5 kg HDPE bottle 1.02378.250 1 kg HDPE bottle 1.02379.100 5 kg HDPE bottle 1.02379.500 1 kg HDPE bottle 1.02391.100 5 kg Fibre carton 1.02391.500 25 kg Fibre carton 1.02391.902 1 kg HDPE bottle 1.02392.100 5 kg Fibre carton 1.02392.500			
		25 kg	Fibre carton	1.02392.9025		

Desiccant sachets [SiO ₂]	Content	Packaging	Ord. No.
Desiccant sachet 10 g silica gel with humidity indicator (orange gel) sachet: 7×9 cm	50 units	Metal can	1.03804.0001
Desiccant sachet 100 g silica gel with humidity indicator (orange gel) sachet: 15 x 14 cm	10 units	Metal can	1.03805.0001
Desiccant sachet 250 g silica gel with humidity indicator (orange gel) sachet: 15 x 20.5 cm	10 units	Metal can	1.03806.0001
Desiccant sachet 3 g silica gel with humidity indicator (orange gel) sachet: 4 x 7 cm	100 units	Metal can	1.03803.0001
	1000 units	Fibre carton	1.03803.0002

[▶] Further desiccant sachets, e.g. 500 g, on request.



Molecular sieves

Molecular sieves	CAS No.	Content	Packaging	Ord. No.	
		250 g	HDPE bottle	1.05704.0250	
Molecular sieve 0.3 nm beads ~ 2 mm ¹⁾	1318-02-1	2-1 1 kg HDPE bottle	1.05704.1000		
		10 kg	Bucket, plastic	1.05704.9010	
Molecular sieve 0.3 nm beads, with moisture indicator ~ 2 mm ¹⁾		250 g	250 g HDPE bottle 1.05704.0250 1 kg HDPE bottle 1.05704.1000 10 kg Bucket, plastic 1.05704.9010 250 g HDPE bottle 1.05734.0250 1 kg HDPE bottle 1.05734.1000 250 g HDPE bottle 1.05741.0250 1 kg HDPE bottle 1.05708.0250 1 kg Glass bottle 1.05708.1000 10 kg Bucket, plastic 1.05708.9010 250 g Glass bottle 1.05739.0250 1 kg Glass bottle 1.05739.1000 1 kg HDPE bottle 1.05743.1000 250 g Glass bottle 1.05705.0250		
	_	1 kg	HDPE bottle	1.05734.1000	
Molecular sieve 0.3 nm rods \sim 1.6 mm (1/16")	1210.02.1	250 g	250 g HDPE bottle 1.05704.0250 1 kg HDPE bottle 1.05704.1000 10 kg Bucket, plastic 1.05704.9010 250 g HDPE bottle 1.05734.0250 1 kg HDPE bottle 1.05734.1000 250 g HDPE bottle 1.05741.0250 1 kg HDPE bottle 1.05741.1000 250 g Glass bottle 1.05708.0250 1 kg Glass bottle 1.05708.1000 250 g Glass bottle 1.05739.0250 1 kg Glass bottle 1.05739.1000 1 kg HDPE bottle 1.05743.1000 250 g Glass bottle 1.05705.0250 1 kg Glass bottle 1.05705.0250 1 kg Glass bottle 1.05705.1000		
	1318-02-1	1 kg	250 g HDPE bottle 1.05704.0250 1 kg HDPE bottle 1.05704.1000 10 kg Bucket, plastic 1.05704.9010 250 g HDPE bottle 1.05734.0250 1 kg HDPE bottle 1.05734.1000 250 g HDPE bottle 1.05741.0250 1 kg HDPE bottle 1.05741.1000 250 g Glass bottle 1.05708.0250 1 kg Glass bottle 1.05708.9010 250 g Glass bottle 1.05739.0250 1 kg Glass bottle 1.05739.1000 1 kg HDPE bottle 1.05743.1000 250 g Glass bottle 1.05705.0250 1 kg Glass bottle 1.05705.0250 1 kg Glass bottle 1.05705.1000		
		250 g	Glass bottle	1.05708.0250	
Molecular sieve 0.4 nm beads ~ 2 mm Reag. Ph Eur	1318-02-1	1 kg	0 g HDPE bottle 1.05704.0250 1 kg HDPE bottle 1.05704.1000 0 kg Bucket, plastic 1.05704.9010 0 g HDPE bottle 1.05734.0250 1 kg HDPE bottle 1.05734.1000 0 g HDPE bottle 1.05741.0250 1 kg HDPE bottle 1.05708.0250 1 kg Glass bottle 1.05708.0250 1 kg Glass bottle 1.05708.9010 0 g Glass bottle 1.05739.0250 1 kg Glass bottle 1.05739.1000 1 kg HDPE bottle 1.05743.1000 0 g Glass bottle 1.05705.0250 1 kg Glass bottle 1.05705.1000		
		10 kg	1 kg HDPE bottle 1.05704.1000 10 kg Bucket, plastic 1.05704.9010 250 g HDPE bottle 1.05734.0250 1 kg HDPE bottle 1.05734.1000 250 g HDPE bottle 1.05741.0250 1 kg HDPE bottle 1.05741.1000 250 g Glass bottle 1.05708.0250 1 kg Glass bottle 1.05708.1000 10 kg Bucket, plastic 1.05708.9010 250 g Glass bottle 1.05739.1000 1 kg Glass bottle 1.05739.1000 1 kg HDPE bottle 1.05743.1000 250 g Glass bottle 1.05705.0250 1 kg Glass bottle 1.05705.1000		
Molecular sieve 0.4 nm beads,		250 g	Glass bottle	1.05739.0250	
with moisture indicator ~ 2 mm	_	1 kg	Glass bottle	1.05739.1000	
Molecular sieve 0.4 nm rods \sim 1.6 mm (1/16")	1318-02-1	1 kg	HDPE bottle	1.05743.1000	
Malasular siava O F are banda - 2 mas	1210 02 1	250 g	Glass bottle	1.05705.0250	
Molecular sieve 0.5 nm beads ~ 2 mm	1318-02-1	1 kg	Glass bottle	1.05705.1000	
Molecular sieve 1.0 nm beads ~ 2 mm	1318-02-1	1 kg	Glass bottle	1.05703.1000	

^{▶ 1)} Molecular sieves with 0.3 nm bead form (105704) and with indicator brown gel (105734) are suitable for use in Karl Fischer titrators.

Phosphorus pentoxide [P ₂ O ₅]	CAS No.	Content	Packaging	Ord. No.
di Dhaanhanna nantanida antus anna	1214 56 2	1 kg	Glass bottle	1.00540.1000
di-Phosphorus pentoxide extra pure	1314-56-3	25 kg	PE bucket	1.00540.9025
di-Phosphorus pentoxide	1214 56 2	100 g	Glass bottle	1.00570.0100
for analysis ACS, ISO, Reag. Ph Eur	1314-56-3	500 g	Glass bottle	1.00570.0500
Silica gel [SiO ₂]	CAS No.	Content	Packaging	Ord. No.
Silica gel granules, desiccant ~ 0.2 - 1 mm	7631-86-9	1 kg	HDPE bottle	1.01905.1000
Silica gel granules, desiccant ~ 2 – 5 mm	7624 06 0	1 kg	HDPE bottle	1.01907.1000
	7631-86-9	5 kg	PE bucket	1.01907.5000
		1 kg	HDPE bottle	1.01972.1000
Silica gel with moisture indicator (brown gel) desiccant $\sim 1 - 4$ mm	_	5 kg	HDPE bottle	1.01972.5000
desicedite 1 min	-	25 kg	PE bucket	1.01972.9025
		1 kg	HDPE bottle	1.01969.1000
Silica gel with indicator (orange gel), granulate $\sim 1 - 3$ mm	_	5 kg	HDPE bottle	1.01969.5000
grandiate 1 5 mm		25 kg	PE bucket	1.01969.9025
Silica gel beads, desiccant ~ 2 – 5 mm	7631-86-9	1 kg	HDPE bottle	1.07735.1000
SICAPENT® drying agent		Content	Packaging	Ord. No.
SICAPENT® drying agent with indicator (phospho	rus pentoxide	500 ml	Glass bottle	1.00543.0500
for desiccators) on inert carrier material		2.8	Glass bottle	1.00543.2800

Absorption and Filtration

Dependable, flexible and ecological

Absorption, adsorption, filtration and clarification are among the most important applications in laboratories. Our product portfolio includes a wide variety of reagents and materials for these purposes, such as activated charcoal, graphite, molecular sieves and sea sand.

Your advantages

- Reliability: Premium reagents and materials ensure highly reliable take up and purification of a wide range of substances
- Convenience: Comprehensive portfolio allows easy ordering from one trusted supplier
- Cost efficiency: A variety of pack sizes available to suit individual needs



Nature in the lab

Many of the absorption and adsorption reagents and filter materials we offer for use in laboratories are produced from natural resources that are not harmful to the environment. One example is our activated charcoal, which is gained from pinewood or mineral coal. It is used in numerous applications, such as for adsorption, de-colorization and purification of gases and liquids, or as a carrier for catalysts. Another product that promotes sustainability is calcium oxide, which is extracted from natural marble, and used as a CO₂ absorbent among other applications.

Learn more

The following pages present a selection of the most important absorption, adsorption and filtration products. For further solutions, information and advice, please visit

www.emdmillipore.com/absorption-filtration, or download our Inorganic Reagents catalog on

www.emdmillipore.com/inorganic-reagents-catalog.

Absorption and FiltrationDependable, flexible and ecological

Calcium oxide	CAS No.	Content	Packaging	Ord. No.
Calcium oxide from marble small lumps ~ 3 - 20 mm	1305-78-8	1 kg	HDPE bottle	1.02109.1000
		25 kg	Fibre carton	1.02109.9025

Charcoal activated	CAS No.	Content	Packaging	Ord. No.
Charcoal activated for analysis	7440-44-0	250 g	Metal can	1.02186.0250
		1 kg	Metal can	1.02186.1000
		20 kg	Fibre carton	1.02186.9020
Charcoal activated granular about 1.5 mm extra pure	7440-44-0	1 kg	Plastic bag	1.02514.1000
		5 kg	Fibre carton	1.02514.5000
		25 kg	Fibre carton	1.02514.9025
Charcoal activated powder extra pure	7440-44-0	1 kg	Metal can	1.02184.1000
		5 kg	Fibre carton	1.02184.5000
		20 kg	Fibre carton	1.02184.9020
Charcoal activated pure	7440-44-0	1 kg	Plastic bag	1.02183.1000
		20 kg	Fibre carton	1.02183.9020





Glass wool	CAS No.	Content	Packaging	Ord. No.
Glass wool	65997-17-3	250 g	Metal can	1.04086.0250
		1 kg	Fibre carton	1.04086.1000

Sea sand	CAS No.	Content	Packaging	Ord. No.
Sea sand extra pure	7631-86-9	1 kg	HDPE bottle	1.07711.1000
		5 kg	HDPE bottle	1.07711.5000
		25 kg	Fibre carton	1.07711.9025
Sea sand purified by acid and calcined for	7631-86-9	1 kg	HDPE bottle	1.07712.1000
analysis		5 kg	HDPE bottle	1.07712.5000
		10 kg	HDPE bottle	1.07712.9010
		25 kg	Fibre carton	1.07712.9025

Sodalime	CAS No.	Content	Packaging	Ord. No.
Sodalime, granules approx. 1 – 2.5 mm with indicator for analysis	_	500 g	HDPE bottle	1.06733.0501
		2.5 kg	HDPE bottle	1.06733.2500
Sodalime pellets with indicator for analysis	-	1 kg	HDPE bottle	1.06839.1001
		5 kg	HDPE bottle	1.06839.5001
		25 kg	Fibre carton	1.06839.9025



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