

# Acids for analysis

## EMSURE® | EMPARTA®



# High-quality, pure acids in optimized packaging

**Your responsibility is our incentive!** Merck Millipore's acids for analysis offer the highest possible quality, the greatest safety and most optimized packaging. Our products undergo strict quality checks in ultra-modern laboratories using the latest and most sensitive analytical instruments. That is why you can rely on Merck Millipore's acids for analysis for your most demanding applications.

## Quality management

For decades, our sophisticated quality management system has proven to be the best basis for precise and reproducible analytical applications. From purchase and storage of raw materials, through production, filling and analysis of the acids, to storage and shipment of the final product, every step is subject to stringent monitoring and documentation.

Thanks to our highly modern production chain, particulate impurities and cross-contamination of acids from other products can be ruled out.



## Safety

Working with hazardous products like acids requires particular attention in order to protect users and the environment. Our acids are delivered to you in high-quality packaging which offers the greatest safety during transportation, storage and handling. As a certified independent packaging institute, we develop and test our own packaging materials to fulfill our strict quality standards and, of course, your individual requirements.

## Reliable results

Acids from Merck Millipore are analyzed according to extensive and stringent specifications. Most of our acids for analysis with the EMSURE® quality grade are specified in compliance with international standards such as ACS, ISO and/or Reag. Ph Eur. Thus, you can always be confident of the results of your analysis made with Merck Millipore reagents.

## Special packaging concepts

Particularly for acids, we offer packaging concepts that take into account the potential hazards of the products. You can learn more about our Safebreak bottle, SafetyCap and special bottle for hydrofluoric acid on the following pages.

Take advantage of our leading role in the field to reach your targets swiftly and safely.

[www.merckmillipore.com/acids](http://www.merckmillipore.com/acids)

# Why choose Merck Millipore acids for analysis?

- Wide and comprehensive product range
- Outstanding, application-oriented quality
- Great variety of packaging materials and pack sizes
- Sophisticated quality management system:
  - Every batch is subject to stringent analysis
  - Analysis of each single parameter – batch by batch!
  - Use of the latest and most sensitive analytical instruments
- Large number of specified parameters for each acid
- Extremely low limiting values
- Most acids for analysis EMSURE® meet or exceed the requirements of ACS, ISO and/or Reag. Ph Eur
- Acids for analysis EMPARTA® meet the requirements of ACS

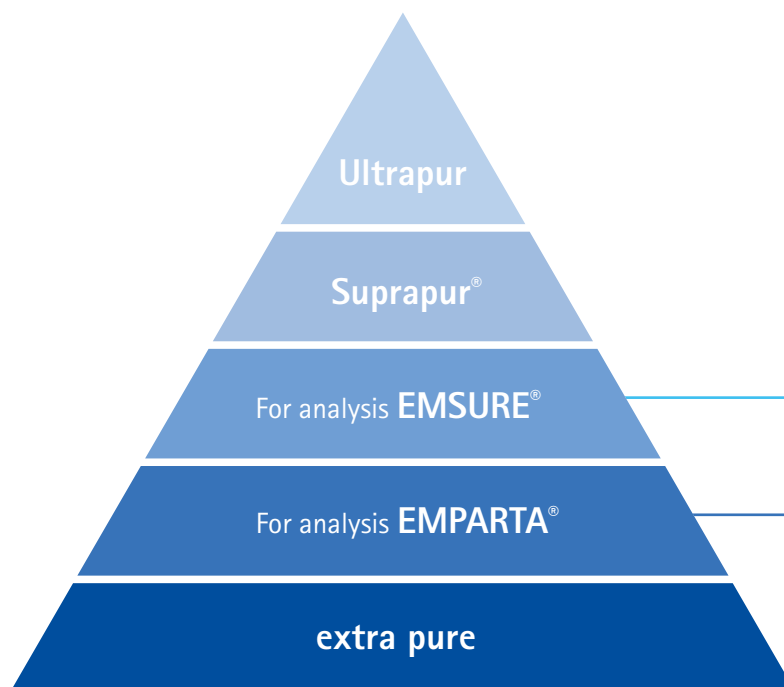
## Your advantages

- Reliable and reproducible results
- Confidence in analytical results and right conclusions
- Fulfilling expectations of your customers
- Maximum certainty during analytical and preparative operations
- High safety during daily lab work
- Very convenient use of acids
- One product usable for many applications and all over the world
- Less validation efforts
- Excellent cost/performance ratio



# Different grades to meet your needs

Whenever you are using an acid, you have to consider your application, your target and, of course, your budget. Each application is different and therefore we offer a wide range of acids in various grades, packaging sizes and materials. Whether you need to perform a highly critical analysis or a basic lab application, you will always find the most suitable reagent among our brand names.



## Your advantages

- The right product quality for each individual application
- The right pack size for your specific demand
- The right pricing according to the real product performance

## Specification

**ACS** Standards of the American Chemical Society

**ISO** Standards of the International Organization for Standardization

**Reag. Ph Eur** Reagents specified by the European Pharmacopoeia

### Ultrapur and Suprapur® acids

- For instrumental analysis, we offer a range of high purity acids under the brand names Suprapur® and Ultrapur

Acids for analysis	EMSURE®	EMPARTA®
<b>Purity</b>	99.7 – 99.9 %	99.0 – 99.5 %
<b>Number of specified parameters</b>	Up to 50 parameters and more	>10
<b>Specified regulations</b>	ACS, ISO, Reag. Ph Eur	ACS
<b>Pack sizes</b>	500 ml/g, 1 l/kg, 2.5 l/kg, 5 l/kg, 25 l/kg, 50 l/kg and many more	2.5 l bottle
<b>Packaging materials</b>	Glass, HDPE, PE-coated glass, container, barrels etc.	HDPE
<b>Segments</b>	All regulated industries	Non-regulated industries
<b>Applications</b>	Quality control (QC) Critical lab applications	Quality control (QC) Basic lab applications
	If you need to be absolutely sure in your lab application – use EMSURE®	If you need only a part of the EMSURE® performance – use EMPARTA®

### extra pure acids

- For preparative lab applications and cleaning purposes
- Specifications with the most important parameters
- Available in different pack sizes

## Useful information about ...

### Available concentrations of some acids

	Name	Weight %	Density g/cm <sup>3</sup> (20°C)	Concentration mol/l *
A	Acetic acid	96	1.05	17
		60	1.06	10.5
	Acetic acid (glacial acetic acid)	99 – 100	1.05	17.5
	Acetic acid, dilute	30	1.04	5
F	Formic acid	98 – 100	1.22	26
H	Hydrobromic acid	47	1.49	8.5
	Hydrochloric acid	25	1.12	7.5
		32	1.16	10
	Hydrochloric acid, fuming	37	1.19	12
	Hydrofluoric acid	48	1.16	28
		40	1.13	22.5
	Hydroiodic acid	57	1.7	7.5
Hydrogen peroxide	30	1.11	10	
N	Nitric acid	65	1.39	14.5
		69	1.41	15.5
	Nitric acid, fuming	100	1.51	24
P	Perchloric acid	70	1.68	11.5
		60	1.53	9
	ortho-Phosphoric acid	85	1.71	15
S	Sulfuric acid	95 – 97	1.84	18
		25	1.18	3

\* rounded off



# Variety of packaging materials

## Safe and environmentally friendly packaging for every application

Acids for analysis from Merck Millipore are always delivered to you in the most suitable packaging. Our packaging materials are exactly fitted to the product. This not only secures the purity of our high-quality reagents, but also protects users and the environment.

## Overview of the most common packages for acids

### **Glass bottles from 25 ml to 2,500 ml**

Our bestseller: excellent glass quality with very low traces of impurities and long shelf life

### **HDPE bottles for liquids from 250 ml to 2,500 ml**

Easy to handle, very low weight

### **HDPE bottles for solids from 25 g to 5,000 g**

Easy dosage thanks to the wide opening

### **Safebreak bottles (PE-coated glass bottles) for 2,500 ml**

Exceptionally safe glass bottle for especially dangerous acids

### **PE containers from 5 l to 50 l, PE/metal barrels for 25 l and PE barrels up to 200 l**

Convenient handling of even large quantities

**and much more ...**

**Hazardous acids need safe packaging!**

Employee safety plays a decisive role in your lab – that is why Merck Millipore provides innovative packaging concepts especially made for acids.

### **More information**

▶ Turn the page to explore our packaging concepts for acids.

# Merck Millipore Safebreak bottle. Just in case!

Glass bottles are still the most preferred packaging for reagents. As containers for all manner of chemicals, they remain a valuable inert material for everyday use in the laboratory. However, if they are to be safely used, the same care has to be taken as with glassware in private households. A problem occurs when a bottle containing a hazardous liquid breaks just when and where it shouldn't ...

## But if there is a breakage ...

We always wonder how could it happen after an accident. Despite the measures taken to avoid breakage, it is something that simply has to be reckoned with in every laboratory.

How harmful breakage is in a laboratory depends on the circumstances. Fortunately, in most cases, all that is required is proper clearing up of the spilled contents and glass splinters. However, serious injury, contamination or consequential damage may result in some cases.

## ... we have the solution.

At Merck Millipore, we have carefully examined the risks involved with acids in glass bottles and have come up with an effective solution: the »Safebreak« bottle. This glass bottle is coated with polyethylene, which provides maximum safety in case of breakage. Should the bottle fall and break, the liquid and glass splinters are reliably contained within the PE coating.

Each Safebreak bottle is fitted with a screw cap made of polypropylene that has an integrated PTFE component. This S40 cap renders the bottle absolutely airtight so that no liquid or vapor can escape. Also, it can be disposed of with conventional glass; during incineration, the PE is burnt off without affecting the environment.



[www.merckmillipore.com/safebreak](http://www.merckmillipore.com/safebreak)



## Safebreak bottles

The right bottle for your peace of mind. Exclusively available from Merck Millipore, the computer-designed Safebreak bottle combines several advantages in one solution:

- Meets all safety requirements
- Ensures that you receive exactly the same quality of contents as that dispatched from Merck Millipore
- Can be incorporated in all logistic systems
- Can be easily and ecologically disposed of and reused

## Ordering information

### Acids in Safebreak bottles

Product	Content	Packaging	Ord. No.
Acetic acid (glacial) 100 % anhydrous for analysis EMSURE® ACS, ISO, Reag. Ph Eur	2.5 l	Safebreak bottle	1.00063.2510
Formic acid 98 – 100 % for analysis EMSURE® ACS, Reag. Ph Eur	2.5 l	Safebreak bottle	1.00264.2510
Hydrochloric acid fuming 37 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	2.5 l	Safebreak bottle	1.00317.2510
Nitric acid 65 % for analysis EMSURE® ISO	2.5 l	Safebreak bottle	1.00456.2510
Nitric acid 69 % for analysis EMSURE® ACS, Reag. Ph Eur	2.5 l	Safebreak bottle	1.01799.2510
Perchloric acid 70 – 72 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	2.5 l	Safebreak bottle	1.00519.2510
ortho-Phosphoric acid 85 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	2.5 l	Safebreak bottle	1.00573.2510
Sulfuric acid 95 – 97 % for analysis EMSURE® ISO	2.5 l	Safebreak bottle	1.00731.2510
Sulfuric acid 95 – 97 % for analysis (max. 0.005 ppm Hg) EMSURE ACS, ISO, Reag. Ph Eur	2.5 l	Safebreak bottle	1.00732.2510
Sulfuric acid 98 % for analysis EMSURE®	2.5 l	Safebreak bottle	1.12080.2510

### The right bottle from Merck Millipore

All our experience in dealing with the potential hazards of acids in glass bottles has been incorporated in the specifications of the Merck Millipore Safebreak bottle:

- The bottle is able to withstand considerable impact force
- Should breakage occur, the acid and any glass splinters are reliably contained
- Even after frequent opening and closing, the screw cap remains perfectly intact
- The bottle is just as recyclable as a conventional glass bottle



# Merck Millipore SafetyCap

## SafetyCap: Leakproof and pressure-proof

Reagents such as sodium hypochlorite solution or hydrogen peroxide generate excess pressure through chemical reaction. In order to completely avoid contamination, Merck Millipore supplies all such reagents fitted with the improved SafetyCap. This innovative cap allows absolutely no reagent to leak out – even if the bottle is tipped. The PTFE membrane sintered onto the inside of the cap allows gas to be released but is absolutely leakproof against liquids.

This has been proven in numerous warehouse and stress tests at our package testing facility, at all temperatures and in all positions.



## Small improvements... Huge effects

The PTFE membrane incorporated in the SafetyCap protects our reagents. It allows neither gas nor liquid to enter the bottle, thus completely eliminating contamination. In addition, the SafetyCap has no protruding parts that can break off.

## Safety Cap

- Allows gas to be released and the internal pressure to be decreased
- Allows no liquid to escape, thus protecting the environment from contamination
- Allows neither gas nor liquid to enter the bottle, thus protecting the contents from contamination

## Ordering Information

Product	Content	Packaging	Ord.-No.
107209 <b>Hydrogen peroxide 30 %</b> (Perhydrol®) for analysis EMSURE® ISO	250 ml	Plastic bottle	1072090250
	500 ml	Plastic bottle	1072090500
	1 l	Plastic bottle	1072091000
	2.5 l	Plastic bottle	1072092500
107210 <b>Hydrogen peroxide 30 %</b> (Perhydrol®) (stabilized for higher storage temperature) for analysis EMSURE® ISO	250 ml	Plastic bottle	1072100250
	1 l	Plastic bottle	1072101000
	2.5 l	Plastic bottle	1072102500
107298 <b>Hydrogen peroxide 30 %</b> H <sub>2</sub> O <sub>2</sub> Suprapur®	250 ml	Plastic bottle	1072980250
	500 ml	Plastic bottle	1072980500
	1 l	Plastic bottle	1072981000
108556 <b>Hydrogen peroxide 35 %</b> technical grade	25 l	Plastic container	1085569025
107201 <b>Perhydrit® tablets 1 g</b> (Hydrogen peroxide – Urea)	100 g	Plastic bottle	1072010100
	4 kg	Plastic bottle	1072014000
105614 <b>Sodium hypochlorite solution</b> (6 – 14 % active chlorine)	2.5 l	Plastic bottle	1056142500
	25 l	Plastic container	1056149025

[www.merckmillipore.com/safetycap](http://www.merckmillipore.com/safetycap)

# Merck Millipore HDPE dosage bottle for hydrofluoric acid

## Hydrofluoric acid

Hydrofluoric acid is one of the most dangerous acids. Even small quantities can cause severe injuries and poisoning. To avoid such fatal accidents, Merck Millipore has developed a pouring aid that is specially suited to the characteristics of hydrofluoric acid.

All 500 ml bottles are provided with this innovative and safe pouring aid. It allows drop-by-drop withdrawal of the acid and the last drop stays reliably in the bottle. Furthermore, our exclusive S40 closure system ensures that the bottle is completely airtight.

## HDPE dosage bottle

- 500 ml bottle with a withdrawal system especially constructed for this hazardous acid
- Allows drop-by-drop withdrawal – and the last drop stays reliably in the bottle
- Special density function of our exclusive S40 screwing system
- Allows transportation and storage in cardboard boxes

## Ordering Information

Hydrofluoric acid in HDPE dosage bottle with special pouring system

Product	Content	Packaging	Ord. No.
Hydrofluoric acid 40 % for analysis EMSURE® ISO, Reag. Ph Eur	500 ml	Plastic bottle	1.00338.0500
Hydrofluoric acid 48 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	500 ml	Plastic bottle	1.00334.0500



# Ordering information Acids

## Acids A-G

	Product	Content	Packaging	Ord. No.
A	Acetic acid 30 % for analysis Reag. Ph Eur	500 ml	Glass bottle	1.59166.0500
	Acetic acid 96 % for analysis EMSURE®	1 l	Glass bottle	1.00062.1000
		1 l	Plastic bottle	1.00062.1011
		2.5 l	Glass bottle	1.00062.2500
		2.5 l	Plastic bottle	1.00062.2511
		25 l	Plastic container	1.00062.9025
	Acetic acid (glacial) 100 % for analysis EMPARTA® ACS	2.5 l	Plastic bottle	1.01830.2500
	Acetic acid (glacial) 100 % anhydrous for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1 l	Glass bottle	1.00063.1000
		1 l	Plastic bottle	1.00063.1011
		2.5 l	Glass bottle	1.00063.2500
		2.5 l	Safebreak bottle	1.00063.2510
		2.5 l	Plastic bottle	1.00063.2511
	Acetic anhydride for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1 l	Glass bottle	1.00042.1000
		2.5 l	Glass bottle	1.00042.2500
		25 l	Plastic container	1.00042.9025
Amidosulfuric acid extra pure	2.5 kg	Plastic bottle	1.00219.2500	
	25 kg	Fibre carton	1.00219.9025	
Amidosulfuric acid for analysis EMSURE®	100 g	Plastic bottle	1.00103.0100	
	250 g	Plastic bottle	1.00103.0250	
L(+)-Ascorbic Acid for analysis EMSURE® ASC, ISO, Reag. Ph Eur	100 g	Plastic bottle	1.00468.0100	
	500 g	Plastic bottle	1.00468.0500	
	1 kg	Plastic bottle	1.00468.1000	
B	Barbituric acid for analysis EMSURE®	25 g	Plastic bottle	1.00132.0025
		100 g	Plastic bottle	1.00132.0100
	Benzoic acid for analysis EMSURE® Reag. Ph Eur	100 g	Plastic bottle	1.00136.0100
250 g		Plastic bottle	1.00136.0250	
1 kg		Plastic bottle	1.00136.1000	
Boric acid for analysis EMSURE® ACS, ISO, Reag. Ph Eur	100 g	Plastic bottle	1.00165.0100	
	500 g	Plastic bottle	1.00165.0500	
	1 kg	Plastic bottle	1.00165.1000	
	5 kg	Plastic bottle	1.00165.5000	
	12 kg	Plastic container	1.00165.9012	
C	Citric acid monohydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	25 kg	Fibre carton	1.00165.9025
		500 g	Plastic bottle	1.00244.0500
		1 kg	Plastic bottle	1.00244.1000
		5 kg	Plastic bottle	1.00244.5000
		12 kg	Plastic container	1.00244.9012
F	Formic acid 89 – 91 % for analysis EMSURE® ACS	25 kg	Fibre carton	1.00244.9026
	Formic acid 89 – 91 % for analysis EMSURE® ACS	1 l	Glass bottle	1.00253.1000
		2.5 l	Glass bottle	1.10854.2500
	Formic acid 90 % for determination of viscosity acc. to DIN EN ISO 307	100 ml	Glass bottle	1.00264.0100
		1 l	Glass bottle	1.00264.1000
		1 l	Plastic bottle	1.00264.1011
		2.5 l	Glass bottle	1.00264.2500
		2.5 l	Plastic bottle	1.00264.2511
		2.5 l	Safebreak bottle	1.00264.2510
		25 l	Plastic container	1.00264.9026
25 l		Plastic container	1.00264.9026	
G	Glycolic acid for analysis EMSURE®	100 g	Plastic bottle	1.04106.0100

## Acids H

Product	Content	Packaging	Ord. No.
H Hydrobromic acid 47 % extra pure	500 ml	Glass bottle	1.00304.0500
	2.5 l	Glass bottle	1.00304.2500
	20 l	Glass btl. pl.coat.	1.00304.9020
Hydrobromic acid 47 % for analysis EMSURE® ACS, ISO	500 ml	Glass bottle	1.00307.0500
	1 l	Glass bottle	1.00307.1000
Hydrochloric acid 25 % for analysis EMSURE®	1 l	Glass bottle	1.00316.1000
	1 l	Plastic bottle	1.00316.1011
	2.5 l	Glass bottle	1.00316.2500
	2.5 l	Plastic bottle	1.00316.2511
	25 l	Plastic container	1.00316.9025
Hydrochloric acid 32 % extra pure	2.5 l	Glass bottle	1.00313.2500
	25 l	Plastic container	1.00313.9025
	180 l	Plastic barrel	1.00313.9180
Hydrochloric acid 32 % for analysis EMSURE®	1 l	Glass bottle	1.00319.1000
	1 l	Plastic bottle	1.00319.1011
	2.5 l	Glass bottle	1.00319.2500
	2.5 l	Plastic bottle	1.00319.2511
	25 l	Plastic container	1.00319.9025
Hydrochloric acid fuming 37 % for analysis EMPARTA® ACS	2.5 l	Plastic bottle	1.01834.2500
Hydrochloric acid fuming 37 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1 l	Glass bottle	1.00317.1000
	2.5 l	Glass bottle	1.00317.2500
	2.5 l	Safebreak bottle	1.00317.2510
	2.5 l	Plastic bottle	1.00317.2501
	25 l	Plastic container	1.00317.9026
Hydrochloric acid fuming 37 % for analysis max. 0.001 ppm Hg EMSURE®	2.5 l	Glass bottle	1.13386.2500
Hydrofluoric acid 38 – 40 %	1 l	Plastic bottle	1.00329.1000
	2.5 l	Plastic bottle	1.00329.2500
Hydrofluoric acid 38 – 40 % extra pure	1 l	Plastic bottle	1.00337.1000
	2.5 l	Plastic bottle	1.00337.2500
	25 l	Plastic container	1.00337.9025
Hydrofluoric acid 40 % for analysis EMSURE® ISO, Reag. Ph Eur	500 ml	Plastic bottle	1.00338.0500
	1 l	Plastic bottle	1.00338.1000
	2.5 l	Plastic bottle	1.00338.2500
Hydrofluoric acid 48 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	500 ml	Plastic bottle	1.00334.0500
	1 l	Plastic bottle	1.00334.1000
	2.5 l	Plastic bottle	1.00334.2500
	5 l	Plastic container	1.00334.5000
Hydrogen peroxide 30 % (Perhydrol®) for analysis EMSURE® ACS, ISO	250 ml	Plastic bottle	1.07209.0250
	500 ml	Plastic bottle	1.07209.0500
	1 l	Plastic bottle	1.07209.1000
	2.5 l	Plastic bottle	1.07209.2500
Hydrogen peroxide 30 % (Perhydrol®) (stabilized for higher storage temperature) for analysis EMSURE® ACS, ISO	250 ml	Plastic bottle	1.07210.0250
	1 l	Plastic bottle	1.07210.1000
	2.5 l	Plastic bottle	1.07210.2500
Hydrogen peroxide 35 % technical grade	25 l	Plastic container	1.08556.9025
Hydroiodic acid 57 % extra pure	250 ml	Glass bottle	1.00341.0250
	22 l	Carboy	1.00341.9022
Hydroiodic acid 57 % for analysis EMSURE®	50 ml	Glass bottle	1.00344.0050
	250 ml	Glass bottle	1.00344.0250
	1 l	Glass bottle	1.00344.1000

# Ordering information Acids

## Acids H-P

	Product	Content	Packaging	Ord. No.
H	Hydroiodic acid 67 % for analysis EMSURE®	250 ml	Glass bottle	1.00345.0250
	Hypophosphorous acid 50 % for analysis EMSURE®	100 ml	Glass bottle	1.04633.0100
		500 ml	Glass bottle	1.04633.0500
M	Molybdatophosphoric acid hydrate for analysis EMSURE® ACS, Reag. Ph Eur	25 g	Glass bottle	1.00532.0025
		100 g	Glass bottle	1.00532.0100
	Molybdic acid about 85 % MoO <sub>3</sub> (containing ammonium molybdate)	1 kg	Plastic bottle	1.00400.1000
N	Nitric acid 65 % extra pure	1 l	Glass bottle	1.00443.1000
		2.5 l	Glass bottle	1.00443.2500
		25 l	Barrel PE/met	1.00443.9025
	Nitric acid 65 % for analysis EMSURE® ISO	1 l	Glass bottle	1.00456.1000
		2.5 l	Glass bottle	1.00456.2500
		2.5 l	Safebreak bottle	1.00456.2510
	Nitric acid 65 % for analysis (max. 0.005 ppm Hg) EMSURE® ISO	1 l	Glass bottle	1.00452.1000
		2.5 l	Glass bottle	1.00452.2500
	Nitric acid 69 % for analysis EMPARTA® ACS	2.5 l	Glass bottle	1.01832.2500
	Nitric acid 69 % for analysis EMSURE® ACS, Reag. Ph Eur	1 l	Glass bottle	1.01799.1000
		2.5 l	Glass bottle	1.01799.2500
		2.5 l	Safebreak bottle	1.01799.2510
Nitric acid fuming 100 % extra pure	1 l	Glass btl. pl.coat.	1.00450.1000	
Nitric acid fuming 100 % for analysis EMSURE®, Reag. Ph Eur	1 l	Glass btl. pl.coat.	1.00455.1000	
O	Oxalic acid dihydrate extra pure	1 kg	Plastic bottle	1.00492.1000
		5 kg	Plastic bottle	1.00492.5000
		50 kg	Fibre carton	1.00492.9050
	Oxalic acid dihydrate for analysis EMSURE® ACS, ISO, Reag. Ph Eur	100 g	Plastic bottle	1.00495.0100
		500 g	Plastic bottle	1.00495.0500
P	Perchloric acid 60 % for analysis EMSURE® ACS	1 l	Glass bottle	1.00518.1001
		6 x 1 l	Glass bottle	1.00518.1016
		2.5 l	Glass bottle	1.00518.2501
		4 x 2.5 l	Glass bottle	1.00518.2514
	Perchloric acid 70 % for analysis (max. 0.0000005 % Hg) EMSURE® ACS, ISO, Reag. Ph Eur	1 l	Glass bottle	1.00514.1000
		6 x 1 l	Glass bottle	1.00514.1006
	Perchloric acid 70 – 72 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1 l	Glass bottle	1.00519.1001
		6 x 1 l	Glass bottle	1.00519.1016
		2.5 l	Glass bottle	1.00519.2501
		4 x 2.5 l	Glass bottle	1.00519.2514
		2.5 l	Safebreak bottle	1.00519.2510
	Periodic acid for analysis EMSURE®	25 g	Glass bottle	1.00524.0025
100 g		Glass bottle	1.00524.0100	
meta-Phosphoric acid pieces for analysis (stabilized with sodium metaphosphate) EMSURE®	100 g	Metal can	1.00546.0100	
	500 g	Plastic bottle	1.00546.0500	
ortho-Phosphoric acid 85 % for analysis EMSURE® ACS, ISO, Reag. Ph Eur	1 l	Plastic bottle	1.00573.1000	
	2.5 l	Plastic bottle	1.00573.2500	
	2.5 l	Safebreak bottle	1.00573.2510	
	25 l	Plastic container	1.00573.9025	
ortho-Phosphoric acid 99 % cryst. for analysis EMSURE®	500 g	Plastic bottle	1.00565.0500	

## Acids S-T

Product	Content	Packaging	Ord. No.
<b>S</b> Succinic acid for analysis EMSURE®	250 g	Plastic bottle	1.00682.0250
Sulfuric acid 25 % for analysis EMSURE®	1 l	Plastic bottle	1.00716.1000
Sulfuric acid 40 % for determination of gas metabolism acc. to Knipping	2.5 l	Glass bottle	1.09286.2500
Sulfuric acid 62 % for analysis, for the determination of fat in cheese (d 1.52)	1 l	Plastic bottle	4.80531.1000
	2.5 l	Plastic bottle	4.80531.2500
Sulfuric acid 90 – 91 % for Gerber fat determination and determination of nitrates in milk	500 ml	Glass bottle	1.00729.0500
	2.5 l	Glass bottle	1.00729.2500
	25 l	Plastic container	1.00729.9025
Sulfuric acid 95 – 97 % for analysis EMPARTA® ACS	2.5 l	Plastic bottle	1.01833.2500
Sulfuric acid 95 – 97 % for analysis EMSURE® ISO	1 l	Glass bottle	1.00731.1000
	1 l	Plastic bottle	1.00731.1011
	2.5 l	Glass bottle	1.00731.2500
	2.5 l	Safebreak bottle	1.00731.2510
	2.5 l	Plastic bottle	1.00731.2511
Sulfuric acid 95 – 97 % for analysis (max. 0.005 ppm Hg) EMSURE® ACS, ISO, Reag. Ph Eur	2.5 l	Plastic container	1.00731.9025
	1 l	Glass bottle	1.00732.1000
	2.5 l	Glass bottle	1.00732.2500
Sulfuric acid 96 % for the determination of viscosity acc. to DIN EN ISO 307	2.5 l	Safebreak bottle	1.00732.2510
	1 l	Plastic bottle	1.08131.1000
Sulfuric acid 98 % for analysis EMSURE®	2.5 l	Plastic bottle	1.08131.2500
	1 l	Glass bottle	1.12080.1000
Sulfuric acid 98 % for the determination of nitrogen	2.5 l	Glass bottle	1.12080.2500
	2.5 l	Safebreak bottle	1.12080.2510
	25 l	Plastic container	1.12080.9025
	500 ml	Glass bottle	1.00748.0500
Sulfuric acid 100 % for conductivity measurements	2.5 l	Glass bottle	1.00748.2500
	1 l	Glass bottle	1.12223.1000
Sulfuric acid fuming 65 % SO <sub>3</sub> extra pure	1 l	Glass btl. pl.coat	1.00720.1000
Sulfurous acid 5 – 6 % SO <sub>2</sub> for analysis EMSURE®	1 l	Glass bottle	1.00761.1000
	2.5 l	Glass bottle	1.00761.2500
<b>T</b> L(+)-Tartaric acid for analysis EMSURE® ACS, ISO, Reag. Ph Eur	250 g	Plastic bottle	1.00804.0250
Toluene-4-sulfonic acid monohydrate for analysis EMSURE® ACS	1 kg	Plastic bottle	1.00804.1000
	5 kg	Plastic bottle	1.00804.5000
	50 kg	Fibre carton	1.00804.9050
	100 g	Plastic bottle	1.09613.0100
Trichloroacetic acid for analysis EMSURE® ACS, Reag. Ph Eur	500 g	Plastic bottle	1.09613.0500
	100 g	Glass bottle	1.00807.0100
Tungstophosphoric acid hydrate cryst. extra pure	250 g	Glass bottle	1.00807.0250
	1 kg	Glass bottle	1.00807.1000
	100 g	Plastic bottle	1.00582.0100
Tungstophosphoric acid hydrate for analysis EMSURE®	1 kg	Plastic bottle	1.00582.1000
	25 kg	Fibre carton	1.00582.9025
	100 g	Plastic bottle	1.00583.0100
Tungstosilicic acid hydrate for analysis EMSURE®	250 g	Plastic bottle	1.00583.0250
	25 g	Glass bottle	1.00659.0025
	100 g	Plastic bottle	1.00659.0100

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.



For further information on Merck Millipore  
and our products contact:

Merck KGaA

64271 Darmstadt, Germany

[www.merckmillipore.com](http://www.merckmillipore.com)

Merck Millipore and the M logo are trademarks of Merck KGaA, Darmstadt, Germany  
W.281145 © 2013 Merck KGaA, Darmstadt, Germany. All rights reserved.