



## 100518 Perchloric acid 60%

for analysis EMSURE® ACS

For general questions please contact our  
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04 March 2011

Product number	Packaging	Size	Price
1005181001	Glass bottle	1 l	price on request
1005181016	Glass bottle	6 x 1 l	price on request
1005182501	Glass bottle	2.5 l	price on request
1005182514	Glass bottle	4 x 2.5 l	price on request

Prices are subject to change without notice.

### Product information

Grade	ACS
HS Code	2811 19 80

### Chemical and physical data

Solubility	(20 °C) soluble
Density	1.53 g/cm <sup>3</sup> (15 °C)
pH value	(H <sub>2</sub> O, 20 °C) strongly acid
Boiling point	160 °C

### Safety information

R Phrase	R 5- 8-35 Heating may cause an explosion.Contact with combustible material may cause fire.Causes severe burns.
S Phrase	S 23-26-36/37/39-45 Do not breathe vapour.In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.Wear suitable protective clothing, gloves and eye/face protection.In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Categories of danger oxidizing, corrosive

Hazard Symbol



Oxidising



Corrosive

Storage class	5.1A Oxidising Agents
WGK	WGK 1 slightly water endangering
Disposal	22 Inorganic peroxides and oxidants as well as bromine and iodine should be rendered harmless by reduction with acidic sodium thiosulfate solution (Cat. No. 106513); container D or E. Slightly soluble oxidants should be collected separately in container E or I.

### Transport information

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Declaration (railroad and road) ADR, RID	UN 1873 Perchlorsäure, 5.1 (8), I
Declaration (transport by sea) IMDG-Code	UN 1873 PERCHLORIC ACID, 5.1 (8), I, Segregation Group: 1 (Acids)
Declaration (transport by air) IATA-DGR	UN 1873 PERCHLORIC ACID, 5.1 (8), I

### Toxicological data

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LD 50 oral	LD50 rat 1100 mg/kg
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### Specifications

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Assay (acidimetric)	60.0 - 62.0 %
Colour	≤ 10 Hazen
Chlorate (ClO <sub>3</sub> )	≤ 10 ppm
Chloride (Cl)	≤ 3 ppm
Free chlorine	≤ 0.5 ppm
Phosphate and Silicate (as SiO <sub>2</sub> )	≤ 5 ppm
Sulphate (SO <sub>4</sub> )	≤ 10 ppm
Total nitrogen (N)	≤ 10 ppm
Heavy metals (as Pb)	≤ 1 ppm
Ag (Silver)	≤ 0.1 ppm
Al (Aluminium)	≤ 0.05 ppm
As (Arsenic)	≤ 0.05 ppm
Ba (Barium)	≤ 0.02 ppm
Be (Beryllium)	≤ 0.02 ppm
Bi (Bismuth)	≤ 0.1 ppm
Ca (Calcium)	≤ 0.5 ppm
Cd (Cadmium)	≤ 0.05 ppm
Co (Cobalt)	≤ 0.05 ppm
Cu (Copper)	≤ 0.1 ppm
Fe (Iron)	≤ 1.0 ppm
Ge (Germanium)	≤ 0.05 ppm
K (Potassium)	≤ 0.1 ppm
Li (Lithium)	≤ 0.02 ppm
Mg (Magnesium)	≤ 0.5 ppm
Mn (Manganese)	≤ 0.02 ppm

Mo (Molybdenum)	≤ 0.05 ppm
Ni (Nickel)	≤ 0.1 ppm
Pb (Lead)	≤ 0.05 ppm
Sr (Strontium)	≤ 0.02 ppm
Ti (Titanium)	≤ 0.1 ppm
Tl (Thallium)	≤ 0.05 ppm
V (Vanadium)	≤ 0.05 ppm
Zn (Zinc)	≤ 0.1 ppm
Zr (Zirconium)	≤ 0.1 ppm
Residue on ignition (as sulphate)	≤ 30 ppm
ACS, ISO-Reag.	