

## Sulfuric acid, 96% ± 0,1%, for analysis, ExpertQ®

**Identification**

H<sub>2</sub>SO<sub>4</sub>  
M = 98,08 g/mol  
CAS [7664-93-9]  
EC number: 231-639-5  
Taric code: 2807 00 00

**Synonyms**

Sulphuric acid

**Applications**

analytical chemistry, laboratory reagent, acidifying agent, synthesis of organic products, nitrogen determinations.

**Specifications**

assay (acidimetric).....	95,9 - 96,1 %	indium (In).....	max. 0,05 ppm
colour (Hazen).....	max. 10	iron (Fe).....	max. 0,1 ppm
chlorides (Cl).....	max. 0,00001 %	lead (Pb).....	max. 0,01 ppm
nitrates and nitrites (as NO <sub>3</sub> ).....	max. 0,00002 %	lithium (Li).....	max. 0,01 ppm
phosphates (as PO <sub>4</sub> ).....	max. 0,00005 %	magnesium (Mg).....	max. 0,05 ppm
aluminium (Al).....	max. 0,05 ppm	manganese (Mn).....	max. 0,01 ppm
ammonium (NH <sub>4</sub> ).....	max. 0,0001 %	molybdenum (Mo).....	max. 0,02 ppm
arsenic (As).....	max. 0,01 ppm	nickel (Ni).....	max. 0,02 ppm
barium (Ba).....	max. 0,05 ppm	platinum (Pt).....	max. 0,1 ppm
beryllium (Be).....	max. 0,02 ppm	potassium (K).....	max. 0,1 ppm
bismuth (Bi).....	max. 0,05 ppm	silver (Ag).....	max. 0,01 ppm
boron (B).....	max. 0,05 ppm	sodium (Na).....	max. 0,3 ppm
cadmium (Cd).....	max. 0,01 ppm	strontium (Sr).....	max. 0,01 ppm
calcium (Ca).....	max. 0,1 ppm	thallium (Tl).....	max. 0,02 ppm
chromium (Cr).....	max. 0,02 ppm	tin (Sn).....	max. 0,05 ppm
cobalt (Co).....	max. 0,01 ppm	titanium (Ti).....	max. 0,02 ppm
copper (Cu).....	max. 0,01 ppm	vanadium (V).....	max. 0,01 ppm
gallium (Ga).....	max. 0,05 ppm	zinc (Zn).....	max. 0,05 ppm
germanium (Ge).....	max. 0,02 ppm	zirconium (Zr).....	max. 0,02 ppm
gold (Au).....	max. 0,05 ppm	substances reducing KMnO <sub>4</sub> .....	passes test
		residue on ignition.....	max. 0,0003 %

**Physical data**

- Density: 1,84 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: ~ -15 °C
- Boiling point: ~ 310 °C
- Vapour pressure: (20 °C) ~ 0,0001 hPa
- pH(49 g/l H<sub>2</sub>O, 25 °C) 0,3
- Hygroscopic

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor / physician.  
P405: Store locked up.  
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

**Transport/storage**

- ADR: 8 C1 II • UN 1830 • SULPHURIC ACID
- IMDG: 8 II • UN 1830 • SULPHURIC ACID
- IATA/ICAO: 8 II • UN 1830 • SULPHURIC ACID
- PAX: 809
- CAO: 813
- 15°C - 25°C