

Sulfuric acid, solution 25% w/w, for analysis, ExpertQ®

Identification

H₂SO₄
M = 98,08 g/mol
CAS [7664-93-9]
EC number: 231-639-5
Taric code: 2807 00 00

Applications

analytical chemistry, laboratory reagent, neutralising agent, for determination of: barium.

Specifications

assay (acidimetric).....	min. 25 %	lead (Pb).....	max. 0,02 ppm
colour (Hazen).....	max. 10	lithium (Li).....	max. 0,01 ppm
chlorides (Cl).....	max. 0,00005 %	magnesium (Mg).....	max. 0,05 ppm
nitrates (NO ₃).....	max. 0,00002 %	manganese (Mn).....	max. 0,01 ppm
aluminium (Al).....	max. 0,05 ppm	molybdenum (Mo).....	max. 0,05 ppm
ammonium (NH ₄).....	max. 0,0002 %	nickel (Ni).....	max. 0,02 ppm
arsenic (As).....	max. 0,01 ppm	potassium (K).....	max. 0,1 ppm
barium (Ba).....	max. 0,05 ppm	silver (Ag).....	max. 0,02 ppm
beryllium (Be).....	max. 0,01 ppm	sodium (Na).....	max. 0,5 ppm
bismuth (Bi).....	max. 0,1 ppm	strontium (Sr).....	max. 0,01 ppm
cadmium (Cd).....	max. 0,02 ppm	thallium (Tl).....	max. 0,05 ppm
calcium (Ca).....	max. 0,2 ppm	titanium (Ti).....	max. 0,1 ppm
chromium (Cr).....	max. 0,05 ppm	vanadium (V).....	max. 0,01 ppm
cobalt (Co).....	max. 0,01 ppm	zinc (Zn).....	max. 0,1 ppm
copper (Cu).....	max. 0,01 ppm	zirconium (Zr).....	max. 0,1 ppm
germanium (Ge).....	max. 0,05 ppm	substances reducing KMnO ₄	passes test
iron (Fe).....	max. 0,1 ppm	residue on ignition.....	max. 0,0005 %

Physical data

- Density: 1,18 g/cm³
- Solub. in water: (20 °C): miscible
- Boiling point: ~ 103 °C
- pH(20 °C) ~ 1

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 2796 • SULPHURIC ACID
- IMDG: 8 II • UN 2796 • SULPHURIC ACID
- IATA/ICAO: 8 II • UN 2796 • SULPHURIC ACID
- PAX: 809
- CAO: 813
- 15°C - 25°C