

Identification

H₂SO₄
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, in pharma industry.

Specifications

assay (acidimetric).....	95 - 98 %	iron (Fe).....	max. 0,0025 %
identification.....	passes test	reducing substances.....	passes test
appearance of solution.....	clear and colourless	residue on ignition.....	max. 0,005 %
density (20°/20°).....	1,834 - 1,837	Residual solvents are analysed	
chlorides (Cl).....	max. 0,005 %	according to guideline	
nitrates (NO ₃).....	passes test	CPMP/ICH/283/95.	
arsenic (As).....	max. 0,0001 %	Avoid exposure to light	
heavy metals (as Pb).....	max. 0,0005 %		

Packaging**Packaging Code**

1 l  AC20701000
2,5 l  AC20702500

Physical data

- Density: 1,84 g/cm³
- 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 H₂O, 25 °C) 0,3
- Hygroscopic

Safety - GHS

Signal Word: Danger

**Hazard Statements:**

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.
P321: Specific treatment (see on this label).
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Toxicological data

- LD 50 (oral, rat): 2140 mg/kg
- MAK: 0,1 mg/m³
- WGK: 1
- Poison class CH (Swiss): 2

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
- Store between 15°C and 25°C