AC2069

Technical Data Sheet

Sulfuric acid, 95 - 97%, reagent grade, ISO

Identification

H_2SO_4
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 - 97 %	iron (Fe)	max. 0,00001 %
colour (Hazen)	max. 10	lead (Pb)	max. 0,000001 %
chlorides (Cl)	max. 0,00001 %	lithium (Li)	max. 0,000001 %
nitrates and nitrites (as NO3)	max. 0,00002 %	magnesium (Mg)	max. 0,000005 %
phosphates (as PO4)	max. 0,00005 %	manganese (Mn)	max. 0,000001 %
aluminium (Al)	max. 0,000005 %	molybdenum (Mo)	max. 0,000002 %
ammonium (NH4)	max. 0,0001 %	nickel (Ni)	max. 0,000002 %
arsenic (As)	max. 0,000001 %	platinum (Pt)	max. 0,00001 %
barium (Ba)	max. 0,000005 %	potassium (K)	max. 0,00001 %
beryllium (Be)	max. 0,000001 %	silver (Ag)	max. 0,000001 %
bismuth (Bi)	max. 0,000005 %	sodium (Na)	max. 0,00003 %
boron (B)	max. 0,000005 %	strontium (Sr)	max. 0,000001 %
cadmium (Cd)	max. 0,000001 %	thallium (Tl)	max. 0,000002 %
calcium (Ca)	max. 0,00001 %	tin (Sn)	max. 0,000005 %
chromium (Cr)	max. 0,000002 %	titanium (Ti)	max. 0,000002 %
cobalt (Co)	max. 0,000001 %	vanadium (V)	max. 0,000001 %
copper (Cu)	max. 0,000001 %	zinc (Zn)	max. 0,000005 %
gallium (Ga)	max. 0,000005%	zirconium (Zr)	max. 0,000002 %
germanium (Ge)	max. 0,000002 %	substances reducing KMnO4	passes test
gold (Au)	max. 0,000005%	residue on ignition	max. 0,0003 %
indium (In)	max. 0,000005%		

Packaging

Packaging	Code
1 l	AC20691000
1 l	AC20691001
2,5 l	AC20692500
2,5 l	AC20692501

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 H_2O, 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/m^3
- 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 15ºC and 25ºC