

Identification

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

Synonyms

Sulphuric acid

Specifications

assay (acidimetric).....	93 - 98 %	mercury (Hg).....	max. 0,1 ppb
colour (Hazen).....	max. 10	molybdenum (Mo).....	max. 0,5 ppb
chlorides (Cl).....	max. 0,00007 %	neodymium (Nd).....	max. 0,1 ppb
nitrates (NO ₃).....	max. 0,00002 %	nickel (Ni).....	max. 0,5 ppb
total phosphorus (P).....	max. 0,000005 %	niobium (Nb).....	max. 0,1 ppb
substances reducing KMnO ₄	passes test	potassium (K).....	max. 1 ppb
aluminium (Al).....	max. 1 ppb	praseodymium (Pr).....	max. 0,1 ppb
antimony (Sb).....	max. 1 ppb	rhodium (Rh).....	max. 0,5 ppb
arsenic (As).....	max. 0,5 ppb	rubidium (Rb).....	max. 0,5 ppb
barium (Ba).....	max. 0,1 ppb	samarium (Sm).....	max. 0,1 ppb
beryllium (Be).....	max. 0,1 ppb	scandium (Sc).....	max. 0,1 ppb
bismuth (Bi).....	max. 0,1 ppb	selenium (Se).....	max. 10 ppb
cadmium (Cd).....	max. 0,5 ppb	silver (Ag).....	max. 1 ppb
calcium (Ca).....	max. 1 ppb	sodium (Na).....	max. 1 ppb
cerium (Ce).....	max. 0,1 ppb	strontium (Sr)	max. 0,5 ppb
cesium (Cs).....	max. 0,1 ppb	tellurium (Te).....	max. 0,1 ppb
chromium (Cr).....	max. 0,5 ppb	terbium (Tb).....	max. 0,1 ppb
cobalt (Co).....	max. 0,5 ppb	thallium (Tl).....	max. 0,1 ppb
copper (Cu).....	max. 0,5 ppb	thorium (Th).....	max. 0,1 ppb
dysprosium (Dy).....	max. 0,1 ppb	thulium (Tm).....	max. 0,1 ppb
erbium (Er).....	max. 0,1 ppb	tin (Sn).....	max. 1 ppb
europium (Eu).....	max. 0,1 ppb	titanium (Ti).....	max. 1 ppb
gadolinium (Gd).....	max. 0,1 ppb	tungsten (W).....	max. 0,5 ppb
gallium (Ga).....	max. 0,1 ppb	uranium (U).....	max. 0,1 ppb
germanium (Ge).....	max. 1 ppb	vanadium (V).....	max. 0,5 ppb
hafnium (Hf).....	max. 0,1 ppb	ytterbium (Yb).....	max. 0,1 ppb
holmium (Ho).....	max. 0,1 ppb	yttrium (Y).....	max. 0,1 ppb
indium (In).....	max. 0,1 ppb	zinc (Zn).....	max. 1 ppb
iron (Fe).....	max. 1 ppb	zirconium (Zr).....	max. 0,5 ppb
lanthanum (La).....	max. 0,1 ppb		
lead (Pb).....	max. 0,1 ppb		
lithium (Li).....	max. 0,5 ppb		
lutetium (Lu).....	max. 0,1 ppb		
magnesium (Mg).....	max. 1 ppb		
manganese (Mn).....	max. 0,5 ppb		

Packaging
Packaging Code

1 l AC21141000

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