

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 %	manganese (Mn).....	max. 10 ppt
aluminium (Al).....	max. 50 ppt	mercury (Hg).....	max. 100 ppt
antimony (Sb).....	max. 50 ppt	molybdenum (Mo).....	max. 10 ppt
arsenic (As).....	max. 500 ppt	neodymium (Nd).....	max. 10 ppt
barium (Ba).....	max. 10 ppt	nickel (Ni).....	max. 50 ppt
beryllium (Be).....	max. 10 ppt	niobium (Nb).....	max. 10 ppt
bismuth (Bi).....	max. 10 ppt	potassium (K).....	max. 50 ppt
cadmium (Cd).....	max. 10 ppt	praseodymium (Pr).....	max. 10 ppt
calcium (Ca).....	max. 50 ppt	rhodium (Rh).....	max. 50 ppt
cerium (Ce).....	max. 10 ppt	rubidium (Rb).....	max. 10 ppt
cesium (Cs).....	max. 10 ppt	samarium (Sm).....	max. 10 ppt
chromium (Cr).....	max. 10 ppt	scandium (Sc).....	max. 10 ppt
cobalt (Co).....	max. 10 ppt	selenium (Se).....	max. 500 ppt
copper (Cu).....	max. 10 ppt	silver (Ag).....	max. 50 ppt
dysprosium (Dy).....	max. 10 ppt	sodium (Na).....	max. 50 ppt
erbium (Er).....	max. 10 ppt	strontium (Sr).....	max. 10 ppt
europium (Eu).....	max. 10 ppt	tellurium (Te).....	max. 50 ppt
gadolinium (Gd).....	max. 10 ppt	terbium (Tb).....	max. 10 ppt
gallium (Ga).....	max. 10 ppt	thallium (Tl).....	max. 10 ppt
germanium (Ge).....	max. 100 ppt	thorium (Th).....	max. 10 ppt
hafnium (Hf).....	max. 10 ppt	thulium (Tm).....	max. 10 ppt
holmium (Ho).....	max. 10 ppt	tin (Sn).....	max. 50 ppt
indium (In).....	max. 10 ppt	titanium (Ti).....	max. 50 ppt
iron (Fe).....	max. 50 ppt	tungsten (W).....	max. 10 ppt
lanthanum (La).....	max. 10 ppt	uranium (U).....	max. 10 ppt
lead (Pb).....	max. 10 ppt	vanadium (V).....	max. 10 ppt
lithium (Li).....	max. 10 ppt	ytterbium (Yb).....	max. 10 ppt
lutetium (Lu).....	max. 10 ppt	yttrium (Y).....	max. 10 ppt
magnesium (Mg).....	max. 50 ppt	zinc (Zn).....	max. 50 ppt
		zirconium (Zr).....	max. 10 ppt

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:

- 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
- 10°C - 30°C