

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

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