



PRODUCT CODE: 141058

Sulfuric Acid 95-98% (USP-NF, BP, Ph. Eur.) pure, pharma grade

H₂O₄S

H₂SO₄

M.= 98,08

CAS [7664-93-9]

EINECS 231-639-5

TARIC 2807 00 00 00

PHYSICAL DATA: liquid, Clear, Colourless, Miscible with water • D 20/4 1,84 • M.P.: -15 °C • B.P.: 330 °C • Vap. press. (20 °C) 0,0001 hPa •

BIBLIOGRAPHY: Merck Index **13**, 9.064 14, 8.974 Sax **SOI500** • Safety **2**, **2178 D** • Römp **8**, **3760** • Kühn-Birett **S 12** • Fieser **1470 5633 6558 7347 9441** • ACS **XI** • ISO 6353-2/1983 R - 37, 52 • **BP.2020** • **USP -NF 37** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **10 11** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: C.E: 016-020-00-8 • RTECS: WS 5600000 • LD50 oral rat 2.150 mg/kg • LC50 rat 510mg/m³ / 2h • VLA-EC 3 mg/m³ VLA-ED (Spain) 1 mg/m³ VLA-ED (Italy) 0,05 mg/m³



H: H314 •

P: P260 • P264 • P280 • P301+P330+P331 • P303+P361+P353 • P501 • P304+P340 • P305+P351+P338 • P310 • P321 • P338 • P363 • P405 •

TRANSPORT REGULATIONS: UN: 1830 • ADR: 8/II • IMDG: 8/II • IATA: 8/II • PAX: 851 • CAO: 855 • (E) •

WEIGHT/VOLUME INFORMATION: 1l~1,84 kg 1kg~0,54 l

OBSERVATIONS: Product controlled as a drug precursor. •

SPECIFICATIONS:

Assay (Acidim.)	95,0-98,0 %
Identity :	
Identity according to Pharmacopoeias:	passes test

Maximum limit of impurities

Appearance of solution	passes test
Reducing substance to KMnO4	passes test
Residue on ignition	0,002 %
Chloride (Cl)	0,001%
Ammonium (NH4)	0,001%
Residual solvents (Ph.Eur/USP)	passes test
Nitrate	passes test

As	0,0001 %
Fe	0,0025 %

Elemental impurities (ICH Q3D):

Class 1

Cd	0,5 ppm
Pb	0,5 ppm
As	1 ppm
Hg	1,5 ppm

Class 2A

Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B

Tl	0,8 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm

Class 3

Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm