

**PRODUCT CODE: 141270****Copper(II) Sulfate 5-hydrate (BP, Ph. Eur.) pure, pharma grade** $\text{CuO}_4\text{S} \cdot 5\text{H}_2\text{O}$ $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

M.= 249,68

CAS [7758-99-8]

EINECS 231-847-6

TARIC 2833 25 00 00

3822 00 00 00

PHYSICAL DATA: crystals, Blue, Soluble in water 330 g/l at 20 °C Thermal decom. above 110 °C • D 2,284 • pH(50g/l)4 •

BIBLIOGRAPHY: Merck Index **13**, 2.682 Sax **CNP500** • Safety **2**, **916 D** • Römp **8**, **2292** • Fieser **1164 289 5162 6141 8125 10107** • ACS **XI** • ISO 6353/2-1983 R - 9, 12 • BP.**2018** • USP **41** • Ph. Eur. **8.0** (2014) **9.0** (2017) • F.C.C **IV109** •

HAZARDOUS: C.E: 029-004-00-0 • RTECS: GL 8900000 • LD L0 oral man 50 mg/kg • LD50 oral rat 6.600 mg/kg • LD L0 oral man 50 mg/kg • LD L0 oral hmn 1.088 mg/kg • LD50 oral rat 300 mg/kg •



H: H302 • H410 • H318 • H400 •

P: P264 • P310 • P270 • P501 • P273 • P280 • P301+P312 • P501 • P330 • P337+P313 • P391 •

TRANSPORT REGULATIONS: UN: 3077 • ADR: 9/III • IMDG: 9/III • IATA: 9/III • PAX: 956 • CAO: 956 • (E) •

SPECIFICATIONS:

Assay (Iodom.)

99,0-100,5%

Identity :

Identity according to Pharmacopoeias:

passes test

Maximum limit of impurities

Appearance	passes test
Appearance of solution	passes test
Insoluble matter in H ₂ O	0,025 %
Loss on drying at 250°C	35,0-36,5 %
Chloride (Cl)	0,01%
Residual solvents (Ph.Eur.)	passes test

Fe	0,01	%
Pb	0,005	%

Elemental impurities (ICH Q3D):

Class 1

Cd	50 ppm
Pb	50 ppm
As	1,5 ppm
Hg	1,5 ppm

Class 2A

Co	5 ppm
V	10 ppm
Ni	20 ppm

Class 2B

Tl	50 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
Sn	600 ppm
Cr	25 ppm