

COPPER(II) OXIDE

CO0099 Copper(II) oxide, EssentQ®



- Synonyms: Copper monoxide
- CuO
- M = 79,55 g/mol
- CAS [1317-38-0]
- EINECS-No.: 215-269-1
- Solub. in water: (20 °C): insoluble
- Melting point: 1336 °C
- GHS-signal word: Warning
- GHS-H sentences: H302
- GHS-P sentences: P264 - P270 - P330 - P301 + P312 - P501a
- Tariff number: 2825 50 00 10
- Applications: analytical chemistry, catalyst (synthesis of organic products), in pyrotechnics, in porcelain industry, in galvanotechnia.

assay (complexometric) min. 96 %
 insoluble in HCl max. 0,05 %
 nitrogen compounds (as N) max. 0,005 %
 chlorides (Cl) max. 0,05 %
 iron (Fe) max. 0,05 %
 total sulphur (as SO₄) max. 0,1 %
 non precipitable with H₂S (as SO₄) max. 1 %

ART. NO.	VOLUME	CONTAINER
CO00990500	500 g	P
CO00991000	1 kg	P
CO0099005P	5 kg	P
CO0099025P	25 kg	P

COPPER(II) SULFATE ANHYDROUS

CO0087 Copper(II) sulfate anhydrous, extra pure, Pharnpur®, Ph Eur, BP, USP



- Synonyms: Copper monosulfate anhydrous, Copper vitriol anhydrous
- CuSO₄
- M = 159,60 g/mol
- CAS [7758-98-7]
- EINECS-No.: 231-847-6
- Solub. in water: (20 °C): 203 g/l
- LD 50 (oral, rat): 300 mg/kg
- EC-Index-No.: 029-004-00-0
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning
- GHS-H sentences: H400 - H410 - H302 - H315 - H319
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P501a
- Tariff number: 2833 25 00 00
- Applications: analytical chemistry, for the detection of: water, in pharma industry.

assay (iodometric, on dried sample) 99,0 - 100,5%
 identification passes test
 appearance of solution clear
 chlorides (Cl) max. 150 ppm
 calcium (Ca) max. 0,005 %
 iron (Fe) max. 0,003 %
 lead (Pb) max. 80 ppm
 nickel (Ni) max. 0,005 %
 potassium (K) max. 0,01 %
 sodium (Na) max. 0,02 %
 loss on drying (250°C) max. 1,0 %
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
CO00870250	250 g	P
CO00871000	1 kg	P
CO0087005P	5 kg	P
CO0087025P	25 kg	P

COPPER(II) SULFATE PENTAHYDRATE

- Synonyms: Copper monosulfate pentahydrate, Copper vitriol pentahydrate
- CuSO₄·5H₂O
- M = 249,68 g/mol
- CAS [7758-99-8]
- EINECS-No.: 231-847-6
- Solub. in water: (20 °C): ~ 317 g/l

- LD 50 (oral, rat): 300 mg/kg (anhydrous substance)
- EC-Index-No.: 029-004-00-0
- ADR: 9 M7 III UN 3077
- IMDG: 9 III UN 3077
- IATA/ICAO: 9 III UN 3077
- GHS-signal word: Warning

- GHS-H sentences: H400 - H410 - H302 - H315 - H319
- GHS-P sentences: P280 - P273 - P305 + P351 + P338 - P321 - P362 - P501a
- Tariff number: 2833 25 00 00
- Applications: analytical chemistry, nitrogen determinations.

CO0096 Copper(II) sulfate pentahydrate, extra pure, Pharnpur®, Ph Eur, BP, USP



assay (iodometric) 99,0 - 101,0 %
 assay (iodometric, on dried sample) 98,5 - 100,5 %
 identification passes test
 appearance of solution passes test
 chlorides (Cl) max. 100 ppm
 calcium (Ca) max 0,005 %
 iron (Fe) max. 0,003 %
 lead (Pb) max. 50 ppm

nickel (Ni) max. 0,005 %
 potassium (K) max. 0,01 %
 sodium (Na) max. 0,02 %
 loss on drying (250 °C) 35,0 - 36,5 %
 Elemental impurities are analysed according to guideline CHMP/ICH/353369/2013.
 Residual solvents are analysed according to guideline CPMP/ICH/283/95.

ART. NO.	VOLUME	CONTAINER
CO00960500	500 g	P
CO00961000	1 kg	P
CO0096005P	5 kg	P
CO0096025P	25 kg	P

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