

Copper(II) chloride dihydrate, Pharnpur®, USP

Identification

$\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$

M = 170,48 g/mol

CAS [10125-13-0]

EC number: 231-210-2

Taric code: 2827 39 80

Synonyms

Copper dichloride dihydrate

Applications

catalyst, invisible ink, analytical chemistry, in pharma industry.

Specifications

assay (titr. with HClO_4 , referred to dried sample) 99,0 - 100,5 %

Identification chloride..... passes test

Identification copper..... passes test

insoluble matter..... max. 0,01 %

sulfates (SO_4)..... max. 0,005 %

calcium (Ca)..... max. 0,005 %

iron (Fe)..... max. 0,005 %

nickel (Ni)..... max. 0,01 %

potassium (K)..... max. 0,01 %

sodium (Na)..... max. 0,02 %

loss on drying (105 °C, 16 h)..... 20,9 - 21,4 %

Physical data

• Appearance: elongate humid crystals, blue or turquoise

• Spec. Density: 2,54 g/cm³

• Bulk density: ~ 950 kg/m³

• Solub. in water: (20 °C): soluble

• Melting point: ~ 100 °C

• pH(50 g/l H_2O , 20 °C) 3,0 - 3,8

• Hygroscopic

Safety - GHS

Signal Word: Warning

Hazard Statements:

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H302+H312: Harmful if swallowed or in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.



Precautionary Statements:

P261: Avoid breathing dust / fume / gas / mist / vapours / spray.

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see on this label).

P405: Store locked up.

P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

• ADR: 8 C2 III • UN 2802 • COPPER CHLORIDE

• IMDG: 8 III • UN 2802 • COPPER CHLORIDE

• IATA/ICAO: 8 III • UN 2802 • COPPER CHLORIDE

• PAX: 822

• CAO: 823

• 10°C - 30°C