

IdentificationCuCl₂·2H₂O

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 % | calcium (Ca)..... | max. 0,005 % |
| Identification chloride..... | passes test | iron (Fe)..... | max. 0,005 % |
| Identification copper..... | passes test | nickel (Ni)..... | max. 0,01 % |
| insoluble matter..... | max. 0,01 % | potassium (K)..... | max. 0,01 % |
| sulfates (SO ₄)..... | max. 0,005 % | 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 H₂O, 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