

**Cobalt(II) chloride hexahydrate, EssentQ®****Identification**

CoCl<sub>2</sub>·6H<sub>2</sub>O  
M = 237,93 g/mol  
CAS [7791-13-1]  
EC number: 231-589-4  
Taric code: 2827 34 00

**Applications**

analytical chemistry, laboratory reagent, invisible ink.

**Specifications**

assay (complexometric).....	min. 98 %	iron (Fe).....	max. 0,005 %
identity (IR-spectrum).....	passes test	lead (Pb).....	max. 0,002 %
insoluble in water.....	max. 0,01 %	nickel (Ni).....	max. 0,15 %
sulfates (SO <sub>4</sub> ).....	max. 0,007 %	zinc (Zn).....	max. 0,05 %
copper (Cu).....	max. 0,005 %	non precipitable with (NH <sub>4</sub> ) <sub>2</sub> S (as SO <sub>4</sub> )max.	0,3 %

**Physical data**

- Appearance: crystals , red or garnet
- Spec. Density: (25 °C) 1,92 g/cm<sup>3</sup>
- Bulk density: ~ 1250 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 76 g/l
- Melting point: 56 °C
- pH(50 g/l H<sub>2</sub>O, 25 °C) ~ 4,9

**Safety - GHS**

Signal Word: Danger

**Hazard Statements:**

- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H350: May cause cancer.
- H360FD: May damage fertility. May damage the unborn child.
- H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P284: Wear respiratory 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.
- P310: Immediately call a POISON CENTER or doctor / physician.
- 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: 9 M7 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cobalt(II) chloride hexahydrate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cobalt(II) chloride hexahydrate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cobalt(II) chloride hexahydrate)
- PAX: 956
- CAO: 956