

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

NiCl<sub>2</sub>·6H<sub>2</sub>O  
M = 237,71 g/mol  
CAS [7791-20-0]  
EC number: 231-743-0  
Taric code: 2827 35 00

**Synonyms**

Nickel dichloride hexahydrate

**Applications**

analytical chemistry, laboratory reagent, manufacturing of inks.

**Specifications**

assay (complexometric).....	min. 98 %	copper (Cu).....	max. 0,01 %
insoluble in water.....	max. 0,025 %	iron (Fe).....	max. 0,005 %
pH (5 %, H <sub>2</sub> O).....	min. 3	lead (Pb).....	max. 0,002 %
sulfates (SO <sub>4</sub> ).....	max. 0,01 %	zinc (Zn).....	max. 0,05 %
calcium (Ca).....	max. 0,03 %	non precipitable with (NH <sub>4</sub> ) <sub>2</sub> S (as SO <sub>4</sub> )max.	0,3 %

**Physical data**

- Appearance: crystals, green
- Spec. Density: 3,55 g/cm<sup>3</sup> (anhydrous substance)
- Bulk density: ~ 640 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 553 g/l
- Melting point: 140 °C (release of crystalline water)
- Vapour pressure: (671 °C) 1,3 hPa (anhydrous substance)
- pH(100 g/l H<sub>2</sub>O, 20 °C) ~ 4,9

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H301: Toxic if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H331: Toxic if inhaled.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H350: May cause cancer.
- H360D: May damage the unborn child.
- H372: Causes damage to organs through prolonged or repeated exposure.
- H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.
- P284: Wear respiratory protection.
- P301+P310: IF SWALLOWED: 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: 6.1 T5 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S.(Nickel(II) chloride hexahydrate)
- IMDG: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Nickel(II) chloride hexahydrate)
- IATA/ICAO: 6.1 III • UN 3288 • TOXIC SOLID, INORGANIC, N.O.S. (Nickel(II) chloride hexahydrate)
- PAX: 619
- CAO: 619
- 15°C - 25°C