

Nickel(II) chloride hexahydrate, for analysis, ExpertQ®**Identification**

NiCl₂·6H₂O
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. 98,5 %	cobalt (Co).....	max. 0,005 %
identity.....	passes test	copper (Cu).....	max. 0,001 %
insoluble in water.....	max. 0,005 %	iron (Fe).....	max. 0,001 %
pH (5 %, H ₂ O).....	3,5 - 6,5	lead (Pb).....	max. 0,002 %
sulfates (SO ₄).....	max. 0,005 %	sodium (Na).....	max. 0,01 %
calcium (Ca).....	max. 0,005 %	zinc (Zn).....	max. 0,001 %

Physical data

- Spec. Density: 3,55 g/cm³ (anhydrous substance)
- Bulk density: ~ 640 kg/m³
- 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 H₂O, 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
- 10°C - 30°C