

Nickel(II) nitrate hexahydrate, EssentQ®

Identification

$\text{Ni}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$
M = 290,81 g/mol
CAS [13478-00-7]
EC number: 236-068-5
Taric code: 2834 29 20

Applications

analytical chemistry, laboratory reagent, in the ceramics industry.

Specifications

assay (complexometric).....	min. 98 %	copper (Cu).....	max. 0,002 %
chlorides (Cl).....	max. 0,003 %	iron (Fe).....	max. 0,005 %
sulfates (SO_4).....	max. 0,03 %	lead (Pb).....	max. 0,005 %
calcium (Ca).....	max. 0,2 %	zinc (Zn).....	max. 0,05 %
cobalt (Co).....	max. 0,01 %	non precipitable with $(\text{NH}_4)_2\text{S}$ (as SO_4)max.	0,3 %

Physical data

- Bulk density: ~ 800 kg/m³
- Solub. in water: (20 °C): soluble
- Melting point: 56,7 °C
- Boiling point: 136,7 °C
- pH(50 g/l H_2O , 20 °C) ~ 5
- Hygroscopic

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H272: May intensify fire; oxidiser.
H302+H332: Harmful if swallowed or if inhaled.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.
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:

- P221: Take any precaution to avoid mixing with combustibles.
P210: Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
P273: Avoid release to the environment.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice / attention.

Transport/storage

- ADR: 5.1 O2 III • UN 2725 • NICKEL NITRATE
- IMDG: 5.1 III • UN 2725 • NICKEL NITRATE
- IATA/ICAO: 5.1 III • UN 2725 • NICKEL NITRATE
- PAX: 516
- CAO: 518
- 10°C - 30°C