

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

NiSO<sub>4</sub>·6H<sub>2</sub>O  
M = 262,86 g/mol  
CAS [10101-97-0]  
EC number: 232-104-9  
Taric code: 2833 24 00

**Applications**

laboratory reagent, for organometallic compounds synthesizing, manufacture of dyes and painting.

**Specifications**

assay (complexometric).....	98 - 102 %	cadmium (Cd).....	max. 0,005 %
insoluble in water.....	max. 0,025 %	cobalt (Co).....	max. 0,02 %
pH (5 %, H <sub>2</sub> O).....	4 - 6	copper (Cu).....	max. 0,005 %
chlorides (Cl).....	max. 0,005 %	iron (Fe).....	max. 0,005 %
nitrogen compounds (as N).....	max. 0,005 %	lead (Pb).....	max. 0,002 %
arsenic (As).....	max. 0,001 %	zinc (Zn).....	max. 0,005 %
		non precipitable with (NH <sub>4</sub> ) <sub>2</sub> S (as SO <sub>4</sub> )max.	0,5 %

**Physical data**

- Appearance: crystals, green
- Spec. Density: 2,07 g/cm<sup>3</sup>
- Bulk density: ~ 1000 kg/m<sup>3</sup>
- Solub. in water: (20 °C): 625 g/l
- Melting point: 53 °C
- pH(100 g/l H<sub>2</sub>O, 20 °C) 4,3 - 4,7

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351: Suspected of causing cancer.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H302: Harmful if swallowed.  
H317: May cause an allergic skin reaction.

**Precautionary Statements:**

- P284: Wear respiratory protection.  
P261: Avoid breathing dust / fume / gas / mist / vapours / spray.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
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.(Nickel(II) sulfate hexahydrate)
- IMDG: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Nickel(II) sulfate hexahydrate)
- IATA/ICAO: 9 III • UN 3077 • ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Nickel(II) sulfate hexahydrate)
- PAX: 911
- CAO: 911
- 15°C - 25°C