

Nickel(II) Acetate Tetrahydrate

Hydrated nickel acetate salt for catalyst precursors, nickel plating and specialty materials.

CAS No. 6018-89-9	EC / List No. 206-761-7	Transport Class 9 — Environmentally hazardous
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Product Information

Nickel(II) acetate tetrahydrate is the hydrated acetate salt of divalent nickel. Its formula is $\text{Ni}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ and molecular weight 248.84 g/mol. The four waters of crystallization distinguish this grade from anhydrous nickel acetate and must be included when calculating a reaction charge or nickel contribution.

Specifications

Parameter	Specification
Appearance	Green crystalline powder
Purity	≥99.0 %
Cobalt	≤0.0500 %
Iron	≤0.0050 %
Zinc	≤0.0200 %
Water-insoluble material	≤0.0200 %
Copper	≤0.0100 %
Sulfate	≤0.0100 %
Chloride	≤0.0050 %
Particle size	30–120 mesh

Supply limits describe the tetrahydrate. Density 1.744 at 20/4°C is a reference property rather than an acceptance limit. Formula and CAS identify the hydrated grade.

Typical Properties

Property	Typical Value
Molecular formula	$\text{Ni}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$
Molecular weight	248.84 g/mol

Applications

Catalyst and precursor preparation: Nickel source for selected organic-synthesis catalysts and nickel-containing material precursors. Account for hydrate water, nickel loading and impurity limits in the preparation procedure.

Electroplating and surface treatment: Nickel salt for compatible plating and metal-coloring processes. Evaluate bath composition, impurity tolerance, deposit performance and appropriate workplace controls.

Specialty material synthesis: Precursor for nickel oxide, hydroxide and other nickel-containing materials. Verify conversion conditions, residual acetate and the required finished-material properties.

Packaging / Storage

Item	Information
Packing	25 kg lined bags
Storage	Store tightly sealed in a cool, dry, ventilated place with controlled access. Protect from moisture, contamination and excessive heating; keep separate from oxidizers and alkaline materials.
Handling	Use enclosed handling and local extraction to prevent nickel exposure. Wear suitable chemical-resistant gloves, protective clothing and eye protection. Use respiratory protection where the exposure assessment requires it. Keep contaminated work clothing separate and prevent releases to drains.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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