

Cobalt(II) Acetate Tetrahydrate

Hydrated cobalt acetate raw material for catalyst chemistry, cobalt compounds and specialty industrial formulations.

CAS No. 6147-53-1	EC / List No. 200-755-8	Transport Class 9 — Environmentally hazardous
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Product Information

Cobalt(II) Acetate Tetrahydrate is a hydrated cobalt carboxylate also called cobaltous acetate tetrahydrate. Its formula $\text{Co}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$ and molecular weight 249.08 g/mol distinguish it from anhydrous cobalt acetate. The supplied material is described as brown-red crystals with a characteristic acetic-acid odor.

Specifications

Parameter	Specification
Appearance	Brown-red crystals
Purity	≥99.0 %
Nickel	≤0.0500 %
Iron	≤0.0010 %
Manganese	≤0.0050 %
Zinc	≤0.0500 %
Water-insoluble substances	≤0.0200 %
Sulfate	≤0.0100 %
Chloride	≤0.0050 %
Relative density, reference at 20/4°C	1.705
pH, reference at 50 g/L water, 20°C	7.2
Sensitivity	Hygroscopic

Purity and impurity limits follow the matching local 2026 ZXCHEM TDS. Relative density and pH are physical reference values. Formula and molecular weight are for the tetrahydrate, rather than the anhydrous salt.

Typical Properties

Property	Typical Value
Molecular formula	$\text{Co}(\text{CH}_3\text{COO})_2 \cdot 4\text{H}_2\text{O}$
Molecular weight	249.08 g/mol

Applications

Catalysts and cobalt complexes: Hydrated cobalt salt source for selected oxidation catalysts and coordination-compound synthesis. Match purity, hydration and trace-metal limits to the intended reaction system.

Coating and surface-treatment chemistry: Cobalt raw material for selected drying, curing and surface-treatment formulations. Assess binder compatibility and the required cobalt concentration in the final system.

Specialty cobalt compounds: Intermediate for preparation of other cobalt-containing materials and specialty chemicals. Evaluate purification needs, solution handling and metal-containing waste management.

Packaging / Storage

Item	Information
Packing	25 kg bags / 1,000 kg bags
Storage	Store sealed in a cool, dry, ventilated area with controlled access. Protect the hygroscopic crystals from moisture and unnecessary heat; keep separate from strong oxidizers.
Handling	Use closed or locally extracted powder/crystal handling. Avoid dust inhalation and skin contact. Wear appropriate protective gloves, goggles and clothing; apply particulate respiratory protection when required by the exposure assessment.

Company Contact

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