



Chemistry for Safer, Sustainable Life

**BioFuran Materials LLC**  
920 William Pitt Way  
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### COPPER FORMATE TETRAHYDRATE Data Sheet

<b>Catalog sizes</b>	<b>100g</b> , Listed as 100g Copper formate tetrahydrate, 100FO114 <b>500g</b> , Listed as 500g Copper formate tetrahydrate, 500FO114 <b>1kg</b> , Listed as 1kg Copper formate tetrahydrate, 1000FO114
<b>Category</b>	Formate & Acetate Salts
<b>Product specification</b>	Blue crystalline powder <ul style="list-style-type: none"><li>• Product ID : 100FO114</li><li>• CAS : 5893-61-8</li><li>• Purity : 98%+</li><li>• Molecular formula : C<sub>2</sub>H<sub>10</sub>CuO<sub>8</sub></li><li>• Molecular mass : 225.64g/mol</li><li>• Mp : decompose at 130-132°C</li><li>• Solubility: 120-130g/L in water</li></ul>
<b>Product description</b>	<p>Copper formate tetrahydrate [Cu(HCOO)<sub>2</sub>·4H<sub>2</sub>O], is a blue crystalline powder which is soluble in water. The formate ligand acts as organo-substitute for chlorides, sulfates, nitrates, fluorides, bromides, or nitrates. Cu(HCOO)<sub>2</sub>·4H<sub>2</sub>O has numerous uses both as a synthetic reagent in copper chemistry or as a copper source in many other applications. The Cu(HCOO)<sub>2</sub>·4H<sub>2</sub>O uses include, but are not limited to,</p> <ul style="list-style-type: none"><li>• Material preservation<ul style="list-style-type: none"><li>○ preserving pulp wood and ground pulp</li><li>○ mildew preventive,</li><li>○ preservative for cellulose materials</li><li>○ fungicidal agent,</li><li>○ preserving hides in leather tanning,</li><li>○ insecticidal agent</li><li>○ herbicidal agent</li><li>○ rot proofer for cotton fabric</li></ul></li><li>• Manufacturing<ul style="list-style-type: none"><li>○ manufacture of rayon,</li></ul></li><li>• Synthetic Chemistry &amp; Catalysis<ul style="list-style-type: none"><li>○ catalyst for organic reactions,</li><li>○ reagent for copper coordination complexes</li><li>○ stabilizer for polyurethanes and nylons,</li></ul></li></ul>



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- High tech
- fabrication battery electrodes,
- pigment for ceramics,
- corrosion inhibitor, anticorrosion additive in lubricating oils
- cathodic material in sea water batteries,
- electroplating bath ingredient
- antifouling additive in marine paints
- textile dye ingredient in treating and staining paper
- pollution control catalyst,
- copper-containing transparent conducting ceramics precursor for solar harvesting