



## Technical Data Sheet - Zinc Acetate

1	Chemical Name	Acetate Anhydrous
2	CAS No	5970-45-6
3	Synonym (s)	Acetic Acid - Zinc Salt
4	Chemical Formula	$\text{Zn}(\text{CH}_3\text{COO})_2$
5	Chemical Structure	
6	Molecular Weight	183.48 g/mol
7	Description	White crystalline powder
8	Solubility	Soluble in water
9	Storage and Handling	Highly hygroscopic / store in dry placeZinc
10	Uses	<p><b>1. Chemical Synthesis and Materials Science:</b></p> <ul style="list-style-type: none"> <li> <b>Precursor in Ceramics and Glass:</b>  Zinc acetate decomposes into zinc oxide upon heating, enhancing the mechanical strength, thermal stability, and optical properties of ceramics and glass. </li> <li> <b>Synthesis of Nanomaterials:</b>  It's used in the synthesis of layered An-aryl </li> </ul>



		<p>phosphonates, zinc sulfide nanoparticles coated on silica particles, and ZnO/ZnS composites.</p> <ul style="list-style-type: none"> <li>● <b>Catalyst:</b> Zinc acetate acts as a catalyst in the production of vinyl acetate from acetylene, and in other chemical reactions and organic synthesis.</li> <li>● <b>Coatings and Pigments:</b> It can be involved in the preparation of certain coatings and pigments.</li> </ul> <p><b>2. Pharmaceutical and Medical Applications:</b></p> <ul style="list-style-type: none"> <li>● <b>Lozenges and Dietary Supplements:</b> Zinc acetate is a component of some lozenges used to treat the common cold, and it can also be used as a dietary supplement.</li> <li>● <b>Treatment of Wilson's Disease:</b> As an oral daily supplement, it inhibits copper absorption, aiding in the treatment of Wilson's disease.</li> <li>● <b>Topical Treatments:</b> It's used in topical ointments and lotions for relieving itching and rashes, and in acne treatments, often combined with antibiotics.</li> <li>● <b>Zinc Deficiency:</b> It's used in treating zinc deficiencies.</li> </ul> <p><b>3. Industrial Applications:</b></p> <ul style="list-style-type: none"> <li>● <b>Wood Preservation:</b> Zinc acetate is used in the wood preservation industry.</li> <li>● <b>Manufacturing of Zinc Salts:</b> It's used in the production of other commercially useful zinc salts.</li> <li>● <b>Manufacturing of Polymers and Ethyl Acetate:</b> It's used in the manufacture of polymers and ethyl acetate.</li> </ul>
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# RASHDEEP CHEMICALS

		<ul style="list-style-type: none"><li>• <b>Dye Mordant:</b> Zinc acetate serves as a dye mordant.</li><li>• <b>Plating Inhibitor:</b> It acts as a plating inhibitor on primary water piping.</li><li>• <b>Analytical Reagent:</b> It's used as an analytical reagent in analytical chemistry.</li></ul>
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