



Chemistry for Safer, Sustainable Life

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### Cesium formate monohydrate Data Sheet

<b>Catalog sizes</b>	<b>100g</b> , Listed as 100g Cesium formate monohydrate, 100FO16 <b>500g</b> , Listed as 500g Cesium formate monohydrate, 500FO16 <b>1kg</b> , Listed as 1kg Cesium formate monohydrate, 1000FO16
<b>Category</b>	Formate and Acetate Salts
<b>Product specification</b>	White hygroscopic crystalline powder <ul style="list-style-type: none"><li>• Product ID : FO16</li><li>• Purity : 98%+</li><li>• CAS : 3495-36-1</li><li>• Molecular formula : CH<sub>3</sub>CsO<sub>3</sub></li><li>• Molecular mass : 195.94g/mol</li><li>• Mp : Decompose at 268-272°C</li><li>• Solubility : 0.9kg/L in water at 20°C</li></ul>
<b>Product description</b>	<p>Cesium formate monohydrate is a cesium salt of acetic acid. It is frequently used in</p> <ul style="list-style-type: none"><li>· Energy harvesting as a shale drilling mud,</li><li>· High-tech applications as<ul style="list-style-type: none"><li>• An excellent cesium precursor (replacing less soluble salts) for cesium lead halide perovskite nanoparticles,</li><li>• Coatings ingredient for solar cells, and</li><li>• A high-density electrolyte in alkaline batteries</li></ul></li><li>· Manufacturing &amp; Catalysis applications such as<ul style="list-style-type: none"><li>• specialty glasses manufacturing</li><li>• organic synthesis</li><li>• metallurgical testing as a dense medium</li><li>• urethane foam production catalysts,</li><li>• petroleum refining catalysts</li></ul></li><li>• In reaction chemistry, organic cesium salt reagents are more preferred over their cheaper alkali metal counterparts. The higher cost of cesium salts is offset by clear 'Cesium Effect' advantages such as higher yields, shorter reaction times, smaller amounts of reagents required, milder reaction conditions and easier work-up procedures.</li></ul>