



Chemistry for Safer, Sustainable Life

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Magnesium acetate tetrahydrate Data Sheet

Catalog sizes	100g , Listed as 100g Magnesium acetate tetrahydrate, 100AC23 500g , Listed as 500g Magnesium acetate tetrahydrate, 500AC23 1kg , Listed as 1kg Magnesium acetate tetrahydrate, 1000AC23
Category	Acetate and formate Salts
Product specification	White crystalline, hygroscopic powder <ul style="list-style-type: none">• Product ID : 100AC23• Purity : 98%+• CAS : 16674-78-5• Molecular formula : C₄H₁₄MgO₈• MW : 214.45g/mol• MP : 78-82C• Solubility : 1.0-1.3kg/L in water
Product description	Magnesium acetate tetrahydrate, Mg(CH ₃ COO) ₂ ·4H ₂ O, is an ideal precursor for the synthesis of antimicrobial magnesium fluoride or oxide nanoparticles due to its exceptional solubility in water (1-1.3kg/L) and methanol (5.1-5.3kg/L). It is also routinely used as an intermediate, electrolyte, catalyst and analytical reagent in wet chemistry. In biochemical applications, Mg(CH ₃ COO) ₂ ·4H ₂ O is used as source of magnesium ions as a precipitant in protein purification. Exemplary uses are summarized as follows: <ul style="list-style-type: none">• Non-chloride salting out electrolyte• MgF₂ nanoparticles precursor• Negative staining ingredient• Magnesium oxide precursor• deicer, replacing corrosive chloride salts• SO_x and NO_x absorbent• Precursor for solvated supramolecules such as Mg(OAc)₂·(H₂O)₃·(EtOH), Mg₃(OAc)₆·2EtOH, etc.