

# Chem-Impex International, Inc.

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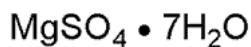
**Manufacturing site:**

825 Dillon Drive

Wood Dale, IL 60191

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## Product Specifications



**Catalogue Number** 01238

**Product** **Magnesium sulfate heptahydrate**  
Epsom salts

**CAS Number** 10034-99-8

**Molecular Formula**  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$

**Molecular Weight** 246.5

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**Appearance** White crystals or colorless efflorescent solid

**Solubility** 72 g in 100 mL water at 20 °C

**Heavy Metals**  $\leq 5$  ppm (as Pb)

**Anion** Chloride ( $\text{Cl}^-$ ) :  $\leq 5$  ppm  
Nitrate ( $\text{NO}_3^-$ ) :  $\leq 0.002\%$

**Cation** Ammonium ( $\text{NH}_4$ ) :  $\leq 0.002\%$   
Calcium (Ca) :  $\leq 0.02\%$   
Manganese (Mn) :  $\leq 5$  ppm  
Potassium (K) :  $\leq 0.005\%$   
Sodium (Na) :  $\leq 0.005\%$   
Strontium (Sr) :  $\leq 0.005\%$   
Iron (Fe) :  $\leq 5$  ppm

**pH** 5.0 - 8.2

**Insoluble material**  $\leq 0.005\%$

**Assay by titration** 98 - 102%

**Grade** ACS reagent

**Application** In medical field, pregnancy, agriculture, used as a desiccant in organic synthesis due to its affinity for water, in bath salts used as a brewing salt in beer production to adjust the ion content of the brewing water and enhance enzyme action in the mash or promote a desired flavour profile in the beer.

**Storage** Store at RT

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**For Laboratory Use Only**