



## Specification

### Magnesium Sulfate Heptahydrate ACS

**Catalog Number:** MS1004  
**CAS Number:** 10034-99-8  
**Molecular Formula:**  $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$   
**Molecular Weight:** 246.47  
**Storage:** 15°C - 30°C  
**Retest Period:** Five years from the date of manufacture

Test	Specification
Appearance	White to colorless efflorescent crystals
Assay	98.0% - 102.0%
Identification	To pass test
Solubility (500mg/mL)	Clear and colorless
pH (5%)	5.0 – 8.2
Insoluble Matter	≤ 0.005%
Ammonia	≤ 0.002%
Chloride	≤ 5ppm
Nitrate	≤ 0.002%
Calcium	≤ 0.02%
Manganese	≤ 5ppm
Potassium	≤ 0.005%
Sodium	≤ 0.005%
Strontium	≤ 0.005%
Heavy Metals (as Pb)	≤ 5ppm
Iron (Fe)	≤ 5ppm

Approved:

Date: September 24, 2018

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