



## Certificate of Analysis

### Magnesium Chloride Hexahydrate ACS

**Product #:** MC1001  
**Lot #:** Typical  
**CAS #:** 7791-18-6  
**MFG. Date:** Feb. 2011  
**Retest Date:** Jan. 2016  
**Storage:** Room Temperature

Test	Specification	Results
Appearance	White, odorless deliquescent crystals	Complies
Solubility	Very freely soluble in water and alcohol	Complies
Identification	Magnesium=+VE, Chloride=+VE	Magnesium=+VE, Chloride=+VE
Insoluble matter	≥ 0.005%	0.002%
Ammonium	≥ 0.002%/0.005%	< 0.002%
Heavy metal (as Pb)	≥ 0.0005%/0.001%/0.0004%	< 0.0004%
Sulphate (SO <sub>4</sub> )	≥ 0.002%/0.005%/0.03%	< 0.002%
Barium (Ba)	≥ 0.005%/As per USP	< 0.005%
Calcium (Ca)	≥ 0.01%	0.0005%
Potassium (K)	≥ 0.005%/As per USP	0.0015%
PH 5% Solution at 25°C	4.5 – 7.0	6.36
Sodium (Na)	≥ 0.005%	0.0033%
Strontium (Sr)	≥ 0.005%	< 0.005%
Iron (Fe)	≥ 0.0005%	< 0.0005%
Nitrate (NO <sub>3</sub> )	≥ 0.001%	< 0.001%
Phosphate (PO <sub>4</sub> )	≥ 0.0005%	< 0.0005%
Manganese (Mn)	≥ 0.0005%	0.0004%
Residual solvents	As per USP	Complies
Assay	99.0-102.0%/98.0-101.0%/99.0-105.0%	99.94% MgCl <sub>2</sub> ·6H <sub>2</sub> O

Approved By:

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