

Certificate of Analysis

Product: Magnesium Chloride Hexahydrate ACS/USP

Item Number: MAGCHM

CAS#: 7791-18-6

Grade: ACS, USP

Lot Number: 5001808/1.1

Manufacture Date: 06/20/2025

Expiration Date: 06/19/2030

Country of Origin: United States

Tested Property	Specification	Analysis
Appearance	White crystals	Complies
Identity	To Pass Test	Passes
Appearance of solution (10% water)	Clear and colorless	Complies
Assay (MgCL ₂ x 6H ₂ O)	99.0-101.0%	100.5%
Water	51.0-55.0%	53.1%
pH value (5%)	4.5 - 7.0	5.5
Alkalinity (0.1 M HCl/0.5g)	≤0.3 ml	0.1 ml
Acidity (0.1 M NaOH/0.5g)	≤0.3 ml	0.1 ml
Insoluble matter (water)	≤0.005%	<0.005%
Barium	≤50 mg/kg	<1 mg/kg
Calcium	≤100 mg/kg	<10 mg/kg
Sodium	≤50 mg/kg	<5 mg/kg
Potassium	≤50 mg/kg	<1 mg/kg
Sulfate	≤20 mg/kg	<5 mg/kg
Ammonium	≤20 mg/kg	<20 mg/kg
Phosphate	≤5 mg/kg	<5 mg/kg
Nitrate	≤10 mg/kg	<10 mg/kg
Bromide	≤500 mg/kg	<20 mg/kg
Aluminum	≤1 mg/kg	<1 mg/kg
Iron	≤5 mg/kg	<1 mg/kg

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Heavy metals (as Pb)	≤5 mg/kg	<2 mg/kg
Arsenic	≤2 mg/kg	<1 mg/kg
Lead	≤2 mg/kg	<1 mg/kg
Manganese	≤5 mg/kg	<1 mg/kg
Strontium	≤50 mg/kg	<1 mg/kg

[Magnesium Chloride Hexahydrate ACS/USP](#)

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