



Certificate of Analysis

Magnesium Nitrate Hexahydrate ACS

Catalog Number: MN1002
Lot Number: 0131802
CAS Number: 13446-18-9
Molecular Formula: $\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$
Molecular Weight: 256.41
Storage: 15°C – 30°C
Date of Manufacture: September 14, 2016
Retest Date: September 13, 2021

Test	Specification	Result
Appearance	Colorless to white crystals	Conforms
Assay	98.0 – 102.0%	100.68%
Identification	To pass test	Conforms
Solubility (5% in H ₂ O)	Clear & colorless	Conforms
pH (5% in H ₂ O)	5.0 – 8.2	6.5
Insoluble Matter	≤ 0.005%	0.003%
Ammonium (NH ₄)	≤ 0.003%	< 0.003%
Chloride (Cl)	≤ 0.001%	< 0.001%
Phosphate (PO ₄)	≤ 0.0005%	< 0.0005%
Sulphate (SO ₄)	≤ 0.005%	< 0.005%
Barium (Ba)	≤ 0.005%	< 0.005%
Calcium (Ca)	≤ 0.01%	0.0012%
Manganese (Mn)	≤ 5ppm	0.4ppm
Potassium (K)	≤ 0.005%	0.0008%
Sodium (Na)	≤ 0.005%	0.002%
Strontium (Sr)	≤ 0.005%	0.001%
Heavy Metals (Pb)	≤ 5ppm	< 5ppm
Iron (Fe)	≤ 5ppm	< 5ppm
Residual Solvents: Water was the only solvent used during production.		

Approved by:

Date: January 31, 2018

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