



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-203127
Lot Number: SAMPLE
Product Name: Magnesium nitrate hexahydrate
CAS Number: 13446-18-9
Molecular Formula: $H_{12}MgN_2O_{12}$
Molecular Weight: 256.41

Test	Specification	Result
Appearance	White chips or crystals	White crystals
Identification (X-Ray Diffraction)	Consistent with structure	Complies
Purity (Titration)	98.0 - 102.0%	101.5%
pH	5.0 - 8.2 (c = 5%, water, at 25 °C)	5.8 (c = 5%, water, at 25 °C)
Heavy Metals (Pb)	≤ 5 ppm	< 4 ppm
Insoluble Matter	≤ 0.005% (c = 10%, water)	0.004% (c = 10%, water)
Ammonia	≤ 0.003%	< 0.003%
Barium	≤ 0.005%	< 0.005%
Calcium	≤ 0.01%	< 0.01%
Chloride	≤ 0.001%	< 0.001%
Iron	≤ 5 ppm	< 5 ppm
Manganese	≤ 5 ppm	1 ppm
Phosphate	≤ 5 ppm	< 5 ppm
Potassium	≤ 0.005%	< 0.005%
Sodium	≤ 0.005%	< 0.005%
Strontium	≤ 0.005%	< 0.005%
Sulfate	≤ 0.005%	< 0.005%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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