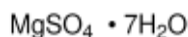


Certificate of Analysis

Product Name:

Magnesium sulfate heptahydrate - ACS reagent, ≥98%

Product Number: 230391
Batch Number: MKCX8922
Brand: SIGALD
CAS Number: 10034-99-8
MDL Number: MFCD00149785
Formula: MgO4S · 7H2O
Formula Weight: 246.47 g/mol
Quality Release Date: 28 MAY 2025
Recommended Retest Date: MAY 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystals	Crystals
Infrared Spectrum	Conforms to Structure	Conforms
Complexometric EDTA	98.0 - 102.0 %	100.2 %
Insoluble Matter	≤ 0.005 %	0.001 %
c = 10%, Water		
Calcium (Ca)	≤ 0.02 %	< 0.01 %
Chloride (CL)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 1 ppm
Heavy Metals	≤ 5 ppm	< 1 ppm
by ICP		
Manganese	≤ 5 ppm	2 ppm
Sodium (Na)	≤ 0.005 %	< 0.001 %
Ammonia (NH4)	≤ 0.002 %	< 0.002 %
Nitrate (NO3)	≤ 0.002 %	< 0.002 %
pH	5.0 - 8.2	5.8
c = 5%, Water at 25°C		
Strontium (Sr)	≤ 0.005 %	< 0.001 %
Potassium (K)	≤ 0.005 %	< 0.005 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
1440 days		

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Certificate of Analysis

Product Number: 230391
Batch Number: MKCX8922



Larry Coers, Director
Quality Control
Milwaukee, WI US

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