

Certificate of Analysis

Product Name:

Aluminum nitrate nonahydrate - ACS reagent, ≥98%

Product Number: 237973
Batch Number: MKCT1772
Brand: SIGALD
CAS Number: 7784-27-2
MDL Number: MFCD00149132
Formula: $\text{Al}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$
Formula Weight: 375.13 g/mol
Quality Release Date: 10 MAR 2023



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Crystals	Crystals
Infrared spectrum	Conforms to Structure	Conforms
Complexometric EDTA	98.0 - 102.0 %	100.1 %
Insoluble Matter	≤ 0.005 %	< 0.001 %
Chloride Content	≤ 10 mg/kg	< 10 mg/kg
Iron (Fe)	≤ 20 mg/kg	16 mg/kg
Heavy Metals (by ICP-OES)	≤ 10 mg/kg	2 mg/kg
Sulfate (SO ₄)	≤ 50 mg/kg	< 50 mg/kg
Calcium (Ca)	≤ 50 mg/kg	3 mg/kg
Magnesium (Mg)	≤ 10 mg/kg	< 1 mg/kg
Potassium (K)	≤ 20 mg/kg	< 18 mg/kg
Sodium (Na)	≤ 50 mg/kg	10 mg/kg
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director
Quality Control
Milwaukee, WI US

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.

