

Certificate of Analysis

Product Name:

Molybdenum(VI) oxide - ACS reagent, ≥99.5%



Product Number: 267856
Batch Number: MKCX6949
Brand: SIGALD
CAS Number: 1313-27-5
MDL Number: MFCD00003469
Formula: MoO₃
Formula Weight: 143.94 g/mol
Quality Release Date: 16 APR 2025

Test	Specification	Result
Appearance (Color)	Faint Green to Light Green	Faint Green
Appearance (Form)	Powder	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Insoluble Matter	≤ 0.01 %	0.01 %
C = 8.3%; Dilute NH ₄ OH		
Chloride Content	≤ 0.002 %	0.002 %
Heavy Metal	≤ 0.005 %	0.005 %
As Lead		
Ammonia (NH ₄)	≤ 0.002 %	0.002 %
Phosphate (PO ₄)	≤ 5 ppm	< 5 ppm
Sulfate (SO ₄)	≤ 0.02 %	< 0.02 %
Miscellaneous Assay	≥ 99.50 %	99.80 %
Purity with Lead Nitrate		
Miscellaneous Assay	≤ 0.001 %	0.001 %
Arsenate, Phosphate and Silicate		
Miscellaneous Assay	Pass	Pass
Nitrate (NO ₃), Limit Approximately 0.003%		
Meets ACS Requirements	Current ACS Specification	Conforms



Larry Coers, Director

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.



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Quality Control
Milwaukee, WI US

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