

Certificate of Analysis

Product Name:

Ammonium cerium(IV) nitrate - ≥99.99% trace metals basis

Product Number: 229547
Batch Number: MKBX8324V
 Brand: ALDRICH
 CAS Number: 16774-21-3
 MDL Number: MFCD00151121
 Formula: H8CeN8O18
 Formula Weight: 548.22 g/mol
 Quality Release Date: 11 MAR 2016



Test	Specification	Result
Appearance (Color)	Orange	Orange
Appearance (Form)	Conforms to Requirements	Crystals
Powder, Crystals. Crystalline Powder and/or Chunks		
Assay	25.0 - 26.1 %	25.7 %
% Ce By Titration with Dichromate		
ICP Major Analysis	Confirmed	Conforms
Confirms Cerium component		
Trace Rare Earth Analysis	- 100.0 ppm	12.2 ppm
Cadmium (Cd)		0.9 ppm
Chromium (Cr)		2.9 ppm
Copper (Cu)		1.4 ppm
Iron (Fe)		3.7 ppm
Iridium (Ir)		9.8 ppm
Potassium (K)		9.4 ppm
Lithium (Li)		7.9 ppm
Magnesium (Mg)		2.2 ppm
Molybdenum (Mo)		1.8 ppm
Lead (Pb)		14.7 ppm
Tin (Sn)		6.7 ppm
Strontium (Sr)		1.1 ppm
Titanium (Ti)		1.1 ppm
Zirconium (Zr)		16.8 ppm
Dysprosium (Dy)		2.7 ppm
Lanthanum (La)		6.7 ppm

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.

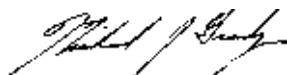
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Batch Number: MKBX8324V

Test	Specification	Result
Yttrium (Y) Purity >=99.99% Based on Rare Earth Analysis	Conforms	2.7 ppm Conforms



Michael Grady, Manager
Quality Control
Milwaukee, WI US

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