

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

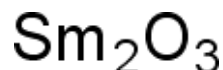
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Samarium(III) oxide - 99.999% trace metals basis



Product Number: 394394
Lot Number: MKBD2762
Brand: ALDRICH
CAS Number: 12060-58-1
MDL Number: MFCD00011237
Formula: O3SM2
Formula Weight: 348.7 AMU
Quality Release Date: 07 JAN 2011

Test	Specification	Result
Appearance (Color)	White to Light Orange	White
Appearance (Form)	Powder	Powder
Complexometric EDTA % Sm	84.0 - 88.4 %	88.2 %
Trace Rare Earth Analysis	≤ 20.0 ppm	< 20.0 ppm
ICP Major Analysis Confirms Samarium Component	Confirmed	Confirmed
Lithium (Li)		0.3 ppm
Sodium (Na)		2.0 ppm
Cesium (Cs)		0.1 ppm
Magnesium (Mg)		0.2 ppm
Yttrium (Y)		0.1 ppm
Lanthanum (La)		5.0 ppm
Boron (B)		0.2 ppm
Aluminum (Al)		1.0 ppm
Tantalum (Ta)		0.1 ppm
Cerium (Ce)		0.7 ppm
Tungsten (W)		0.2 ppm
Lead (Pb)		0.5 ppm
Iron (Fe)		0.2 ppm
Europium (Eu)		< 1.8 ppm
Purity 99.999% Based on Rare Earth Analysis	Meets Requirements	Meets Requirements

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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Jamie Gleason, Manager
Quality Control
Milwaukee, Wisconsin US

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