

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

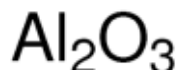
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Aluminum oxide – powder, primarily α phase, $\leq 10 \mu\text{m}$ avg. part. size, 99.5% trace metals basis

Product Number: 265497
Batch Number: MKCM1894
Brand: SIGALD
CAS Number: 1344-28-1
MDL Number: MFCD00003424
Formula: Al_2O_3
Formula Weight: 101.96 g/mol
Quality Release Date: 13 MAY 2020



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
X-Ray Diffraction	Conforms to Structure	Conforms
Size	≤ 10.00 micron	6.59 micron
Purity	Meets Requirements	Meets Requirements
99.5% Based on Trace Metals Analysis		
Trace Metal Analysis	≤ 5500.0 ppm	2070.9 ppm
Boron (B)		31.0 ppm
Barium (Ba)		6.4 ppm
Calcium (Ca)		350.0 ppm
Chromium (Cr)		4.9 ppm
Copper (Cu)		2.9 ppm
Iron (Fe)		155.0 ppm
Potassium (K)		39.0 ppm
Lithium (Li)		0.4 ppm
Magnesium (Mg)		40.0 ppm
Manganese (Mn)		1.5 ppm
Molybdenum (Mo)		0.3 ppm
Sodium (Na)		1400.0 ppm
Nickel (Ni)		2.7 ppm
Strontium (Sr)		1.6 ppm
Titanium (Ti)		23.0 ppm
Vanadium (V)		2.8 ppm
Zinc (Zn)		4.4 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.

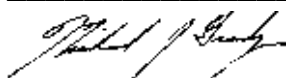
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Batch Number: MKCM1894

Test	Specification	Result
Zirconium (Zr)		5.0 ppm



Michael Grady, Manager
Quality Control
Milwaukee, WI US

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