

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

Osmium(III) chloride - 99.9% trace metals basis

Product Name:

Product Number: 398594
Lot Number: MKBG8324V
OSCI₃

 Brand:
 ALDRICH

 CAS Number:
 13444-93-4

 MDL Number:
 MFCD00011148

Formula: Cl3Os
Formula Weight: 296.59 g/mol
Quality Release Date: 12 MAY 2011

Test	Specification	Result	
Appearance (Color)	Dark Grey to Black	Black	
Appearance (Form)	Powder	Powder	
ICP Major Analysis Confirms Os Component	Confirmed	Confirmed	
Trace Metal Analysis	< 2000.0 ppm	< 126.0 ppm	
Silver (Ag)		1.0 ppm	
Aluminum (AI)		4.0 ppm	
Arsenic (As)		< 0.5 ppm	
Gold (Au)		5.0 ppm	
Boron (B)		0.1 ppm	
Beryllium (Be)		< 0.5 ppm	
Bismuth (Bi)		< 0.5 ppm	
Calcium (Ca)		15.0 ppm	
Cobalt (Co)		< 1.0 ppm	
Chromium (Cr)		7.0 ppm	
Copper (Cu)		2.0 ppm	
Iron (Fe)		30.0 ppm	
Iridium (Ir)		8.0 ppm	
Potassium (K)		8.0 ppm	
Lithium (Li)		3.0 ppm	
Magnesium (Mg)		3.0 ppm	
Manganese (Mn)		0.4 ppm	
Molybdenum (Mo)		1.0 ppm	
Sodium (Na)		20.0 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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Test	Specification	Result
Niobium (Nb)		< 0.5 ppm
Nickel (Ni)		1.0 ppm
Lead (Pb)		< 0.5 ppm
Palladium (Pd)		1.0 ppm
Platinum (Pt)		3.0 ppm
Rhodium (Rh)		3.0 ppm
Ruthenium (Ru)		2.0 ppm
Antimony (Sb)		< 0.5 ppm
Tin (Sn)		< 0.5 ppm
Titanium (Ti)		< 1.0 ppm
Vanadium (V)		< 0.5 ppm
Tungsten (W)		< 1.0 ppm
Zinc (Zn)		1.0 ppm
Zirconium (Zr)		< 0.5 ppm
Purity	Meets Requirements	Meets Requirements
99.9% Based On Trace Metals Analysis		

Jamie Gleason, Manager

Quality Control

Jamie Glisson

Milwaukee, Wisconsin US

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