



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-253532
Lot Number: SAMPLE
Product Name: Samarium(II) iodide
CAS Number: 32248-43-4
Molecular Formula: SmI_2
Molecular Weight: 404.17

Test	Specification	Result
Appearance	Dark green to black powder	Dark green powder
Identification (ICP)	Confirms samarium component	Complies
Purity (Rare Earth Analysis)	$\geq 99.9\%$	Complies
Trace Rare Earth Analysis	≤ 1000.0 ppm	< 1000.0 ppm
Aluminum		9.9 ppm
Arsenic		2.6 ppm
Barium		2.7 ppm
Boron		0.9 ppm
Cerium		2.9 ppm
Chromium		2.0 ppm
Complexometric EDTA	Sm: 36.3 - 38.1%	37.0%
Copper		1.3 ppm
Dysprosium		17.8 ppm
Erbium		6.9 ppm
Europium		4.0 ppm
Holmium		0.6 ppm
Iron		19.7 ppm
Lanthanum		22.0 ppm
Lead		4.0 ppm

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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Lithium	1.7 ppm
Magnesium	14.3 ppm
Manganese	13.5 ppm
Neodymium	1.1 ppm
Praseodymium	0.2 ppm
Sodium	0.8 ppm
Thulium	0.7 ppm
Tungsten	6.8 ppm
Yttrium	2.7 ppm

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