



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-224278
Lot Number: SAMPLE
Product Name: Samarium(III) acetate hydrate
CAS Number: 100587-91-5
Molecular Formula: $C_6H_9O_6Sm \cdot H_2O$
Molecular Weight: 327.49 (anhydrous basis)

Test	Specification	Result
Appearance	Off white to yellow powder or crystals or chunk(s)	Faint yellow crystals
Identification (Infrared Spectrum)	Conforms to structure	Conforms
Purity (Rare Earth Analysis)		99.9%
ICP-Atomic Emission	Confirms samarium component	Confirmed
Trace Rare Earth Analysis	≤ 1500.0 ppm	345.8%
Aluminum		0.8 ppm
Cadmium		5.6 ppm
Calcium		2.5 ppm
Cerium		45.4 ppm
Complexometric EDTA	$\geq 37.0\%$ (% Samarium)	37.6%
Europium		268.9 ppm
Lanthanum		31.5 ppm
Manganese		0.2 ppm
Nickel		5.7 ppm
Silver		4.8 ppm
Sodium		5.1 ppm
Zinc		0.9 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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