



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-234299
Lot Number: SAMPLE
Product Name: Cerium(III) nitrate hexahydrate
CAS Number: 10294-41-4
Molecular Formula: $\text{Ce}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$
Molecular Weight: 434.22

Test	Specification	Result
Appearance	White to yellow powder or crystals or powder with chunks or crystals with chunks	White crystals
Identification (X-Ray Diffraction)	Consistent with structure	Complies
Purity (Rare Earth Analysis)	99%	Complies
Solubility	Clear to slightly hazy and colorless solution at 5% in water	Clear and colorless solution at 5% in water
Trace Rare Earth Analysis	≤ 15000.0 ppm	367.2 ppm
Barium		0.8 ppm
Beryllium		5.3 ppm
Cerium	31.1 - 33.4% (Complexometric EDTA)	32.2%
Chromium		3.4 ppm
Cobalt		19.6 ppm
Copper		2.8 ppm
Dysprosium		158.1 ppm
Lanthanum		52.4 ppm
Lithium		4.9 ppm
Neodymium		58.3 ppm
Platinum		25.5 ppm
Praseodymium		34.4 ppm
Sodium		57.4 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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Strontium	1.0 ppm
Terbium	63.9 ppm
Tin	21.5 ppm
Titanium	0.8 ppm

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