

CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-252554
Lot Number: SAMPLE

Product Name: Cerium(III) chloride heptahydrate

CAS Number: 18618-55-8 Molecular Formula: $CeCl_3 \cdot 7H_2O$ Molecular Weight: 372.58

Test	Specification	Result
Appearance	White to light yellow crystals or crystalline powder	Colorless crystals
Water Insoluble Matter	≤ 0.5%	0.12%
Ammonium	NH ₄ ≤ 0.05%	0.01%
Calcium oxide	CaO ≤ 0.05%	0.0045%
Cerium (IV) oxide	CeO ₂ ≥ 99%	Complies
Iron (III) Oxide	Fe ₂ O ₃ ≤ 0.05%	0.0014%
Lanthanum oxide	La ₂ O ₃ ≤ 0.1%	0.06%
Neodymium (III) oxide	$Nd_2O_3 \le 0.05\%$	0.01%
Nitrate	NO ₃ ≤ 0.05%	0.01%
Praseodymium (III,IV) Oxide	$Pr_6O_{11} \le 0.05\%$	0.01%
Samarium (III) oxide	$Sm_2O_3 \le 0.05\%$	0.01%
Silicon dioxide	SiO ₂ ≤ 0.05%	0.005%
Sulfate	SO ₄ ≤ 0.05%	0.022%
Ytterbium (III) oxide	$Y_2O_3 \le 0.05\%$	0.01%

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.