

## Certificate of Analysis

Date of Testing: 2023-08-24 11:54:42  
Date of Next Testing: 2025-08-13 11:54:42  
Product Name: **Cerium nitrate hexahydrate**  
CAS Number: 10294-41-4  
Specifications & Purity: 99.95% metals basis  
Lot #: H2318250  
SKU #: **C105378**  
**Analysis: 252719**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.95-100 (%)	99.98 %
Trace Rare Earth Analysis(by ICP Atomic emission)	0-500 (ppm)	159.00 ppm
CeO <sub>2</sub> (redox titration)	38.8-40.5 (%)	39.89000 %
Cerium(Ce)	31.1-33.4 (%)	32.47 %
Appearance (C105378)	White to Off-White Moist Crystals and/or Chunks	White to Off-White Moist Crystals and/or Chunks
ICP: Confirms Cerium Component	Confirmed	Confirmed
Solubility in H <sub>2</sub> O , Clear , Colorless(c =pass 5%, H <sub>2</sub> O)		Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager