

## Certificate of Analysis

Date of Testing: 2023-10-27 11:35:52  
Date of Next Testing: 2025-10-16 11:35:52  
Product Name: **Cerium nitrate hexahydrate**  
CAS Number: 10294-41-4  
Specifications & Purity: 99.95% metals basis  
Lot #: J2320157  
SKU #: **C105378**  
**Analysis:** **269329**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.95-100 (%)	99.97%
Trace Rare Earth Analysis(by ICP Atomic emission)	0-500 (ppm)	268.00 ppm
Cerium(Ce)	31.1-33.4 (%)	31.95%
CeO2(redox titration)	38.8-40.5 (%)	39.96000%
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 H2O , Clear , Colorless(c =pass 5%, H2O)		Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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QA & QC Manager