

## Certificate of Analysis

Date of Testing: 2023-05-20 13:42:06  
Date of Next Testing: 2025-05-09 13:42:06  
Product Name: **Cerium nitrate hexahydrate**  
CAS Number: 10294-41-4  
Specifications & Purity: 99.95% metals basis  
Lot #: E2311273  
SKU #: **C105378**  
**Analysis:** **208507**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.95-100 (%)	100.00 %
Trace Rare Earth Analysis(by ICP Atomic emission)	0-500 (ppm)	24.00 ppm
Cerium(Ce)	31.1-33.4 (%)	33.14 %
CeO2(redox titration)	38.8-40.5 (%)	40.12500 %
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