

## Certificate of Analysis

Date of Testing: 2023-05-20 13:28:16  
Date of Next Testing: 2025-05-09 13:28:16  
Product Name: **Cerium nitrate hexahydrate**  
CAS Number: 10294-41-4  
Specifications & Purity: 99.5% metals basis  
Lot #: E2311218  
SKU #: **C105376**  
**Analysis:** **222124**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Cerium(Ce)	31.1-33.4 (%)	33.14 %
Purity(Based On Rare Earth Analysis of ICP)	99.5-100 (%)	100.00 %
Water by Karl Fischer	23-26 (%)	24.36 %
Trace Rare Earth Analysis	0-5000 (ppm)	24.00 ppm
Appearance (C105376)	White to Off-White Moist Crystals and/or Chunks	White to Off-White Moist Crystals and/or Chunks
Solubility,5% in H2O	Clear , Colorless	Clear , Colorless
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager