

## Certificate of Analysis

Date of Testing: 2022-12-15 14:48:45  
Date of Next Testing: 2024-12-04 14:48:45  
Product Name: **Cerium(III) chloride heptahydrate**  
CAS Number: 18618-55-8  
Specifications & Purity: 99.9% metals basis  
Lot #: A2418041  
SKU #: **C104760**  
**Analysis:** **168832**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Based On Trace Rare Earth Analysis)	99.9-100 (%)	99.95 %
Ce(Complexometric EDTA)	36.5-38.7 (%)	36.56 %
Water by Karl Fischer	32-34 (%)	32.15 %
Trace Rare Earth Analysis(by ICP Atomic emission)	0-2000 (ppm)	593.00 ppm
Appearance (C104760)	White to Light Yellow Powder or Crystals	White to Light Yellow Powder or Crystals
ICP: Confirms Cerium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager