

## Certificate of Analysis

Date of Testing: 2022-03-07 11:18:36  
Date of Next Testing: 2026-03-06 11:18:36  
Product Name: **Cerium oxide**  
CAS Number: 1306-38-3  
Specifications & Purity: 99.99% metals basis , <5 µm  
Lot #: C2204640  
SKU #: **C141507**  
Version: **0**  
Analysis #: **075446**  
Storage Temperature: Argon charged

| Parameter                                  | Limit Values                             | Result                                   |
|--|--|--|
| Trace Rare Earth Analysis                  | 0-200 (ppm)                              | 0.00 ppm                                 |
| Particle size                              | 0-5 (µm)                                 | 2.83 µm                                  |
| Purity(Based On Trace Rare Earth Analysis) | 99.99-100 (%)                            | 100.00 %                                 |
| loss on Ignition                           | 0-1 (%)                                  | 0.05 %                                   |
| Appearance (C141507)                       | 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