

# Chem-Impex International, Inc.

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825 Dillon Drive

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## Certificate of Analysis

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|--------------------------|--|
| <b>Catalogue Number</b>  | 47189                                      |
| <b>Lot Number</b>        | 003344-4411-122916                         |
| <b>Product</b>           | <b>Lanthanum oxide powder (300~500 nm)</b> |
| <b>CAS Number</b>        | 1312-81-8                                  |
| <b>Molecular Formula</b> | La <sub>2</sub> O <sub>3</sub>             |
| <b>Molecular Weight</b>  | 325.81                                     |

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|----------------------------|--|
| <b>Appearance</b>          | White nanopowder   |
| <b>Mesh Size</b>           | APS 300~500 nm   |
| <b>Related Substances</b>  | Rare earth content :<br>CeO <sub>2</sub> : < 0.01%, Pr <sub>6</sub> O <sub>11</sub> : < 0.01%, Nd <sub>2</sub> O <sub>3</sub> : < 0.01%,<br>Sm <sub>2</sub> O <sub>3</sub> : < 0.01%, Gd <sub>2</sub> O <sub>3</sub> : < 0.01%, Y <sub>2</sub> O <sub>3</sub> : < 0.01%<br>Non- rare earth content :<br>Fe <sub>2</sub> O <sub>3</sub> : 0.005%, SiO <sub>2</sub> : 0.02%, CaO : 0.02%,<br>CuO : < 0.01%, NiO : < 0.01%, PbO < 0.001%, Cl : 0.025% |
| <b>Residue On Ignition</b> | < 1% (1000 °C at 1 h)  |
| <b>Purity</b>              | > 99.90% (Rare earth oxide)  |
| <b>Storage</b>             | Store at RT  |
| <b>Remarks</b>             | See material safety data sheet for additional information<br>For laboratory use only   |

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



**Bala Kumar**  
Quality Control Manager