



## Technical Data Sheet

**Name:** Lanthanum oxide

**CAS:** 1312-81-8

**Purity:** 99%

**Molecular Formula:** La<sub>2</sub>O<sub>3</sub>

**Molecular Weight:** 325.81

**EINECS:** 215-200-5

**Packing:** 190kg/drum

### Technical indicators:

| Item                            | Specification |                                |        |
|---------------------------------|---------------|--------------------------------|--------|
|                                 | %             | Cl-                            | 0.033  |
| Appearance                      | White powder  | SO <sub>4</sub> <sup>2-</sup>  | 0.039  |
| La <sub>2</sub> O <sub>3</sub>  | 99.992        | CaO                            | 0.072  |
| CeO <sub>2</sub>                | 0.0050        | Fe <sub>2</sub> O <sub>3</sub> | 0.0050 |
| Pr <sub>6</sub> O <sub>11</sub> | 0.0012        | Na <sub>2</sub> O              | 0.0014 |
| Nd <sub>2</sub> O <sub>3</sub>  | 0.0016        | BaO                            | 0.014  |
| Sm <sub>2</sub> O <sub>3</sub>  | 0.0001        | Al <sub>2</sub> O <sub>3</sub> | 0.001  |
| Y <sub>2</sub> O <sub>3</sub>   | 0.0001        | SiO <sub>2</sub>               | 0.006  |
| PbO                             | 0.002         | MnO <sub>2</sub>               | 0.0030 |



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|-----|-------|-----|------|
| Zno | 0.021 | LOI | 2.41 |
|-----|-------|-----|------|

**Uses:** Lanthanum oxide is mainly used in the manufacture of precision optical glass and optical fiber. Also used in the electronics industry as ceramic capacitors, piezoelectric ceramic admixture. It is also used as raw material for lanthanum boride and catalyst for oil separation and refining. It can also be used to manufacture special alloy precision optical glass, high refraction optical fiber board and camera, camera, microscope lens and advanced optical instrument prism.

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