

Lanthanum Oxide Nanoparticles / Nano powder

Lanthanum(III) oxide is La₂O₃, also known as lanthana, It is an odorless, white solid substance, insoluble in water, but soluble in dilute acid. La₂O₃ is hygroscopic, under atmosphere, lanthanum oxide absorbs moisture over time and converts to lanthanum hydroxide.



Lanthanum Oxide Nano Particles
CAS No. 1312-81-8

Particle Size (d₅₀)	< 80 nm
Granularity	< 300 nm
Specific Surface Area (BET)	> 25 m ² /g
Purity	99.99% min.

Formula	La ₂ O ₃
CAS No.	1312-81-8
EC No.	215-200-5
Molecular Weight	325.84
Density	6.51 g/cm ³
Melting Point	2,315 °C
Boiling Point	4,200 °C
Appearance	White powder

Typical Application

- * Used to make optical glasses
- * Together with oxides of tungsten, tantalum, and thorium, La₂O₃ improves the resistance of the glass to attack by alkali.
- * An ingredient for the manufacture of piezoelectric and thermoelectric materials
- * Also used in X-ray imaging intensifying screens, phosphors as well as dielectric and conductive ceramics. Gives of bright glow.

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