

## Gadolinium(III) Oxide Nano Particles

Gadolinium(III) oxide is Gd<sub>2</sub>O<sub>3</sub>, It is white powder. Gadolinium Oxide is a highly insoluble thermally stable Gadolinium source suitable for glass, optic and ceramic applications. It's soluble in acids.



**Gadolinium Oxide** Nano Particles  
CAS No. 12064-62-9

<b>Particle Size (d<sub>50</sub>)</b>	< 80 nm
<b>Granularity</b>	< 300 nm
<b>Specific Surface Area (BET)</b>	> 25 m <sup>2</sup> /g
<b>Purity</b>	99.99% min.

<b>Formula</b>	Gd <sub>2</sub> O <sub>3</sub>
<b>CAS No.</b>	12064-62-9
<b>EC No.</b>	235-060-9
<b>Molecular Weight</b>	362.50 g/mol
<b>Solubility in water</b>	Insoluble in water, soluble in acid
<b>Appearance</b>	White powder easily becoming damp, have excellent electro conductivity

### Typical Application

- \* For pharmaceuticals and luminescent materials, to make crystals as lasing materials
- \* Used as a contrast agent for the Magnetic Resonance Imaging (MRI) technology
- \* Special glasses
- \* Rare Earth fertilizer

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