

Erbium Oxide

Erbium(III) oxide is Er₂O₃, It is pink powder, insoluble in water and soluble in mineral acids.



Erbium Oxide
CAS No. 12061-16-4

| | |
|----------------------|--|
| Purity | 99.99% - 99.9995% |
| Particle Size | Can be customized, nano particles also available |

| | |
|-------------------------|--------------------------------|
| Formula | Er ₂ O ₃ |
| CAS No. | 12061-16-4 |
| EC No. | 235-045-7 |
| Molecular Weight | 382.56 |
| Density | 8.64 g/cm ³ |
| Melting Point | 4,251°F (2,344°C) |
| Boiling Point | 5,950°F (3,290°C) |
| Appearance | Pink powder |

Typical Application

- * Dispersed in glass or plastic for display purposes
- * Used in biomedicine
- * Piezoelectric ceramic
- * Coloring for glasses
- * Used as gate dielectrics in semi conductor devices since it has a high dielectric constant and a large band gap.
- * Erbium oxide can be also used as a flammable neutron poison for nuclear fuel

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