

Technical Data Sheet

Gadolinium(III) oxide

Revision Date: 11/7/2025

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name	Gadolinium(III) oxide
Product code	NO-0022-UP
CAS	12064-62-9
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)151-41255671

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Gadolinium(III) oxide
CAS No.	12064-62-9
Empirical Formula	Gd ₂ O ₃
Molecular weight	362.50 amu
Purity	99.9+%
Morphology	nearly spherical
Average Particle Size	20 - 80 nm (from SSA)
Specific Surface Area	10 - 40 m ² /g
Relative Density	7.41 g/cm ³
Bulk Density	0.3 – 0.4 g/cm ³

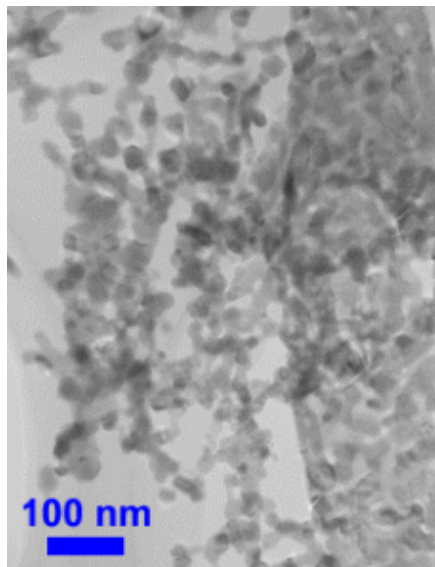
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Melting point 2350°C

3 TEM IMAGE



4 OTHER INFORMATION

DISCLAIMER

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