

Technical Data Sheet

Gadolinium(III)oxide

Revision Date: 02/19/2009

Date Issued: 03/01/2007

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

Product name	Gadolinium(III)oxide, Nanopowder
Product code	NO-0044-HP
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Emergency telephone	+49 (0)179 - 5322578

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%
Average Particle Size	15-30 nm
Specific Surface Area	30-50 m ² /g
Colour	White
Morphology	~spherical
Bulk Density	< 0.2 g/cm ³
True Density	7.407 g/cm ³
Melting Point	2350°C
Boiling Point	-

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3 SPECIFICATIONS

N/A

4 X-RAY DIFFRACTION PATTERN

N/A

5 ORDER INFORMATION

Gd₂O₃ can be obtained in the following standard quantities.

Quantity	Price
50 g	Please enquire
100 g	Please enquire
500 g	Please enquire
1 kg	Please enquire

Please send your order via email to order@nanomaterials.iolitec.de
or fax +49 (0)7131 – 89839109.

6 OTHER INFORMATION

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