

Technical Data Sheet

Lanthanum(III) oxide

Revision Date: 11/7/2025

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

Product name	Lanthanum(III) oxide
Product code	NO-0042-UP
CAS	1312-81-8
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	Lanthanum (III) oxide
CAS No.	1312-81-8
Empirical Formula	La ₂ O ₃
Molecular weight	325.81 g/mol
Purity	99.99 %
Average Particle Size	15 – 30 nm
Specific Surface Area	20 – 40 m ² /g
Bulk Density	< 0.2 g/cm ³
True Density	6.51 g/cm ³
Boiling point	4200 °C
Melting point	2307 °C

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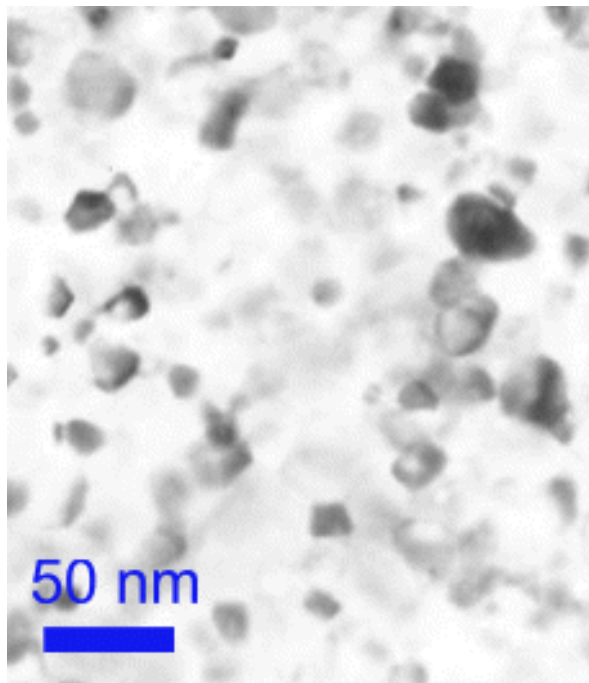
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3 CONTENT IMPURITIES

Impurity	Content
CaO	≤ 0.005 %
Cl	≤ 0.01 %
Fe ₂ O ₃	≤ 0.003 %
SiO ₂	≤ 0.01 %

4 TRANSMISSION ELECTRON MICROSCOPY



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5 OTHER INFORMATION

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