

Technical Data Sheet

Samarium(III) oxide powder

Revision Date: 11/7/2025

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

Product name	Samarium(III) oxide powder
Product code	NO-0028-HP
CAS	12060-58-1
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	Samarium(III) oxide
CAS No.	12060-58-1
Empirical Formula	Sm ₂ O ₃
Molecular weight	348.72 g/mol
Purity	99.9 %
Average Particle Size	30 - 50 nm (TEM & BET)
Specific Surface Area	12 - 20 m ² /g (BET)
Relative Density	8.3 g/cm ³
Melting point	2300°C

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3 OTHER INFORMATION

DISCLAIMER

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