

# Technical Data Sheet

## Samarium(III)oxide powder

Revision Date: 08/13/2019

Date Issued: 08/13/2019

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

<b>Product name</b>	Samarium(III)oxide powder
<b>Product code</b>	NO-0028-UP
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D-74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131 - 898390
<b>Fax</b>	+49 (0)7131 - 89839109
<b>Emergency telephone</b>	+49 (0)179 - 5322578

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	Samarium(III)oxide, 99.9 %
<b>CAS No.</b>	12060-58-1
<b>Empirical Formula</b>	Sm <sub>2</sub> O <sub>3</sub>
<b>Molecular weight</b>	348.72 amu
<b>Purity (REO)</b>	99.9 %
<b>Average Particle Size</b>	30-50 nm (TEM and BET)
<b>Specific Surface Area</b>	12-20 m <sup>2</sup> /g (from BET)
<b>Colour</b>	white or pale yellow
<b>True Density</b>	8.3 g/cm <sup>3</sup>
<b>Melting Point</b>	2300 °C

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### 4 OTHER INFORMATION

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