

# Technical Data Sheet

## Aluminium oxide, alpha

Revision Date: 12-17/2008

Date Issued: 03-01/2007

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

<b>Product name</b>	Aluminium oxide, alpha, Nanopowder
<b>Product code</b>	NO-0008-HP
<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>	Aluminium oxide, alpha
<b>CAS No.</b>	1344-28-1
<b>Empirical Formula</b>	$\alpha\text{-Al}_2\text{O}_3$
<b>Molecular weight</b>	101.96 amu
<b>Purity</b>	99.8 %
<b>Average Particle Size</b>	150 nm (BET), grain size ~40 nm
<b>Specific Surface Area</b>	10 m <sup>2</sup> /g
<b>Colour</b>	white
<b>Morphology</b>	-
<b>Bulk Density</b>	-
<b>True Density</b>	3.97 g/cm <sup>3</sup>
<b>Melting point</b>	2045 °C

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**Boiling point** 2980°C

### 3 SPECIFICATIONS

N/A

### 4 TRANSMISSION ELECTRON MICROSCOPY

N/A

### 5 X-RAY DIFFRACTION PATTERN

N/A

### 6 ORDER INFORMATION

### 7 OTHER INFORMATION

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