

# Technical Data Sheet

## Gold Nanopowder, <100 nm

Revision Date: 03/06/2009

Date Issued: 03/02/2007

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

<b>Product name</b>	Gold nanopowder
<b>Product code</b>	NM-0032-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>	Gold powder
<b>Empirical Formula</b>	Au
<b>CAS No.</b>	7440-57-5
<b>Molecular weight</b>	196.97 amu
<b>Purity</b>	99.5+%
<b>Average Particle Size</b>	<100 nm
<b>Specific Surface Area</b>	~1.3-2.2 m <sup>2</sup> /g
<b>Colour</b>	black
<b>Morphology</b>	nearly spherical
<b>Crystallographic Structure</b>	cubic
<b>Bulk Density</b>	19.32 g/cm <sup>3</sup>
<b>True Density</b>	1.3 g/cm <sup>3</sup>

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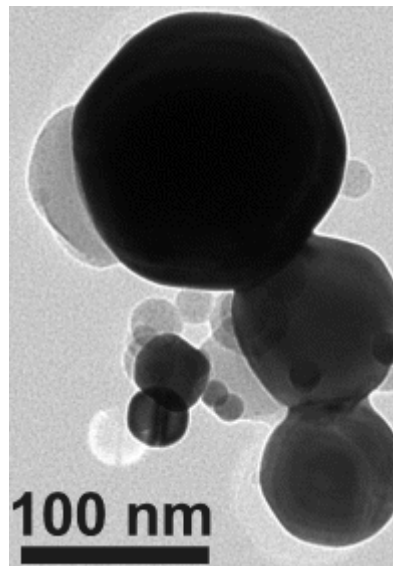
**Melting point** -

**Production method** -

### 3 SPECIFICATIONS

N/A

### 4 TRANSMISSION ELECTRON MICROSCOPY



### 5 X-RAY DIFFRACTION PATTERN

N/A

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### 6 OTHER INFORMATION

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