

# Technical Data Sheet

## Iron(II,III)oxide powder

Revision Date: 11/7/2025

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

<b>Product name</b>	Iron(II,III)oxide powder
<b>Product code</b>	NO-0049-SG
<b>CAS</b>	1317-61-9
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131 - 898390
<b>Fax</b>	+49 (0)7131 - 89839109
<b>Emergency telephone</b>	+49 (0)151-41255671

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient name</b>	Iron(II,III)oxide
<b>CAS No.</b>	1317-61-9
<b>Empirical Formula</b>	Fe <sub>3</sub> O <sub>4</sub>
<b>Molecular weight</b>	231.53 g/mol
<b>Purity</b>	98+%
<b>Morphology</b>	spherical
<b>Average Particle Size</b>	20 - 30 nm
<b>Specific Surface Area</b>	40 - 60 m <sup>2</sup> /g
<b>Relative Density</b>	4.8 – 5.1 g/cm <sup>3</sup>
<b>Bulk Density</b>	0.84 g/cm <sup>3</sup>

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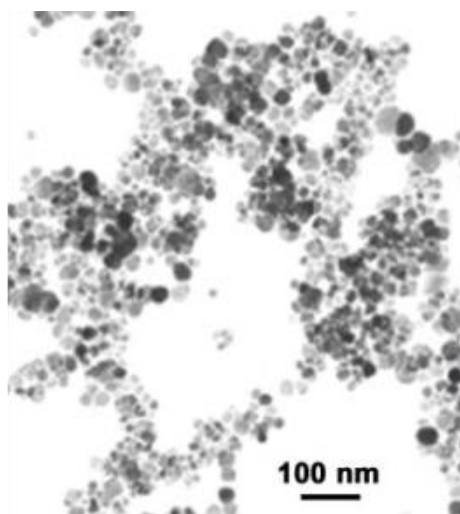
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### 3 CONTENT OF IMPURITIES

Impurity	Content
Ca	≤ 0.02 %
Cl	≤ 0.02 %
Cr	≤ 0.02 %
Mg	≤ 0.01 %
Mn	≤ 0.115 %
Na	≤ 0.01 %
Ni	≤ 0.01 %
Pb	≤ 0.005 %
SiO <sub>2</sub>	≤ 0.2 %
SO <sub>4</sub> <sup>2-</sup>	≤ 0.1 %

### 4 TRANSMISSION ELECTRON MICROSCOPY



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### 5 OTHER INFORMATION

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