io·li·tec
nanomaterials

Technical Data Sheet

Iron(II,III)oxide powder

Date Issued: 08/13/2019

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

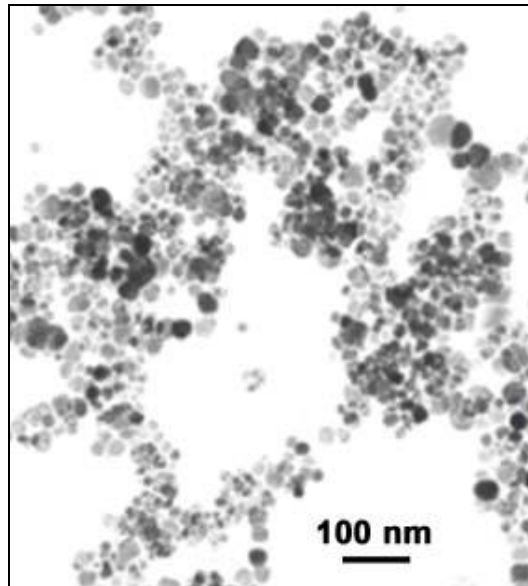|	
Product name	Iron(II,III)oxide powder
Product code	NO-0049-SG
Supplier	IoLiTec
	Ionic Liquids Technologies GmbH
	Salzstrasse 184
	D-74076 Heilbronn
	Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)176 - 84850874

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Iron(II,III)oxide, 98+%
CAS No.	1317-61-9
Empirical Formula	Fe_3O_4
Molecular weight	231.53 amu
Purity	98+% trace metal basis
Average Particle Size	20-30 nm (from TEM)
Specific Surface Area	40-60 m²/g
Color	brown/black
Morphology	spherical
Bulk Density	0.84 g/cm³
True Density	4.8-5.1 g/cm^3

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3 TRANSMISSION ELECTRON MICROSCOPY

100 nm

4 OTHER INFORMATION