

Technical Data Sheet

Zirconium Oxide powder

Revision Date: 05/15/2024

Date Issued: 05/15/2024

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

Product name	Zirconium Oxide powder
Product code	NO-0059-HP
CAS	1314-23-4
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
Fax	+49 (0)7131 - 89839109
Emergency telephone	+49 (0)151-41255671

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Zirconium(IV)oxide
CAS No.	1314-23-4
Empirical Formula	ZrO ₂
Molecular weight	123.22 g/mol
Purity	99.9 % (excluded Y ₂ O ₃)
Yttria Content (Y₂O₃)	~ 3%
Average Particle Size	30.60 nm (TEM/BET)
Specific Surface Area	15-35 m ² /g (BET)
True Density	5.68 g/cm ³

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4 TYPICAL IMPURITIES

Impurity	Content
Al ₂ O ₃	< 0.02%
Fe ₂ O ₃	< 0.01%
Na ₂ O	< 0.02%
SiO ₂	< 0.005%
TiO ₂	< 0.005%

5 OTHER INFORMATION

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