

Technical Data Sheet

Zirconium(IV) oxide

Revision Date: 11/7/2025

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

Product name	Zirconium(IV) oxide
Product code	NO-0013-UP
Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D-74076 Heilbronn Germany
Telephone	+49 (0)7131 - 898390
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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	123.218 g/mol
Purity (REO)	99.9 %
Average Particle Size	20 - 30 nm (TEM)
Specific Surface Area	> 35 m ² /g (from BET)
Color	white
Bulk Density	0.36 g/cm ³
True Density	5.68 g/cm ³
Melting Point	2715 °C

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3 CONTENT IMPURITIES

Substance	w%
Fe ₂ O ₃	0.020
SiO ₂	0.03
Na ₂ O	0.005
TiO ₂	0.005
Al ₂ O ₃	0.01

4 OTHER INFORMATION

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