

# Technical Data Sheet

## Zirconium(IV) oxide

Revision Date: 6/17/2026

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

<b>Product name</b>	Zirconium(IV) oxide
<b>Product code</b>	NO-0013-HP
<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>	Zirconium(IV) oxide
<b>CAS No.</b>	1314-23-4
<b>Empirical Formula</b>	ZrO <sub>2</sub>
<b>Molecular weight</b>	123.218 g/mol
<b>Purity (REO)</b>	99.5+ %
<b>Average Particle Size</b>	20 nm (TEM)
<b>Specific Surface Area</b>	~ 25 m <sup>2</sup> /g (from BET)
<b>Color</b>	white
<b>Crystallographic Structure</b>	monoclinic
<b>Morphology</b>	spherical
<b>Density</b>	~5.85 g/cm <sup>3l</sup>
<b>Bulk Density</b>	~0.5 g/cm <sup>3</sup>
<b>Melting Point</b>	2705°C
<b>Boiling Point</b>	4999°C

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### 3 CONTENT IMPURITIES

Substance	w%
Na	≤0.019
Al	≤0.011
Fe	≤0.005
Cl	≤0.039

Zirconium usually found with a low level of hafnium as their separation is difficult.

### 4 OTHER INFORMATION

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