

# Technical Data Sheet

## Titanium(IV) oxide, rutile

Revision Date: 11/7/2025

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

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Titanium(IV) oxide, rutile  |
| <b>Product code</b>        | NO-0046-HP  |
| <b>CAS</b>                 | 1317-80-2   |
| <b>Supplier</b>            | IoLiTec<br>Ionic Liquids Technologies GmbH<br>Im Zukunftspark 9<br>D-74076 Heilbronn<br>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>       | Titanium(IV) oxide, rutile |
| <b>CAS No.</b>               | 1317-80-2                  |
| <b>Empirical Formula</b>     | TiO <sub>2</sub>           |
| <b>Molecular weight</b>      | 79.87 g/mol                |
| <b>Purity</b>                | 99.5 %                     |
| <b>Average Particle Size</b> | 10 – 30 nm (D50)           |
| <b>Specific Surface Area</b> | ~ 50 m <sup>2</sup> /g     |
| <b>True Density</b>          | 4.23 g/cm <sup>3</sup>     |
| <b>Boiling point</b>         | 2500 - 3000 °C             |
| <b>Melting point</b>         | 1840 °C                    |

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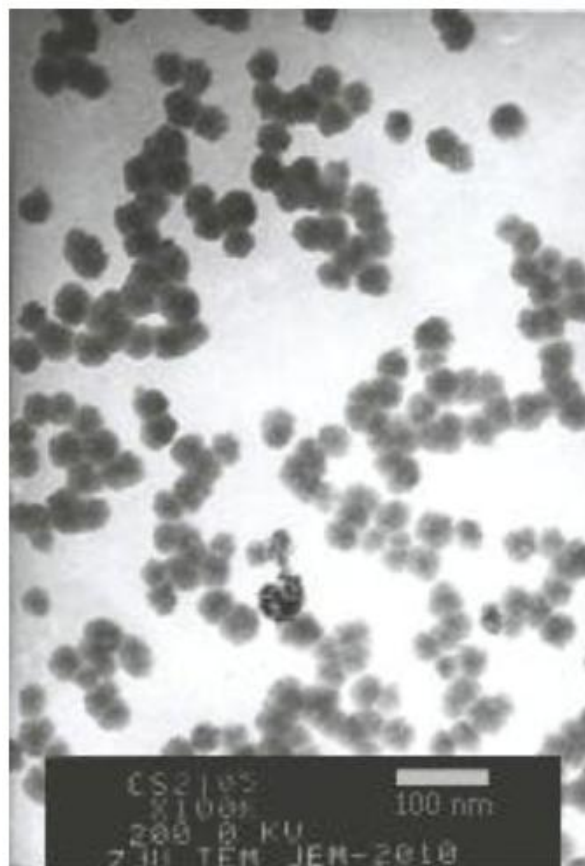
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## 3 CONTENT IMPURITIES

| Impurity | Content        |
|----------|----------------|
| Ca       | $\leq 100$ ppm |
| Mg       | $\leq 100$ ppm |
| Nb       | $\leq 150$ ppm |
| Hg       | $\leq 0.5$ ppm |

## 4 TRANSMISSION ELECTRON MICROSCOPY



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## 5 OTHER INFORMATION

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