

## **Technical Data Sheet**

#### Titanium carbide

Revision Date: 8/18/2025

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

Product name Titanium carbide powder

Product code NC-0004-HP

**CAS** 12070-08-5

Supplier loLiTec

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** Titanium carbide

**CAS No.** 12070-08-5

Empirical Formula TiC

Molecular weight 49.88 g/mol

**Purity** >97 %

Morphology nearly spherical

Crystallographic phasecubicAverage Particle Size50 nmSpecific Surface Area23 m²/g

Relative Density 4.93 g/cm<sup>3</sup>

Bulk Density < 0.08 g/cm<sup>3</sup>

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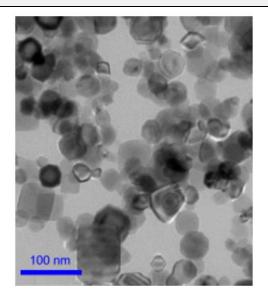
Melting point3140°CBoiling point4820°C

Synthesis method plasma CVD

## **3 CONTENT OF IMPURITIES**

Impurity	Content
С	≤ 1%
CI	≤ 1%
Fe	≤ 0.10%
Ni	≤ 0.10%
Cr	≤ 0.20%
Si	≤ 0.20%

## 4 TEM IMAGE



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#### **5 OTHER INFORMATION**

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