

Technical Data Sheet

Tungsten disulfide

Revision Date: 8/18/2025

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

Product name Tungsten(IV) sulfide, powder

 Product code
 NC-0016-HP

 CAS
 12138-09-9

Supplier IoLiTec

Ionic Liquids Technologies GmbH

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2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name Tungsten(IV) sulfide

CAS No. 12138-09-9

Empirical Formula WS₂

Molecular weight 247.97 g/mol

Purity 99%

Morphology hexagonal lamellar

Average Particle Size90 nmSpecific Surface Area30 m²/gColoursilver greyRelative Density7.50 g/cm³

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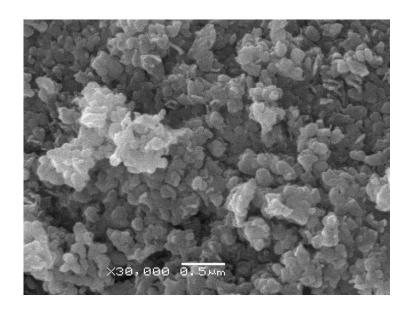
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Melting point 1250°C

Boiling point 1260°C

Coefficient of Friction 0.03 Dynamic; 0.07 Static

3 SCANNING ELECTRON MICROSCOPY



4 OTHER INFORMATION

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