

Technical Data Sheet

Chromium(III) oxide powder

Revision Date: 11/7/2025

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

Product name	Chromium(III) oxide powder
Product code	NO-0018-HP
CAS	1308-38-9
Supplier	IoLiTec 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	Chromium(III) oxide powder
CAS No.	1308-38-9
Empirical Formula	Cr ₂ O ₃
Molecular weight	151.99 g/mol
Purity	99+ %
Morphology	nearly spherical
Average Particle Size	60 nm
Specific Surface Area	n/a
Bulk Density	~ 0.95 g/cm ³
Relative Density	5.22 g/cm ³

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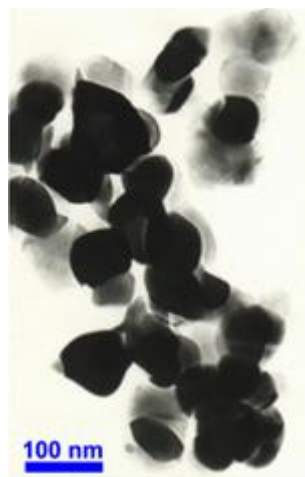
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Melting point 2435°C

Boiling point 4000°C

3 TEM IMAGE



4 CONTENT IMPURITIES

Impurity	Content
Al	46 ppm
Ba	12 ppm
Ca	190 ppm
Co	5.0 ppm
Cu	5.3 ppm
Fe	530 ppm
K	871 ppm
Mg	150 ppm
Mn	24 ppm

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Na	164 ppm
Ni	62 ppm
Sr	3.3 ppm
Zn	30 ppm

5 OTHER INFORMATION

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