

Technical Data Sheet

Chromium(III) oxide powder

Revision Date: 05/07/2024

Date Issued: 05/07/2024

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 |

Technical Data Sheet

Chromium(III) oxide powder

Revision Date: 05/07/2024

Date Issued: 05/07/2024

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 |

Technical Data Sheet

Chromium(III) oxide powder

Revision Date: 05/07/2024

Date Issued: 05/07/2024

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

5 OTHER INFORMATION

DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USERE'S RESPONISIBILTY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.