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# Specification

Technical Data Sheet

| CAS | SPECIFICATION | STORAGE | MOLECULAR WEIGHT |
|---|---|---|---|
| **1310-53-8** | **v1 · 06 Oct 2026** | **Ambient** | **104.64** |

PRODUCT

## Germanium(IV) oxide 99.999%

| | |
|---|---|
| **Product number** | 90038308 |
| **CAS number** | 1310-53-8 |
| **Molecular formula** | GeO2 |
| **Molecular weight** | 104.64 g/mol |

| PARAMETER | SPECIFICATION |
|---|---|
| **Iodine (I)** | Not Detected |
| **Lutetium (Lu)** | ≤0.01ppm |
| **Ytterbium (Yb)** | ≤0.01ppm |
| **Appearance** | Solid |
| **Assay** | ≥99.999% |
| **Boron (B)** | ≤0.02ppm |
| **Bromine (Br)** | Not detected |
| **Cadmium (Cd)** | ≤0.05ppm |
| **Caesium (Cs)** | ≤0.01ppm |
| **Cerium (Ce)** | ≤0.01ppm |
| **Chloride (Cl-)** | Not detected |
| **Dysprosium (Dy)** | ≤0.01ppm |
| **Erbium (Er)** | ≤0.01ppm |
| **Europium (Eu)** | ≤0.01ppm |
| **Fluorine (F)** | ≤0.1ppm |
| **Gadolinium (Gd)** | ≤0.01ppm |

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| PARAMETER | SPECIFICATION |
|---|---|
| **Gallium (Ga)** | ≤1ppm |
| **Gold (Au)** | ≤0.01ppm |
| **Hafnium (Hf)** | ≤0.01ppm |
| **Holmium** | ≤0.01ppm |
| **Indium (In)** | ≤0.003ppm |
| **Iridium (Ir)** | ≤0.01ppm |
| **Iron (Fe)** | ≤0.4ppm |
| **Lithium (Li)** | ≤0.01ppm |
| **Mesh** | -40 mesh |
| **Neodymium (Nd)** | ≤0.01ppm |
| **Niobium (Nb)** | ≤0.1ppm |
| **Osmium (Os)** | ≤0.01ppm |
| **Palladium (Pd)** | ≤0.001ppm |
| **Phosphorous (P)** | Not detected |
| **Platinum (Pt)** | ≤0.01ppm |
| **Praseodymium (Pr)** | ≤0.01ppm |
| **Rhenium (Re)** | ≤0.01ppm |
| **Rhodium (Rh)** | ≤0.001ppm |
| **Rubidium (Rb)** | ≤0.01ppm |
| **Ruthenium (Ru)** | ≤0.001ppm |
| **Samarium (Sm)** | ≤0.01ppm |
| **Scandium (Sc)** | ≤0.001ppm |
| **Silicon (Si)** | ≤1.0ppm |
| **Sulphur (S)** | Not detected |
| **Tantalum (Ta)** | ≤0.01ppm |
| **Tellurium (Te)** | ≤0.02ppm |
| **Terbium (Tb)** | ≤0.01ppm |
| **Thorium (Th)** | ≤0.01ppm |

| PARAMETER | SPECIFICATION |
|---|---|
| **Thulium (Tm)** | ≤0.01ppm |
| **Titanium (Ti)** | ≤0.01ppm |
| **Tungsten (W)** | ≤0.02ppm |
| **Uranium (U)** | ≤0.01ppm |
| **Yttrium (Y)** | ≤0.1ppm |
| **Zirconium (Zr)** | ≤0.05ppm |
| **Aluminium (Al)** | ≤0.5ppm |
| **Antimony (Sb)** | ≤0.05ppm |
| **Arsenic (As)** | ≤4ppm |
| **Barium (Ba)** | ≤0.003ppm |
| **Beryllium (Be)** | ≤0.001ppm |
| **Bismuth (Bi)** | ≤0.01ppm |
| **Calcium (Ca)** | ≤0.05ppm |
| **Chromium (Cr)** | ≤0.02ppm |
| **Cobalt (Co)** | ≤0.001ppm |
| **Copper (Cu)** | ≤0.03ppm |
| **Identification (IR)** | Conforms to reference |
| **Lanthanum (La)** | ≤0.01ppm |
| **Lead (Pb)** | ≤0.01ppm |
| **Magnesium (Mg)** | ≤0.5ppm |
| **Manganese (Mn)** | ≤0.05ppm |
| **Mercury (Hg)** | ≤0.02ppm |
| **Molybdenum (Mo)** | ≤0.06ppm |
| **Nickel (Ni)** | ≤0.02ppm |
| **Potassium (K)** | ≤1.0ppm |
| **Selenium (Se)** | ≤0.02ppm |
| **Silver (Ag)** | ≤0.002ppm |
| **Sodium (Na)** | ≤1.0ppm |

| PARAMETER | SPECIFICATION |
|---|---|
| **Strontium (Sr)** | ≤0.2ppm |
| **Thallium (Tl)** | ≤0.01ppm |
| **Tin (Sn)** | ≤0.008ppm |
| **Vanadium (V)** | ≤0.01ppm |
| **Zinc (Zn)** | ≤0.3ppm |

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|---|---|
| **SPECIFICATION STATEMENT** | The values stated above represent the standard specification for this product, issued under **Molekula Ltd**'s quality management system. Batch-specific results are provided on the Certificate of Analysis. |
| **STORAGE** | Store as indicated on the product label, away from light, moisture and incompatible materials. |