

Specification

Technical Data Sheet

CAS

1310-53-8

STORAGE

Ambient

MOLECULAR WEIGHT

104.64

PRODUCT

Germanium(IV) oxide 99.999%

Product number 90038308

CAS number 1310-53-8

Molecular formula GeO_2

Molecular weight 104.64 g/mol

PARAMETER

SPECIFICATION

Appearance

Solid

Assay

 $\geq 99.999\%$

Boron (B)

 $\leq 0.02\text{ppm}$

Bromine (Br)

Not detected

Cadmium (Cd)

 $\leq 0.05\text{ppm}$

Caesium (Cs)

 $\leq 0.01\text{ppm}$

Cerium (Ce)

 $\leq 0.01\text{ppm}$

Chloride (Cl-)

Not detected

Dysprosium (Dy)

 $\leq 0.01\text{ppm}$

Erbium (Er)

 $\leq 0.01\text{ppm}$

Europium (Eu)

 $\leq 0.01\text{ppm}$

Fluorine (F)

 $\leq 0.1\text{ppm}$

Gadolinium (Gd)

 $\leq 0.01\text{ppm}$

Gallium (Ga)

 $\leq 1\text{ppm}$

Gold (Au)

 $\leq 0.01\text{ppm}$

Hafnium (Hf)

 $\leq 0.01\text{ppm}$

PARAMETER	SPECIFICATION
Holmium	≤0.01ppm
Indium (In)	≤0.003ppm
Iodine	Not Detected
Iridium (Ir)	≤0.01ppm
Iron (Fe)	≤0.4ppm
Lithium (Li)	≤0.01ppm
Lutetium	≤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
Thulium	≤0.01ppm

PARAMETER	SPECIFICATION
Titanium (Ti)	≤0.01ppm
Tungsten (W)	≤0.02ppm
Uranium (U)	≤0.01ppm
Ytterbium	≤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

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.

Molekula Ltd would like to thank you for your support of our products and service.

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