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Specification

Technical Data Sheet

CAS	SPECIFICATION	STORAGE	MOLECULAR WEIGHT
12064-62-9	**v1 · 06 Oct 2026**	**Ambient**	**362.50**

PRODUCT

Gadolinium (III) oxide 99.999%

Product number	90038462
CAS number	12064-62-9
Molecular formula	Gd2O3
Molecular weight	362.50 g/mol

PARAMETER	SPECIFICATION
Germanium (Ge)	0.03 ppm
Iodine (I)	ND
Lutetium (Lu)	<1 ppm
Ytterbium (Yb)	< 1 ppm
Boron (B)	0.1 ppm
Bromine (Br)	<0.05 ppm
Cadmium (Cd)	<0.1 ppm
Caesium (Cs)	<0.004 ppm
Cerium (Ce)	<0.05 ppm
Chlorine (Cl)	ND
Dysprosium (Dy)	0.6 ppm
Erbium (Er)	<0.001 ppm
Europium (Eu)	0.3 ppm
Fluorine (F)	ND
Gadolinium (Gd)	MATRIX
Gallium (Ga)	<0.04 ppm

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PARAMETER	SPECIFICATION
Gold (Au)	0.04 ppm
Hafnium (Hf)	< 0.005 ppm
Holmium	0.03 ppm
Indium (In)	<0.001 ppm
Iridium (Ir)	<0.1 ppm
Iron (Fe)	0.5 ppm
Lithium (Li)	<0.02 ppm
Neodymium (Nd)	1 ppm
Niobium (Nb)	<0.002 ppm
Osmium (Os)	0.2 ppm
Oxygen (O)	MATRIX
Palladium (Pd)	<0.003 ppm
Phosphorous (P)	ND
Platinum (Pt)	0.2 ppm
Praseodymium (Pr)	0.4 ppm
Rhenium (Re)	0.004 ppm
Rhodium (Rh)	<0.002 ppm
Rubidium (Rb)	0.1 ppm
Ruthenium (Ru)	<0.002 ppm
Samarium (Sm)	0.1 ppm
Scandium (Sc)	<0.01 ppm
Silicon (Si)	0.6 ppm
Sulphur (S)	ND
Tantalum (Ta)	< 0.001 ppm
Tellurium (Te)	<0.07 ppm
Terbium (Tb)	1 ppm
Thorium (Th)	<0.01 ppm
Thulium (Tm)	0.4 ppm

PARAMETER	SPECIFICATION
Titanium (Ti)	<0.03 ppm
Tungsten (W)	0.07 ppm
Uranium (U)	0.1 ppm
Yttrium (Y)	0.8 ppm
Zirconium (Zr)	<0.004 ppm
Aluminium (Al)	<0.5 ppm
Antimony (Sb)	<0.03 ppm
Arsenic (As)	<0.4 ppm
Barium (Ba)	0.01 ppm
Beryllium (Be)	<0.004 ppm
Bismuth (Bi)	<0.04 ppm
Calcium (Ca)	1 ppm
Chromium (Cr)	0.07 ppm
Cobalt (Co)	<0.005 ppm
Copper (Cu)	<0.04 ppm
Lanthanum (La)	1 ppm
Lead (Pb)	0.4 ppm
Magnesium (Mg)	<0.3 ppm
Manganese (Mn)	<0.03 ppm
Mercury (Hg)	0.3 ppm
Molybdenum (Mo)	0.2 ppm
Nickel (Ni)	0.02 ppm
Potassium (K)	<1 ppm
Selenium (Se)	<0.05 ppm
Silver (Ag)	< 0.006 ppm
Sodium (Na)	<0.2 ppm
Strontium (Sr)	0.8 ppm
Thallium (Tl)	<0.01 ppm

PARAMETER	SPECIFICATION
Tin (Sn)	<0.05 ppm
Vanadium (V)	0.2 ppm
Zinc (Zn)	0.6 ppm

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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