

Germanium





Germanium TetrachlorideFibre Optic Grade

Physical Data: Molecular Weight of GeCl₄ 214.40

Stoichiometric Ge Content 33.86% Density (25 deg. C) 1.879 kg/m³ Boiling Temperature 83 deg. C

Analysis:

Metallic Impurities (determined by ICP-MS)

Element	Maximum (ppb)	Detection Limit (ppb)
Al	1	0.1
As	2	0.1
Co	1	0.1
Cr	1	0.1
Cu	1	0.1
Fe	3	0.1
Mn	1	0.1
Мо	1	0.1
Ni	1	0.1
Ti	1	0.1
V	1	0.1

Maximum Total Combined Metallic Impurities \leq 10 ppb

Hydrogen Bonds (determined by FTIR Spectroscopy):

Species	Wavenumber (cm-1)	Maximum (ppm)
O-H	3615	1.0
C-H _x	2925 & 2964	4.0
H-CÎ	2760	0.5

Other specifications are available on request.

Packaging: 200 litre (360 kg) stainless steel container with a Hastelloy pneumatically actuated valve manifold. Additional sizes are available on request. Containers are in accordance with UN regulations.