

Germanium Tetrachloride



Fibre Optic Grade Germanium Tetrachloride

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Physical Data:	Molecular Weight of GeCl_4	214.40
	Stoichiometric Ge Content	33.86%
	Density (25 deg. C)	1.879 kg/m^3
	Boiling Temperature	83 deg. C

Analysis:

Metallic Impurities (determined by ICP-MS)

Element	Typical (ppb)	Maximum (ppb)	Detection Limit (ppb)
Al	<0.5	1	0.1
As	<0.5	2	0.1
Co	<0.1	1	0.1
Cr	<0.1	1	0.1
Cu	<0.1	1	0.1
Fe	<2.0	3	0.1
Mn	<0.1	1	0.1
Mo	<0.1	1	0.1
Ni	<0.1	1	0.1
Ti	<0.1	1	0.1
V	<0.1	1	0.1

Maximum Total Combined Metallic Impurities \leq 10 ppb

Hydrogen Bonds (determined by FTIR Spectroscopy):

Species	Wavenumber (cm^{-1})	Maximum (ppm)	Typical Values (ppm)
O-H	3615	1.0	<0.5
C-H _x	2925 & 2964	4.0	<1.0
H-Cl	2760	0.5	<0.25

Other specifications are available on request.

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