

Germanium Tetrachloride – Fiber Optic Grade

Metallic Impurities Analyzed by ICP

Element	Maximum Level (ppb)	Typical Level (ppb) (ppb)	Detection Limit (ppb)
Aluminum, Al	1.0	< 0.5	0.1
Cobalt, Co	0.5	< 0.2	0.1
Chromium, Cr	1.0	< 0.4	0.1
Copper, Cu	1.0	< 0.2	0.1
Iron, Fe	2.0	< 1.0	0.1
Manganese, Mn	0.5	< 0.1	0.1
Nickel, Ni	1.0	< 0.3	0.1
Vanadium, V	0.5	< 0.1	0.1
Zinc, Zn	1.0	< 0.5	0.1
Total Combined	10	< 3.0	

Infrared Active Impurities Analyzed by Fourier Transform Infrared Spectroscopy (FTIRS) using 10.0 cm Cell Path

Species	Wave Number (cm, ±10)	Factor (ppm • cm)	Maximum Level (ppm)	Typical Level (ppm)
Hydroxyl, -OH	3610	61	2.0	< 1.0
Organic, CH ₃	2960	280	1.0	< 0.5
Organic, CH ₂	2930	280	1.0	< 0.5
Hydrogen Chloride, HCl	2840	1170	4.0	< 2.0
H-Donors as -OH	Combined Calculation		10.0	< 3.0

Other cell sizes available.

Contact us to inquire about our various packaging and valves assemblies.

APPLICATION NOTE

Form No. 97726 R6

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