

## 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 <sup>-1</sup> ±10)	Factor (ppm • cm)	Maximum Level (ppm)	Typical Level (ppm)
Hydroxyl, -OH	3610	61	2.0	< 1.0
Organic, CH <sub>3</sub>	2960	280	1.0	< 0.5
Organic, CH <sub>2</sub>	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

This application note is provided for general information only. It is not intended, and shall not be construed, to warrant or guarantee the performance of the products described which are sold subject exclusively to written warranties and limitations thereon included in product packaging and invoices. All Indium Corporation's products and solutions are designed to be commercially available unless specifically stated otherwise.

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