

Indium Corp. Germanium Corporation® GeCl₄ Germanium Tetrachloride

Category : Ceramic , Halide

Material Notes:

Germanium tetrachloride is a colorless liquid. It is used as an intermediate in the production of purified germanium dioxide and germanium metal, but more predominantly used as a reagent in fiber optic production. In fiber optics, germanium tetrachloride is converted into germanium dioxide and then deposited, along with silicon dioxide, using vapor deposition techniques. Germanium dioxide provides a higher refractive index fiber core, which prevents signal loss during transmission. Characteristics: Synonyms: Germanium (IV) Chloride, GeCl₄ CAS Number: 10038-98-9 EC Number: 233-116-7 RTECS: LY5225000 Purity: > 99.999% Appearance/Form: Colorless fuming liquid Solubility: Reacts with water releasing toxic fumes. Soluble in ether, benzene and chloroform. Insoluble in HCl, H₂SO₄. Information provided by the manufacturer, Indium Corporation of America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Indium-Corp-Germanium-Corporation-GeCl4-Germanium-Tetrachloride.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.875 g/cc	1.875 g/cc	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Molecular Weight	214.45 g/mol	214.45 g/mol	
Vapor Pressure	0.101 bar	76.0 torr	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	

Thermal Properties	Metric	English	Comments
Boiling Point	83.0 Å°C	181 Å°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Chromium, Cr	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Cobalt, Co	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Copper, Cu	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max

Germanium, Ge Component Elements Properties	33.873 % Metric	33.873 % English	Theoretical Comments
Iron, Fe	<= 2.0e-7 %	<= 2.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Lead, Pb	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Manganese, Mn	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Nickel, Ni	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Trace Metals	<= 5.0e-7 %	<= 5.0e-7 %	Total combined metals, typical
	<= 0.0000050 %	<= 0.0000050 %	Total combined metals, max
Vanadium, V	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max
Zinc, Zn	<= 1.0e-7 %	<= 1.0e-7 %	Typical
	<= 1.0e-6 %	<= 1.0e-6 %	Max

Descriptive Properties	Value	Comments
Active Impurities C-Hx (2960 and 2930 1/cm)	< 0.00005	Typical
	0.0002	Max
Active Impurities H-Cl (2840 1/cm)	< 0.0001	Typical
	0.0004	Max
Active Impurities O-H (3610 1/cm)	< 0.0001	Typical
	0.0002	Max

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