

PRODUCT DATA SHEET

Gallium Trichloride, Anhydrous

(GaCl₃)

Synonyms	Gallium Chloride, Gallium (III) Chloride
CAS Number	13450-90-3
EC (EINECS/ELINCS) Number	236-610-0
RTECS	LW9100000
Purity	99.5 to 99.999% GaCl ₃
Appearance	Clear or White, Needle-shaped Crystals; Deliquescent; Fumes in Air
Form	Solid Polycrystalline or Free-Flowing Granule
Formula Weight	176.08 g/mol
Theoretical Gallium Content	39.596%
Density:	
Solid	2.47 g/cm ³
Liquid	2.05 g/cm ³ at mp
Melting Point	77.9°C
Boiling Point	201.3°C at 760 torr
Vapor Pressure	48°C = 1 torr 78°C = 10 torr
Solubility	Soluble in Water, Ammonia, Benzene, Ethers, Carbon Disulfide, Carbon Tetrachloride

Impurities (99.999%)	Typical (ppm)	Maximum (ppm)
Aluminum (Al)	< 1	5.0
Copper (Cu)	< 1	3.0
Iron (Fe)	< 1	4.0
Germanium (Ge)	< 1	5.0
Indium (In)	< 1	5.0
Sodium (Na)	< 1	5.0
Nickel (Ni)	< 1	1.0
Lead (Pb)	< 1	5.0
Tin (Sn)	< 1	5.0
Zinc (Zn)	< 1	5.0
Total Combined Metals	< 3	10.0

All information is for reference only. Not to be used as incoming product specifications.

Packaging

Glass Bottle, screw closure: 100g, 500g, and 1kg
Teflon PFA, screw closure: 100g, 500g, and 1kg

Material is shipped in UN/DOT, IATA, and IMDG compliant packaging.

Storage and Shelf Life

Gallium trichloride is highly deliquescent and the solid crystals will liquefy quickly in humid environments. The container should contain a desiccant and the container kept tightly sealed. **Gallium trichloride** has a shelf life of 6 months due to the deliquescent nature of the chemical.

This product data sheet 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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