

# EZ-Pour Granulated Anhydrous Gallium Trichloride

## Introduction

**EZ-Pour® Gallium Trichloride** is a granulated, free-flowing form of  $\text{GaCl}_3$ . It is exceptionally easy to handle and can be poured easily from the container. No melting or use of solvents is required.

Synonyms	Gallium Chloride, Gallium (III) Chloride
CAS Number	13450-90-3
EC (EINECS/ELINCS) Number	236-610-0
RTECS	LW9100000
Purity	99.999%(5N) 99.9999%(6N)
Appearance	White quasi-spherical pellets; deliquescent; fumes in air
Form	Free-flowing granule
Formula Weight	176.08g/mol
Theoretical Gallium Content	39.596%
Density: Solid Liquid EZ-Pour®	2.47g/cm <sup>3</sup> 2.05g/cm <sup>3</sup> at mp 1.3–1.4g/cm <sup>3</sup>
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
<b>Total Combined Metals</b>	<b>&lt;3</b>	<b>10.0</b>

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

## Packaging

- Borosilicate glass bottle with high-temperature resistant PBT cap and PTFE liner
- Available in 0.5kg, 1kg, and 2kg
- Material is shipped in UN/DOT-, IATA-, and IMDG-compliant packaging



## Storage and Shelf Life

**Gallium Trichloride** is highly deliquescent and the material will liquefy quickly if exposed to a humid environment. The bottles need to remain tightly sealed until use.

**EZ-Pour® Gallium Trichloride** has a shelf life of at least 12 months. Due to the deliquescent nature of the chemical, we recommend storage in a low-humidity dry box.

## Safety Data Sheets

The SDS for this product can be found online at <http://www.indium.com/sds>