

EZ-Pour[®] Gallium Trichloride

EZ-Pour[®] is a pelletized, granulated, pourable form of Gallium (III) Chloride (GaCl_3). It is delivered in glass bottles (borosilicate with high-temperature caps and PTFE liners).



EZ-Pour[®] is the standard precursor material for manufacturing

- Ga electrolyte in lithium thionyl chloride batteries (lithium tetrachlorogallate)
- TMG (trimethylgallium)—the MOCVD growth precursor for LEDs and compound semiconductor applications



EZ-Pour[®] advantages:

- EZ-Pour[®] is pourable; there is no need to melt and/or dissolve the material (GaCl_3 is solid at room temperature and melts at 79°C)
- No need for expensive Hastelloy[™] containers (a specialty alloy needed to protect against corrosive material)
- Easy to pour and charge the reaction chamber, usually via handling inside a glove box

EZ-Pour[®] Gallium Trichloride

Synonyms	Gallium Chloride, Gallium (III) Chloride
CAS Number	13450-90-3
EC (EINECS/ELINCS) Number	236-610-0
RTECS	LW9100000
Purity	99.999% (5N)
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 ³ 2.05g/cm ³ at mp 1.3–1.4g/cm ³
Melting Point	77.9°C
Boiling Point	201.3°C at 760 torr
Vapor Pressure	1 torr at 48°C 10 torr at 78°C
Solubility	Soluble in water, ammonia, benzene, ethers, carbon disulfide, carbon tetrachloride

Contact Robert Ploessl: rploessl@indium.com

Inside sales: Kathy Screeder
kscreeder@indium.com or 315.381.7514

Learn more: www.indium.com



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