

PRODUCT DATA SHEET

Gallium Acetylacetonate



Introduction

Gallium Acetylacetonate, also referred by **Ga(acac)₃**, is a white crystalline powder soluble in organic solvents. In the presence of oxygen, **Ga(acac)₃** decomposes to gallium oxide upon heating at around 300–400°C. **Ga(acac)₃** has several applications in materials science, organic chemistry, and catalysis due to its versatility and stability.

Properties

Chemical Formula	Ga (C ₅ H ₇ O ₂) ₃
CAS Number	14405-43-7
EC Number	238-377-0
Molecular Weight	367.05g/mol
Density	Bulk – 1.42g/cm ³
Melting Point	196–198°C
Crystal Structure	Monoclinic
Purity	4N (99.99%)
Gallium% (Theoretical)	19%
Color	White crystalline solid/powder
Solubility	Soluble in organic solvents, not soluble in water
Uses	Ga ₂ O ₃ thin-films through atomic layer epitaxy 1D GaN nanostructures



Storage and Shelf Life

Gallium Acetylacetonate should be stored at room temperature in a well ventilated place and the container kept tightly sealed. **Gallium Acetylacetonate** has a shelf life of 6 months.

Safety Data Sheets

The SDS for this product can be obtained upon requisition to your local sales team.

Standard Packaging for Powder

Quantity	Container
0.5kg	0.5L Amber glass bottle
1.0kg	1.0L Amber glass bottle

Please contact askus@indium.com for sample COAs or to discuss impurity specifications.

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