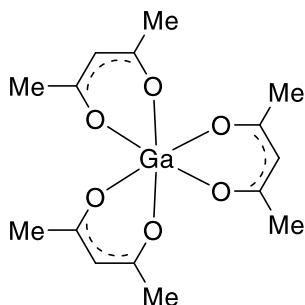


Catalog # 93-3130 Gallium(III) acetylacetonate (99.99+%-Ga) PURATREM



## Thermal Behavior:

- Melting point: 192-194°C
- Decomposition: >280°C
- Sublimation: 140°C/10 Torr
- TGA data and diagram is available in [1]

## Technical Notes:

1. ALD precursor and dopant for gallium containing thin film deposition.

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Ga <sub>2</sub> O <sub>3</sub>	ALD	130°C	1.2 Torr	O <sub>3</sub> , H <sub>2</sub> O	350-400°C	1
	CVD	Toluene solution	AP	O <sub>2</sub>	180°C (α-Ga <sub>2</sub> O <sub>3</sub> ) 700°C (β-Ga <sub>2</sub> O <sub>3</sub> )	2
LaGaO <sub>3</sub>	ALD	125°C	1.5-2.25 Torr	La(thd) <sub>3</sub> , O <sub>3</sub>	325-425°C	3
Er <sub>x</sub> Ga <sub>2-x</sub> O <sub>3</sub>	ALD	130°C	1.5-2.25 Torr	Ga(acac) <sub>3</sub> , O <sub>3</sub>	350°C	4

## References:

1. [J. Mater. Chem. 1996, 6, 27.](#)
2. [Semicond. Sci. Technol. 2020, 35, 115002.](#)
3. [J. Mater. Chem. 2001, 11, 3148.](#)
4. [J. Mater. Chem. 2007, 17, 1308.](#)