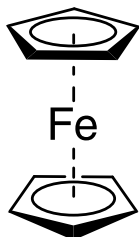


Catalog # 26-1700 Bis(cyclopentadienyl)iron, 99% (Ferrocene)



Thermal Behavior:

- Melting point: 172.5°C [1]
- Boiling point: 249°C [1]
- 7.5 mTorr/25°C; 75 mTorr/50°C; 0.75 Torr/80°C; 7.5 Torr/116 °C; 75 Torr/162 °C [2-3]

Technical Notes:

1. ALD/CVD precursor for Iron thin film and nanocomposites deposition.

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Fe ₂ O ₃ ·(Fe ₃ O ₄)	ALD	55°C	1.7-2.0 Torr	O ₂	350-500°C	4
α-Fe ₂ O ₃	ALD	60°C	-	O ₂	367-534°C	5
Fe ₂ O ₃ nanotubes	ALD	-	-	O ₃	200°C	6
Fe ₂ O ₃	ALD	60°C	1.6 Torr	O ₃	200°C	7
Fe ₃ O ₄	ALD	100°C	-	O ₃	200°C	8
Fe	ALD	115°C	-	H ₂	400°C	9
	CVD	70°C	0.4-0.5 Torr	e ⁻ PLAr	35-50°C	10
LiFePO ₄	ALD	75°C	-	O ₃ ; LiO ^t Bu; (MeO) ₃ PO/H ₂ O	300°C	11
BiFeO ₃	ALD	90°C	-	Bi(thd) ₃ ; O ₃	220-250°C	12
LaFeO ₃	ALD	160°C	-	La(thd) ₃ ; O ₂	250°C	13
Ni _x Fe _{3-x} O ₄	ALD	-	21 Torr	Ni(acac) ₂ , O ₃	250°C	14

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