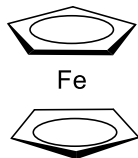


Catalog # 26-1699 Bis(cyclopentadienyl)iron, 98% (Ferrocene)



## 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 <sub>2</sub> O <sub>3</sub> ·(Fe <sub>3</sub> O <sub>4</sub> )	ALD	55°C	1.7-2.0 Torr	O <sub>2</sub>	350-500°C	4
α-Fe <sub>2</sub> O <sub>3</sub>	ALD	60°C	-	O <sub>2</sub>	367-534°C	5
Fe <sub>2</sub> O <sub>3</sub> <sup>nanotubes</sup>	ALD	-	-	O <sub>3</sub>	200°C	6
Fe <sub>2</sub> O <sub>3</sub>	ALD	60°C	1.6 Torr	O <sub>3</sub>	200°C	7
Fe <sub>3</sub> O <sub>4</sub>	ALD	100°C	-	O <sub>3</sub>	200°C	8
Fe	ALD	115°C	-	H <sub>2</sub>	400°C	9
	CVD	70°C	0.4-0.5 Torr	-e <sup>PL</sup> Ar	35-50°C	10
LiFePO <sub>4</sub>	ALD	75°C	-	O <sub>3</sub> ; LiO <sup>t</sup> Bu; (MeO) <sub>3</sub> PO/H <sub>2</sub> O	300°C	11
BiFeO <sub>3</sub>	ALD	90°C	-	Bi(thd) <sub>3</sub> ; O <sub>3</sub>	220-250°C	12
LaFeO <sub>3</sub>	ALD	160°C	-	La(thd) <sub>3</sub> ; O <sub>2</sub>	250°C	13
Ni <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub>	ALD	-	21 Torr	Ni(acac) <sub>2</sub> , O <sub>3</sub>	250°C	14

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