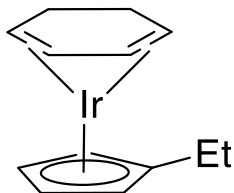


Catalog # 77-1105 1-Ethylcyclopentadienyl-1,3-cyclohexadieneiridium(I), 99% (99.9%-Ir)  
 Syn: Ir(EtCp)(CHD)



Thermal Behavior:

- Melting point: 15°C [1]
- Vapor pressure 0.1 Torr at 75°C [1], 0.6 Torr at 105°C [2]
- Decomposition at ~300°C [3]
- TGA diagram and data is available in [2]

Technical Notes:

1. ALD/CVD precursor for iridium thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
IrO <sub>2</sub>	CVD	70°C	10 Torr	O <sub>2</sub>	400°C	1, 3
Pt <sub>x</sub> Ir <sub>y</sub>	ALD	50°C	-	MeCpPtMe <sub>3</sub> , O <sub>3</sub>	220°C	4

References:

1. [J. Korean Phy. Soc. 2005, 46, 176](#)
2. [ECS Transactions, 2006, 1, 133](#)
3. [Jpn. J. Appl. Phys. 2006, 45, 7354](#)
4. [Beilstein J. Nanotechnol. 2020, 11, 952](#)