

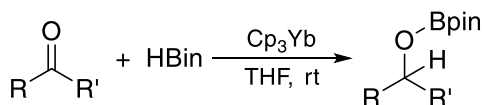
Catalog # 70-0075 Tris(cyclopentadienyl)ytterbium (99.9%-Yb) (REO)



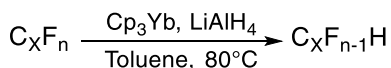
### Catalysis Applications

Technical Notes:

1. Catalyst for the hydroboration of various aldehydes and ketones to generate corresponding pinacolboranes
2. Catalyst used for C–F bond activation



**Tech Note (1)**  
**Ref. (1)**



**Tech Note (2)**  
**Ref. (2)**

References:

1. [Org. Lett. 2017, 19, 3382.](#)
2. [Z. Anorg. Allg. Chem. 2018, 644, 1229.](#)

### CVD/ALD Applications

Thermal Behavior:

- Melting point: 273°C [1-2]
- Sublimation: 150°C/1 mTorr [2]

Technical Notes:

1. ALD precursor for ytterbium oxide film deposition.

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Yb <sub>2</sub> O <sub>3</sub>	ALD	100°C	-	H <sub>2</sub> O or O <sub>3</sub>	360°C	1

References:

1. [Z. Anorg. Allg. Chem. 2010, 636, 2387.](#)
2. [J. Am. Chem. Soc. 1956, 78, 42.](#)
3. [Topics in Appl. Phys. 2007, 106, 203.](#)