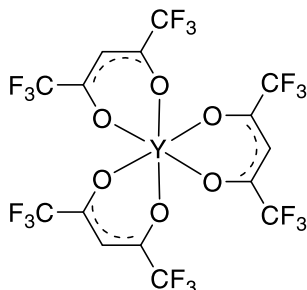


Catalog # 39-2500 Yttrium(III) hexafluoroacetylacetonate, hydrate (99.9%-Y) (REO)



Thermal Behavior:

- Melting point: 166-170°C, 164°C [1]
- Decomposition: 240°C
- Vapor pressure: 0.2 Torr/100°C [2], Vapor pressure calculations are available in [1]
- TGA diagram and data are available in [1, 5]

Technical Notes:

1. Precursor for yttrium containing thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Y ₂ O ₃	PE-ALD	130-180°C	0.2 Torr	^{PL} O ₂ , ^{PL} N ₂ O	400°C	2
YF ₃	CVD	90-160°C	10 Torr	O ₂	200-600°C	3
Zr:Ce:YO _x	AA-CVD	Toluene sol.	AP	Zr(tfac) ₄ , Ce(thd) ₄ , O ₂ , H ₂ O	300-600°C	4

References:

1. [Adv. Mat. Lett. 2012, 3, 130](#)
2. [J. Electrochem. Soc. 2003, 150, F102](#)
3. [Chem. Vap. Deposition 2005, 11, 324](#)
4. [Chem. Vap. Deposition 1997, 3, 311](#)
5. [Ceram. Int. 2021, 47, 4611](#)