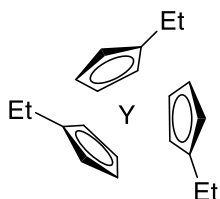


STREM CATALOG

Part of Ascensus Specialties

Catalog # 39-5055 Tris(ethylcyclopentadienyl)yttrium, 97%



Thermal Behavior:

- Thermal decomposition: ~190°C [4]
- Vapor pressure: 0.15 Torr/120°C [4,]

Technical Notes:

1. ALD/CVD precursor and dopant for yttrium thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
Y ₂ O ₃	ALD	120°C	0.2-1.5 Torr	H ₂ O	250-285°C	1-2
Y ₂ O ₃ :HfO ₂	ALD	120°C	-	[Et ₂ N] ₄ Hf, H ₂ O	250-285°C	3
YZr _x O _y	ALD	120°C	-	TDMAZr, H ₂ O	225-250°C	4
YAlO ₃	ALD	-	5 Torr	TMA, H ₂ O	300°C	5

References:

1. [J. Electrochem. Soc. 2008, 155, G152.](#)
2. [ACS Omega 2018, 3, 2111.](#)
3. [J. Appl. Phys. 2009, 105, 104106.](#)
4. [ECS Trans. 2015, 69, 109.](#)
5. [J. Vac. Sci. Technol. A, 2017, 35, 01B123.](#)



Headquartered in Bellevue, WA, **Ascensus Specialties is the global leader in catalysts, ligands, building blocks, and specialty reagents.** Our 60+ years of synthetic knowhow, allows us to bring additional value to our clients through our custom synthesis and cGMP services. From world-class production plants in Elma, WA, Evans City, PA, Newburyport, MA, and Cambridge, UK, Ascensus has a global reach that ensures our clients can consistently manufacture their products to the highest standards.

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