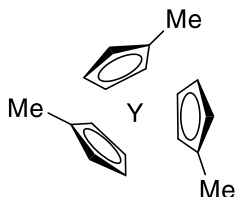


STREM CATALOG

Part of Ascensus Specialties

Catalog # 39-5050 Tris(methylcyclopentadienyl)yttrium (99.9%-Y) (REO)



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	110°C	1.5-2.25 Torr	H ₂ O	175-500°C	1
YScO ₃	ALD	110°C	1.5-2.25 Torr	H ₂ O	300-350°C	2
YZr _x O _y	ALD	190°C	0.2-0.3 Torr	Zr(NMe ₂) ₄ , H ₂ O	200-250°C	3-4
Y:BaZrO _x	ALD	190°C	0.1 Torr	(Ba(PrMe ₄ Cp) ₂) (Zr(NMe ₂) ₄), H ₂ O	200-275°C	5
YHf _x O _y	ALD	190°C	3.75-7.5 Torr	(CpMe) ₂ Hf(OMe)Me Hf(NEtMe) ₄ , O ₃ , H ₂ O HfCl ₄ , H ₂ O	300-350°C	6
			0.5 Torr		260-420°C	7

References:

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6. [Electrochem. Solid-State Lett. 2009, 12, G1.](#)
7. [Microelectron. Eng., 2011, 88, 561.](#)



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