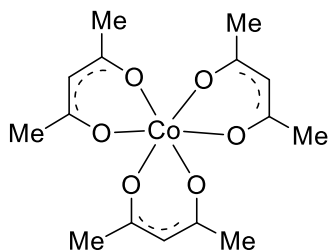


Catalog # 93-2702 Cobalt(III) acetylacetonate, 98+%



Thermal Behavior:

- Solid state decomposition temperature: 222 °C [1]
- Sublimation at 170 °C (atmospheric pressure) [3]
- Vapor pressure 1.059 Torr at 150 °C [3]

Technical Notes:

1. B-diketonate precursor for ALD and CVD of cobalt oxide thin films.

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
CoO _x	ALD			Air	180 °C, 450 °C	[4]
Co ₃ O ₄	AACVD	240-250 °C in toluene	10 Torr		300-600 °C	[5]
Co ₃ O ₄	ALD	125 °C		O ₃	300 °C	[7]
MgMnCoO	ALD		45-75 Torr	Air, Mg(tmhd) ₂ , Mn(tmhd) ₃	180 °C, 450 °C	[2]
(La, Sr)CoO _x	ALD	142 °C	1.5-2 Torr	O ₃ , La(tmhd) ₃ , Sr(tmhd) ₂	230-330 °C	[6]
Na _x CoO ₂ , Ca ₃ CoO ₉	ALD	130 °C	1 Torr	O ₃ , Na(thmd), Ca(thmd) ₂	220 °C, 250 °C	[8]

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8. [J. Vac. Sci. Technol. A 2020, 38, 032412](#)