

Catalog # 24-0145 Bis(ethylbenzene)chromium [mixture of $(C_2H_5)_x C_6H_6 \eta^x$ where $x = 0-4$]

Thermal Behavior:

- Boiling point: 140-160°C at 1 Torr
- Sublimation at 61°C [1]
- Volatile at 90 °C/10-3 Torr [2]

Technical Notes:

1. CVD precursor for chromium containing thin film deposition

Target Deposit	Deposition Technique	Delivery Temperature	Pressure	Co-reactants	Deposition Temperature	Ref.
CrC _x	DLI-MOCVD	Tol. Solution injected at 180°C, 200°C	50 Torr 3-15 Torr	-	400-450°C 325-525°C	3-4 5

References:

1. [J. Am. Chem. Soc. 1973, 95, 3337.](#)
2. [Inorg. Chem. 1976, 15, 577.](#)
3. [Appl. Surf. Sci. 2017, 422, 198.](#)
4. [Surf. Coat. Techn. 2017, 332, 96.](#)
5. [Surf. Coat. Techn. 2021, 416, 127174.](#)