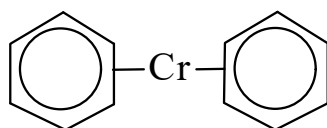




>>Entry Name: Bis( $\eta^6$ -benzene)chromium, 9Cl, 8Cl

Synonym(s): Dibenzenechromium



CAS Registry Number: 1271-54-1

Related CAS Registry Numbers(s): 11077-44-4

Molecular Formula: C<sub>12</sub>H<sub>12</sub>Cr

Molecular Weight: 208.223

Accurate Mass: 208.034409

Percentage Composition: C 69.22%; H 5.81%; Cr 24.97%

General Statement: Adopts strict *D*<sub>6h</sub> symmetry in the solid state

Source/Synthesis: Synth. by redn. of [Cr(C<sub>6</sub>H<sub>6</sub>)<sub>2</sub>]<sup>(+)</sup> or from Cr (vapour) + C<sub>6</sub>H<sub>6</sub>

Use/Importance: Polym. catalyst; dehydrogenation catalyst for 1,4-cyclohexadienes

Physical Description: Air-sensitive brown-black cryst.

Melting Point: Mp 284-285°

Boiling Point: Subl. 160° *in vacuo*

Solubility: Sol. C<sub>6</sub>H<sub>6</sub>; sl. sol. Et<sub>2</sub>O

Other Data: Dec. on pyrolysis to metallic Cr

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