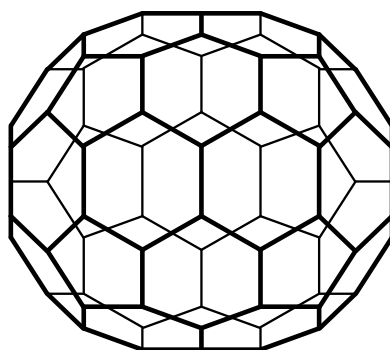




>>Entry Name: Fullerene-C₇₀

Synonym(s): [5,6]Fullerene-C₇₀. Falmerene



CAS Registry Number: 115383-22-7

Molecular Formula: C₇₀

Molecular Weight: 840.77

Accurate Mass: 840

Percentage Composition: C 100.00%

General Statement: Contains 5 different groups of C atoms in ratio 10:10:20:20:10. Elongated molecule with D_{5h} symmetry. Stacks in ccp or hcp form in solid state

Source/Synthesis: Forms, together with C₆₀, when C is vaporised; also formed (3-4 wt%) are C₇₆, C₈₄, C₉₀, C₉₄

Physical Description: Stable reddish-brown solid or brown-black cryst.

Melting Point: Mp 280°

Solubility: Sol. many org. solvs., esp. aromatic solvs. (port-wine coloured)

Other Data: ΔH_f° -2555 kJ mol⁻¹. Closely related is a cylindrical form, nick-named "Buckytubes", see under Carbon [JDN28-O](#)

Aldrich: 37965-4

Fluka: 18832

References:

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