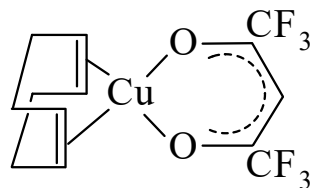




>>Entry Name: [(1,2,5,6-η)-1,5-Cyclooctadiene](1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)copper, 11Cl

Synonym(s): (Cycloocta-1,5-diene)hexafluoroacetylacetonatocopper. Copper (cycloocta-1,5-diene) hexafluoroacetylacetonate



CAS Registry Number: 86233-74-1

Molecular Formula: C₁₃H₁₃CuF₆O₂

Molecular Weight: 378.781

Accurate Mass: 378.021571

Percentage Composition: C 41.22%; H 3.46%; Cu 16.78%; F 30.09%; O 8.45%

Source/Synthesis: Synth. from Cu₂O + cod + hexafluoroacetylacetone in THF

Use/Importance: Used in CVD of copper

Physical Description: Bright yellow cryst.

Solubility: Sol. hexane, toluene, THF

Other Data: Dec. >100°. Various analogues with other dienes and fluorinated β-diketonates also known

Aldrich: 40146-3

Other: Gelest AKC252.7

References:

Doyle, G. *et al.*, *Organometallics*, 1985, **4**, 830, (*synth, pmr, partial cryst struct, analogues*)

Shin, K.M. *et al.*, *Polyhedron*, 1991, **10**, 2293-2299, (*synth, ir, pmr, cmr, ms, cryst struct*)

Inorg. Synth., 1997, **31**, 289-294, (*synth, ir, pmr, cmr, ms, cryst struct*)