



>>Entry Name: Hydro(triphenylphosphine)copper(I)

Related CAS Registry Numbers(s): 119390-56-6

Molecular Formula: $\text{C}_{18}\text{H}_{16}\text{CuP}$

Molecular Weight: 326.844

Accurate Mass: 326.03856

Percentage Composition: C 66.15%; H 4.93%; Cu 19.44%; P 9.48%

>>Derivative: Pentamer

Synonym(s): Penta- μ_3 -hydropentakis(triphenylphosphine)pentacopper(I)

CAS Registry Number: 119390-54-4

Molecular Formula: $\text{C}_{90}\text{H}_{80}\text{Cu}_5\text{P}_5$

Molecular Weight: 1634.22

Accurate Mass: 1630.1928

Percentage Composition: C 66.15%; H 4.93%; Cu 19.44%; P 9.48%

Physical Description: Orange needles (THF)

Solubility: Sol. THF

>>Derivative: Hexamer

Synonym(s): Hexa- μ -hydrohexakis(triphenylphosphine)hexacopper(I)

CAS Registry Number: 119390-56-6

Extra CAS Registry Numbers(s): 33636-93-0

Molecular Formula: $\text{C}_{108}\text{H}_{96}\text{Cu}_6\text{P}_6$

Molecular Weight: 1961.065

Accurate Mass: 1956.23136

Percentage Composition: C 66.15%; H 4.93%; Cu 19.44%; P 9.48%

Physical Description: Cryst.

References:

Churchill, M.F. *et al.*, *Inorg. Chem.*, 1972, **11**, 1818, (*synth, cryst struct*)

Inorg. Synth., 1979, **19**, 87, (*synth*)

Beguin, B. *et al.*, *J. Organomet. Chem.*, 1981, **208**, C18, (*use*)

Albert, C.F. *et al.*, *Inorg. Chem.*, 1989, **28**, 1300, (*synth, cryst struct*)

Neils, T.L. *et al.*, *Inorg. Chem.*, 1989, **28**, 1607, (*synth, hexamer*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1990, **15**, 166, (*use*)