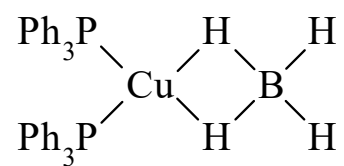




>>Entry Name: [Tetrahydroborato(1-)-*H,H'*]bis(triphenylphosphine)copper, 9Cl

Synonym(s): Bis(triphenylphosphine)copper(1+) tetrahydroborate(1-), 10Cl, 9Cl, 8Cl. Bis(triphenylphosphine)copper(*I*) borohydride



CAS Registry Number: 16903-61-0

Related CAS Registry Numbers(s): 34010-85-0

Molecular Formula: C₃₆H₃₄BCuP₂

Molecular Weight: 602.969

Accurate Mass: 602.162477

Percentage Composition: C 71.71%; H 5.68%; B 1.79%; Cu 10.54%; P 10.27%

Use/Importance: Reducing agent for converting RCOCl → RCHO. Used in photoimaging materials

Physical Description: Cryst. (CHCl₃/EtOH)

Melting Point: Mp 164 dec., 177° dec.°

Solubility: Sol. H₂O, org. solvs.

Other Data: Forms C₆H₆ solvate, Mp 187°

Aldrich: 22236-4

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 1249D, (*ir*)

Davidson, J.M., *Chem. Ind. (London)*, 1964, 2021, (*synth*)

Cariati, F. *et al.*, *Gazz. Chim. Ital.*, 1965, **95**, 3, (*synth*)

Lippard, S.J. *et al.*, *J.A.C.S.*, 1967, **89**, 3929, (*cryst struct*)

Fleet, G.W.J. *et al.*, *Tet. Lett.*, 1978, 1437; 1980, **21**, 4031, (*use*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 47, (*use*)

Sorell, T.N. *et al.*, *J.O.C.*, 1980, **45**, 3449, (*synth, use*)

Clarke, S.J. *et al.*, *J. Chem. Res., Synop.*, 1981, 17, (*use*)