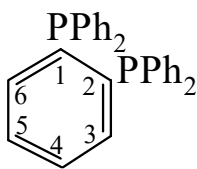




>>Entry Name: 1,2-Phenylenebis[diphenylphosphine], 9CI

Synonym(s): 1,2-Bis(diphenylphosphino)benzene



CAS Registry Number: 13991-08-7

Molecular Formula: $C_{30}H_{24}P_2$

Molecular Weight: 446.467

Accurate Mass: 446.135324

Percentage Composition: C 80.71%; H 5.42%; P 13.88%

Use/Importance: Ligand for many metals

Physical Description: Cryst. (EtOH/toluene or DMF)

Melting Point: Mp 183-185° (179-181°)

Boiling Point: Bp_{0.5} 150° subl.

Other Data: Does not form normal methiodides

Aldrich: 46027-3

References:

Hart, F.A., *J.C.S.*, 1960, 3324, (*synth*)

Levason, W. *et al.*, *J. Organomet. Chem.*, 1975, **84**, 239, (*ms*)

Talarj, R. *et al.*, *Z. Naturforsch., B*, 1981, **36**, 451, (*synth, nmr, ms*)

Bowmaker, G.A. *et al.*, *Chem. Ber.*, 1983, **116**, 3567, (*synth, P-31 nmr*)

McFarlane, H.C.E. *et al.*, *Polyhedron*, 1983, **2**, 303; 1988, **7**, 1875, (*synth, P-31 nmr*)

Tunney, S.E. *et al.*, *J.O.C.*, 1987, **52**, 748, (*synth, pmr, cmr, P-31 nmr*)