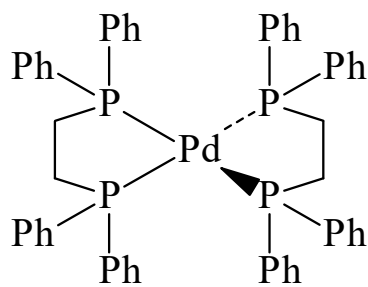




>>Entry Name: Bis[1,2-ethanediylbis(diphenylphosphine)]-P,P']palladium(0), 9Cl

Synonym(s): Bis[ethylenebis(diphenylphosphine)]palladium(0), 8Cl. Bis[1,2-bis(diphenylphosphino)ethane]palladium(0). Bis(DIPHOS)palladium(0)



CAS Registry Number: 31277-98-2

Molecular Formula: C<sub>52</sub>H<sub>48</sub>P<sub>4</sub>Pd

Molecular Weight: 903.266

Accurate Mass: 902.174126

Percentage Composition: C 69.15%; H 5.36%; P 13.72%; Pd 11.78%

General Statement: Probably tetrahedral struct.

Source/Synthesis: Synth. from Bis[1,2-ethanediylbis(diphenylphosphine)]-P,P']palladium(II)(2+) JCN97-B + NaBH<sub>4</sub>

Use/Importance: Commercially available. Homogeneous catalyst for hydrogenation of alkynes, alkenes and polyenes, and for reactions of CO<sub>2</sub> etc.

Physical Description: Light-sensitive yellow solid (C<sub>6</sub>H<sub>6</sub>/EtOH)

Melting Point: Mp 234°

Solubility: Sol. hydrocarbons, CH<sub>2</sub>Cl<sub>2</sub>

Aldrich: 23027-8

#### References:

Chatt, J. *et al.*, *J.C.S.*, 1962, 2537, (*synth*)

Stern, E.W. *et al.*, *J. Catal.*, 1972, **27**, 120, (*use*)

Lindsay, C.H. *et al.*, *Inorg. Chem.*, 1980, **19**, 3503, (*pmr, P-31 nmr*)

Fieser and Fieser's *Reagents for Organic Synthesis*, Wiley, 1982, **10**, 32; 1988, **13**, 34, (*use*)

Alper, H. *et al.*, *Organometallics*, 1982, **1**, 775, (*use*)

Maekawa, M. *et al.*, *Anal. Sci.*, 1997, **13**, 319, (*cryst struct*)