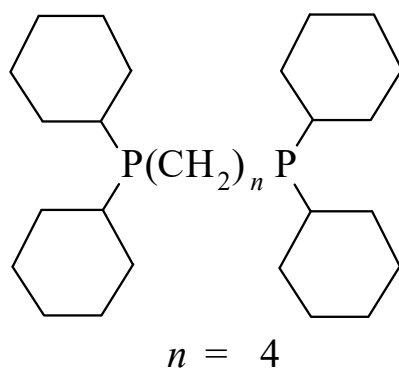




>>Entry Name: 1,4-Bis(dicyclohexylphosphino)butane

Synonym(s): 1,4-Butanediylbis[dicyclohexylphosphine], 10Cl, 9Cl. Tetramethylenebis[dicyclohexylphosphine], 8Cl



CAS Registry Number: 65038-36-0

Molecular Formula: $C_{28}H_{52}P_2$

Molecular Weight: 450.666

Accurate Mass: 450.354424

Percentage Composition: C 74.62%; H 11.63%; P 13.75%

Use/Importance: Used in catalysts for hydroformylation of 1-alkenes. Ligand for Pt, Pd and Ni

Physical Description: Cryst. (dioxan)

Melting Point: Mp 98-100°

Aldrich: 44042-6

>>Derivative: Disulfide

Synonym(s): 1,4-Bis(dicyclohexylphosphinothioyl)butane

Molecular Formula: $C_{28}H_{52}P_2S_2$

Molecular Weight: 514.798

Accurate Mass: 514.298564

Percentage Composition: C 65.33%; H 10.18%; P 12.03%; S 12.46%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 214-215°

References:

Issleib, K. *et al.*, *Chem. Ber.*, 1959, **92**, 3175; 1961, **94**, 2244, (*synth, disulfide*)

Hayashi, T. *et al.*, *Bull. Chem. Soc. Jpn.*, 1981, **54**, 3438, (*use*)

Tsuda, T. *et al.*, *Synth. Commun.*, 1987, **17**, 147, (*use*)