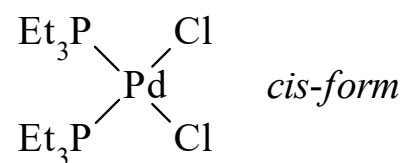




>>Entry Name: Dichlorobis(triethylphosphine)palladium(II), 9Cl, 8Cl



CAS Registry Number: 28425-04-9

Molecular Formula: $C_{12}H_{30}Cl_2P_2Pd$

Molecular Weight: 413.642

Accurate Mass: 412.023456

Percentage Composition: C 34.84%; H 7.31%; Cl 17.14%; P 14.98%; Pd 25.73%

General Statement: Sq. planar struct. Both isomers known, *cis*- forming at lower temps.

Use/Importance: Starting material for other Pd complexes. Reacts with LiX with substitution of Cl and with unsatd. org. mols. Reports of various catalytic props.

Aldrich: 41405-0

>>Variant: *cis*-form

CAS Registry Number: 77027-39-5

Molecular Formula: $C_{12}H_{30}Cl_2P_2Pd$

Molecular Weight: 413.642

Accurate Mass: 412.023456

Percentage Composition: C 34.84%; H 7.31%; Cl 17.14%; P 14.98%; Pd 25.73%

Source/Synthesis: Synth. from *trans*-form + uv light in $MeNO_2$

Physical Description: Pale yellow solid

Solubility: Sol. CH_2Cl_2

>>Variant: *trans*-form

CAS Registry Number: 15642-19-0

Molecular Formula: $C_{12}H_{30}Cl_2P_2Pd$

Molecular Weight: 413.642

Accurate Mass: 412.023456

Percentage Composition: C 34.84%; H 7.31%; Cl 17.14%; P 14.98%; Pd 25.73%

Physical Description: Red-brown solid

Solubility: Sol. CH_2Cl_2

References:

Mann, B.E. *et al.*, *J.C.S.(A)*, 1971, 2976, (*P-31 nmr*)

Bresadola, S. *et al.*, *Inorg. Chem.*, 1973, **12**, 2788, (*use*)

Allen, E.A. *et al.*, *Spectrochim. Acta A*, 1974, **30**, 1219, (*ir, Raman*)

Alcock, N.W. *et al.*, *J.C.S. Dalton*, 1981, 635, (*synth, P-31 nmr*)

Creswell, C.J. *et al.*, *Inorg. Chim. Acta*, 1982, **60**, 157, (*use*)