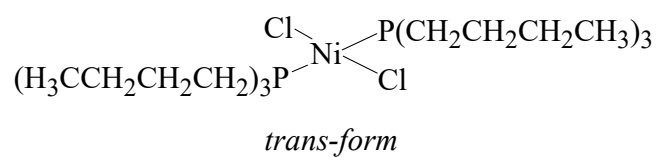




>>Entry Name: Dichlorobis(tributylphosphine)nickel



CAS Registry Number: 15274-43-8

Molecular Formula: C₂₄H₅₄Cl₂NiP₂

Molecular Weight: 534.234

Accurate Mass: 532.243124

Percentage Composition: C 53.96%; H 10.19%; Cl 13.27%; Ni 10.99%; P 11.60%

>>Variant: *trans*-form

CAS Registry Number: 19615-74-8

Molecular Formula: C₂₄H₅₄Cl₂NiP₂

Molecular Weight: 534.234

Accurate Mass: 532.243124

Percentage Composition: C 53.96%; H 10.19%; Cl 13.27%; Ni 10.99%; P 11.60%

Source/Synthesis: Synth. from NiCl₂ + Bu₃P in THF

Use/Importance: Various catalytic applications in cross-coupling of Grignards

Physical Description: Sticky red cryst. (pentane)

Melting Point: Mp 48-49°

Solubility: Sol. C₆H₆, THF

Other Data: Partly dissoc. in MeCN

References:

- Jensen, K.A., *Z. Anorg. Allg. Chem.*, 1936, **229**, 265, (*synth, props*)
Jensen, K.A., *Acta Chem. Scand.*, 1963, **17**, 1115, (*synth*)
Nast, R. *et al.*, *J. Organomet. Chem.*, 1981, **204**, 267-272, (*reactions*)
Pozdeeva, A.A. *et al.*, *J. Organomet. Chem.*, 1989, **367**, 205-232, (*props*)
Stanger, A. *et al.*, *Organometallics*, 1992, **11**, 317-320, (*reactions*)
Ahlrichs, R. *et al.*, *Chem. Eur. J.*, 1996, **2**, 238-244, (*reactions*)