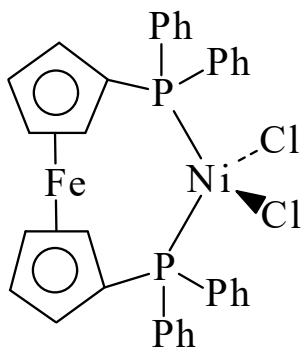




>>Entry Name: [1,1'-Bis(diphenylphosphino)ferrocene-*P,P'*]dichloronickel



CAS Registry Number: 67292-34-6

Molecular Formula: C₃₄H₂₈Cl₂FeNiP₂

Molecular Weight: 683.985

Accurate Mass: 681.974613

Percentage Composition: C 59.71%; H 4.13%; Cl 10.37%; Fe 8.16%; Ni 8.58%; P 9.06%

Use/Importance: Catalyst for cross-coupling reactions and for amination of aryl chlorides; coupling catalyst for allylic carbanates and vinyl boronates

Physical Description: Dark green cryst. (butanol)

Melting Point: Mp 283-284°

Other Data: Paramagnetic, $\mu_{\text{eff}} = 3.39\mu_{\text{B}}$. Bromide and iodide also descr.

Aldrich: 47055-4

References:

- Rudie, A.W. *et al.*, *Inorg. Chem.*, 1978, **17**, 2859, (*synth, ir*)
Hayashi, T. *et al.*, *Tet. Lett.*, 1984, **25**, 1499, (*use*)
Castellato, U. *et al.*, *J. Crystallogr. Spectrosc. Res.*, 1988, **18**, 583, (*cryst struct*)
Percec, V. *et al.*, *J.O.C.*, 1995, **60**, 1060, (*use*)
Kobayashi, Y. *et al.*, *Synlett*, 1995, 571, (*use*)
Wolfe, J.P. *et al.*, *J.A.C.S.*, 1997, **119**, 6054, (*use, amination of aryl chlorides*)
Casagrande, O.L. *et al.*, *Polyhedron*, 1997, **16**, 171, (*thermolysis*)