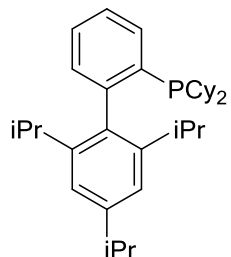


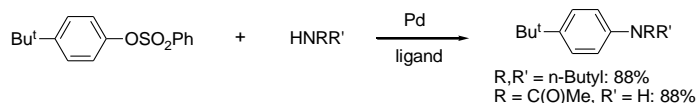
Catalog # 15-1149 2-Dicyclohexylphosphino-2',4',6'-tri-*i*-propyl-1,1'-biphenyl, min. 98% X-Phos



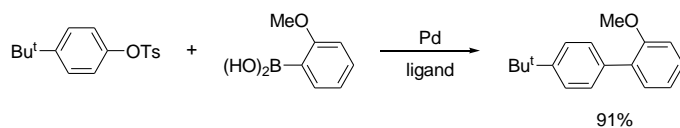
Note: Buchwald Biaryl Phosphine Ligand Kit component. Patents US 6,395,916, US 6,307,087.

Technical Notes:

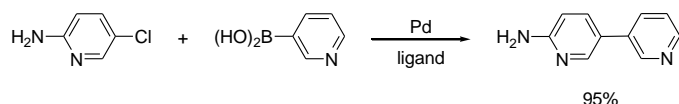
1. See also [46-0268](#).
2. Exceptional ligands for Pd-catalyzed amination and amidation of aryl sulfonates.
3. Ligand used for the Pd-catalyzed Suzuki-Miyaura coupling reaction and carbonyl enolate coupling.
4. Ligand used for the chemoselective amination of aryl chlorides.
5. Ligand used for the Pd-catalyzed borylation of aryl chlorides.
 - a. For the formation of trifluoroborates.
6. Ligand used for the Pd-catalyzed amination of vinyl halides and triflates.
7. Ligand used for the Pd-catalyzed three-component synthesis of indoles.
8. Ligand used for the Pt-catalyzed regioselective hydrosilylation of functionalized terminal arylalkynes.
9. Ligand used for the Pd-catalyzed synthesis of carbazoles.
10. Ligand used for the Pd-catalyzed Suzuki-Miyaura coupling of aryl chloride and NHC-boranes.
11. Ligand used for the direct arylation of picoline *N*-oxide.
12. Ligand used for the Negishi coupling of 2-heterocyclic organozinc reagents.
13. Catalyst for a phosphine-catalyzed Heine reaction.
14. Ligand used for the palladium-catalyzed oxidative coupling of indoles and heteroarenes.
15. Ligand used for the silver-catalyzed hydrogenation of aldehydes.
16. Ligand used for the palladium-catalyzed cyanation of heterocyclic halides.



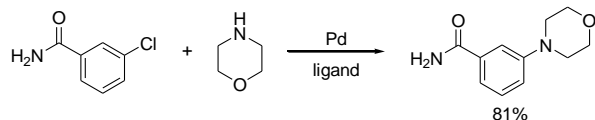
**Tech. Note (2)
Ref. (1)**



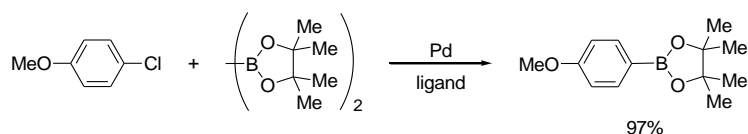
**Tech. Note (3)
Ref. (2)**



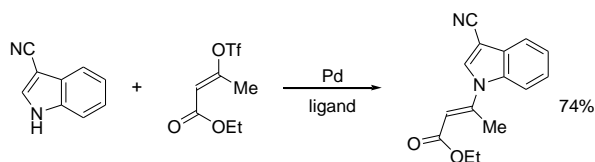
**Tech. Note (3)
Ref. (3,4)**



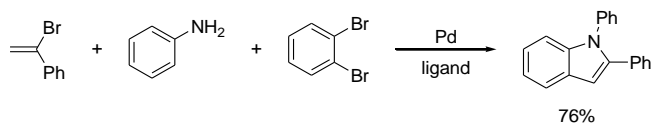
**Tech. Note (4)
Ref. (3)**



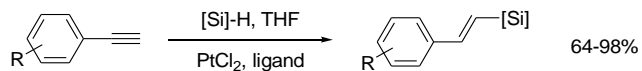
**Tech. Note (5)
Ref. (5)**



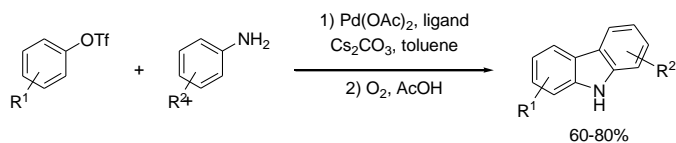
Tech. Note (6)
Ref. (6)



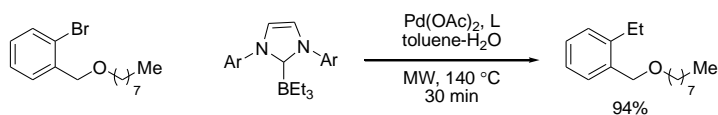
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Ref. (7)



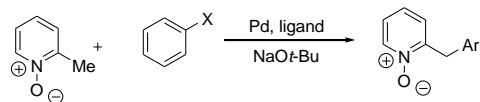
Tech. Note (8)
Ref. (8)



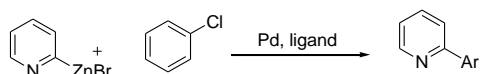
Tech. Note (9)
Ref. (10)



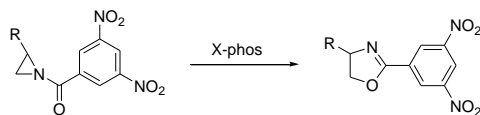
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Ref. (10)



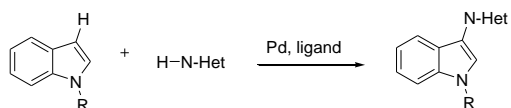
Tech. Note (11)
Ref. (12)



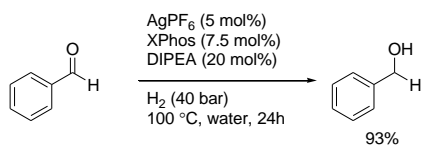
Tech. Note (12)
Ref. (13)



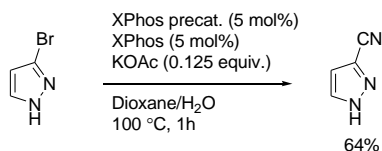
Tech. Note (13)
Ref. (14)



Tech. Note (14)
Ref. (15)



Tech. Note (15)
Ref. (16)



Tech. Note (16)
Ref. (17)

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