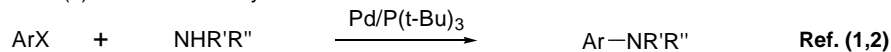


Catalog # 15-5812 Tri-*t*-butylphosphine, 99% (10 wt% in hexane) (Sure/Seal™ bottle)

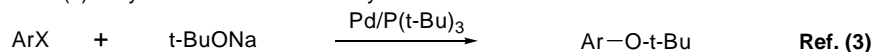
## Technical Notes:

1. Useful as a ligand in a variety of palladium-catalyzed C-N, C-O and C-C bond-forming reactions under mild conditions.

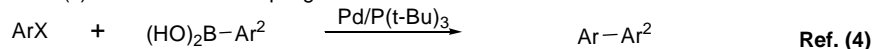
(a) Amination of aryl halides.



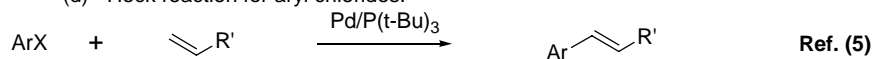
(b) Aryl ether formation from aryl halides.



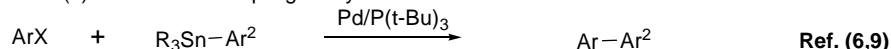
(c) Suzuki cross-coupling.



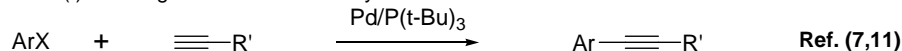
(d) Heck reaction for aryl chlorides.



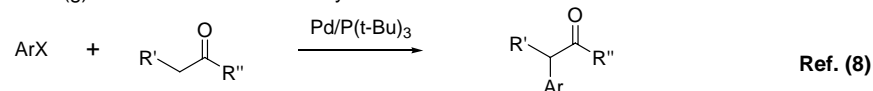
(e) Stille cross-coupling of aryl chlorides.



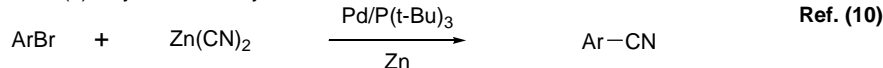
(f) Sonogashira reaction for aryl bromides.



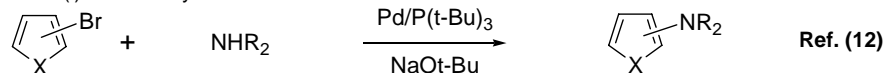
(g) Ketone and malonate arylation.



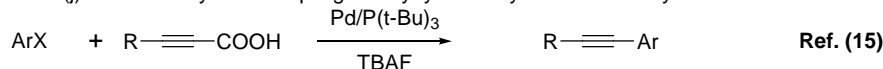
(h) Cyanation of aryl bromides.



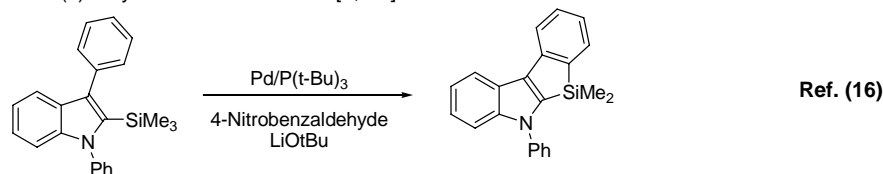
(i) Heterocycle amination.



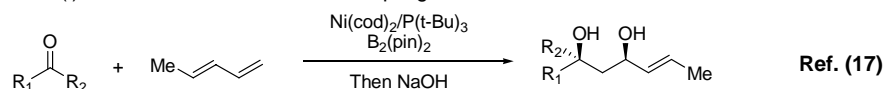
(j) Decarboxylative coupling of alkynyl carboxylic acids and aryl halides.



(k) Synthesis of benzosilolo[2,3-*b*]indoles



(l) Borolative Ketone-Diene Coupling



## References:

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