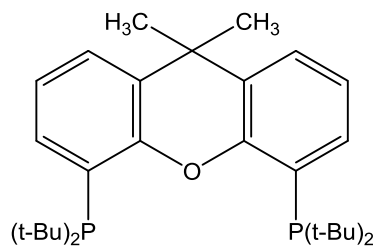
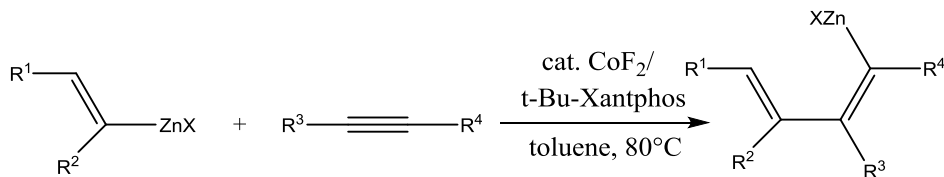


Catalog # D139344 9,9-Dimethyl-4,5-bis(di-*t*-butylphosphino)xanthene, min. 97% *t*-Bu-XANTPHOS

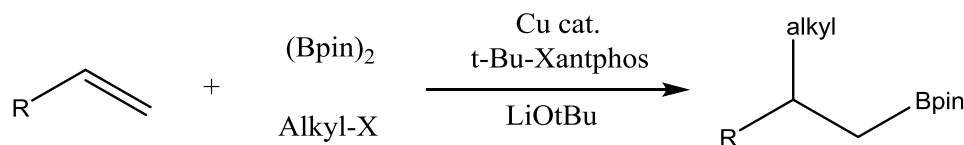


Technical Notes:

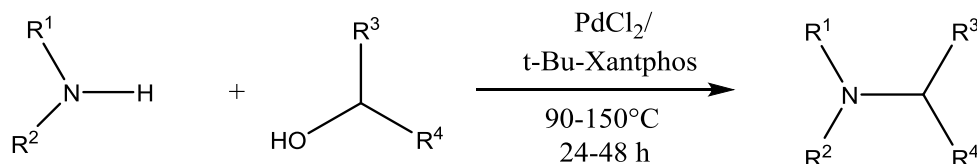
1. Ligand used in the cobalt-catalyzed alkenylzincation of unfunctionalized alkynes.
2. Ligand used in the cobalt-catalyzed alkylation of alkenes.
3. Ligand used in the palladium-catalyzed N-alkylation of amines using primary and secondary alcohols.
4. Ligand used in the palladium-catalyzed methylation of alkynyl C(sp)-H bonds with dimethyl sulfonium ylides.



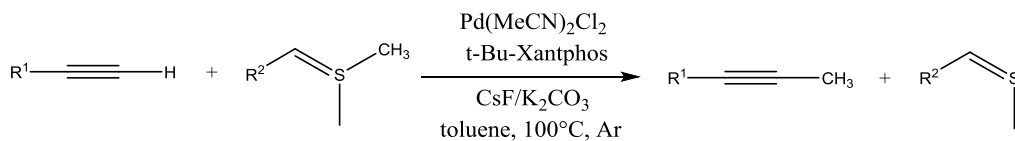
Tech. Note (1)  
Ref. (1)



Tech. Note (2)  
Ref. (2)



Tech. Note (3)  
Ref. (3)



Tech. Note (4)  
Ref. (4)

References:

1. *Angew. Chem. Int. Ed.*, **2016**, 55, 336.
2. *Angew. Chem. Int. Ed.*, **2015**, 54, 12961.
3. *ACS Catalysis*, **2013**, 3, 2536.
4. *J. Org. Chem.*, **2013**, 78, 10421.