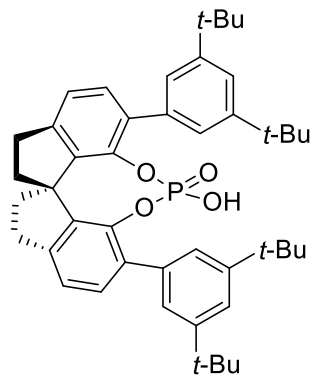
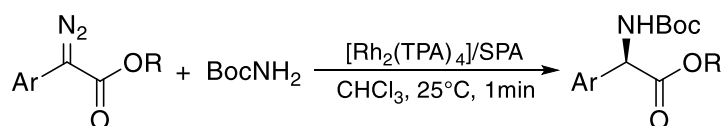


Catalog # 15-0571 (11aR)-3,7-Bis[3,5-bis(tert-butyl)phenyl]-10,11,12,13-tetrahydro-5-hydroxy-5-oxide-diindeno[7,1-de:1',7'-fg][1,3,2]dioxaphosphocin

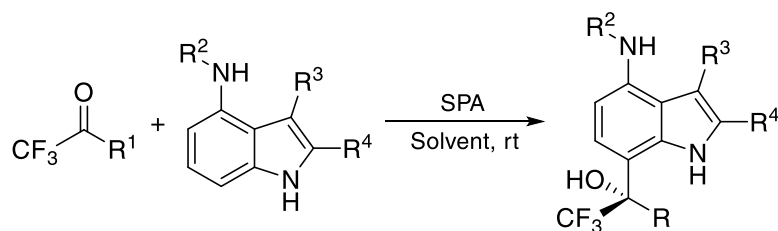


Technical Notes

1. Used in asymmetric N–H insertion reaction cooperatively catalyzed by rhodium and chiral spiro phosphoric acids.
2. Used in the chiral spiro phosphoric-acid-catalyzed regioselective and enantioselective C7-Friedel-Crafts alkylation of 4-Aminoindoles with trifluoromethyl ketones.



Tech. Note (1); Ref. (1)



Tech. Note (2); Ref. (2)

References:

1. *Angew. Chem. Int. Ed.* **2011**, *50*, 11483.
2. *Org. Lett.* **2019**, *21*, 3538.