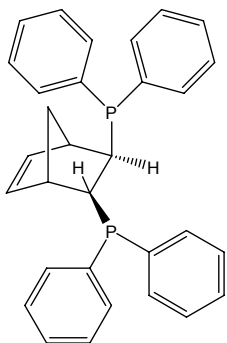
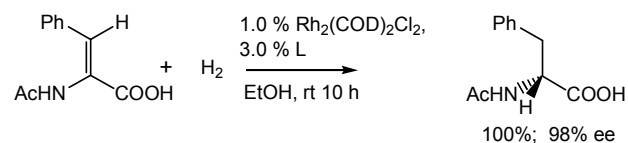


Catalog # 15-0140 (2R,3R)-(-)-2,3-Bis(diphenylphosphino)-bicyclo[2.2.1]hept-5-ene, min. 95% (R,R)-NORPHOS

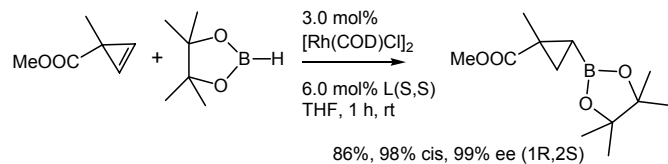


Technical Notes:

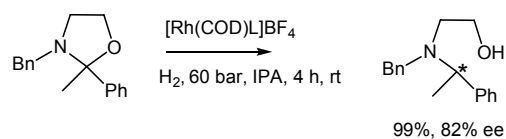
1. Ligand used in the enantioselective rhodium catalyzed hydrogenation of α -dehydroaminoesters and enamides.
2. Ligand used in the enantioselective rhodium catalyzed hydroboration of cyclopropenes.
3. Ligand used in the asymmetric rhodium catalyzed cleavage of racemic 1,3-oxazolidines.
4. Iridium or Rhodium-catalyzed asymmetric Diels-Alder reaction.⁴



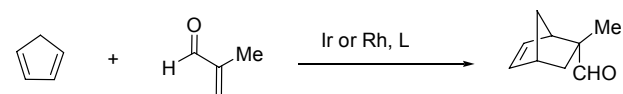
Tech. Note (1)
Ref. (1)



Tech. Note (2)
Ref. (2)



Tech. Note (3)
Ref. (3)



Tech. Note (4)
Ref. (4)

References:

1. *Angew. Chem.*, **1979**, 91, 655.
2. *J. Am. Chem. Soc.*, **2003**, 125, 7198.
3. *Adv. Synth. Catal.*, **2003**, 345, 239.
4. *Organometallics*, **2011**, 30, 6661.