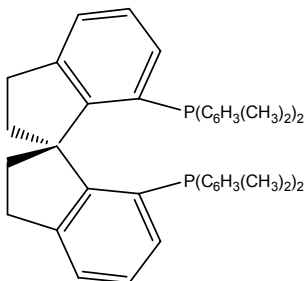


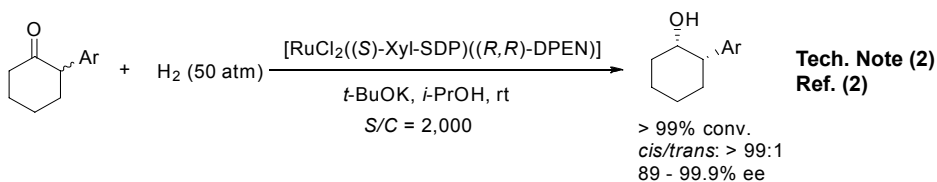
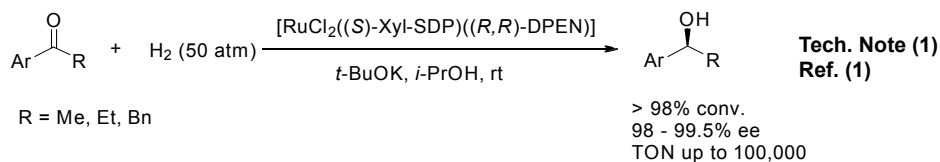
Catalog # 15-5169 (S)-(-)-7,7'-Bis[di(3,5-dimethylphenyl)phosphino]-2,2',3,3'-tetrahydro-1,1'-spirobiindane, min. 97% (S)-Xyl-SDP



Note: Spiro Bisphosphine Ligand Kit component.

Technical Notes:

1. Chiral ligands for ruthenium-catalyzed asymmetric hydrogenation of simple ketones.
2. Chiral ligands for ruthenium-catalyzed asymmetric hydrogenation of racemic α -aryl cyclic ketones via dynamic kinetic resolution.



References:

1. *J. Am. Chem. Soc.*, **2003**, *125*, 4404.
2. *J. Org. Chem.*, **2005**, *125*, 2967.