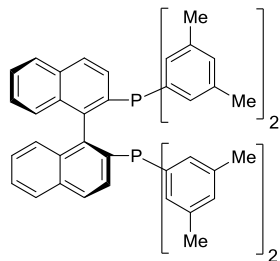


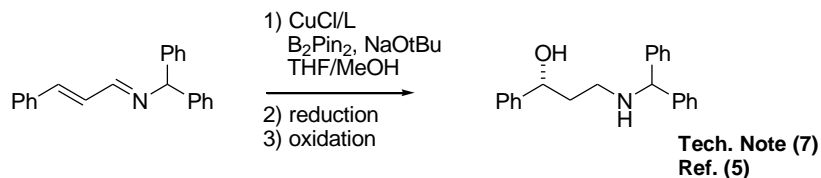
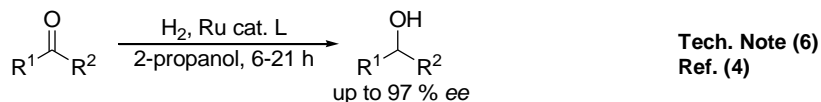
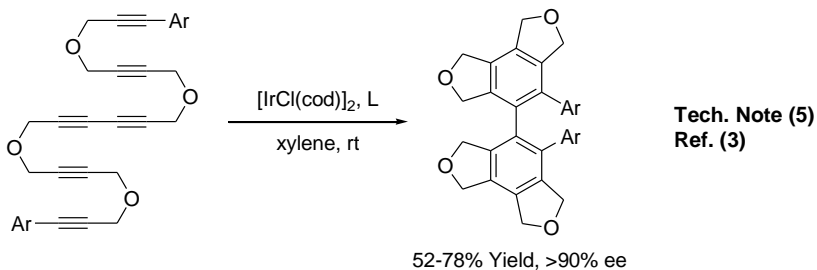
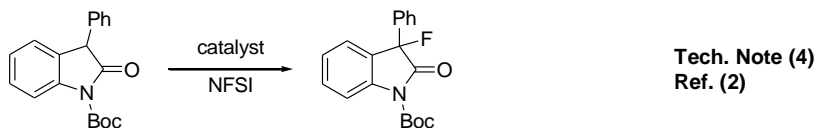
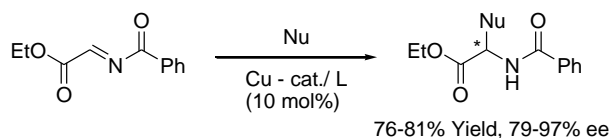
Catalog # 15-0477 (S)-(-)-2,2'-Bis[di(3,5-xylyl)phosphino]-1,1'-binaphthyl, 98% (S)-(-)-XylBINAP



Note: Manufactured under license of Takasago patent. Takasago BINAP Ligand Kit component.

Technical Notes:

1. See [15-0150](#).
2. See [15-0476](#).
3. Ligand used in copper-catalyzed asymmetric Mannich-type reactions of N-acylimino esters.
4. Ligand used in the enantioselective fluorination of oxindoles.
5. Ligand used in [2+2+2] cycloaddition of tetraynes and hexaynes.
6. Ligand used in the asymmetric reduction of ketone *via* ruthenium-catalyzed transfer hydrogenation.
7. Asymmetric hydroboration of unsaturated imines.



References:

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2. *J. Am. Chem. Soc.*, **2005**, 127, 10164.
3. *Tetrahedron*, **2008**, 64, 821.
4. *J. Am. Chem. Soc.*, **2011**, 133, 10696.
5. *Org. Lett.*, **2013**, 15, 4810.