

Strem Chemicals, Inc.

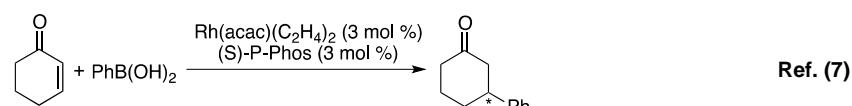
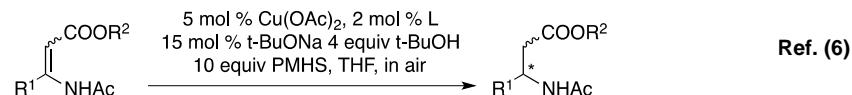
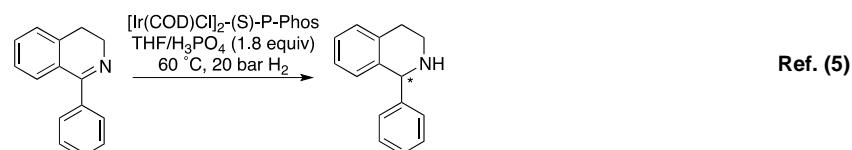
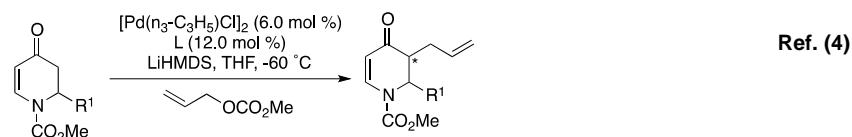
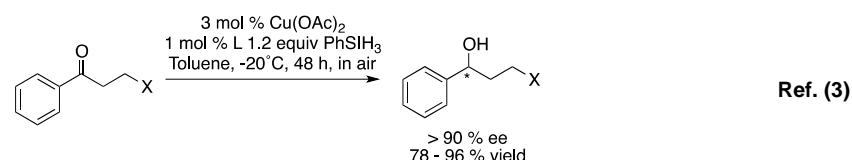
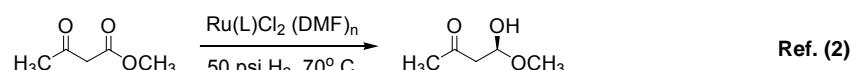
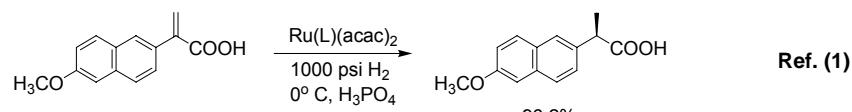
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Catalog # 15-5201 (S)-(-)-2,2',6,6'-Tetramethoxy-4,4'-bis(diphenylphosphino)-3,3'-bipyridine, min. 95%
CTH-(S)-P-Phos

Note: Sold in collaboration with Johnson Matthey for research purposes only. US patent Application No US Patent 5 886 182, 1999 and patents arising therefrom.

Technical Note:

1. New class of highly effective chiral dipyridylphosphine ligands used in the asymmetric hydrogenation of 2-arylacrylic acids, β -ketoesters, and aryl ketones.



References:

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2. *J. Org. Chem.*, **2002**, *67*, 7908.
3. *Chem. Eur. J.*, **2011**, *17*, 14234
4. *Org. Lett.*, **2014**, *16*, 1944
5. *Org. Process Res. Dev.*, **2012**, *16*, 1296
6. *Org. Lett.*, **2011**, *13*, 1754.
7. *Tetrahedron Lett.*, **2003**, *44*, 6505.