## Strem Chemicals, Inc.

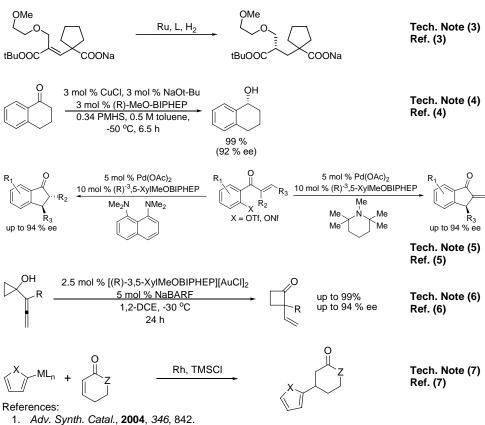
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Catalog # 15-0489 (S)-(-)-2,2'-Bis[di(3,5-xylyl)phosphino]-6,6'-dimethoxy-1,1'-biphenyl, min. 97%

Note: Sold in collaboration with Solvias for research purposes only. Solvias (S)-MeO-BIPHEP Ligand Kit component.

In many respects the catalytic profile of the MeOBIPHEP ligands is similar to that of other atropisomeric diphosphines such as binap and its many analogs. The nature of the PR2 group strongly influences the catalytic performance of the metal complexes. The rhodium and ruthenium MeO-BIPHEP catalysts are highly effective for the hydrogenation of various C=O, C=C and C=N bonds and several synthetically useful C-C coupling reactions.

- See <u>15-0042</u>
- Ru and Ir catalyzed dynamic kinetic resolution for the synthesis of hydroxy, amino acid 2. derivatives.
- Ru-catalyzed asymmetric hydrogenation of ketones and alkenes.
- Enantioselective copper-catalyzed asymmetric hydrosilylation of aryl ketones.
- 5. Synthesis of chiral 3-substituted indanones via an enantioselective reductive-Heck reaction.
- Gold(I)-catalyzed enantioselective ring expansion of allenylcyclopropanols.
- Conjugate addition using 2-heteroaryl titanates and zinc reagents.



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- 3. Org. Process Res. Devel., 2001, 5, 438.
- 4. J. Am. Chem. Soc., 2001, 123, 12917.
- 5. J. Org. Chem., 2007, 72, 9253.
- 6. J. Am. Chem. Soc., 2009, 131, 9178.
- 7. Org. Lett., 2009, 11, 4200.