Strem Chemicals, Inc.

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Catalog # 15-0488 (R)-(+)-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 (R)-MeO-BIPHEP Ligand Kit component.

Technical Notes:

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.

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

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