Strem Chemicals, Inc.

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Catalog # 15-0341

(S)-(+)-3,3'-Bis(triphenylsilyl)-1,1'-binaphthyl-2,2'-diyl hydrogen phosphate, min. 98% [(S)-TiPSY]

Technical Notes:

- Friedel-Crafts Reaction: Catalyst for the highly enantioselective Friedel-Crafts reactions of indoles with imines.
- 2. Catalyst used in the highly enantioselective Friedel-Crafts reaction of pyrrole derivatives with N-acyl imines.
- 3. **Transfer Hydrogenation:** Chiral phosphoric acid catalyzed enantioselective transfer hydrogenation of hydroxylactams to provide enantioenriched tetrahydro-β-carbolines in dioxane at room temperature (up to 94% yield, 90% ee).
- 4. **Multicomponent Reaction:** Catalyzed by $[Rh_2(OAc)_4]$ and a chiral phosphoric acid, an enantioselective symmetric three-component reaction of diazo compounds with imines and water is reported to give β -amino- α -hydroxy acid derivatives.

References:

- 1. J. Am. Chem. Soc., 2007, 129, 1484-1485.
- 2. Org. Lett., 2007, 9, 4065-4068.
- 3. Org. Lett., 2013, 15, 2688-2691.
- 4. ChemCatChem, 2011, 3, 653-656.