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Catalog # 26-1268 (R,S(p), R(SPO)-1-Phenylphosphinoyl)-2-[1-(di-t-butylphosphino)ethyl]ferrocene, min. 97% JoSPOphos

R = FG-aryl, naphthyl, FG-alkenyl, alkyl R^1 , R^2 , $R^3 = FG$, alkyl, (het)aryl

Technical Notes:

- 1. Chiral mixed secondary phosphine-oxide—phosphines: High-performing and easily accessible ligands for asymmetric hydrogenation.
- 2. Cobalt precursors for high-throughput discovery of base metal asymmetric alkene hydrogenation catalysts.
- 3. Regioconvergent and enantioselective rhodium-catalyzed hydroamination of internal and terminal alkynes: A highly flexible access to chiral pyrazoles.
- 4. Ligand for Ru-catalyzed Asymmetric Hydrogenation of Tetrasubstituted Acrylates.

$$CO_{2}Me$$

$$CO_{2}Et$$

$$R + CO_{2}Et$$

$$R + CO_{2}R$$

$$R + NOte (1)$$

$$Ref. (1)$$

$$Ref. (2)$$

$$Ref. (2)$$

$$Ref. (2)$$

$$Ref. (3)$$

$$Ref. (3)$$

References:

- 1. Angew. Chem. Int. Ed., 2010, 49, 6873.
- 2. Science, 2013, 342, 1076.
- 3. Chem. Eur. J., 2016, 22, 6547.
- 4. J. Org. Chem. 2016, 81, 824-830.