

Catalog #15-5157 (11aS)-(-)-10,11,12,13-Tetrahydroindeno[7,1-de:1',7'-fg][1,3,2]dioxaphosphocin-5-phenoxy, min. 98% (S)-ShiP

Note: Spiro Monophosphite and Monophosphoramidite Ligand Kit component.

Technical Notes:

1. Ligand used in the enantioselective rhodium-catalyzed addition of arylboronic acids to aldehydes.
2. Ligand used in the palladium-catalyzed asymmetric hydrovinylation under mild conditions.
3. Ligand used in the highly regioselective, asymmetric copper-catalyzed allylic alkylation with dialkylzincs.

References:

1. *Org. Lett.*, **2006**, *8*, 1479.
2. *Org. Lett.*, **2006**, *8*, 2567.
3. *Tetrahedron: Asymmetry*, **2005**, *16*, 705.
4. *Tetrahedron: Asymmetry*, **2003**, *14*, 3867.