Strem Chemicals, Inc.

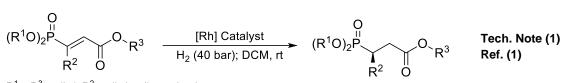
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Catalog # 26-1101 (S)-(+)-1-[(R)-2-(Dicyclohexylphosphino)ferrocenyl]ethyldiphenylphosphine, min. 97%

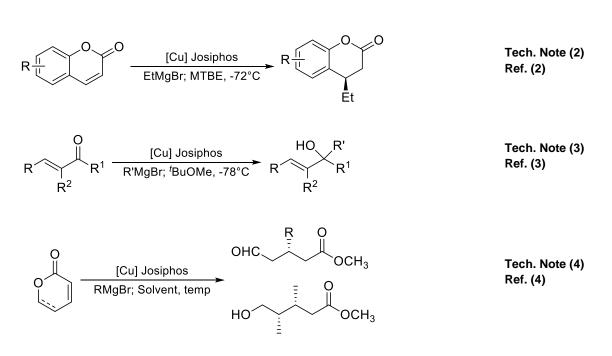
$$\begin{array}{c} Cy_2 P \\ Me^{(1)} \\ H \end{array} \begin{array}{c} Fe \\ Fe \end{array} PCy_2 \end{array}$$

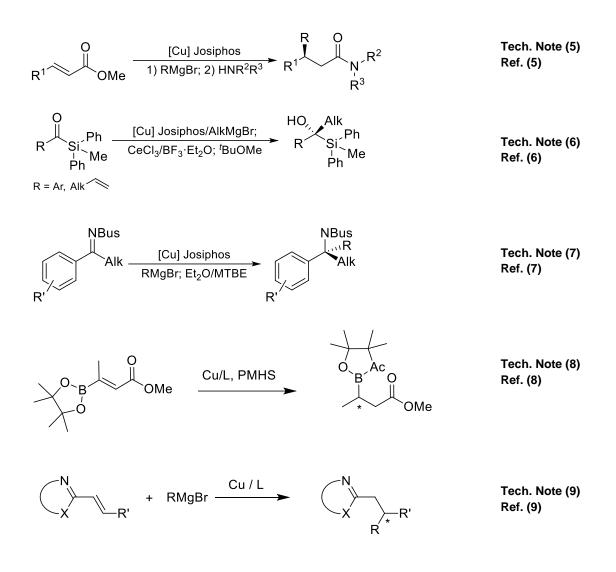
Technical Notes:

- 1. Asymmetric hydrogenation of α , β -unsaturated ester-phosphonates.
- 2. Catalytic asymmetric conjugate addition of Grignard reagents to coumarins—synthesis of versatile chiral building blocks.
- Copper(I) catalyzed asymmetric 1,2-addition of Grignard reagents to a-methyl substituted α,β-unsaturated ketones.
- 4. Asymmetric conjugate addition of Grignard reagents to pyranones.
- 5. Chiral amides via copper-catalysed enantioselective conjugate addition.
- 6. Catalytic asymmetric alkylation of acylsilanes.
- 7. Copper-Catalyzed enantioselective alkylation of enolizable.
- 8. Ligand for Cu-catalyzed Asymmetric Conjugate Reduction of β-Boronyl-β-alkyl enoates.
- Ligand for Cu-catalyzed Asymmetric Addition of Grignard Reagents to Alkenyl-substituted Aromatic N-Heterocycles.



 $R^1 = R^3 = alkyl; R^2 = alkyl or (hetero)aryl$





References:

- 1. Adv. Synth. Catal., 2009, 351, 1423.
- 2. Chem. Commun., 2011, 47, 2679.
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- 5. Org. Biomol. Chem., 2014, 12, 36.
- 6. Angew. Chem. Int. Ed., 2015, 54, 3038.
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- 9. Science, 2016, 352, 6284, 433 437.