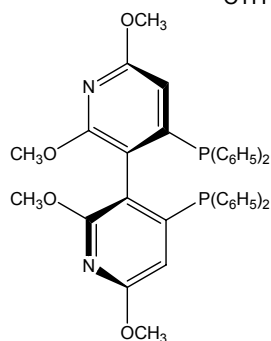


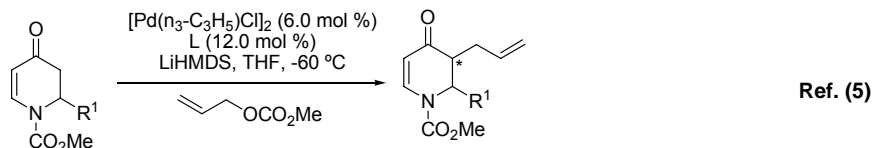
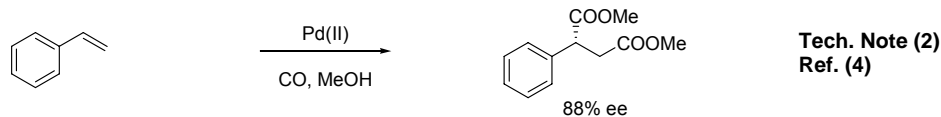
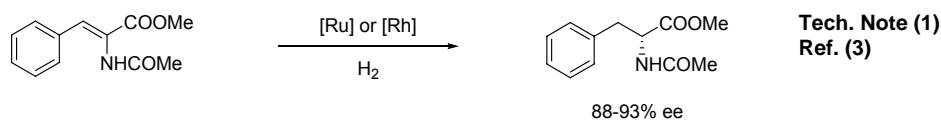
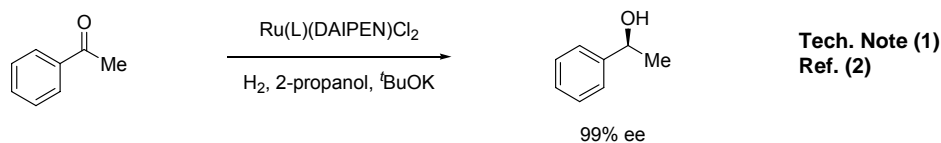
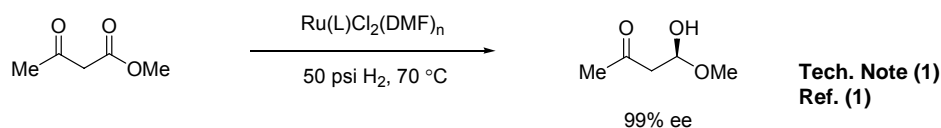
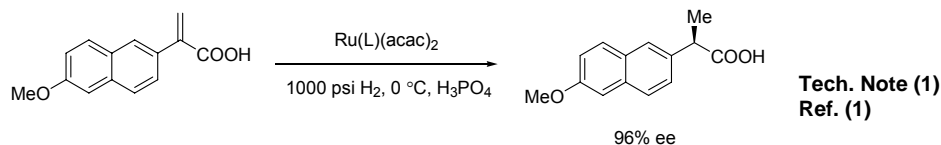
Catalog # 15-5200 (R)-(+)-2,2',6,6'-Tetramethoxy-4,4'-bis(diphenylphosphino)-3,3'-bipyridine, min. 95% CTH-(R)-P-Phos



Note: Sold in collaboration with Johnson Matthey for research purposes only. US patent Application No US Patent 5 886 182, 1999 and patents arising therefrom.

Technical Notes:

1. New class of highly effective chiral dipyridylphosphine ligands used in the asymmetric hydrogenation of 2-arylacrylic acids, β -ketoesters, aryl ketones, and α -dehydroamino acids.
2. Ligand used in the Pd-catalyzed asymmetric bis-alkoxycarbonylation of styrene.



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