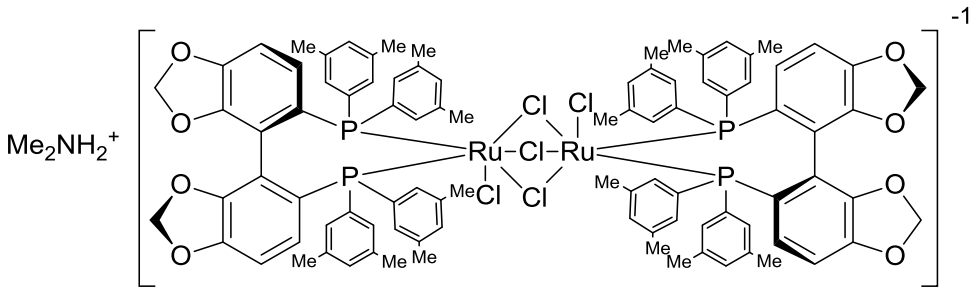
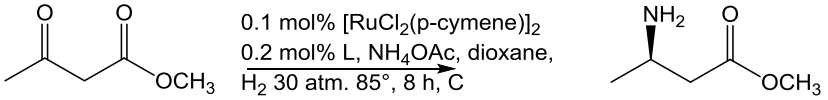
Catalog # D282716 Dimethylammonium dichlorotri(mu-chloro)bis{(R)-(+)-5,5'-bis[di(3,5-xylyl)phosphino]-4,4'-bi-1,3-benzodioxole}diruthenate(II) $[NH_2Me_2][\{RuCl((R)\text{-dm-segphos®})\}_2(\mu\text{-}Cl)_3]$



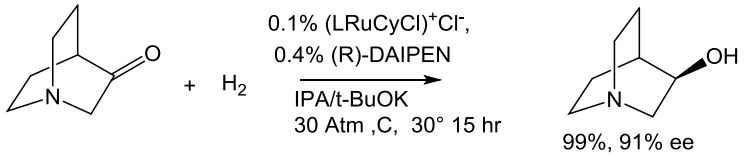
Note: Sold in collaboration with Takasago. Takasago SEGPHOS® Catalyst Kit component.

Technical Notes:

1. Biaryl bisphosphine ligand with narrow dihedral angle. The DM-SEGPHOS® ligand, as the ruthenium complex, gives superior enantioselectivity and diastereoselectivity in the asymmetric hydrogenation of α-substituted-β-ketoesters.
2. Ruthenium catalyzed enantioselective synthesis of β amino acids by hydrogenation.
3. Ruthenium catalyzed asymmetric hydrogenation of 3-quinuclidinone.



Tech. Note (2)
Ref. (1)



Tech. Note (3)
Ref. (2)

References:

1. *U.S. Pat.* ***7626034***.
2. *U.S. Pat 7462722*.