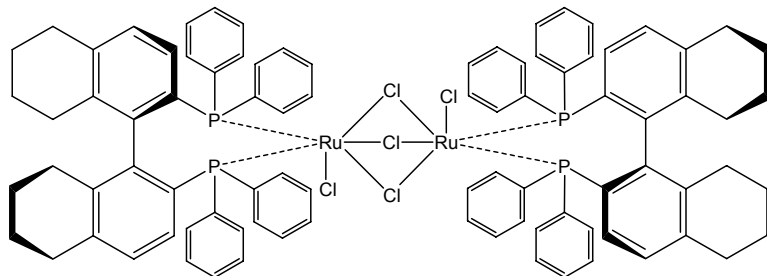


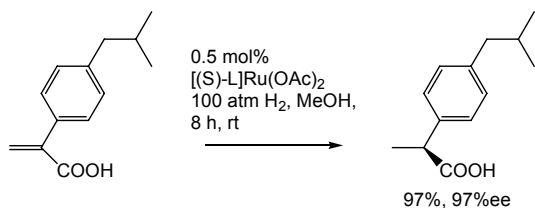
Catalog # 44-0516 Dimethylammonium dichlorotri(μ-chloro)bis[(R)-(+)-2,2'-bis(diphenylphosphino)-5,5',6,6',7,7',8,8'-octahydro-1,1'-binaphthyl]diruthenate(II) $[\text{NH}_2\text{Me}_2][\{\text{RuCl}(\text{R})\text{-H}_8\text{-binap}\}_2(\mu\text{-Cl})_3]$



Note: Manufactured under license of Takasago patent. Takasago BINAP Ru Dimer Catalyst Kit component.

Technical Notes:

1. Biaryl bisphosphine ligand. The H₈-BINAP ligand, as the ruthenium complex, catalyzes hydrogenation of unsaturated carboxylic acids to a higher ee than does BINAP. (Ref. 1,2)
2. The ruthenium catalyzed hydrogenation of aryl propenoic acid to produce the drug Ibuprofen.



Tech. Note (1,2)
Ref. (1,2)

References:

1. *J. Org. Chem.*, **1996**, *61*, 5510.
2. *Topics Organometal. Chem.* **2004**, *6*, 63 (review).