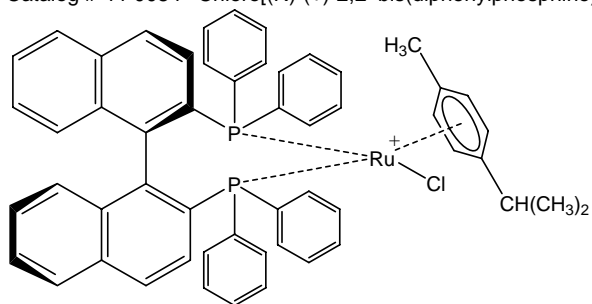


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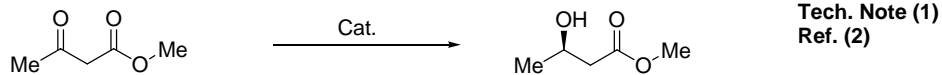
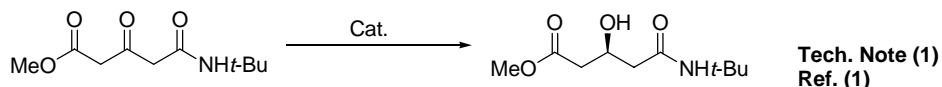
Catalog # 44-0084 Chloro[(R)-(+)-2,2'-bis(diphenylphosphino)-1,1'-binaphthyl](p-cymene)ruthenium(II) chloride



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

Technical Note:

1. This catalyst has shown to effect the highly enantioselective hydrogenation of functionalized ketones where the substituents are dialkylamino, hydroxy, siloxy, carbonyl, ester, amide or thioester.



References:

1. *Tetrahedron Lett.*, **2008**, 49, 4836.
2. *Appl. Catal. A.*, **2009**, 366, 160.