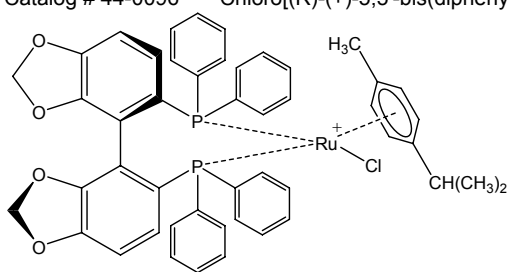


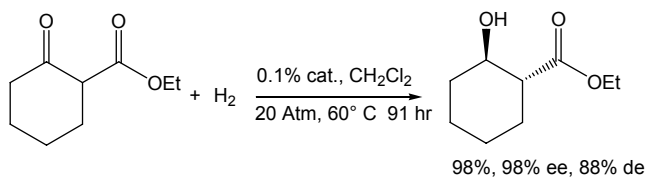
Catalog # 44-0096 Chloro[(R)-(+)-5,5'-bis(diphenylphosphino)-4,4'-bi-1,3-benzodioxole](p-cymene)ruthenium(II) chloride.



Note: Manufactured under license of Takasago patent. Takasago SEGPPOS Catalyst Kit component.

Technical Notes:

1. Highly active highly enantioselective catalyst for hydrogenation of functionalized ketones. Slightly higher temperature is necessary to activate the cymene complexes. See [15-0136](#).
2. Asymmetric hydrogenation of α -substituted- β -alkyl- β -ketoesters accompanied by dynamic kinetic resolution.

**Tech. Note (1)**
Ref. (1)

Reference:

1. *U.S. Pat.* 7038087.