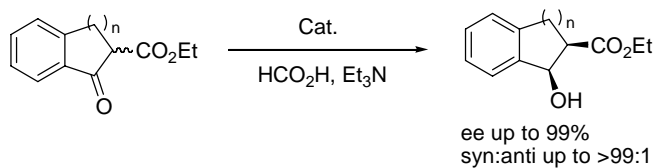
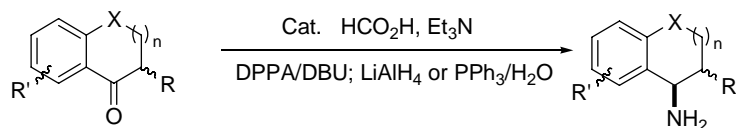
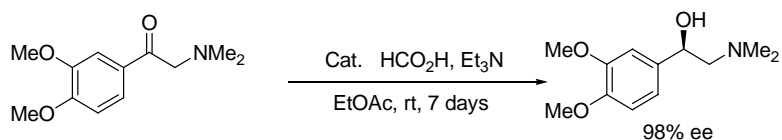
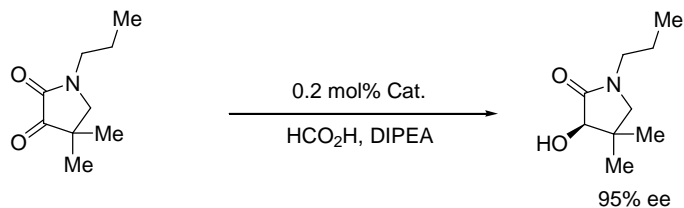
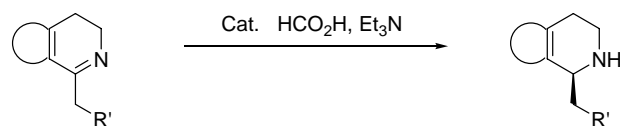


Catalog # 44-0149 Chloro{[(1S,2S)-(-)-2-amino-1,2-diphenylethyl](4-toluenesulfonyl)amido}(p-cymene)ruthenium(II)

Note: Manufactured under license of Takasago patent US7129367B2.

## Technical Note:

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

Tech. Note (1)  
Ref. (1)Tech. Note (1)  
Ref. (2)n = 0,1; R = alkyl, F, OAc; X = CH<sub>2</sub>, OTech. Note (1)  
Ref. (3)Tech. Note (1)  
Ref. (4-6)Tech. Note (1)  
Ref. (7,8)

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