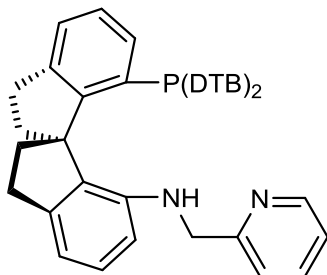
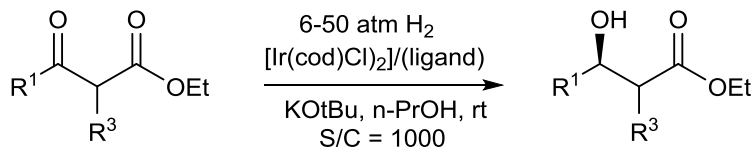


Catalog # 15-5167 (S)-(-)-7-Bis(3,5-di-*t*-butylphenyl)phosphino-7'-[(pyridine-2-ylmethyl)amino]-2,2',3,3'-tetrahydro-1,1'-spirobiindane, min. 98% (>99% ee) (R)-DTB-SpiroPAP



Technical Notes:

1. Iridium/ligand catalyst for the highly efficient, asymmetric hydrogenation of β -aryl and β -ketoesters.



R = Me, Et, *i*-Pr: R¹ = H, C₆H₅
 R², R³ = alkyl, aryl

Tech. Note (1)
Ref. (1)

90-98% yield
 97-99.7% ee
 TON up to 100000

Reference:

1. *Org. Lett.*, **2012**, *14*, 6158.