R. SHINTANI,* M. TAKEDA, Y.-T. SOH, T. ITO, T. HAYASHI* (KYOTO UNIVERSITY, JAPAN) Rhodium-Catalyzed Asymmetric Addition of Potassium Organotrifluoroborates to *N*-Sulfonyl Ketimines *Org. Lett.* **2011**, *13*, 2977-2979.

Rh-Catalyzed Asymmetric Addition of Trifluoroborates to Sulfonylketimines

Selected examples:

 $R^4 = Ar$, alkenyl

Typical deprotection of the addition products:

Significance: Easily accessible potassium organotrifluoroborates undergo a rhodium-catalyzed asymmetric addition to both *N*-tosyl and *N*-nosyl ketimines. The use of a chiral bicyclooctadienebased ligand allows high enantiomeric excess in the product formation.

Comment: In the case of nosyl groups, the addition products can easily be deprotected using thiophenolpotassium carbonate, retaining the enantiomeric purity. For related applications of dienic ligands, see: K. Okamoto, T. Hayashi, V. H. Rawal *Org. Lett.* **2008**, *10*, 4387.

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Category

Metal-Mediated Synthesis

Key words

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ketimines

