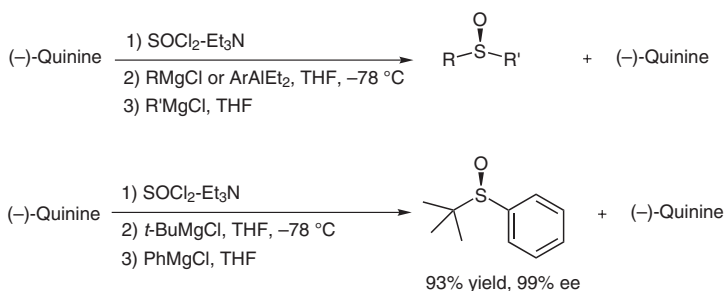


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New General Sulfinylating Process for Asymmetric Synthesis of Enantiopure Sulfinates and Sulfoxides

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A General Process for Synthesis of Enantiopure Sulfinates and Sulfoxides



Significance: Among various methods, developed for the synthesis of enantiopure sulfoxides, the use of naturally occurring quinine as a chiral auxiliary has a lot of advantages: all the reagents are easily available, cheap, the one-pot procedure is very simple to perform and the auxiliary can be readily recovered. The procedure gives in all reported cases practically enantiopure products.

Comment: In most syntheses of enantiopure sulfoxides from organometallic species, the enantioselectivity is based on the difference between two S-Y (Y = O or N) enantiotopic bonds. The originality of this approach relies on the formation of a *non-covalent* S-N bond as enantiotopic for an easily available quinine derivative, that allowed practically complete stereocontrol in the reaction with organometallic reagents.

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