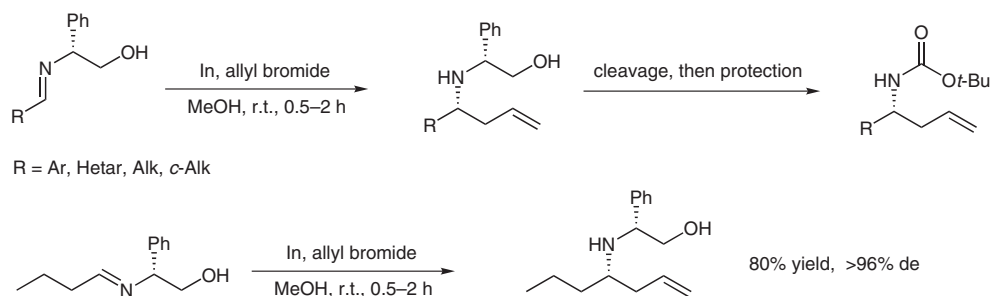


T. VILAYVAN,* C. WINOTAPAN, V. BANPHAVICHIT, T. SHINADA, Y. OHFUNE
(CHULALONGKORN UNIVERSITY, THAILAND; OSAKA CITY UNIVERSITY, JAPAN)

Indium-Mediated Asymmetric Barbier-Type Allylation of Aldimines in Alcoholic Solvents: Synthesis of Optically Active Homoallylic Amines

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Indium-Mediated Asymmetric Allylation of Aldimines in Methanol



Significance: The synthesis of chiral homoallylic amines was easily performed in methanol as a solvent under very mild conditions, thus tolerating a number of functional groups. The reagents and auxiliary used are cheap, and the products can be further transformed into various optically pure products.

Comment: This is probably the simplest route to optically pure homoallylamines from aldehydes. The chiral auxiliary is commercially available and can be removed from the products by a number of ways. Homoallylic amines may serve as intermediates for the synthesis of some important classes of products, therefore such a mild and facile method of their synthesis has been highly desirable.

SYNFACTS Contributors: Paul Knochel, Andrei Gavryushin
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