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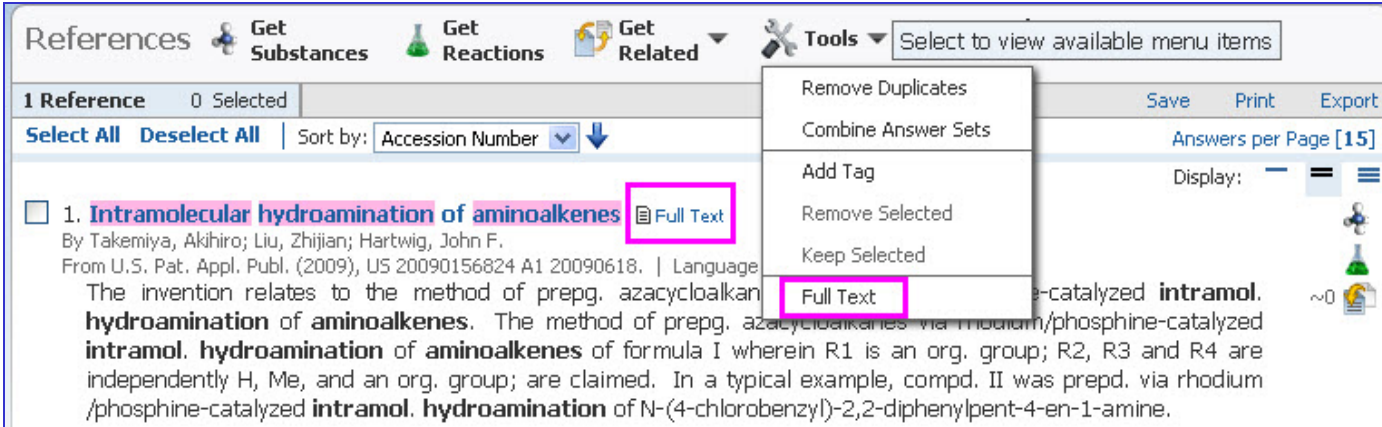
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
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
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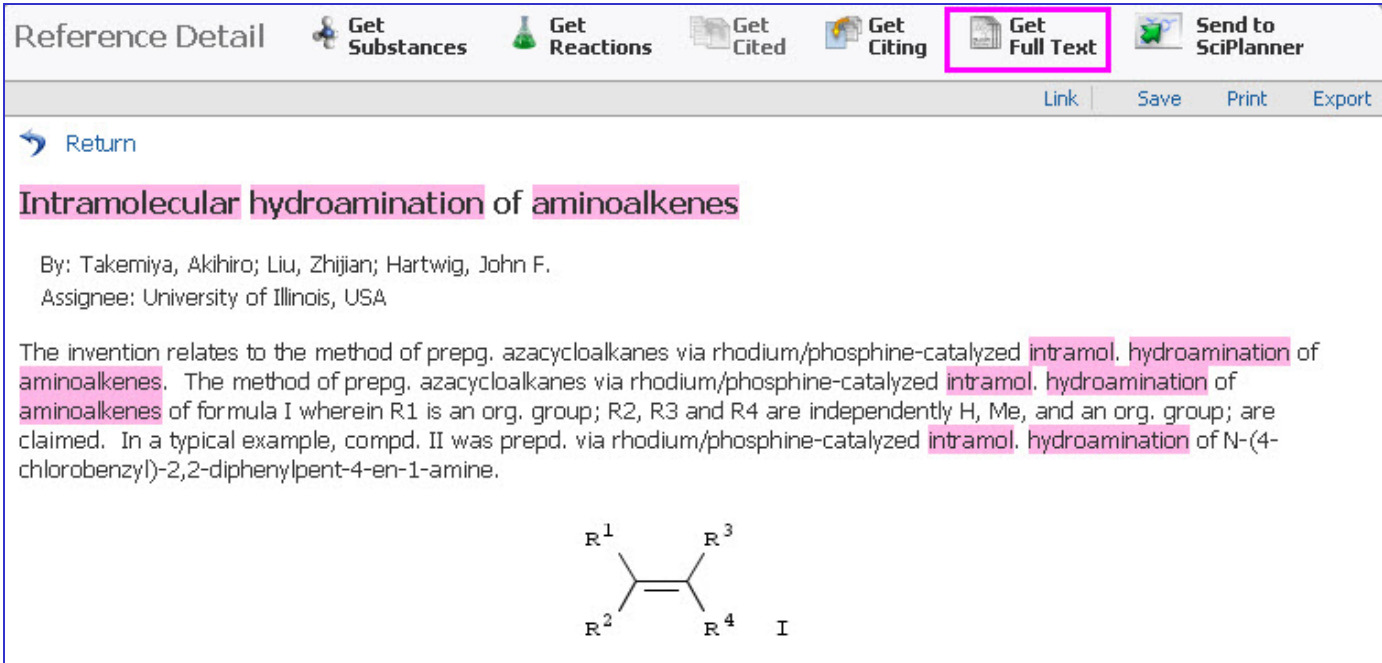
1. **Intramolecular hydroamination of aminoalkenes**  Full Text







By Takemiya, Akihiro; Liu, Zhijian; Hartwig, John F.  
From U.S. Pat. Appl. Publ. (2009), US 20090156824 A1 20090618. | Language

The invention relates to the method of prepg. azacycloalkanes via rhodium/phosphine-catalyzed **intramol. hydroamination of aminoalkenes**. The method of prepg. azacycloalkanes via rhodium/phosphine-catalyzed **intramol. hydroamination of aminoalkenes** of formula I wherein R1 is an org. group; R2, R3 and R4 are independently H, Me, and an org. group; are claimed. In a typical example, compd. II was prepd. via rhodium/phosphine-catalyzed **intramol. hydroamination of N-(4-chlorobenzyl)-2,2-diphenylpent-4-en-1-amine**.


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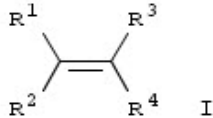
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**Intramolecular hydroamination of aminoalkenes**

By: Takemiya, Akihiro; Liu, Zhijian; Hartwig, John F.  
Assignee: University of Illinois, USA

The invention relates to the method of prepg. azacycloalkanes via rhodium/phosphine-catalyzed **intramol. hydroamination of aminoalkenes**. The method of prepg. azacycloalkanes via rhodium/phosphine-catalyzed **intramol. hydroamination of aminoalkenes** of formula I wherein R1 is an org. group; R2, R3 and R4 are independently H, Me, and an org. group; are claimed. In a typical example, compd. II was prepd. via rhodium/phosphine-catalyzed **intramol. hydroamination of N-(4-chlorobenzyl)-2,2-diphenylpent-4-en-1-amine**.



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## Bibliographic data: US 2009156824 (A1)

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### Hydroamination of Alkenes

**Page bookmark** [US 2009156824 \(A1\) - Hydroamination of Alkenes](#)

**Publication date:** 2009-06-18

**Inventor(s):** TAKEMIYA AKIHIRO [JP]; LIU ZHIJIAN [US]; HARTWIG JOHN F [US] ±

**Applicant(s):** UNIV ILLINOIS [US] ±

**Classification:** - **international:** [B01J31/02](#); [C07C209/60](#); [C07D209/54](#); [C07D211/06](#); [C07D295/02](#)

- **European:** [B01J31/18B](#); [B01J31/24B](#); [B01J31/24B2](#); [B01J31/24B6B2](#); [C07C209/60](#); [C07D207/06](#); [C07D207/09](#); [C07D207/12](#); [C07D209/96](#); [C07D211/12](#); [C07D211/14](#)

**Application number:** US20080251062 20081014

**Priority number(s):** US20080251062 20081014; US20070979652P 20071012

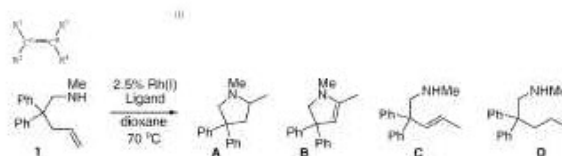
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### Abstract of US 2009156824 (A1)

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A method includes reacting an amino group, a composition including rhodium and an organic ligand, and a substrate having structural formula (I) in a reaction mixture. R1 is an organic group including a sp<sup>3</sup> carbon atom bonded to CA. R2 is selected from the group consisting of hydrogen, methyl, and an organic group including a sp<sup>3</sup> carbon atom bonded to CA. R3 and R4 independently are selected from the group consisting of hydrogen, methyl, and an organic group including a sp<sup>3</sup> carbon atom bonded to CB. The method further includes forming a hydroaminated product in the reaction mixture.



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