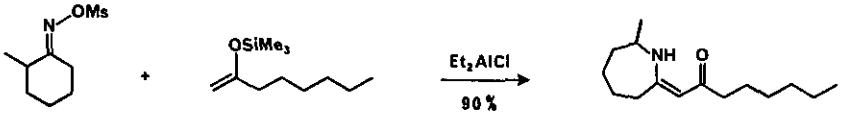
# A NEW CONDENSATION OF ENOL SILYL ETHERS WITH OXIME SULFONATES

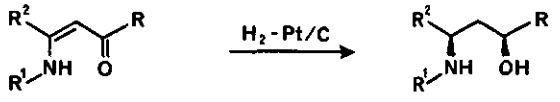
Keiji Maruoka, Yasushi Matsumura, Junya Fujiwara, and Hisashi Yamamoto

Department of Applied Chemistry, Nagoya University
Chikusa, Nagoya 464, Japan

A new method for the synthesis of enaminones will be presented which involves a condensation of enol silyl ethers with oxime sulfonates in the presence of organoaluminum reagents. This transformation is accomplished in a regiospecific manner with respect to both substrates. Of all the Lewis acids examined diethylaluminum chloride and ethylaluminum dichloride (2~3 equiv) have proven to be the most efficacious, and other Lewis acids give less satisfactory results.




The versatility of enaminones in synthetic as well as heterocyclic chemistry serves a stimurus for exploration of the potential applications of this methodology. Accordingly, we will demonstrate a new stereoselective approach to γ-amino alcohols by a direct hydrogenation of the enaminones. Thus, the selective hydrogenation of the enaminone 1 leads to the formation of the γ-amino alcohol 2 almost exclusively.




1 2