Alcohols
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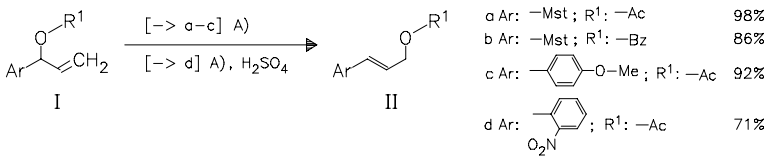
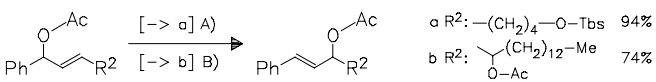
Silica Gel Mediated Rearrangement of Allylic Acetates. Application to the Synthesis of 1,3-Enynes. — The rearrangement of secondary allylic alcohols such as (I), (III) and (V) bearing propargylic or aromatic substituents to their most stable regioisomers is reported. The driving force of this process is the formation of the most stable conjugated allylic acetates. The use of silica gel as promoter makes the reaction easy to perform, cheap and environmentally benign. The transformation of propargylic allylic acetates (V) allows a simple and metal-free access to 1,3-enynes (VI). — (SERRA-MUNS, A.; GUERINOT, A.; REYMOND, S.; COSSY*, J.; Chem. Commun. (Cambridge) 46 (2010) 23, 4178-4180, DOI:10.1039/c0cc00035c ; Lab. Chim. Org., CNRS, Ec. Super. Phys. Chim. Ind., F-75231 Paris, Fr.; Eng.) — M. Paetzel



A): microwaves, silica, CH_2Cl_2, 80°C, [10–25 min, sealed vial]



B): microwaves, silica, DCE, 120°C, [30 min, sealed vial]