

# Ultrasound-Promoted Reduction of Conjugated Enones, $\alpha$ -Diketones and Acyloins with $\text{NaBH}_4$ under Aprotic Condition

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A variety of conjugated enones are reduced regioselectively to their corresponding allylic alcohols with  $\text{NaBH}_4$  under ultrasound irradiation. Reduction reactions were performed in THF at room temperature and the product alcohols were obtained in high to excellent yields. This system is also efficient for the reduction of  $\alpha$ -diketones and acyloins to vicinal diols.

*Key words:* Ultrasound, Borohydride Reduction, Conjugated Enones,  $\alpha$ -Diketones, Acyloins