

Reduction of Carbonyl Compounds with NaBH₄ under Ultrasound Irradiation and Aprotic Condition

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A variety of carbonyl compounds are reduced to their corresponding alcohols with sodium borohydride under ultrasound irradiation and aprotic condition. Reduction reactions are performed in THF at room temperature or under reflux condition. The product alcohols were obtained in good to excellent yields. The chemoselective reduction of aldehydes over ketones was achieved successfully with this system.

Key words: Reduction, Sodium borohydride, Ultrasound, Carbonyl Compounds