

NaBH₄/NaHSO₄·H₂O a Heterogeneous Acidic System for a Mild and Convenient Reduction of Carbonyl Compounds under Protic Condition

Behzad Zeynizadeh and Tarifeh Behyar

Department of Chemistry, Faculty of Sciences, Urmia University, Urmia 57159-165, Iran

Reprint requests to Prof. B. Zeynizadeh. E-mail: b.zeynizadeh@mail.urmia.ac.ir

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NaBH₄ in the presence of sodium bisulfate (NaHSO₄·H₂O), a weakly acidic reagent, efficiently reduces a variety of carbonyl compounds such as aldehydes, ketones, α , β -unsaturated aldehydes and ketones, α -diketones and acyloins to their corresponding alcohols in acetonitrile under heterogeneous condition. Reduction reactions were accomplished at room temperature or under reflux condition.

Key words: Borohydride Reduction, Sodium Bisulfate, Carbonyl Compounds