Titanyl Acetylacetonate as an Efficient Catalyst for a Mild and Convenient Reduction of Carbonyl Compounds with NaBH₄ under Aprotic Condition

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Titanyl acetylacetonate, TiO(acac)₂, is used as an efficient catalyst for the reduction of carbonyl compounds with sodium borohydride under aprotic condition. Reduction reactions are performed in CH₃CN and THF. The corresponding alcohols are obtained in high to excellent yields and the chemoselective reduction of aldehydes over ketones is achieved successfully.

*Key words: *Titanyl Acetylacetonate, Carbonyl Compounds, Borohydride Reduction