



One Pot Synthesis of Amides from Ketones And Hydroxylamine Hydrochloride Using P-Toluenesulphonic Acid Over CTAB Under Microwave Irradiation

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ABSTRACT

One pot synthesis of amides from variously substituted ketones and hydroxylamine hydrochloride has been carried out in an aqueous medium under microwave irradiation upon treatment with p-toluenesulphonic acid monohydrate (TsOH.H₂O) over phase transfer catalysts N-cetyl-N,N,N-trimethylammonium bromide (CTAB) in 54-60% yield. This catalytic system has been proved to be very efficient for the preparation of amides from ketones in good yield.

Keywords: Amides; Ketones; P-Toluenesulphonic Acid Monohydrate, CTAB, MW.
