



Polyethylene glycol (PEG 400): A recyclable Catalyst system for the Synthesis and characterization of some 2-acetyl-5-methyl furan chalcones

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ABSTRACT

In an effort to develop, a series of chalcones were prepared by Claisen-Schmidt condensation. In the present study some new chalcones (a-h) have been synthesized by the reaction of 2-acetyl-5-methyl furan with different aromatic aldehydes in the presence of aqueous solution of sodium hydroxide, ethanol and PEG 400 used as a catalyst at room temperature. The structures of the various synthesized compounds are assigned on the basis of elemental analysis, IR, ¹HNMR and mass spectral data.

Keywords: Chalcones, 2-acetyl-5-methyl furan, Aromatic aldehydes, Aqueous NaOH, PEG 400.
