

SYNTHESIS AND CHARACTERIZATION OF SOME NOVEL [5, 6]-DIHYDROPYRIMIDINE AND [4, 5]-DIHYDROISOXAZOL DERIVATIVES

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ABSTRACT

In this paper, some chalcone derivatives (C1 , C2) were synthesized based on the reaction of equal amount of substituted acetophenone and substituted benzaldehyde in basic medium. Dihydropyrimidin derivatives were prepared from the reaction of chalcone derivatives with urea and thiourea respectively in a basic medium. Dihydroisoxazol derivatives were prepared based on the reaction of chalcones with hydroxyl amine hydrochloride in the presence of sodium hydroxide as a catalyst. The novel compounds were characterized using various physical techniques like ¹H-NMR and FT-IR spectra.

KEYWORDS: Chalcone, Isoxazol, Pyrimidin, Characterization