

SYNTHESIS AND CHARACTERIZATION OF NEW DERIVATIVES OF 1H-2, 3-DISUBSTITUTED-[1, 2-e] [1, 3]-BENZODIAZEPINE-4, 7-DIONE

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ABSTRACT

The one-step polar nucleophilic (2+5=7) polar cycloaddition→ reaction of phthalimide with Schiff bases derived from heterocyclic amines and heterocyclic aldehydes or ketones in dry tetrahydrofuran (THF) gave 1H-2,3-disubstituted-[1,2-e][1,3]-benzodiazepine-4,7-diones in good yields. The products were identified by their melting points, UV, FT-IR and ¹HNMR spectra.

KEYWORDS: Benzodiazepine-4, 7-Dione, Phthalimide, Schiff Bases, Synthesis