

SYNTHESIS AND CHARACTERIZATION OF SOME NEW MONO AND BIS CYCLIC AZETIDIN-2-ONES

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ABSTRACT

This study is concerned with the synthesis and characterization the 3-methoxy/3,3-dithio dipropyl mono and bicyclic azetidin-2-ones **3 (a-d)**. These compounds **3 (a,b)** were prepared by reacting methoxyacetyl chloride with the appropriate imines **2(a,b)** in the presence of triethylamine in dry dichloromethane under nitrogen atmosphere at -10°C and the compounds **3 (c,d)** were prepared by reacting 3,3'-dithio dipropanoic acid with the appropriate Schiff's base **2 (c,d)** in the presence of triethylamine with phosphorusoxychloride in dry dichloromethane under nitrogen atmosphere at -10°C . The active acid chloride reacts with triethylamine to generate corresponding ketene in situ which further reacts with Schiff's base to furnish corresponding 3-methoxy/3,3-dithio dipropyl mono and bicyclic azetidin-2-ones **3 (a-d)**.

KEYWORDS: Characterization, Heterocyclic Compounds



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