

43. Efficient Microwave-assisted Synthesis and Characterization of Thiazines derivatives

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ABSTRACT

A convenient microwave irradiation method for the synthesis of Cyclohexanone on Claisen-Schmidt condensation and Aldol condensation with various aromatic aldehydes in presence of dilute Sodium hydroxide affords the corresponding 2,6-diarylidene cyclohexanones (1). Further, these compounds (1) were subjected to cyclocondensation with thiourea, catalyzed by aqueous potassium hydroxide to form 4-aryl-8-arylidene-2-imino-5,6-dihydro-4H,7H-(3,1) benzothiazines (2). The structures of synthesized compounds were characterized by their spectral studies.

Keywords: Green chemistry approaches Synthesis, Benzothiazines.