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Green Synthesis of Chalcones under microwave Irradiation

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Abstract: Green chemistry is also called sustainable chemistry, Microwave assisted organic synthesis which is an important tool for heating in the organic synthetic reaction[1,2]. Microwaves act as high frequency electric fields and will generally heat any material containing mobile electric charges, such as polar molecules in a solvent or conducting ions in a solid[3]. This technique offers simple, clean, fast, efficient, and economic method for the synthesis of a large number of organicmolecules. The chalcones and their derivatives are important intermediates in the synthesis of heterocyclic compounds which are of physiological importance. They possess a broad spectrum of biological activities viz antibacterial, antifungal, antitubercular, antitumor, antibetic[17].

Keywords: Microwave irradiation, Chalcone, Synthetic methods.

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