

Microwave-induced synthesis of aromatic heterocycles

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Abstrak

Heterocycles have played a crucial role in the biological and industrial development of society, becoming one of the most researched areas within organic chemistry.

The first chapter, is based on microwave theory, the latest developments in instrumentation technology, and the various microwave technologies used for synthesis. The remainder of the chapters are divided into two sections. Section A deals with the five-membered heterocycles (pyrazoles, isoxazoles, triazoles, oxadiazoles, thiazoles, imidazoles, oxazoles, oxazolines etc.) and in Section B, various six-membered heterocycles (triazines, benzoxazoles, benzimidazoles, benzothiazoles) are presented. Both sections contain a detailed, recent literature review of microwave assisted synthesis and its applicability to various aromatic heterocyclics.