



Synthesis and characterization of some new chlorosubstituted Δ^2 - pyrazoles under microwave irradiation

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Abstract: Heterocyclic system containing pyrazole ring and its derivative have attracted the attention of chemists on account of the significant medicinal properties associated with them. The proposed study deals with the synthesis and characterization of newly synthesized chlorosubstituted Δ^2 -pyrazoles under the microwave irradiation on micro-scale quantity. The short reaction times and expanded reaction range was offered by the microwave assisted synthesis to the chemists. The reaction of chromones and phenylhydrazine hydrochloride result in the formation of Pyrazoles.

The newly synthesized compounds were characterized on the basis of FTIR, H^1 NMR, Uv and Mass spectroscopic techniques.

Key Words: Chromanone, chromone, Pyrazole, H^1 NMR, FTIR, Uv and Mass spectra.

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