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An Efficient One-Pot synthesis of Thiazolidine-4-one Derivatives using MgF_2 Catalyst

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Abstract : A new preparative method was developed for synthesis of different thiazolidine-4-one derivatives by one-pot condensation of different aliphatic/aromatic amines, isothiocyanate and methyl bromoacetate using MgF_2 as catalyst. The newly synthetic method proved to be an easy, simple, economic and gave higher yield. All the synthesized derivative were characterized by using different analytical data IR, ¹HNMR, ¹³CNMR, mass spectrometry and elemental analysis.

Key-words : Thiazolidine-4-one, MgF_2 , one-pot reaction, isothiocyanate.

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