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Microwave assisted synthesis and antimicrobial activity of 3-chloro-4-methyl-1-(substituted phenyl)-4-(10H-phenothiazin-8-yl) azetidin-2-one

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Abstract : A new synthesis of 3-chloro-4-methyl-1-(substituted phenyl)-4-(10h-phenothiazin-8-yl) azetidin-2-one **(III a-h)** were synthesized by reacting different phenothiazine Schiffs bases **(IIa-h)** with 2-Chloroacetylchloride under microwave irradiation. The newly synthesized compounds were characterized by IR, 1H NMR, mass spectroscopy, elemental analysis and tested for their antibacterial and antifungal activity. Some compounds showed promising activities.

Key word : Synthesis, 2-Azetidinone; Phenothiazine; Chalcones; Antimicrobial activity.

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