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Synthesis and Antimicrobial activity of 1-(2-hydroxy-3,5-bis((3-imino-3H-1,2,4-dithiazol-5-yl)amino)phenyl)ethanone

A.K. Wanjari

Department of Chemistry, Mahatma Fule Art's, Commerce and Sitaramji Chaudhari
Science College, Warud, Amravati University, MH, India

Abstract : Heterocyclic compounds are used as a building block with a wide application in pharmaceutical industry, medicinal and drug research. This research paper explore the synthesis and antimicrobial activity of 1-(2-hydroxy-3,5-bis((3-imino-3H-1,2,4-dithiazol-5-yl)amino)phenyl) ethanone. The synthesis of 1-(2-hydroxy-3,5-bis((3-imino-3H-1,2,4-dithiazol-5-yl)amino)phenyl) ethanone carried out by using 4-chlorophenol as a starting material which is well knows as a active pharmaceutical ingredients. The synthesised compound tested for the gram positive and gram negative bacteria. The identification of the synthesized compound has been done by using chemical characterization and spectral data.

Keywords : -chlorophenol, thiourea, isothiocynates, 4-chloroacetate, 1-(2-hydroxy-3,5-bis((3-imino-3H-1,2,4-dithiazol-5-yl)amino)phenyl)ethanone.

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