

# Synthesis and Characterization of Some New S-Alkylated and Mannich Bases Carrying 2-Thioxoimidazolidin-4-one Moiety<sup>1</sup>

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**Abstract**—In the present study two new series of 4-[4-(3-hydroxypropoxy)-3-methoxybenzylidene]-1-(3-chlorophenyl)-2-(alkylthio)-1*H*-imidazol-5(4*H*)-ones and 5-[4-(3-hydroxypropoxy)-3-methoxybenzylidene]-3-cyclohexyl-1-(substituted aminomethyl)-2-thioxoimidazolidin-4-ones were synthesized by S-alkylation with some halogenated acyclic hydrocarbons and by a three-component Mannich reaction (MCR), respectively. Both S-alkylated 2-thiohydantoins and Mannich bases were characterized by IR, NMR, mass spectral data, and elemental analysis.

**Keywords:** 2-thioxoimidazolidin-4-one derivatives, Mannich bases

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