

Onepot Synthesis and Characterization of 2-Amino-5 (Substituted Phenyl) 1,3,4-Thiadiazole Based Tridentate Imines

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Abstract: 2-amino-5(substituted phenyl)1,3,4-thiadiazole is a heterocyclic nucleus was prepared in laboratory for synthesis of the novel ligands 3-sub.benzylidene-4(5-sub.aryl-[1, 3, 4] thiadiazole-2-ylimino) pentan-2-one, were synthesized by Knoevenagel condensation. The derived heterocyclic nucleus condensed with substituted aromatic/heterocyclic aldehyde and acetoacetone using solid supported catalyst. Synthesized Schiff base ligands were characterized by IR, ¹H NMR and Mass spectroscopy for their structural identification.

Keywords: Thiadiazole, Ligand, Synthesis, Characterization

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