

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

Reactions of N-Aminopyrimidine Derivatives with 1,3-Dicarbonyl Compounds

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Abstract: The reactions of 1-Amino-pyrimidine derivatives (1) and some 1,3-dicarbonyl compounds (2) were realized in the presence of p-toluensulfonic acid catalyst to give convenient enamine (3) and/or imine derivatives (4). In the same way, the enamine (5) and/or imine derivatives (6) were synthesized using (1) and 1,3-indanedione which is one of the different 1,3-dicarbonyl compounds. The molecular structures of all the prepared compounds were determined by $^1\text{H-nmr}$, $^{13}\text{C-nmr}$, i.r. spectra and elemental analyses, and were drawn by taking imine-enamine tautomerism into account.

Key Words: Enamine; Imine; 1,3-Diketone; Addition reaction



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Turk. J. Chem., **23**, (1999), 401-406.

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