

Reaction of 4-Hydroxy-6*H*-1,3-oxazin-6-ones with Guanidine. Synthesis of New 1,3,5-Triazine Derivatives

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Abstract—2-(2-Furyl)- and 2-(2-thienyl)-5-alkyl-4-hydroxy-6*H*-1,3-oxazin-6-ones react with guanidine in methanol in the presence of an equimolar amount of sodium methoxide to give previously unknown sodium 4-amino-6-hetaryl-1,3,5-triazin-2-ylacetates. The reactions of 2-(2-furyl)- and 2-(2-thienyl)-5-phenyl-4-hydroxy-6*H*-1,3-oxazin-6-ones with guanidine under analogous conditions are accompanied by decarboxylation, yielding 4-benzyl-6-hetaryl-1,3,5-triazin-2-amines. The corresponding decarboxylation products are also obtained by treatment of sodium 2-(4-amino-6-hetaryl-1,3,5-triazin-2-yl)propionates with aqueous HCl.

Keywords: 4-hydroxy-1,3-oxazin-6-one, guanidine, 1,3,5-triazin-2-ylacetic acid, 1,3,5-triazin-2-amine

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