

REACTIONS WITH PYRIDINETHIONE DERIVATIVES: SYNTHESIS AND CHARACTERIZATION OF THIENYL[2,3-b]PYRIDINE, PYRIDO[2',3':4,5] THIENO[2,3- b]PYRIDAZINE, PYRIDO[2',3':4,5] THIENO[2,3-b]- PYRIMIDINONE, PYRAZOLINO [3',4':4,5]THIENO[2,3- b]PYRIDINE AND AMINOPYRAZOLO[3,4- b]PYRIDINE DERIVATIVES

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Abstract

Thieno[2,3-b]pyridines **5a,b**, 2-S-methylacetyl pyridine derivative **7**, 2-S-methyldiaetyl pyridine derivative **7b**, 2-S-methylethoxycarbonyl pyridine derivative **12a**, 2-S-methylacetyloxyethylpyridine derivative **12** and 2-S-methyl pyridine derivative **28**, had been obtained via the reaction of pyridinethione **3** with phenacyl bromide derivatives, chloroacetone, -chloroacetylacetone, chloroethylacetone, -chloroethylacetoacetate and methyl iodide respectively.

Several cyclization reactions were performed with 10% KOH, nitrous acid, hydrazine hydrate, formic acid, acetic anhydride and acetic acid to give an additional ring on the previously obtained new ring system

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