

REACTIONS WITH CYANTHIOACETAMIDE DERIVATIVE: SYNTHESIS AND REACTIONS OF SOME THIENO[2,2-B]PYRIDINE, PYRIDOTHIENOPYRIDAZINE, PYRAZOLO[3,4-B]PYRIDINE AND PYRIDOPYRAZOLO-1,2,4-TRIAZINE DERIVATIVES

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Abstract

Thiocarboxamidocinnonihile derivatives 3a,b reacted with ethyl-benzoylacetate (4) to give pyridinethione derivatives 5a,b which were used as starting materials for synthesis of several hetero-cyclic compounds. Reactions with phenacyl bromides 6a,b, chloroacetone (8), -chloroacetylacetone and methyl iodide gave thieno[2,3-b]pyridines 7a-d. 2-S-methylacetylpyridine derivatives 9a,b 2-S-methyldiacetyl pyridine derivatives 11a,b and 2-S-methyl pyridine derivatives 14a,b respectively. Several cyclization reactions were performed with 10% KOH, nitrous acid and hydrazine hydrate to give an additional ring on 9a,b, 10a,b, 11a,b and 14a,b.

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