Oxothioxopyrimidinecarbonitriles As Precursors For Di- And Tricyclic Fused Pyrimidine Derivatives.

Abstract:

Different 6-aryl-5-cyano-4-oxo-2-thioxo-1,2,3,4-tetrahydropyrimidines were synthesized by a multicomponent condensation reaction involving ethylcyanoacetate, thiourea and aromatic aldehyde, namely benzaldehyde, 4-chlorobenzaldehyde, 4-methoxybenzaldehyde in refluxing ethanol containing potassium carbonate then alkylation reactions, utilizing different alkylating agents, took place and the products were reacted with different hydrazine hydrate derivatives in order to obtain the starting materials used to prepare the fused pyrimidine derivatives.