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Ethyl 5-oxo-3-arylamino-2,5-dihydroisoxazole-4- carboxylates as sources of imidazopyrimidine and aminoindole derivatives

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Abstract: The reaction of ethyl 5-oxo-3-arylamino-2,5-dihydroisoxazole-4- carboxylates with 2-chloropyrimidine and 2-chlorobenzoxazole gave the corresponding isoxazolones with pyrimidine and benzoxazole rings substituted on N-2. Their rearrangements with triethylamine in ethanol produced the corresponding imidazopyrimidine and aminoindole derivatives, respectively, through intramolecular cyclisation.



Key Words: Isoxazolones, 2-chloropyrimidine, 2-chlorobenzoxazole, rearrangements, imidazopyrimidines, aminoindoles

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