Synthesis and Alkylation of Pyrazolo[3,4-*c*]isoquinolines and Hexahydrocyclohepta[*d*]pyrazolo[3,4-*b*]pyridines

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Abstract—The condensation of 1-acyl-2-(morpholin-4-yl)cycloalkenes with 3-amino-1-phenyl-1*H*-pyrazol-5(4*H*)-ones gave the corresponding 2,3,6,7,8,9-hexahydropyrazolo[3,4-*c*]isoquinoline and 3,6,7,8,9,10-hexahydrocyclohepta[*d*]pyrazolo[3,4-*b*]pyridine derivatives. Alkylation of 2,3,6,7,8,9-hexahydropyrazolo[3,4-*c*]-isoquinolines with alkyl halides occurred at the nitrogen atom in the 3-position. The structure of 7-methyl-2,5-diphenyl-2,3,6,7,8,9-hexahydro-1*H*-pyrazolo[3,4-*c*]isoquinolin-1-one was proved by X-ray analysis.

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