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Research Details :

Research Title	: <u>NUCLEAR-MAGNETIC-RESONANCE SPECTROSCOPY AND THE STRUCTURES OF THE REGIOISOMERIC PRODUCTS OF THE CYCLOADDITION OF C-ETHOXYCARBONYL-N-ARYLNITRILIMINES TO ALPHA,BETA-UNSATURATED KETONES</u> <u>NUCLEAR-MAGNETIC-RESONANCE SPECTROSCOPY AND THE STRUCTURES OF THE REGIOISOMERIC PRODUCTS OF THE CYCLOADDITION OF C-ETHOXYCARBONYL-N-ARYLNITRILIMINES TO ALPHA,BETA-UNSATURATED KETONES</u>
Descriptipn	: H-1 NMR chemical shifts were used to assign the structures of the regioisomeric products obtained from the reactions of C-ethoxycarbonyl-N-arylnitrilimines 2A-E to alpha,beta-unsaturated ketones 3a-j. The assignments were based on the large observed difference between chemical shifts of the H-4 and H-5 of the 2-pyrazoline ring residue. Values of 1.29 +/- 0.06 and 0.34 +/- 0.03 ppm were found for DELTA-delta-4,5 for the 5-aroyl- and 4-aroyl-2-pyrazoline regioisomers 4 and 5, respectively. The regioselectivity in the studied cycloaddition reactions is interpreted in terms of FMO method.
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