

ELECTROPHILIC SUBSTITUTED REACTIONS OF 3,5-DISUBSTITUTEDPYRAZOLES

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Electrophilic reactions of 3,5-disubstitutedpyrazoles and 3-substituted-5-pyrazolones had not been studied much. 3-Alkoxy-5-methylpyrazoles reacted with acyl chlorides in the presence of triethylamine to give (1'-B). In the absence of triethylamine, however, this reaction gave only (1'-A) selectively. Reaction of 3-carbethoxy-5-pyrazolone (3) with equimolar amount of substituted benzoyl chloride gave (10). Reactions of 3-methyl-5-pyrazolone (2) and (3) with substituted isocyanate gave (7) and (12), respectively, which were identified by the fact that reactions (7) and (12) with sulfuryl chloride afforded the corresponding 4,4-dichloropyrazolones (8) and (13).

