

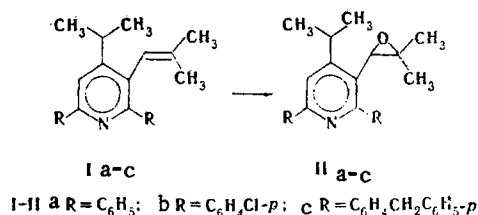
SYNTHESIS OF SUBSTITUTED EPOXYALKYLPYRIDINES

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We have established that 4-isopropyl-3-(2-methyl-1-propenyl)-2,6-diarylpyridines Ia-c are converted to epoxyalkylpyridines IIa-c in 12 h when they are treated with 82% m-chloroperbenzoic acid in methylene chloride at room temperature. N-Oxides are not formed under these conditions.

The following compounds were obtained [the melting points (solvent) and yields (%) are given]: IIa, 90°C (petroleum ether), 82; IIb, 152-153°C (benzene-petroleum ether), 76; IIc, 127-128°C (benzene-petroleum ether), 70.



PMR spectra (CCl₄): 1.34 [two s, 4-(CH₃)₂], 3.6 (m, 4-CH), 0.4 and 1.0 (two s, 3-(CH₃)₂), 4.05 (s, 3-CH), and 6.8-8.2 ppm (signals of the aromatic substituents and the proton of the pyridine ring). The mass spectra of IIa-c contain molecular-ion and fragment-ion peaks (M⁺ - 15, M⁺ - 42, M⁺ - 58, and M⁺ - 72) that confirm the presence of an epoxide fragment in the reaction products.

The results of elementary analysis for C, H, and N are in agreement with the calculated values.