

Synthesis of *N*-Allyl- and *N*-Acyl-2-vinylindoline

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Abstract—Heating a mixture of (2*R**,3*R**)- and (2*R**,3*S**)-2-[(1*S**)-1-iodoethyl]-3,5-dimethyl-1-[(2-nitrophenyl)sulfonyl]indolines with *N*-isopropylpiperidine in xylene resulted in (2*S**,3*R**)-3,5-dimethyl-1-[(2-nitrophenyl)sulfonyl]-2-vinylindoline. The latter reacted with thiophenol to afford (2*S**,3*R**)-3,5-dimethyl-2-vinylindoline, whose reaction with allyl halides or acetyl bromide gave rise to *N*-allyl-, *N*-propenyl-, or *N*-acetyl derivatives. Nitration of 1-acetyl-3,5-dimethyl-2-vinylindoline yielded *ortho*-nitro derivative.

Keywords: 2-vinylindoline, elimination, acylation

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