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Photochemical bromination of substituted indan-1-one derivatives: synthesis of new polybromoindan-1-one derivatives

Nermin Şimşek KUŞ

Department of Chemistry, Mersin University, 33343 Mersin-TURKEY

e-mail: simner@mersin.edu.tr

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[Authors](#)

Abstract: The photobromination of substituted indan derivatives was studied. Four products, 2,3-dibromoindan-1-one (5), trans-2,3-dibromoindan-1-one (6), 2,2-dibromoindan-1,3-dione (7) and 2,2-dibromoindan-1-one (8), were obtained by the bromination of indan-1-one (4). The bromination of 2-methyl indanone (9) and 3-methyl-indanone (13) gave the corresponding monobromo, dibromo, and tribromo compounds in high yield. 4-Nitro indan (16) was tribrominated under same condition reaction. The structures of these products were determined from $^1\text{H-NMR}$, $^{13}\text{C-NMR}$, MS, and IR data.



Key Words: Indan-1-one, 2-methyl-1-indanone, 3-methyl-1-indanone, 4-nitro indan.

chem@tubitak.gov.tr

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