

Synthesis and carbon-13 NMR study of some methanesulfonyloxy and trifluoroacetoxy derivatives of naphthalene.

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Abstract

Seven bis(mesyloxy)- and 6 bis(trifluoroacetoxy)naphthalenes were prepd. from the corresponding dihydroxynaphthalenes. ^{13}C NMR of these compds. and 4 dihydroxynaphthalenes were analyzed. Chem. shifts were assigned to every arom. C. The substituent-induced chem. shifts of naphthalene due to the MeSO_3 and CF_3CO_2 groups were compared with those due to the HO group. The exptl. chem. shifts were compared with calcd. ones; deviations were discussed in terms of steric and electronic effects of the substituents.