

Synthesis and C-13 NMR Study of Some Methanesulfonyloxy and Trifluoroacetoxy Derivatives of Naphthalene

Prof. SHAIKH ASROF ALI

**Dept. of Chemistry , College of Science ,
King Fahd University of Petroleum & Minerals**

<http://www.kfupm.edu.s>

ABSTRACT

Seven bis(mesyloxy)- and 6 bis(trifluoroacetoxy)naphthalenes were prepd. from the corresponding dihydroxynaphthalenes. ¹³C 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 MeSO₃ and CF₃CO₂ 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.