Carbon-13 and nitrogen-15 NMR spectral study of some dimethanesulfonanilides.  
Perzanowski, Herman P.; Ali, Sk Asrof; Wazeer, Mohamed I. M.  

Abstract

13C and 15N NMR spectra of 21 o-, m- and p-substituted PhN(SO2Me)2 (I) were recorded.  
The 13C chem. shifts were analyzed utilizing substituent chem. shifts for monosubstituted benzenes and by dual-substituent-parameter (DSP) and DSP-nonlinear equations. The -N(SO2Me)2 moiety is an extremely weak electron donor. The 15N chem. shifts of the p-substituted compds. were also analyzed by DSP equations and the results compared with those of related compds. I were prepd. by treating the corresponding PhNH2 deriv. with MeSO2Cl in pyridine, followed by NaOH and then addnl. MeSO2Cl.