

**Carbon-13 and nitrogen-15 NMR spectral study of some
dimethanesulfonanilides**

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ABSTRACT

^{13}C and ^{15}N NMR spectra of 21 o-, m- and p-substituted $\text{PhN}(\text{SO}_2\text{Me})_2$ (I) were recorded. The ^{13}C chem. shifts were analyzed utilizing substituent chem. shifts for monosubstituted benzenes and by dual-substituent-parameter (DSP) and DSP-nonlinear equations. The $-\text{N}(\text{SO}_2\text{Me})_2$ moiety is an extremely weak electron donor. The ^{15}N 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 PhNH_2 deriv. with MeSO_2Cl in pyridine, followed by NaOH and then addnl. MeSO_2Cl .