

N–H···O Hydrogen Bonding. FT-IR and NIR Study of N-Methylformamide-Ether Systems.

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The paper reports the results of FT-IR and NIR study of N-methylformamide in carbon tetrachloride solution and in presence of ethers as the O-electron donors. The spectroscopic characteristics for N-H···O hydrogen bonded complexes are given. Also, the equilibrium constants for 1:1 complex formation, at 25 °C were determined using IR and NIR measurements.

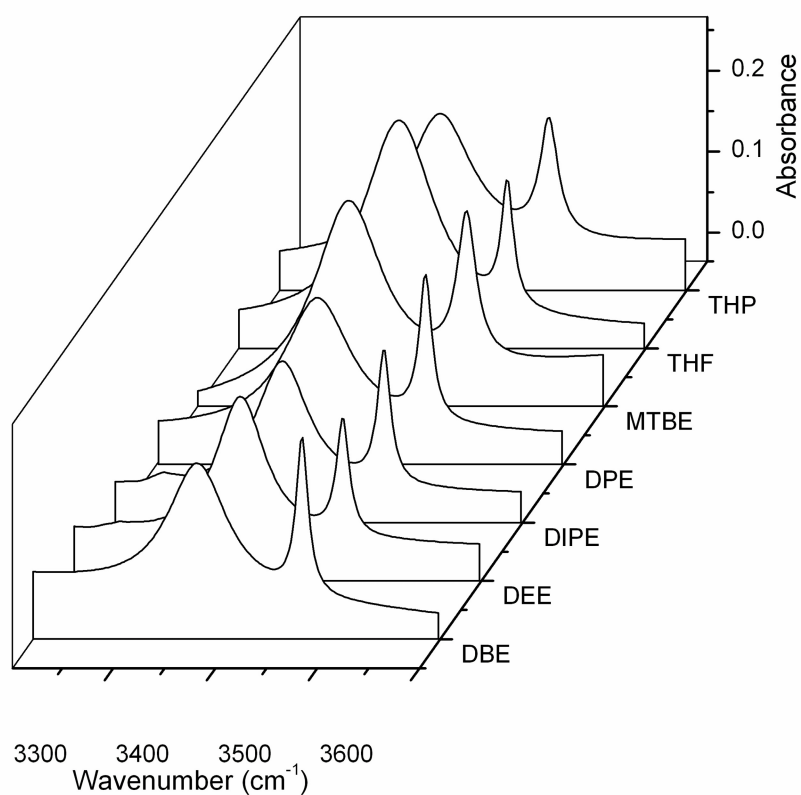


Figure 1: IR spectra of N-methylformamide, in the presence of seven different ethers with same concentration.

[1] A. Nikolić, B. Jović, V. Krstić, J. Tričković, *J. Mol. Liquids* 133 (2007) 39.

[2] A. Nikolić, B. Jović, S. Csanady, S. Petrović, *J. Mol. Structure* 834 (2007) 249.