

Effects of solvent on the fluorescence of 2-anilinonaphthalene. El-Rayyes, Ali A.; Htun, Than. Department of Chemistry, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

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Abstract

Solvation dynamics of 2-anilinonaphthalene (2-AN) has been studied at room temp. in a series of solvents with different polarity. The computation at the Hartree-Fock level of theory with the 3-21G* basis set has also been performed to study the structure of 2-AN in the ground and excited states. Steady-state fluorescence and fluorescence lifetime of 2-AN show the dependence of the fluorescence decay on the polarity and viscosity of solvent.