A Spectroscopic Model for the Study of Preferential in the Ground and Excited Electronic States.

Morales, Raul G.E.

The preferential solvation of a solute molecule in mixed solvents is analysed in terms of the spectral solvent shifts. A spectroscopic model is developed in order to know the preferential solvation degree in the ground electronic state as well as in the first excited electronic state by measuring the absorption and fluorescence spectra respec tively. Triphenylene was found to be a good model probe molecule in n-butanol/carbon tetrachloride mixtures for both electronic states. Furthermore Tryphenylene in its ground electronic state was studied in chloroform/methanol mixtures.