INTERACTION ENERGY IN PAIRS OF PYRIDAZINIUM YLIDE–SOLVENT MOLECULES ESTIMATED BY SPECTRAL MEANS WITHIN THE CELL TERNARY SOLUTION MODEL

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S u m m a r y

Ternary solutions of three carbanion disubstituted pyridazinium ylides in a binary solvent containing two kinds of miscible simple liquids (active and inactive ones from the point of view of intermolecular interactions) are studied. Electronic absorption spectra are used to estimate the average statistical weights of the two solvents in the first solvation sphere of pyridazinium ylide molecules. This sphere contains a higher number of active solvent molecules than the rest of the solution. The relation established between the average statistical weights in the first solvation sphere and the molar concentrations of the two solvents in the solution allows us to evaluate the interaction energy in molecular pairs of the type pyridazinium ylide–active solvent and pyridazinium ylide–inactive solvent.