

Solvent Enhancement of Electronic Intensity in Acridine and 9-aminoacridine

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Abstract

The electronic absorption spectra of acridine and 9-aminoacridine have been studied in various fluid solutions at room temperature. The modified Onsager-Abe-Iweibo reaction field model for a spherical molecule was employed to determine the oscillator strength, f , in vapour phase. The intensity enhancements for the forbidden transition observed are ascribed to perturbation forces between the solute and solvent molecules.

Keywords: Intensity enhancement; Oscillator strength; Forbidden transition and Perturbation forces