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Dynamical Behavior of Probe Molecules and Dominant Role of Cosurfactants in Reverse Micelles

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Dynamical behavior of probe molecules and dominant role of cosurfactants in reverse micelles Jia Qi*, Bridget Gourley[≠] Department of Chemistry and Biochemistry, DePauw University, IN 46135 2014 Summer

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Literature cited

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Figure 6: UV/ vis spectrum of CTAB reverse micelles with 1octanol as a cosurfactant, cyclohexane as a solvent and Reichardt's dye as the probe molecule.



Figure 9: Three dimensional representation of Reichardt's dye illustrating its Christmas tree-like structure along with its molecular orbital energy diagram. The Spartan molecular orbital diagram was generated at equilibrium geometry at ground state with Hartree-Fock level of calculation with a 3-21 G basis set. The benzene rings are not planar relative to one another and the direction of dipole points toward oxygen.

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