

Optical Properties of Tetrafluorobenzene and Thiophene Copolymer Solutions

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Abstract. The measurements of optical properties of newly synthetized conjugated block copolymers based on tetrafluorobenzene and thiophene are presented. Analysis of the fluorescence and absorption spectra shows a good correlation between the predicted conjugated length of the polymer chain or its planarity, respectively, and Stokes' shift. We also point out the possibility of tuning the absorption spectra by changing the structure of the block structure of polymer.