

Synthesis and Spectroscopic Studies Of Charge Transfer Complexes as a Combination Models.

Abstract:

Schiff base of camphor with aniline was prepared. Electron donor-acceptor complexes formed between Schiff base as a donor with 1,4-naphthquinone, 1,4-benzoquinone and 1,8-dihydroxyanthraquinone as a π -acceptors have been synthesized and spectroscopically studied. The UV-Vis spectra of the most complex was shown two types of transition ($n \rightarrow \pi^*$) and ($\pi \rightarrow \pi^*$). The Fourier Transform Infrared (F.T.IR) spectrum of the schiff's base -quinone complexes(IA, IB, IC) is shown the stretching of C=N of schiff base in the donor-acceptor complexes show a drastic shift to higher frequencies.

Keywords: Charge transfer complex, Electron donor-acceptor, Quinon derivatives.