A PHOTOACOUSTIC CALORIMETRY STUDY OF THE ELECTRONIC AND THERMODYNAMIC PROPERTIES OF FLAVONOID DERIVATIVES

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Flavonoids are attractive compounds due to their promising health benefits. Some of the activity accredited to flavonoids include: anti-allergic, anti-cancer, anti-oxidant, anti-inflammatory and anit-viral. A group of novel flavonoids, containing different derivates of alky and halogen substituents, have been synthesized as possible anti-cancer agents. In this work photoacoustic calorimetry studies have been conducted to evaluate the thermodynamic and electronic structural properties of the target compounds in an effort to elucidate the structural features that mediate the reactivity of the compounds.