

Vibrational spectra of Caulerpin, a green algae pigment

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FT-IR and FT-Raman spectra of Caulerpin, a green algae pigment, have been recorded. An assignment of the observed bands is proposed on the basis of previously reported vibrational spectra of similar structures. Intensity modifications between both vibrational spectra and frequency shifts observed in a deuteriated derivative were also employed in the assignments. The spectra suggest that the structure of the cyclooctatetraene (COT) ring of Caulerpin preserves the "tub shaped" D_{2d} symmetry of the non-substituted COT molecule.