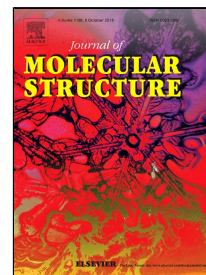


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Structural, electronic, vibrational, optical and thermodynamic properties of 3-Oxo-3-*p*-tolylpropylphosphonic acid and 4-Oxo-4-*p*-tolyl-butyric acid: Density Functional Theory Study

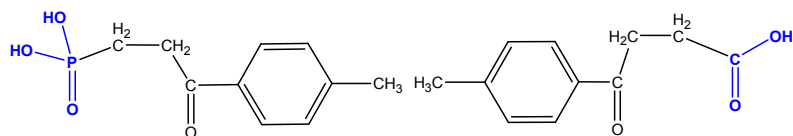
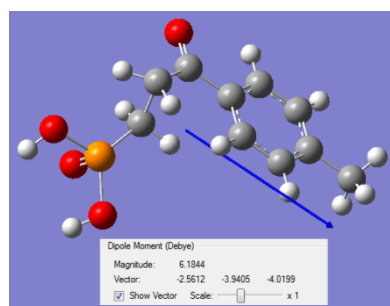
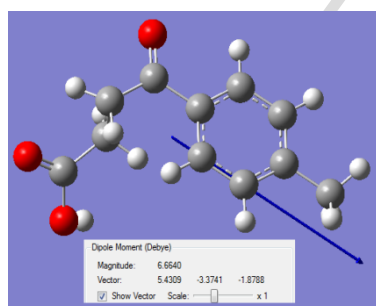
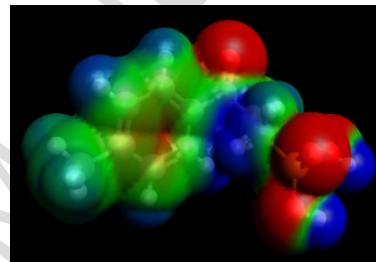
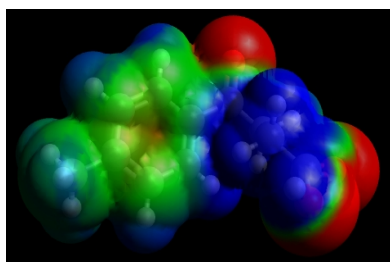
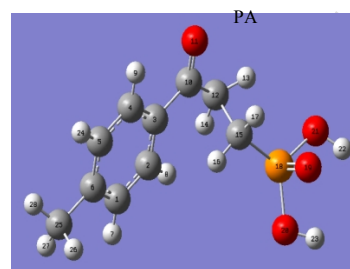
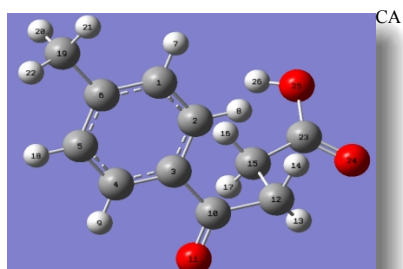
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Graphical Abstract

(3-Oxo-3-*p*-tolyl-propyl)-phosphonic acid4-Oxo-4-*p*-tolyl-butyric acid

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