

molecular vibrational constants and chemical bonding in the cyclic oxocarbon dianions $C_nO_n^{2-}$ (n=3, 4 and 5)

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By means of an ab initio force field and the mean amplitudes of vibration of the cyclic oxocarbon dianions $C_nO_n^{2-}$ with n= 3, 4 and 5, it has been found that the ground-state aromaticity order in the series is: delatate (n=3) > squarate (n=4) > croconate (n=5) ion. The reactivity of these molecules with respect to an electrophilic attack follows the order croconate > squarate > delatate ion. © 1988, Taylor & Francis Group LLC, All rights reserved.