

1096-05-422

**Craig E Larson\***, clarson@vcu.edu. *Eigenvalues of Saturated Hydrocarbons.*

We propose a simplified Hückel-type molecular-orbital (MO) model for the valence electrons of saturated hydrocarbons and consider the consequent eigenvalue spectrum. We obtain a first foundational result, which every chemist “knows”, namely that: alkanes are stable, with half their (Hückel-type MO) eigenvalues positive and half negative. (Received September 03, 2013)