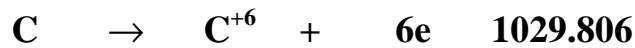
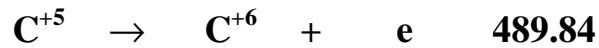
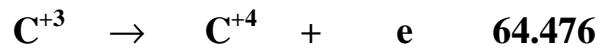
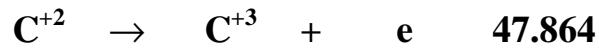
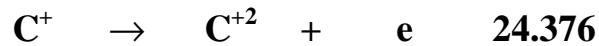
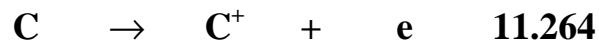


Total Energy of C Atom

Experimental

$\Delta E(\text{ev})$



using 1 au = 27.212 ev

$$\text{Total Energy of C atom} = -37.844 \text{ au}$$

$$\text{Hartree-Fock Energy of C Atom} = -37.688 \text{ au}$$

$$\text{Difference (correlation energy)} = 0.156 \text{ au} \quad \text{or } 4.25 \text{ ev} \quad 0.4\%$$