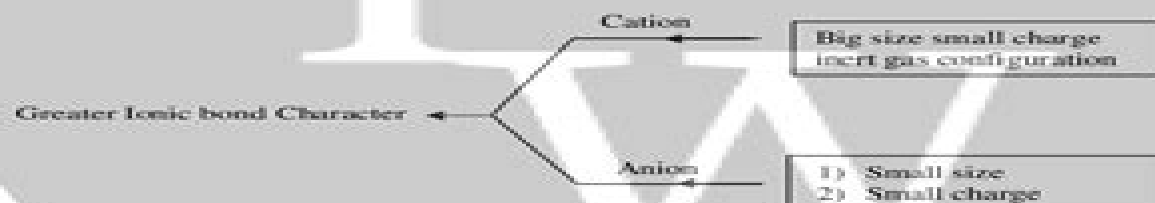


CHAPTER

04

CHEMICAL BONDING & MOLECULAR STRUCTURE

- An atom (or) group of atoms having independent existence in nature is defined as molecule.
- Force of attraction that holds two atoms (or) oppositely charged ions in molecule is chemical bond.
- An atom must have eight electrons in its outermost energy level for its stability is called as octet rule.
- The number of electrons an atom loses (or) gains in an ionic bond formation is called electrovalency.
- According to Fajan's Rules
 - The no. of electrons an atom of the element loses (or) gains is known as electrovalency of that element.
 - Favourable conditions for cation formation.
 - 1) Low I.P
 - 2) Low charge on ion
 - 3) Big atomic size
 - 4) Inert gas configuration
 - Favourable conditions for anion formation.
 - 1) High E.N & E.A
 - 2) Small atomic size
 - 3) Low charge on ion



- LiCl is more covalent in nature and so dissolved in non-polar solvents like alcohol (or) ether.
- Ions which have 18 electrons $[ns^2 np^6 nd^{10}]$ in their outermost main energy level are stable and it is called as pseudo inert gas configuration (or) nickel group configuration.
- The energy liberated when an ionic crystal is formed from an assembly of isolated gaseous ions is called lattice energy.
- Lattice energy

$$(\cup) = \left[-N_0 \frac{AZ^+ Z^- e^2}{r} + N_0 \frac{Be^2}{r^9} \right]$$
 - The total amount of energy change in a reaction remains the same whether the reaction takes place in one (or) several stages is known as Hess law of constant heat summation.

$$\cup = \frac{AZ^+ Z^- e^2 N_0}{r_0} \left[1 - \frac{1}{n} \right]$$

(Born – Lande equation)

Coordination number of Na^+ and Cl^- in NaCl crystal is (6:6)Coordination number of Cs^+ and Cl^- in NaCl crystal is (8:8)

Bonding Chemical Formulas

Neil D. Jespersen, Pamela Kerrigan



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