

Electronic Theory of Valency

A chemical bonding is the force which hold the atoms of molecule together. Bond formation is exothermic process i.e. decrease in energy of system.

- ✓ Occurs when force of attraction is greater than force of repulsion.
- ✓ The no. of electron lost, gained or shared by atom of an element is known as valency.

Electrovalent or Ionic Bond

- ✓ A bond formed by the transference of electron from atom to another such that both combining atom attain similar stable configuration of their nearest inert element.
- ✓ The number of electron involved (i.e. transferred) is called electro-valency of atom and compound thus formed is known as electrovalent compound.
- ✓ In the formation of electrovalent bond one of the atoms loses electron and acts as electropositive, element while other atom gain electron and act as electronegative element.
- ✓ Generally, the electropositive (cation) element are metal are carry positive charge and electronegative element are non- metal and carry negative charge (anion)
- ✓ The oppositely charged ions are held together by electrostatic force of attraction
- ✓ Ionic bond is favoured by
 - low ionization energy of cation
 - high electron affinity of atoms forming anion
 - high lattice of energy of compound

Properties of Ionic Compound

- ✓ They exist in solid
- ✓ They are soluble in polar solvent like water and insoluble non-polar solvent like ether, benzene etc.
- ✓ Since, ions in a molecule held together by a strong force of attraction. So they have high m.pt and b.pt.
- ✓ Due to presence of free mobile ions, ionic compound conduct heat and electricity in aqueous and molten state.
- ✓ NaCl do not conduct heat because their ions held together by strong force of attraction.
- ✓ Ionic compound are non-directional in nature and don't stereoisomerism.
- ✓ Ionic compounds are ionic and not molecular.

Covalent bond

- ✓ Formed by mutual sharing of electrons between the combining atoms.
- ✓ The number of valence electron involved in the formation of covalent bond is termed as covalency and the compound thus formed is known as covalent compound.

The Electronic Theory Of Valency

AW Rasmussen



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web sep 10 2023 it has nutritional bilateral and interaction with the ecosystem s biotic components the limbs of a food chain are plants and animals that are successively dependent on one another it has three to four trophic levels the highest level is 5 shorter food chains mean more available energy and vice versa

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food web is a connection of multiple food chains food chain follows a single path whereas food web follows multiple paths from the food chain we get to know how organisms are connected with each other

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