

14: Chemical Bonding Theories

Key Chemistry Terms

- Ionic Bond:** Bond formed from electrostatic attraction between ions (charged atoms)—formed from metals with nonmetals.
- Covalent Bond:** A bond formed between two nonmetals that involves shared electrons.
- Polar covalent bond:** Bond formed between two nonmetals—uneven sharing of electrons.
- Metallic bond:** Formed between metal atoms—electrons are pooled between the network of atoms.
- Polar bond:** Bond between two atoms with a great difference in electronegativities—uneven sharing of electrons resulting in a slightly positive region and a slightly negative region of the bond.
- Electronegativity:** An atom's "pull" on electrons shared with another atom.
- Polar molecule:** Molecule where the polar bonds do not cancel each other out in 3D orientation.
- Isomers:** Molecules with the same chemical formula, but different bonding structures.
- Resonance:** Two compounds with multiple bonds in different locations.
- Valence Bond Theory:** Overlap of atomic orbitals form bond.
- Sigma (σ) bonds:** First bond between two atoms. Formed from head-on overlap of orbitals.
- Pi (π) bonds:** 2^{nd} or 3^{rd} bond between two atoms. Formed from overlap of parallel p orbitals.
- Hybridization:** Atomic orbitals hybridize into orbitals of the same energy for all sigma bonds of the atom.

Characteristics of bond types

Bond type	Partners	Electrons are
Ionic	Metal & non-metal	Transferred
Covalent	Non-metals	Shared
Polar Covalent	Non-metals	Unevenly Shared
Metallic	Metals	Pooled

Common characteristics:

- Ionic:** High melting points, most dissolve in water, conduct electricity when dissolved in water, brittle.
- Covalent:** Low melting points, most do not dissolve in water, do not conduct electricity when dissolved in water.
- Polar covalent:** Medium melting points, some dissolve in water, do not conduct electricity when dissolved in water.
- Metallic:** Soft, conduct heat and electricity, do not dissolve in water.

Bond Polarity

When nonmetals bond covalently with a large difference in electronegativity.

- Attribute value of difference:
 - $0 - 0.4 = \text{covalent}$
 - $0.5 - 1.4 = \text{polar covalent}$
 - $1.5 - 4 = \text{ionic}$

Symbolized with an arrow pointing towards the more electronegative element and a crossed tail by the less electronegative element.

Example:

$\text{C} - \text{H}$ Electronegativity difference of 0.5 = polar bond



Isomers and Resonance

Isomer examples:



Resonance examples:



Sigma and Pi bonds

How many sigma and pi bonds are in the following?



6 sigma bonds & 3 pi bonds

Hybridization

# of sigma bonds	Hybridization	Formed from
2	sp	1 s and 1 p
3	sp^2	1 s and 2 p
4	sp^3	1 s and 3 p

Answer Key To The Physical Setting Chemistry

Nicholas R. Romano, Philip K. Cameron

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