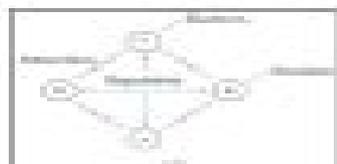


Chapter 9 - Covalent Bonding

I. Covalent Bonding: attractive force produced as a result of shared electrons. (pp. 189-192)

A. A _____ is formed when two or more atoms bond covalently.

B. Bonds form when there is a balance of attractive and repulsive forces between two atoms.



C. Single Covalent Bond & Lewis Structures

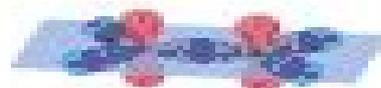
- Single Covalent Bond also called _____ bond [σ]
- Orbitals overlap end to end, concentrating the electrons in a _____ between the two atoms
- One pair of electrons is shared between the two atoms

D. Multiple Covalent Bond & Lewis Structures

- Sharing _____ than _____ of electrons
- Carbon, nitrogen, oxygen, and sulfur most often form _____ bonds
- Shared pairs may be needed to form a complete _____
- Double bond = two pairs of electrons shared For example: $O=O$
- Triple bond = three pairs of electrons shared For example: $N\equiv N$

The pi bond (π) forms when parallel p orbitals overlap.

A pi bond always accompanies a sigma bond.



This diagram shows how DOUBLE bonds form. First, a sigma (σ) bond forms (electron clouds overlap end-to-end). Then, two p orbitals overlap side-to-side to form a pi (π) bond.

These diagrams show the same molecule above simplified. That strange looking shape is what a pi bond actually looks like!



Chapter 6 Covalent Bonding

Marco Cascella



Chapter 6 Covalent Bonding:

Unveiling the Magic of Words: A Overview of "**Chapter 6 Covalent Bonding**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Chapter 6 Covalent Bonding**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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