

12.2 Types of Bonds (Video)

This project was preformed to supply **Libretext Authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

Video Topics

There are three main types of bonds: Ionic Bond: A purely ionic bond is the attraction between a cation and an anion. Electrons are completely transferred from one species to another. Ionic bonds form only when one reactant loses an electron readily (low IE, metal) and the other reactant gains an electron readily (high EA, nonmetal). The electronegativities of the bonded atoms are very different. Covalent Bond: In a purely covalent bond electrons are shared equally by two atoms. (Ex. H_2 , Cl_2) The electronegativities of the bonded atoms are very similar. A0-B0 each atom is neutral compared each other. Polar Covalent Bond: Electrons are shared but not equally between two atoms. In this case the electrons in the bond are closer to the more electronegative element.

Link to Video

Types of Bonds: <https://youtu.be/ovekQEs-KCg>



Attribution

- Prof. Steven Farmer ([Sonoma State University](#))

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