

Qualitative Analysis and Chemical Bonding

Concepts:

- Chemical bonding
- Covalent bonding
- Ionic bonding
- Metallic bonding
- Intermolecular bonding
- Physical & chemical properties
- Electronegativity

Introduction

- Types of atoms are not equal in chemical bond: **electronegativity**
- In order to understand bond, all atoms must be equal in weight, so this factor has to be taken into account, energy
- In order to make a bond, electron must move, energy must be added to system to separate the electrons

Electronegativity

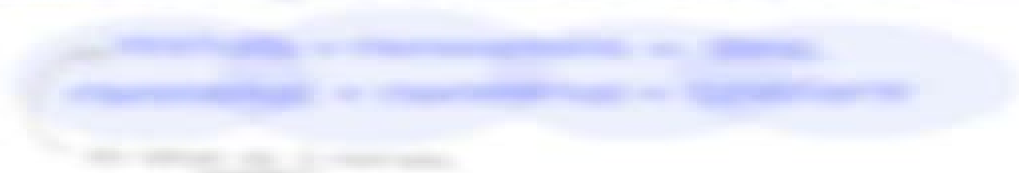
- Electronegativity: tendency of an atom to attract electrons towards itself in a covalent compound
- More electronegative atom is more likely to attract electrons in a bond, electronegative atom has higher electronegativity
- Electronegativity increases with increasing atomic number
- Electronegativity increases with increasing atomic number
- Electronegativity increases with increasing atomic number



Chemical bonding

- Chemical bonding: the process of atoms combining their outer shell of electrons to form a stable compound

Electronegativity is a group of atoms that together form a molecule.



Electronegativity is a measure of an atom's ability to attract electrons towards itself in a covalent bond. It is a relative property, with fluorine being the most electronegative element and cesium being the least electronegative element.

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**Thorfin Rusten Hogness, Warren C.
Johnson**



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Chemical Principles with Qualitative Analysis William L. Masterton, Emil J. Slowinski, Conrad L. Stanitski, 1986

Complementary Bonding Analysis Simon Grabowsky, 2021-04-06 As chemical bonds are not observable there are various theories and models for their description This book presents a selection of conceptually very different and historically competing views on chemical bonding analysis from quantum chemistry and quantum crystallography It not only explains the principles and theories behind the methods but also provides practical examples of how to derive bonding descriptors with modern software and of how to interpret them

Qualitative Analysis and Chemical Equilibrium, 1937 *Qualitative Analysis and Chemical Equilibrium* Thorfin Rusten Hogness, Warren C. Johnson, 1954

A Brief Introduction to Qualitative Analysis Ludwig Medicus, 1919 **A Brief Introduction to Qualitative Analysis for Use in Instruction in Chemical Laboratories** Ludwig Medicus, 1908 Introduction to Semimicro Qualitative Analysis Clarence Harvey Sorum, J.

J. Lagowski, 1977 **Qualitative Analysis and Chemical Equilibrium** Thorfin Rusten Hogness, Warren Charles Johnson, Alfred R. Armstrong, 1966 Introduction to Qualitative Analysis Durward C. Layde, Daryle Hadley Busch, 1968

Chemical Bonding Analysis of Solids in Position Space Alexey I. Baranov, 2015

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