



Intermolecular forces

Covalent Compounds Unit Study Guide

Name	
Teacher	
Date:	
Period	

Reference:

Chemistry in the Community, pp 181-183. Naming covalent compounds worksheet Viscosity Lab Exploring Properties of Ionic and Covalent compounds

Vocabulary

Understand and apply the definitions of the following terms:

Covalent Octet rule Valence electrons Polymers. e dot diagrams (Lewis dot diagrams) Viscosity. Boiling points Nonpolar

Targeted Skills

- Diagram a covalent molecule using a e dot diagrams (Lewis dot diagrams).
- Know the following properties:
 - lonic compounds = the transfer of electron(s), i.e. "gain or lose"

Metal cations & nonmetal anion (or polyatomic ion)

Net charge = zero (criss cross charges) X "ayo = X₀Y_a

Dissociate (dissolve) in water

Molecular compounds = sharing electrons by forming a covalent bond

2 or more nonmetals

Prefixes indicate # of each atom

Polar molecules have a 5" & a 5"

Polar molecules dissolve in water

Nonpolar molecules do not have oppositely charged ends, therefore do not dissolve in water.

- Octet rule = atoms share, gain, or lose e- to obtain full outer energy level (usually 8 e-)
- Name covalent compounds using prefixes: (mono, di, tri, tetra, penta, hexa, hepta, octa, nona, deca).
- Compare/contrast the arrangement of atoms in molecules to the arrangement of atoms in ionic compounds.
- Describe the influence of intermolecular forces on physical and chemical properties of covalent compounds. Example: Boiling points, viscosity, and density.
- Be able to describe properties (boiling points, melting points, viscosity, solubility, conductivity) of polymers, ionic crystals, metallic substances, atoms and molecules.

Make sure you remember from past tests?

Atomic structure Significant figures Accuracy & precision Mindurees Nomenclature

Solubility Safety Elements lonic compound formula writing

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