

Lewis Structures and Molecular Geometry

Models of Covalent Bonding

Introduction

Molecules have shape! The structure and shape of a molecule influences its physical properties and affects its chemical behavior as well. Lewis structures and VSEPR theory offer useful models for visualizing the structures of covalent compounds.

Concepts

- Valence electrons
- Lewis structures
- Covalent bonding
- VSEPR theory

Background

Covalent bonds are defined as the net attractive forces between nonmetal atoms that share one, two, or three pairs of electrons. In general, only the valence electrons, those in the highest energy levels that are farthest away from the nucleus, are available for bonding. The number of valence electrons influences the number of bonds that an atom will form. The Periodic Table offers a convenient shortcut for determining the number of valence electrons in an atom. Remember that the position of an element in the modern Periodic Table reflects its electron configuration. When the representative elements are arranged in columns from IA to VIIA (see Figure 1), the number of valence electrons for an element is equal to its group number. Thus, potassium in Group IA has one valence electron, carbon in Group IVA has four valence electrons, and chlorine in Group VIIA has seven valence electrons.

IA	IIA	Transition Metals												VIIA								
Li	B	Sc		Ti		V		Cr		Mn		Fe		Co		Ni		Cu		Zn		Cl

Figure 1. Numbering of representative elements in Groups IA–VIIA.

In 1916, G.N. Lewis, an American chemist, proposed arranging dots around the symbols of the elements to represent the valence electrons. A valence electron symbol (see Figure 2) consists of the most popular way to picture the valence electrons that are available for bonding.



Figure 2. Lewis electron-dot symbols for representative elements.

Lewis structures build on the Lewis electron-dot symbols of the elements to show the bonding arrangements of atoms in a molecule and the distribution of all valence electrons. The Lewis structure of a molecule thus shows all of the atoms and how they are connected. A single covalent bond between two atoms, corresponding to a pair of electrons, is represented using a dash (—). Sometimes atoms share more than one pair of electrons between them in order to form stable molecules. Two dashes (corresponding to two pairs of electrons) and three dashes (corresponding to three pairs of electrons) are used to represent double and triple bonds, respectively.

G.N. Lewis offered a simple theory, based on the known stability of the noble gases (He, Ne, Ar, Kr, Xe), that bonds are atoms still form and how many atoms of a particular type will come together to form a stable molecule. According to Lewis, molecules may share electrons in order to achieve a valence shell electron “closure,” similar to that of the noble gases:

“*Two atoms may complete to the rate of eight, or the noble gas... by sharing one or more pairs of electrons. The electrons which are held in common by two atoms may be considered to belong to the outer shell of both atoms.*”

The noble gases have filled s and p orbitals with eight electrons. The outer rule ensures that atoms form molecules to achieve this stable, noble gas electron configuration. In counting valence electrons in order to predict the structure of a covalent compound, we will distinguish between two kinds of electron pairs. Sharing pairs of electrons are shared between atoms and thus “belong” to both atoms in the bond. Nonsharing or “solo” pairs of electrons are not shared between atoms and are therefore “claimed” toward only one of the atoms.

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