Connecting to Your World

You know that without oxygen. to breathe, you could not live. But did you know that on gen plays

another important role in your life? High in the atmosphere, a different form of payeen, called ozone, forms a layer that filters.

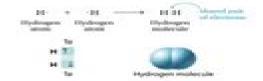
> out harmful radiation from the sun. The colors in this map indicate the concentrations of ozone in various parts of Earth's atmosphere in this section, you will learn how oxygen atoms canjoin in pairs to form the oxygen you breathe and can also join in groups of three oxygen atoms to florein gazone.

The Octet Rule in Covalent Bonding

Recall that when ionic compounds form, electrons tend to be transferred so that each ion acquires a noble gas configuration. A similar rule applies for consient bonds. 😂 in covalent bonds, electron sharing usually occurs so that atoms attain the electron configurations of poblic gases. For example, each hydrogen atom has one electron. But a pair of hydrogen atoms share these two electrons when they form a covalent bond in a hydrogen molecule. Each hydrogen atom thus attains the electron configuration of belium, a noble gas with two electrons. Combinations of atoms of the nonmetals and metalloids in Groups 6A, 5A, 6A, and 7A of the periodic table are likely to form covalent bonds. In this case the atoms usually acquire a total of eight electrons, or an octet, by sharing electrons, so that the occet rule applies.

Single Covalent Bonds

The hydrogen anoms in a hydrogen molecule are held together mainly by the attraction of the shared electrons to the positive model. Two atoms held together by sharing a pair of electrons are joined by a single savalent bond. Hydrogen gas consists of distornic molecules whose atoms share only one pair of electrons, forming a single covalent bond.



Guide for Reading

Key Concepts

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- How do electron dot structures
- represent shared electrons? How do attorns form double or
- telephonological beyonds/1
- How are considerate considerat Name And Address of Pages and Address Telephonel Impeliance
- 9. More in the strength of a allowalterni blowed included to its Typewal allowardation emergy?
- How are oxygen atoms borded. the management
- 'Bifruit are some escaptions to titles account make?"

Vocabulary

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Section 8.2. The Nature of Covalent Bonding

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Marcel A. Müller

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