

Compounds Intro

Week 9

Compounds Intro



1-Compounds are a type of matter that is made up of MOLECULES.

Molecules are made up of two or more elements chemically connected (bonded) together.

Example:

Water, alcohol, sugar, salt, ammonia, hydrogen peroxide

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2-Have properties different from the original elements.

Example:

Water is made up of two hydrogen atoms and one oxygen atom

Hydrogen is a gas

Oxygen is a gas

but when put together they are not

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3-All compounds have a “chemical formula”

***A chemical formula is the exact “recipe” of elements that make up a molecule of that substance**

$C_6H_{12}O_6$ -glucose

H_2O -water

NH_3 -ammonia

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4- The molecules are not easily separated

Example: water is made up of 3 atoms:

2 atoms of hydrogen

1 atom of oxygen...

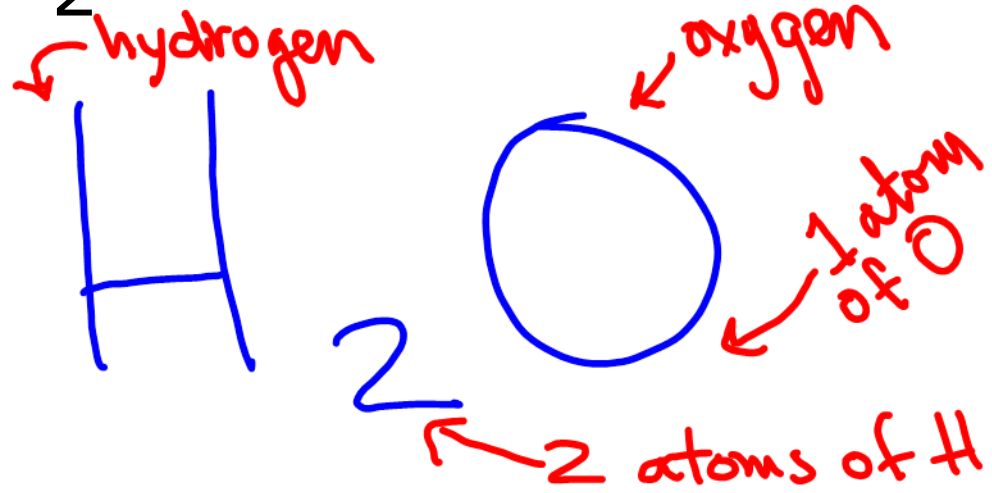
You cannot "cut" the molecule

You cannot "pull" the molecule apart

C-notes

How to read a chemical formula

H₂O-water



The letters are chemical symbols for elements

The number tells you how many atoms of that element it is under (subscript)

If no number under the element = 1 atom

C-notes

How to read a chemical formula

CO₂-CARBON
DIOXIDE

Elements: 1
carbon atom and
2 oxygen atoms
Total atoms: 3