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molecule

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molecule

from The Hutchinson Unabridged Encyclopedia with Atlas and Weather

Smallest configuration of an element or compound that can exist as a molecule is made up of a group of atoms held together by covalent bonds. Non-metal elements exist as molecules. For example, hydrogen, oxygen, and nitrogen, do not exist independently. They are bonded in molecules. A molecule of a compound consists of two or more atoms of different elements bonded together. For example, carbon dioxide is made up of one carbon atom and two oxygen atoms bonded together. The molecular formula represents each element in the molecule and the number of atoms of each element are present. For example, the formula for carbon dioxide is CO₂. Molecules vary in size and complexity from small molecules like water to large molecules like proteins.

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hydrogen hydrogen oxygen

single bond

unsaturated a benzene ring (C₆H₆), with three double bonds

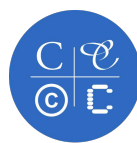
Steps involved in the formation of a molecule

Morse equation potential energy

Facilitated diffusion A carrier protein binds to a molecule and changes shape to move it across the membrane.

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graph TD; Molecule((Molecule)) --- Atom((Atom)); Molecule --- Ion((Ion)); Molecule --- Chemistry((Chemistry)); Molecule --- ChemicalBond((Chemical bond)); Molecule --- ChemicalCompound((Chemical compound)); Molecule --- ChemicalSubstance((Chemical substance)); Molecule --- Electron((Electron)); Molecule --- CovalentBond((Covalent bond)); Molecule --- UnifiedAtomicTheory((Unified atomic theory)); Molecule --- ElectricCharge((Electric charge));
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