

Conservation of mass

The law of conservation of mass/matter states that matter is not created or destroyed in any chemical or physical change.

Mass measures the amount of matter so sometimes it is called the law of conservation of matter.

During a chemical change, atoms are not lost or gained, only rearranged.

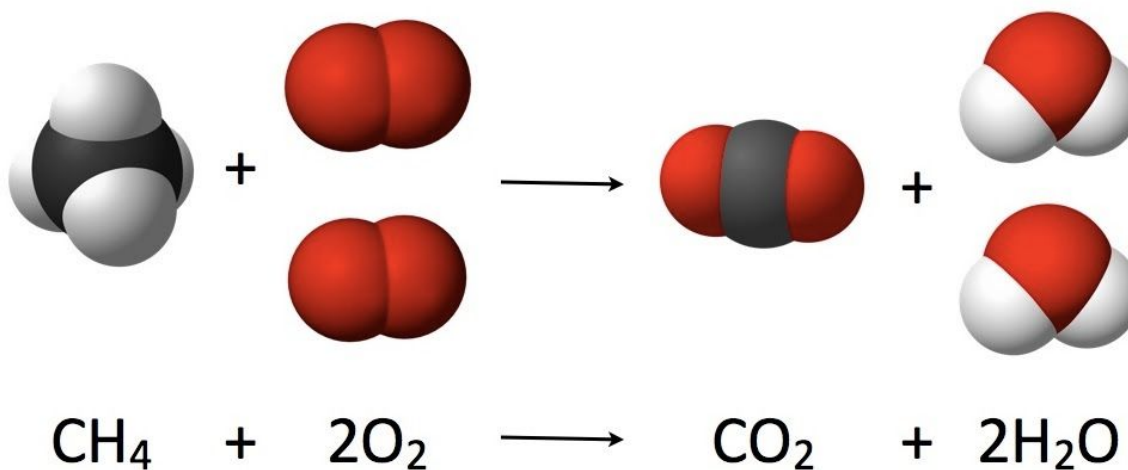
During a chemical change, chemical energy may be changed to other forms of energy. Other forms of energy may also be changed to chemical energy.



Reactants

Products

Chemical compound: any substance composed of identical molecules consisting of atoms.



Reactants

Products

*For every molecule of methane that burns, two molecules of oxygen are used. The atoms are rearranged in the reactions, but they do not disappear.