

Law of Conservation of Mass

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In a chemical reaction, the total mass of the reactants is equal to the total mass of the products.

Example:
When hydrogen gas reacts with oxygen gas, water is formed.

Chemical Equation:
 $2H_2 + O_2 \rightarrow 2H_2O$

Mass Calculation:
The mass of the reactants (hydrogen and oxygen) is equal to the mass of the product (water).

Conclusion:
The law of conservation of mass is a fundamental principle in chemistry.

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