

CATALYSIS

Meaning: Catalysis is the process of accelerating a chemical reaction by the presence of a substance (catalyst) that is not consumed in the reaction.

1. Catalysis plays a crucial role in speeding up chemical reactions without being consumed in the process.
2. The enzyme acted as a catalyst, facilitating the conversion of substrates into products.
3. In industrial processes, catalysis is essential for improving reaction efficiency and reducing energy costs.
4. Researchers are exploring new catalysts to enhance the selectivity of chemical reactions.
5. Homogeneous catalysis involves the catalyst being in the same phase as the reactants, often resulting in smoother reactions.
6. The study of catalysis has led to significant advancements in green chemistry practices.
7. Catalysis can be classified into two main types: heterogeneous and homogeneous.
8. Understanding the mechanisms of catalysis can help scientists design better catalysts for various applications.
9. The use of catalysis in organic chemistry can significantly lower activation energy requirements.
10. Recent breakthroughs in catalysis have opened up new pathways for synthesizing complex molecules.

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