

TAUTOMERISM

Meaning: Tautomerism is the chemical phenomenon where two or more structural isomers of a compound readily interconvert, typically involving the relocation of a proton and a double bond.

1. Tautomerism is a key concept in organic chemistry that explains the equilibrium between different structural forms of a molecule.
2. The phenomenon of tautomerism often leads to significant changes in the reactivity and properties of compounds.
3. In many biological systems, tautomerism plays a crucial role in enzyme catalytic mechanisms.
4. Chemists often study tautomerism to better understand the behavior of nucleobases in DNA.
5. The presence of tautomerism can complicate the interpretation of spectroscopic data in molecular analysis.

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