

SUBSTITUENT

Meaning: A substituent is an atom or group of atoms that replaces a hydrogen atom in a molecule, thereby altering its chemical properties and reactivity.

1. The presence of a strong electron-donating substituent can significantly enhance the reactivity of the aromatic compound.
2. In organic chemistry, the nature of the substituent attached to a benzene ring can influence the compound's physical and chemical properties.
3. Substituents can either activate or deactivate a molecule depending on their electron-withdrawing or electron-donating characteristics.
4. When analyzing a reaction mechanism, it's crucial to consider how different substituents affect the transition state.
5. The study focused on the synthesis of a new polymer with various substituents to improve its mechanical properties.

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