

CARBOXYL

Meaning: Carboxyl is a functional group in organic chemistry characterized by a carbon atom double-bonded to an oxygen atom and single-bonded to a hydroxyl group (-COOH), which is essential in the structure of amino acids and other organic compounds.

1. The carboxyl group is a key functional group in organic chemistry.
2. In amino acids, the carboxyl functional group plays a critical role in protein structure.
3. The acidity of a carboxyl group can significantly influence the reactivity of organic compounds.
4. Carboxyl groups are often involved in the formation of esters and amides.
5. When discussing fatty acids, the presence of a carboxyl group is essential to their classification.
6. Synthesis of carboxylic acids usually begins with the oxidation of primary alcohols.
7. The carboxylate ion is the deprotonated form of a carboxylic acid.
8. In biochemical pathways, carboxyl groups are commonly found in metabolites.
9. Carboxyl functional groups can participate in hydrogen bonding, affecting solubility.
10. Understanding the properties of the carboxyl group is vital for studying organic reactions.

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