

## Functional Groups Organic Chemistry Flashcards PDF

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What is a functional group in organic chemistry?

A functional group is a specific group of atoms within a molecule that is responsible for the characteristic chemical reactions of that molecule.

What is the functional group of alcohols?

The functional group of alcohols is the hydroxyl group (-OH).

What is the functional group of carboxylic acids?

The functional group of carboxylic acids is the carboxyl group (-COOH).

What is the functional group of amines?

The functional group of amines is the amino group (-NH<sub>2</sub>).

What is the functional group of aldehydes?

The functional group of aldehydes is the carbonyl group (C=O) located at the end of a carbon chain.

What is the functional group of ketones?

The functional group of ketones is the carbonyl group (C=O) located within a carbon chain.

What is the functional group of esters?

The functional group of esters is the ester group (-COO-), which is formed from the reaction of an alcohol and a carboxylic acid.

What is the functional group of ethers?

The functional group of ethers is the ether group (-O-), which consists of an oxygen atom connected to two alkyl or aryl groups.

What is the functional group of amides?

The functional group of amides is the amide group (-CONH<sub>2</sub>), which is derived from carboxylic acids.

What is the functional group of nitriles?

The functional group of nitriles is the cyano group (-CN), which consists of a carbon triple-bond to a nitrogen.