

Carboxylic acids ( $\text{RCOOH}$ ), esters ( $\text{RCOOR}'$ ), and amides (all contain a carbonyl group ( $\text{C}=\text{O}$ )). Low molecular weight carboxylic acids have a sour taste and act as weak acids; long fatty acids make up oils and fats. Simple esters are responsible for common fragrances and the most plentiful lipids have three ester groups. A number of drugs are amides and all proteins contain amide groups.

## Structure



The word carboxyl (for a  $\text{COOH}$  group) is derived from carbonyl ( $\text{C}=\text{O}$ ) + hydroxyl ( $\text{OH}$ ).

- Carboxylic acids are organic compounds containing a carboxyl group ( $\text{COOH}$ ).

Biologically that are fatty acids, amino acids, and lipids.

## General structure



carboxylic acid



carbonyl group



acetic acid

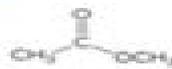
 $\text{CH}_3\text{CO}_2\text{H}$ 

- Esters are carbonyl compounds that contain an alkoxy group ( $\text{OR}$ ) bonded to the carbonyl carbon.

## General structure



ester



methyl acetate

 $\text{CH}_3\text{CO}_2\text{CH}_3$ 

The structure of an ester is often abbreviated as  $\text{RCOOR}'$  or  $\text{RCO}_2\text{R}'$ .

- Amides are carbonyl compounds that contain a nitrogen atom bonded to the carbonyl carbon.

## General structure

amide  
 $\text{R}' = \text{H}$  or alkyl1° amide  
1 C-N bond2° amide  
2 C-N bonds3° amide  
3 C-N bonds

The N atom of an amide may be bonded to other hydrogen atoms or alkyl groups. Amides are classified as 1°, 2°, or 3° depending on the number of carbon atoms bonded directly to the nitrogen atom.

- A primary (1°) amide contains one C-N bond. A 1° amide has the structure  $\text{RCONH}_2$ .
- A secondary (2°) amide contains two C-N bonds. A 2° amide has the structure  $\text{RCONHR}'$ .
- A tertiary (3°) amide contains three C-N bonds. A 3° amide has the structure  $\text{RCONR}'_2$ .

Note the similarity to the classification of alcohols.

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