

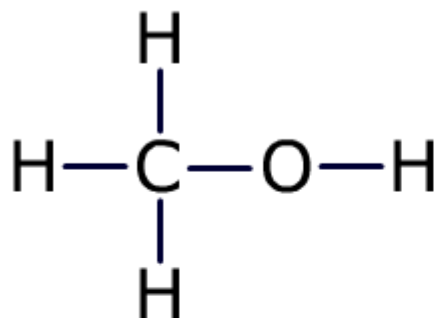
# Naming esters



## Naming esters

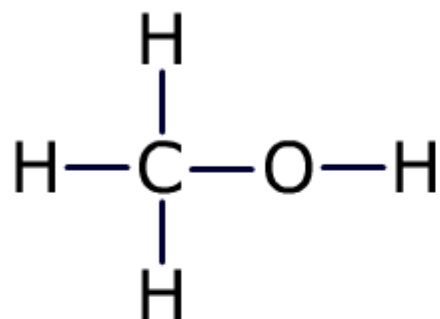


# Naming esters



Alcohols are named from the parent alkenes by changing the final letter **e** to **ol**.

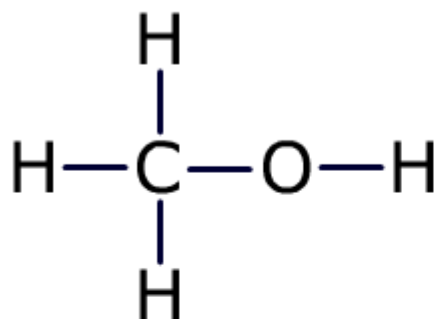
# Naming esters



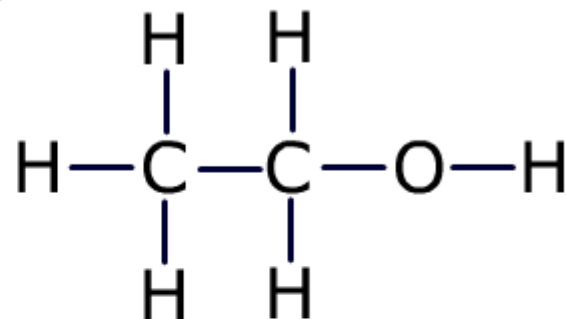
methanol,  $\text{CH}_3\text{OH}$

Methanol has one carbon atom.

# Naming esters



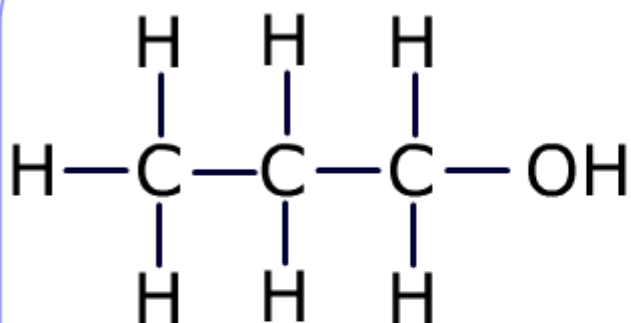
methanol,  $\text{CH}_3\text{OH}$



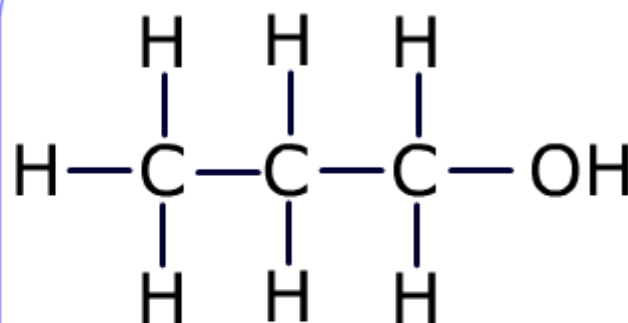
ethanol,  $\text{C}_2\text{H}_5\text{OH}$

Ethanol, the alcohol in alcoholic drinks, has two carbon atoms.

# Naming esters

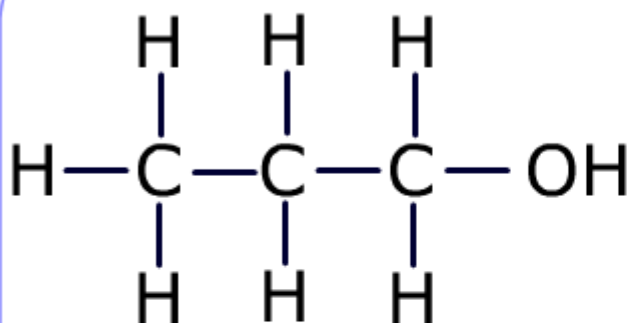


propan-1-ol

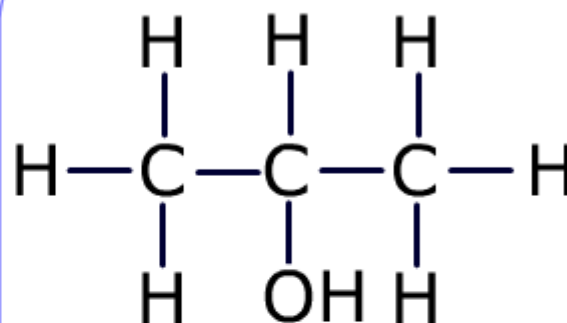


Alcohols with three or more carbon atoms may have **position isomers**. This is propan-1-ol, a **primary alcohol**.

# Naming esters



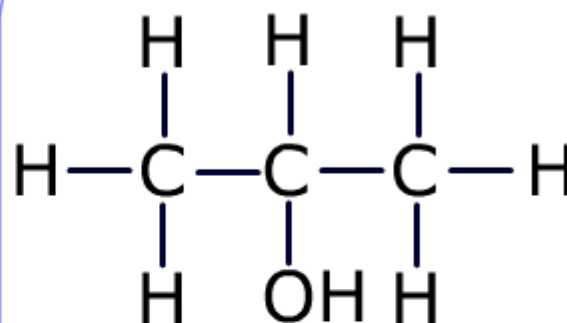
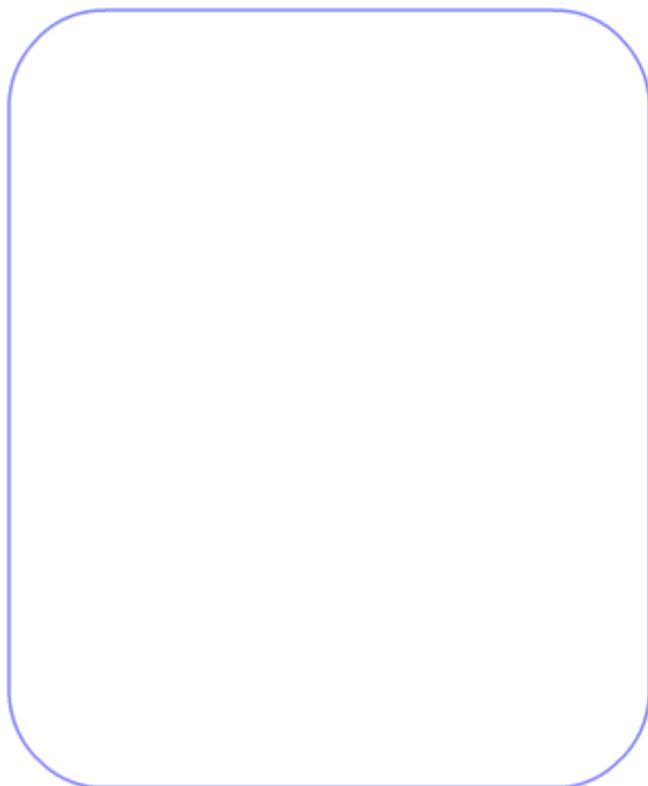
propan-1-ol



propan-2-ol

This is propan-2-ol, a **secondary alcohol**.

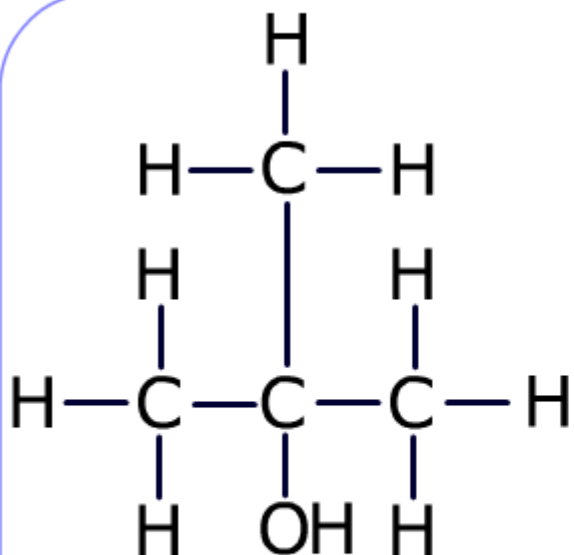
# Naming esters



propan-2-ol

Alcohols may also have branches.

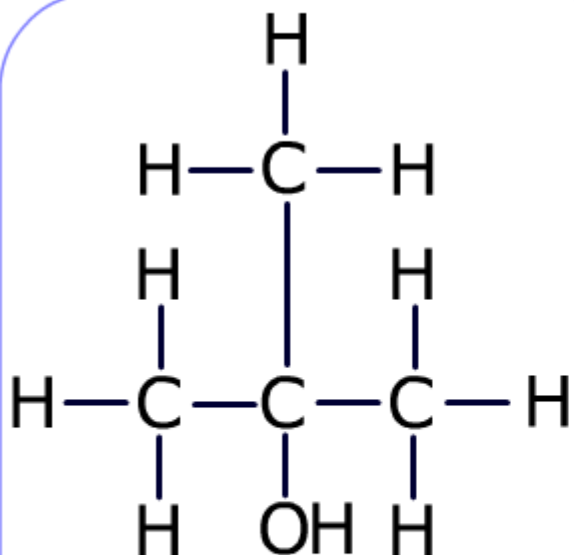
# Naming esters



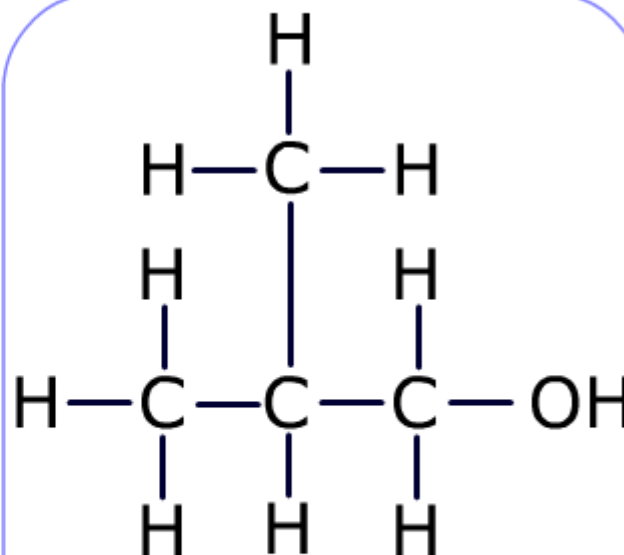
methylpropan-2-ol

This is methylpropan-2-ol, a **tertiary alcohol**.

# Naming esters



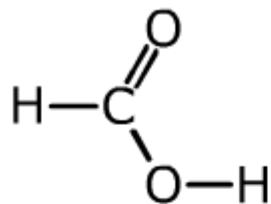
methylpropan-2-ol



methylpropan-1-ol

This is methylpropan-1-ol, a primary alcohol.

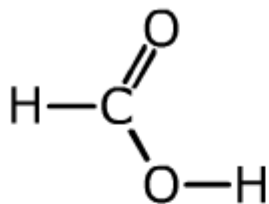
# Naming esters



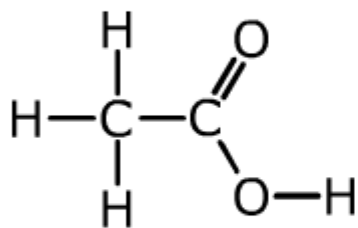
methanoic acid, HCOOH

Carboxylic acids are named from the parent alkane by changing the final letter **e** to **oic acid**. Methanoic acid has one carbon atom.

# Naming esters



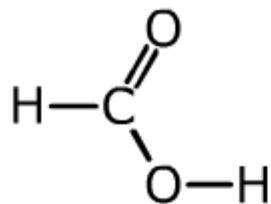
methanoic acid, HCOOH



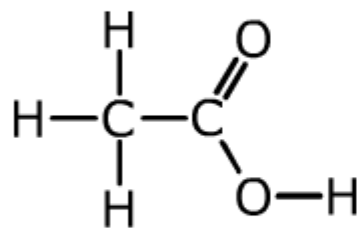
ethanoic acid, CH<sub>3</sub>COOH

Ethanoic acid has two carbon atoms.

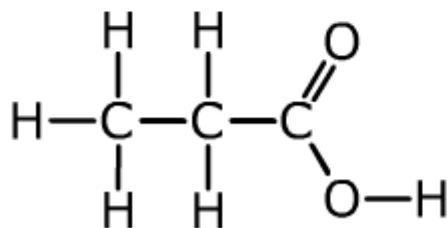
# Naming esters



methanoic acid,  $\text{HCOOH}$



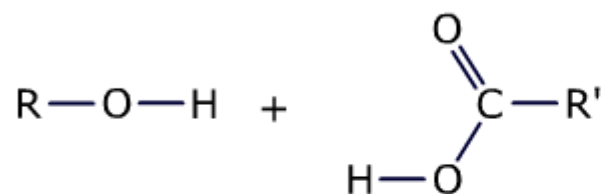
ethanoic acid,  $\text{CH}_3\text{COOH}$



propanoic acid,  $\text{C}_2\text{H}_5\text{COOH}$

Propanoic acid has three carbon atoms.

# Naming esters

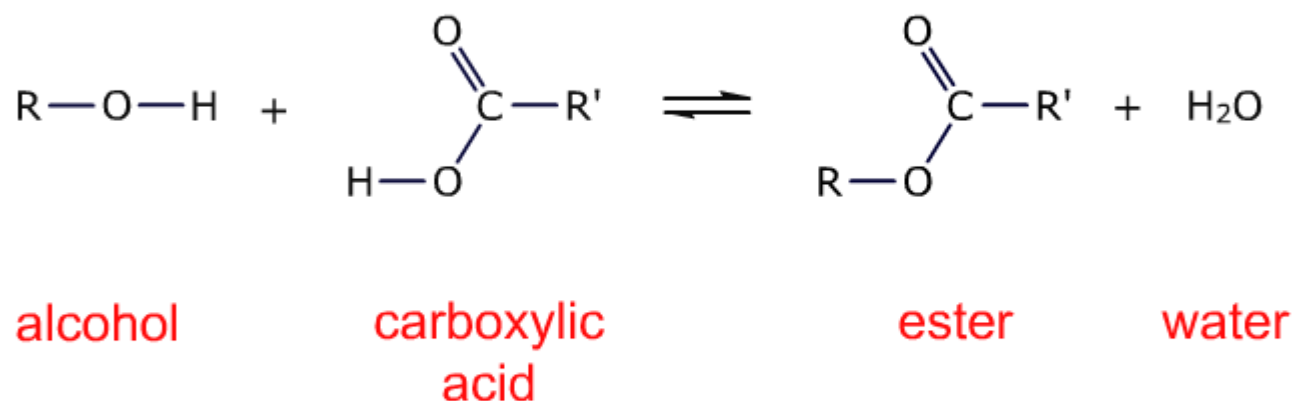


alcohol

carboxylic  
acid

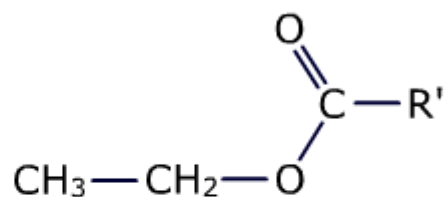
Esters are formed when an alcohol reacts with a carboxylic acid.

# Naming esters



The reaction is reversible and occurs slowly. A small amount of concentrated hydrochloric acid or sulphuric acid is often used as a catalyst.

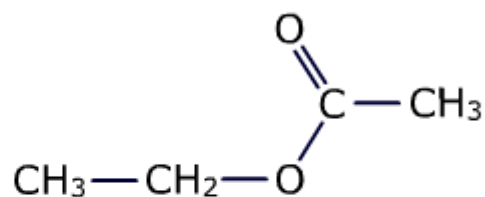
# Naming esters



ethyl

If the alcohol used is ethanol, the first part of the ester's name will be **ethyl**.

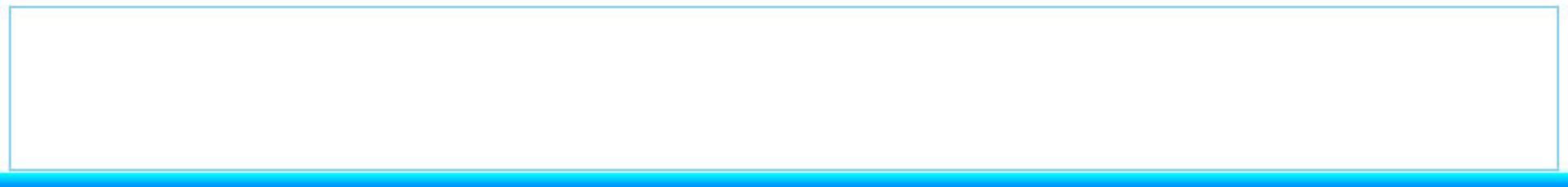
# Naming esters



ethyl

ethanoate

If the carboxylic acid used is ethanoic acid, the second part of the ester's name will be **ethanoate**.



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OFFENDING COMMAND: ~

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