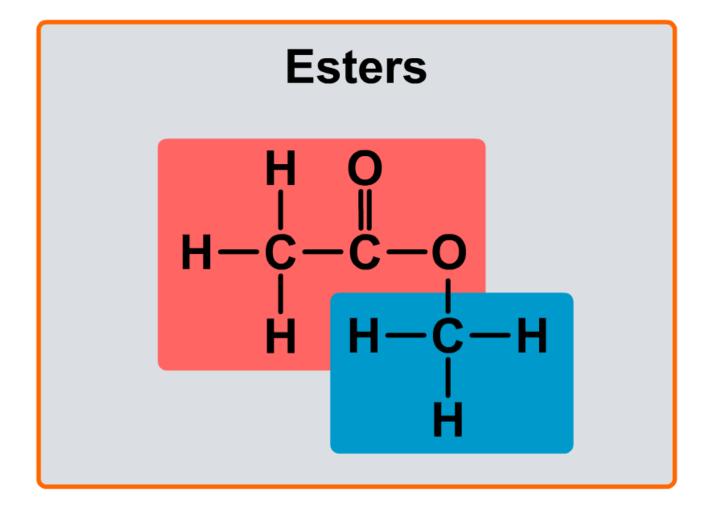


Boardworks High School Science





What are esters?



Esters have characteristic smells, and are often used in flavorings and perfumes.

For example:

- propyl ethanoate smells of pears
- butyl butanoate smells of pineapple
- methyl butanoate smells of apple.









Esters



Esters contain this group of atoms:

Esters are made from the reaction of a carboxylic acid with an alcohol:

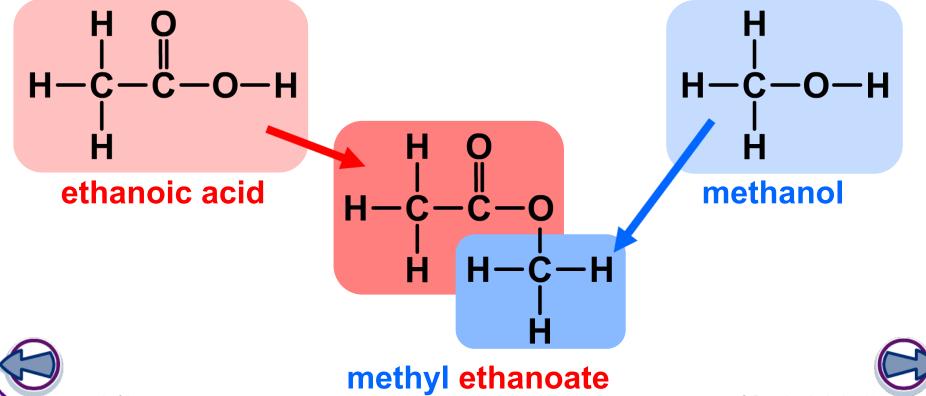
propanoic acid + methanol → methyl propanoate + water

Naming esters



Esters are named after the alcohol and the carboxylic acid from which they are made. The alcohol gives the first part of the name, and the carboxylic acid gives the second. Esters always end in "–anoate".

For example:



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Matching carboxylic acids to their esters





Match each carboxylic acid to an ester it can form

methanoic acid

decyl pentanoate

butanoic acid

ethyl ethanoate

propanoic acid

ethyl butanoate

ethanoic acid

propyl hexanoate

hexanoic acid

hexyl methanoate

pentanoic acid

methyl propanoate









Practicing naming esters





Fill in the missing information in the table

carboxylic acid	alcohol	ester
propanoic acid	?	ethyl propanoate
?	methanol	methyl ethanoate
?	propanol	propyl methanoate
decanoic acid	?	methyl decanoate
butanoic acid	propanol	?
ethanoic acid	ethanol	?

ethanoic acid



solve





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