

(Carboxylic acids (properties, uses, reactions))

Q1.(2020)

Ethanol reacts with ethanoic acid to produce an ester.

What is the name of the ester produced when ethanol reacts with ethanoic acid?

[1 mark]

Tick (✓) **one** box.

Ethane

☐

Ethene

☐

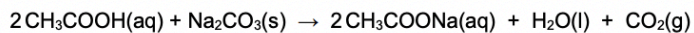
Ethyl ethanoate

☐

Q2.(2020)

Ethanoic acid reacts with sodium carbonate.

The equation for the reaction is:



What is the name of the liquid produced by this reaction?

[1 mark]

Q3.(2020)

Vinegar is a solution that contains ethanoic acid.

400 cm³ of vinegar contains 20 g of ethanoic acid.

Calculate the mass of ethanoic acid in 1.0 dm³ of vinegar.

[3 marks]

Mass = _____ g

Q4.(2023)

Ethanoic acid can be produced from ethanol.

What is reacted with ethanol to produce ethanoic acid?

[1 mark]

Tick (✓) **one** box.

A halogen

☐

An alkali metal

☐

An oxidising agent

☐

Water

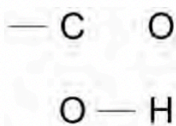
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Q5.(2023)

Ethanoic acid contains the functional group -COOH

Complete the displayed structural formula of this functional group.

[1 mark]



Q6.(2023)

Ethanoic acid reacts with different compounds.

Draw **one** line from each compound to a product of the reaction of the compound with ethanoic acid.

[2 marks]

Compound	Product of the reaction with ethanoic acid
	Carbon dioxide
	Ethene
Ethanol	Ethyl ethanoate
Sodium carbonate	Hydrogen
	Poly(ethene)