AQA - Carboxylic acids and derivatives - A2 Chemistry P3

1. June/ 2019/Paper_3/No.25

A student is required to dry a liquid sample of pentanoic acid.

Which drying agent is suitable?

[1 mark]

Α	Calcium oxide	0
•	Odicialii Oxide	

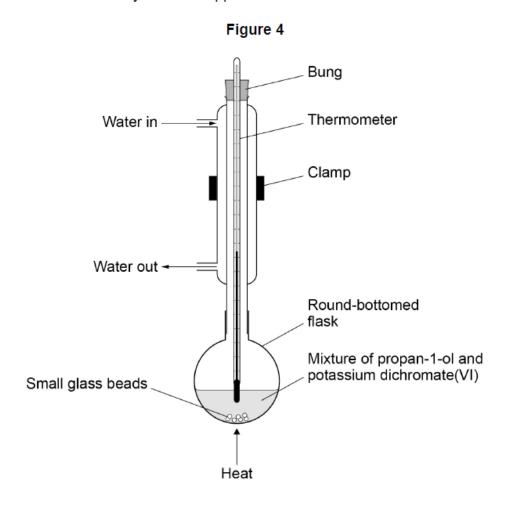
2. June/2021/Paper_3/No.6

0 6

A student plans an experiment to investigate the yield of propanoic acid when a sample of propan-1-ol is oxidised.

Figure 4 shows the apparatus that the student plans to use for the experiment.

The student's teacher says that the apparatus is not safe.



0 6.1	Give two reasons why the apparatus shown in Figure 4 is not safe.	[2 marks]
	1	
	2	

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0 6.2	Give one additional reagent that is needed to form any propanoic acid.	[1 mark]
0 6.3	State two more mistakes in the way the apparatus is set up in Figure 4 .	[2 marks]
	1	
	2	
0 6.4	State the purpose of the small glass beads in the flask in Figure 4.	[1 mark]

0 6 . 5	After correcting the mistakes, the student heats a reaction mixture containing 6.5 propan-1-ol with an excess of the oxidising agent. The propanoic acid separated from the reaction mixture has a mass of 3.25 g		
	State the name of the technique used to separate the propanoic acid from the mixture.	he reaction	
	Calculate the percentage yield of propanoic acid.	[4 marks]	
	Technique		
	Percentage yield		
0 6.6	State a simple chemical test that distinguishes the propanoic acid from the propan-1-ol.		
	Give one observation for the test with each substance.	[3 marks]	
	Test		
	Propanoic acid		
	Propan-1-ol		