AQA - Energetics - A2 Chemistry P2

- 1. June/2021/Paper_2/No.3
 - 0 3 A student does an experiment to determine a value for the enthalpy of combustion of heptane.

Figure 2 shows some of the apparatus used.

Clamp
Copper calorimeter
100 g water

Heptane

0 3. 1 Design a table to record all the readings necessary to determine an experimental value for the enthalpy of combustion for heptane in this experiment.

[2 marks]

0 3. 2 The student considered using a glass beaker on a tripod and gauze instead of the clamped copper calorimeter.

Suggest two disadvantages of using a glass beaker on a tripod and gauze.

Disadvantage 1

[2 marks]

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0 3 . 3	Suggest two reasons why the value of enthalpy of combustion from this experiment is less exothermic than a data book value.
	[2 marks]
	Reason 1
	Reason 2
0 3.4	Suggest one addition to this apparatus that would improve the accuracy of the enthalpy value obtained. [1 mark]