

WJEC GCSE Flashcards

Component 2: Specific Practical 8 Energy Released from Fuels

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Name the method used to measure heat released in a chemical reaction.



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Calorimetry



What is the temperature change of a reaction an indicator of?



What is the temperature change of a reaction an indicator of?

The energy change in the reaction.

This could be endo- or exothermic.



What change indicates an endothermic reaction?



What change indicates an endothermic reaction?

A decrease in temperature due to the absorption of heat from the surroundings.

This produces a positive ΔH° value.



What change indicates an exothermic reaction?



What change indicates an exothermic reaction?

An increase in temperature due to the release of excess heat to the surroundings.

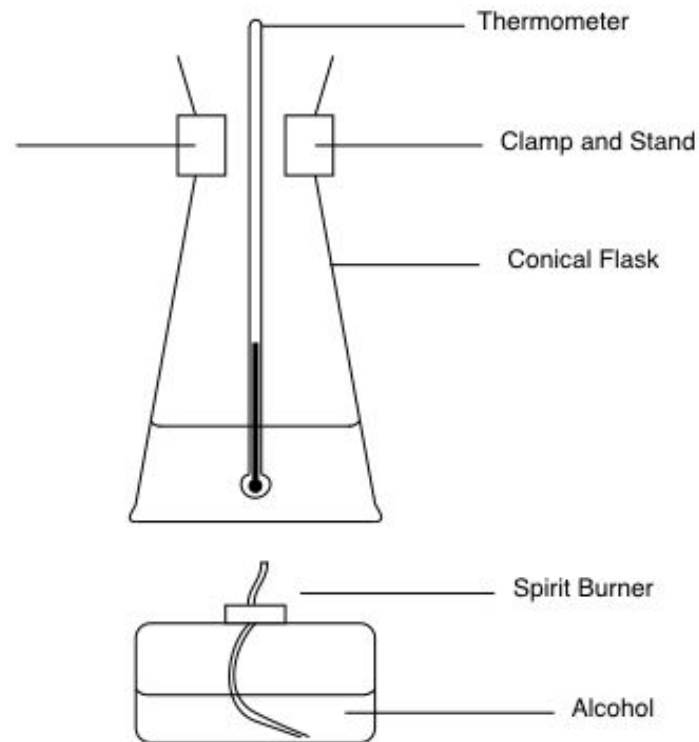
This produces a negative ΔH° value.



Draw a diagram of the equipment used in a calorimetry experiment.



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Why must a capped spirit burner be used in calorimetry experiments?



Why must a capped spirit burner be used in calorimetry experiments?

The cap prevents the excess evaporation of the alcohol fuel in the burner so that the measured change in mass is more accurate.

Therefore it helps with the calculation of a more accurate ΔT and ΔH^\ominus .

