

AP Questions: Thermochemistry

1984 B

Substance	Standard Heat of Formation, ΔH_f° in kJ/mol
C(s)	0.00
CO ₂ (g)	-393.5
H ₂ (g)	0.00
H ₂ O(l)	-285.83
O ₂ (g)	0.00
C ₃ H ₇ COOH(l)	?

The enthalpy change for the combustion of butyric acid at 25°C, ΔH_{comb} , is -2,183.5 kilojoules per mole. The combustion reaction is



- From the above data, calculate the standard heat of formation, ΔH_f° , for butyric acid.
- Write a correctly balanced equation for the formation of butyric acid from its elements.

1988 B

Substance	Enthalpy of Combustion, ΔH (kilojoules/mole)
C(s)	-393.5
H ₂ (g)	-285.8
C ₂ H ₅ OH(l)	-1366.7
H ₂ O(l)	--

- Write a separate, balanced chemical equation for the combustion of each of the following: C(s), H₂(g), and C₂H₅OH(l). Consider the only products to be CO₂ and/or H₂O(l).
- In principle, ethanol can be prepared by the following reaction:



Calculate the standard enthalpy change, ΔH , for the preparation of ethanol, as shown in the reaction above.

1988 D

An experiment is to be performed to determine the standard molar enthalpy of neutralization of a strong acid by a strong base. Standard school laboratory equipment and a supply of standardized 1.00 molar HCl and standardized 1.00 molar NaOH are available.

- What equipment would be needed?
- What measurements should be taken?
- Without performing calculations, describe how the resulting data should be used to obtain the standard molar enthalpy of neutralization.
- When a class of students performed this experiment, the average of the results was -55.0 kilojoules per mole. The accepted value for the standard molar enthalpy of neutralization of a strong acid by a strong base is -57.7 kilojoules per mole. Propose two likely sources of experimental error that could account for the result obtained by the class.

1995 B

Propane, C₃H₈, is a hydrocarbon that is commonly used as fuel for cooking.

- Write a balanced equation for the complete combustion of propane gas, which yields CO₂(g) and H₂O(l).
- Calculate the volume of air at 30°C and 1.00 atmosphere that is needed to burn completely 10.0 grams of propane. Assume that air is 21.0 percent O₂ by volume.
- The heat of combustion of propane is -2,220.1 kJ/mol. Calculate the heat of formation, ΔH_f° , of propane given that ΔH_f° of H₂O(l) = -285.3 kJ/mol and ΔH_f° of CO₂(g) = -393.5 kJ/mol.
- Assuming that all of the heat evolved in burning 30.0 grams of propane is transferred to 8.00 kilograms of water (specific heat = 4.18 J/g°C), calculate the increase in temperature of water.

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