

## AP Questions: Thermochemistry

1984 B

Substance	Standard Heat of Formation, $\Delta H_f^\circ$ in kJ/mol
C(s)	0.00
CO <sub>2</sub> (g)	-393.5
H <sub>2</sub> (g)	0.00
H <sub>2</sub> O(l)	-285.83
O <sub>2</sub> (g)	0.00
C <sub>3</sub> H <sub>7</sub> COOH(l)	?

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



- From the above data, calculate the standard heat of formation,  $\Delta H_f^\circ$ , for butyric acid.
- Write a correctly balanced equation for the formation of butyric acid from its elements.

1988 B

Substance	Enthalpy of Combustion, $\Delta H$ (kilojoules/mole)
C(s)	-393.5
H <sub>2</sub> (g)	-285.8
C <sub>2</sub> H <sub>5</sub> OH(l)	-1366.7
H <sub>2</sub> O(l)	--

- Write a separate, balanced chemical equation for the combustion of each of the following: C(s), H<sub>2</sub>(g), and C<sub>2</sub>H<sub>5</sub>OH(l). Consider the only products to be CO<sub>2</sub> and/or H<sub>2</sub>O(l).
- In principle, ethanol can be prepared by the following reaction:



Calculate the standard enthalpy change,  $\Delta H$ , 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, C<sub>3</sub>H<sub>8</sub>, is a hydrocarbon that is commonly used as fuel for cooking.

- Write a balanced equation for the complete combustion of propane gas, which yields CO<sub>2</sub>(g) and H<sub>2</sub>O(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 O<sub>2</sub> by volume.
- The heat of combustion of propane is -2,220.1 kJ/mol. Calculate the heat of formation,  $\Delta H_f^\circ$ , of propane given that  $\Delta H_f^\circ$  of H<sub>2</sub>O(l) = -285.3 kJ/mol and  $\Delta H_f^\circ$  of CO<sub>2</sub>(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.

# Questions On Thermochemistry

**G Thomas**



## Questions On Thermochemistry:

## Questions On Thermochemistry Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Questions On Thermochemistry**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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