

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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Oswaal Editorial Board



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Objective Question Bank in Chemistry B.K. Sharma, 1997 14000 + Objective Questions - General Studies Manohar Pandey, 2018-04-20 Arihant has come up with a revised edition of a compendium of over 14000 questions which will significantly improve the knowledge of aspiring students by providing them with ready and reliable practice material for General Studies The book has been designed for the aspirants preparing for IAS CSAT State PCS CDS NDA and other competitive examinations The revised edition of this question bank focuses on Indian History Culture India World Geography Env Eco Indian Polity Indian Economy General Science Science Technology General Knowledge and Current Affairs The book contains the collection of over 14000 questions covering General Studies The History section covers ancient medieval and modern history whereas the Geography section covers world geography Indian geography and environment ecology The General Science section covers Physics Chemistry Biology and Science Technology The questions covered in the book contain answers side by side to help aspirants evaluate themselves after attempting a certain number of questions Also the questions asked in recent years General Studies examinations have been provided in the book with authentic and detailed solutions to help aspirants get an insight into the recent examination pattern and the types of questions asked therein Each chapter in the book contains a variety of questions according to the latest pattern Assertion Reason Matching Multi Statements Arrangements Pairing etc Also more than 500 questions based on Current Affairs have been provided in the book to give an additional advantage to the aspirants As the book contains ample number of objective questions which have been designed for students of various competitive examinations it for sure will act as the best preparation material for general studies for UPSC CSAT State PCS CDS NDA etc *Engineering Chemistry I (for BPUT)* Patrizia Bocchetta, 2024 General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material

A Textbook of Physical Chemistry, 6th Edition Sharma K.K. & Sharma L.K., 2016 A Textbook of Physical Chemistry

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