

THERMOCHEMISTRY ASSIGNMENT

1. Methanol (molar mass = 32.04 g/mol) is formed during the combustion of propane in a combustion cell. The following energy cycle for this reaction is given. The enthalpy of combustion of propane is given as $-2043 \text{ kJ mol}^{-1}$. The enthalpy of formation of methanol is -239 kJ mol^{-1} . Calculate the enthalpy of formation of propane from carbon.

The following cycle is provided, and an arrow will release energy and increase the temperature in the last step; the combustion cell is being produced. As a result, the last cell cannot be a combustion reaction; it must be a reaction for the reaction.

2. Methanol has a specific enthalpy of combustion of 20 MJ kg^{-1} . How much energy is needed to raise the temperature of an 800 g block of aluminium from 20°C to 100°C ?



3. Methanol has a specific enthalpy of combustion of 20 MJ kg^{-1} . How much energy is needed to raise the temperature of an 800 g block of aluminium from 20°C to 100°C ?



4. To make 750 g of water the temperature of 500 g of steel is 100°C . What is the specific heat capacity of steel?



5. A substance is slowly cooled from 100°C to a temperature of 20°C . 1000 g of particles are formed. How much of the 10°C is added to the water, and the temperature is 20°C . The substance has an enthalpy of fusion of 333 kJ kg^{-1} . Calculate the enthalpy of the water of particles formed.

Reaction Rates And Thermochemistry Answers

JS Bruner



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Structure/Reactivity and Thermochemistry of Ions Pierre Ausloos, Sharon G. Lias, 2012-12-06 This volume presents the proceedings of a 1986 Advanced Study Institute entitled Structure Reactivity and Thermochemistry of Ions held at Les Arcs France June 30 to July 11 1986 The format of a NATO Institute is ideally suited to in depth communications between scien tists of diverse backgrounds Particularly in the field of ion physics and chemistry where on going research involves physicists physical chemists and organic chemists who use a variety of experimental and theoretical

techniques it is found that in the relaxed but stimulating atmosphere of a NATO ASI each professional group provides unique insights leading to a better definition and solution of problems relating to the properties of gas phase ions This book presents chapters based on the lectures presented at the Les Arcs ASI The participants took the initiative to organize a number of specialized workshops informal discussion groups which considered questions or problem areas of particular interest The accounts of these sessions which are also included in this book make stimulating reading and include considerable useful information This Advanced Study Institute is the fourth in a series of NATO sponsored institutes devoted to the chemistry and physics of ions in the gas phase The first in 1974 in Biarritz France focussed on Interactions between Ions and Molecules

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Problem Exercises for General Chemistry G.Gilbert Long,Forrest C. Hentz,1986-08-14 A question answer supplement to accompany a 1 year general chemistry course This text is a multiple choice format and can be used with any standard general chemistry text The exercises emphasize the importance of problem solving and equation writing in the style used in general chemistry examinations and professional school aptitude examinations such as the MCAT and VCAT

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Master the PCAT Peterson's,2012-07-15 Peterson s Master the PCAT is an in depth review that offers thorough preparation for the computer based exam After learning about the structure format scoring and score reporting and the subtests and question types you can take a diagnostic test to learn about your strengths and weaknesses The next six parts of the eBook are focused on detailed subject reviews for each subtest verbal ability reading comprehension biology chemistry quantative ability and writing Each review includes practice questions with detailed answer explanations You can take two practice tests to track your study progress The tests also offer detailed answer explanations to further improve your knowledge and inderstanding of the tested subjects The eBook concludes with an appendix that provides helpful information on a variety of careers in pharmacy and ten in depth career profiles

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