

Chapter 6 Thermochemistry

Homework Problems

- The enthalpy change for the fermentation (without oxygen, O_2 gas) reaction of glucose to alcohol and carbon dioxide is -67 kJ.
 - Write a chemical equation for the fermentation reaction and show how energy is involved in the reaction.
 - Is the reaction exothermic or endothermic?
 - Is energy, in the form of heat, absorbed or evolved as the reaction occurs?
- The specific heat capacity of graphite is 0.71 J/°C·g. Calculate the energy required to:
 - Raise the temperature of 1.0 mol graphite by 1.0 °C.
 - Raise the temperature of 850 g graphite by 150 °C.
 - Raise the temperature of 75 kg graphite from 294 K to 348 K.
- In a coffee-cup calorimeter, 100.0 mL of 1.0 M NaOH and 100.0 mL of 1.0 M HCl are mixed. Both solutions were originally at 24.6 °C. After the reaction, the final temperature is 31.3 °C. Assume that all the solutions have a density of 1.0 g/mL and a specific heat capacity of 4.18 J/g°C. Calculate the enthalpy change for the neutralization of HCl by NaOH. Assume that no heat is lost to the surroundings or to the calorimeter.
- Camphor ($C_{15}H_{26}O$) has an energy of combustion of -5903.6 kJ/mol. A sample of camphor with a mass of 0.1204 g is burned in a bomb calorimeter, the temperature increases by 2.28 °C. Calculate the heat capacity of the calorimeter.
A 0.1964 g sample of quinone ($C_6H_4O_2$) is burned in a bomb calorimeter that has a heat capacity of 1.56 kJ/°C. The temperature of the calorimeter increases by 3.2 °C. Calculate the energy of combustion of quinone per gram and per mole.

Chapter 6 Thermochemistry Homework Problems

N Colangelo



Chapter 6 Thermochemistry Homework Problems:

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Chapter 6 Thermochemistry Homework Problems**

In some sort of inundated with screens and the cacophony of instantaneous conversation, the profound energy and psychological resonance of verbal artistry often fade in to obscurity, eclipsed by the regular assault of sound and distractions. Yet, situated within the musical pages of **Chapter 6 Thermochemistry Homework Problems**, a interesting work of fictional elegance that impulses with organic feelings, lies an memorable trip waiting to be embarked upon. Written by a virtuoso wordsmith, that enchanting opus courses readers on a psychological odyssey, gently exposing the latent possible and profound influence embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is main themes, dissect its interesting writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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