THERMOCHEMISTRY—HEAT AND CHEMICAL CHANGE

PRACTICE PROBLEMS

Its year exchabitoit, solve the following problems.

SECTION ILLI THE FLOW OF EMERGY

the the 3-step problem onlying approach me because in Chapter 4.

- 1. How many hilojoules of mergy are to a do not that remistes 200.0 Calories?
- What is the specific heat of a substance that has a mass of 25.0 g and requires 529.0 calories to raise its temperature by 15.0 °C?
- Suppose 180.8 g of R₂O(s) absorbs 1258.8 J of heat. What is the corresponding temperature change? The specific hast capacity of H₂O(s) is 2.1 F (g × TC).
- Here invery joules of head overgy are required to raise the temperature of 100.0 g of also shows by 120.0 "C?The specific heat superity of also is a mis 0.90 3 (g = "C).

SECTION 11.2 MEASURING AND EXPRESSING HEAT CHANGES

A standard mixed 75.0 mL of water containing 0.75 mol 900 at 25 °C with 75.0 mL
of water containing 0.75 mol of NaOH at 25 °C to a flower sup as becomes. The
temperature of the testiting solution increased to 15 °C. Were much hear in
hillojoules was released by this teaction?

 Calculate the amount of heat evolved when 15.0 g of CatOHO, them a from the exaction of CatO(1 + 81.00).

$$CaO_{OO} + H_{g}O_{OO} \rightarrow CapOH_{1gOI}$$
 $\Delta N = -65.2 \text{ kJ}$

 Calculate the present of heat preduced when 32.4 g of methane, CH_o, burns in an excess of sir, according to the following equation.

 Bullance the following equation then calculate the enthalpy change for the reaction given that the standard beat of combustion of NH₂(g) is = 228 kB mel. NH₂(g) + O₂(g) = NO(g) + H₂(O(g)

SECTION 11.3 HEAT IN CHANGES OF STATE

- Calculate the one count of hear needed to mail: 35.0 g of less at 0.50. Express your accrees in Albeitsules.
- Calculate the accurant of heat worded to someen 190.0 g of figurid water at 18 °C to mean at 100.0 °C.
- How much heat RG is released when 2.543 mel NpOHos is dissolved in water? NaOHos ^{20,000}, Na. Sent. + OH (sec) — Mr., w = -448.1 kPm st
- Calculate the answert of fixed seaded to consent 96 g of for at −24 °C to water at 36 °C. The specific has a canacity of H-Oth is 2.1 2 to × °C;

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