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How to Calculate Enthalpy Change Using a Calorimeter

Calorimetry: Crash Course Chemistry #19  
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#18 Coffee Cup Calorimeter - Calculate Enthalpy Change,  
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Enthalpy Phase Changes: Exothermic or Endothermic?  
Coffee Cup Calorimetry

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Bomb Calorimeter vs Coffee Cup Calorimeter Problem -  
Constant Pressure vs Constant Volume Calorimeter  
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A simple calorimeter constructed from Styrofoam coffee cups,  
such as you will use in the laboratory, measures reaction  
heats under constant pressure conditions; thus,  $q_{rxn} = ?$

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Hrxn, the change in enthalpy of the reaction. This is often used to measure the heat change of a solution formed in the inner cup.

~~7A: First Law, Enthalpy, Calorimetry, and Hess's Law ...~~

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Enthalpy Stoichiometry Name \_\_\_\_\_ . Chem  
Worksheet 16-3. Example. How much heat is produced when  
85 g of sulfur reacts according to the reaction below?  $2S + 3O_2 \rightarrow 2SO_3$   $\Delta H = -792 \text{ kJ}$ . - the  $\Delta H$  value given in the equation is  
the amount of heat transferred when 2 moles of sulfur and 3  
moles of oxygen react.

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Enthalpy Calorimetry Name Chem Worksheet 16 4 Enthalpy Calorimetry Name Chem Worksheet calorimeter?  $\text{KOH(s)} ?$   
 $-\text{K}^+(\text{aq}) + \text{OH}^-(\text{aq}) \Delta H = -56.3 \text{ kJ/mol}$  5. When a 16.9-g sample of NaOH dissolves in 70.0 g of water in a calorimeter, the temperature rises from  $22.4^\circ\text{C}$  to  $86.6^\circ\text{C}$ .

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Worksheet 16 — Calorimetry Calorimetry is the experimental measurement of heat (q) produced in chemical and physical processes. Heat can not be measured directly, but temperature changes can be measured. The factor that links these two is heat capacity. Heat capacity, C, is defined as the heat required to raise the temperature of a

~~University of Illinois at Urbana-Champaign~~

Dr. Gupta/Thermochemistry/Practice/Calorimetry and Heats  
of Reaction/Page 3 of 3 7) Use the equations given to

calculate the enthalpy change for the equation given below.

$2\text{NO}_2(\text{g}) \rightleftharpoons \text{N}_2\text{O}_4(\text{g})$   $H = ?$  (Ans: -24.0 KJ) Given: a)  $\text{N}_2(\text{g}) + 2\text{O}_2(\text{g}) \rightleftharpoons \text{N}_2\text{O}_4(\text{g})$   $H = +9.2 \text{ KJ}$  b)  $\text{N}_2(\text{g}) + 2\text{O}_2(\text{g}) \rightleftharpoons 2\text{NO}$

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2 (g) H = +33.2 KJ

~~Thermochemistry/Practice Calorimetry and Heat of Reaction~~

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Name: Thermochemistry Worksheet #1 1. The reaction of magnesium with sulfuric acid was carried out in a calorimeter. This reaction caused the temperature of 27.0 grams of liquid water, within the calorimeter, to raise from 25.0 C to 76.0 C. Calculate the energy associated with this reaction. 2.

~~Thermochemistry Worksheet #1~~

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WNHS Chemistry a Heat equation: Aluminum . Iron .. 1-120 (liquid).. Name Calorimetry Problems Worksheet #1 ecific Heat Ca acities Joules/ 0 Period .. 0.903 . 0.449 4.18 ass . Lead San . 0.386 0.128 0.740 / 4./8<sup>3</sup>/<sub>4</sub>oc \* Mtn70Hze . 1. Three different 30-gram metal samples brass, and¥2 were heated to

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— Calorimetry Calorimetry is the experimental measurement of heat ( $q$ ) produced in chemical and physical processes. Heat can not be measured directly, but temperature changes can be measured. The factor that links these two is heat capacity. Heat capacity,  $C$ ,

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Enthalpy Calorimetry Name Chem Worksheet 16 4 Enthalpy Calorimetry Name Chem Worksheet Heat Capacity, Molar Heat Capacity, and Specific Heat. The heat capacity,  $C$ , is the amount of heat,  $q$ , required to raise the temperature,  $\Delta T$ , of an object by  $1\text{ }^\circ\text{C}$ . The three variables are related by the equation  $[q = C\Delta T]$  The value of  $C$  in this ...

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Calculate the heat of reaction,  $q_{\text{rxn}}$ , assuming no heat loss to the calorimeter. PDF Calculations based on Hess's Law - East Kilbride. Calculations based on Hess's Law Past Paper Questions 2002 MC 23 Written 4 (b) 2003 MC 30 Written 4 (b) 2004 MC 30 Written 15 (a) Using Hess's Law to Calculate the Change in ...

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~~Questions And Answers On Hess's Law~~  
Calorimetry And Enthalpy Worksheet

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