

**CHEM 101 Worksheet, Chapter 6: Thermochemistry**

*Multiple choice questions 1-10 (page 1): circle the correct answer(A-E)*

*Show your work questions 11-13 (pages 2-3): give the complete answer in the space provided*

$R = 8.314 \text{ J/(mol.K)} = 0.08206 \text{ L.atm/(mol.K)}$        $1 \text{ cal} = 4.184 \text{ J}$        $0^\circ\text{C} = 273 \text{ K}$

1. Calculate the heat effect  $q$  (in kJ) when 112 g of iron (Fe(s)) is heated from  $20^\circ\text{C}$  to  $300^\circ\text{C}$ . The specific heat of Fe(s) =  $0.48 \text{ J/g.K}$

- A.  $-34.9 \text{ kJ}$       B.  $+34.9 \text{ kJ}$       C.  $-15.0 \text{ kJ}$       D.  $-270 \text{ J}$       E.  $+15.0 \text{ kJ}$

2. The dissolution reaction for ammonium chloride:  $\text{NH}_4\text{Cl(s)} \rightarrow \text{NH}_4^+(\text{aq}) + \text{Cl}^-(\text{aq})$  is endothermic. When ammonium chloride is dissolved in water in an insulated (adiabatic) system, the temperature will:

- A. increase      B. decrease      C. stay the same

3. Consider the reaction:  $\text{CaCO}_3(\text{s}) \rightarrow \text{CaO(s)} + \text{CO}_2(\text{g})$ .  $\Delta H_{\text{rxn}} = +178 \text{ kJ}$  What is the enthalpy change when 20.0 kg CaO is formed?

- A.  $+6.36 \times 10^4 \text{ kJ}$       B.  $-6.36 \times 10^4 \text{ kJ}$       C.  $+6.36 \times 10^4 \text{ J}$       D.  $63.6 \text{ kJ}$       E.  $+178 \text{ kJ}$

4. Consider the reaction:  $2\text{NO} + \text{O}_2 \rightarrow 2\text{NO}_2$ .  $\Delta H_{\text{rxn}} = -114.6 \text{ kJ}$  As always, the  $\Delta H$  is "for the reaction as written"! Calculate the enthalpy change  $\Delta H$ , when 12.6 g  $\text{NO}_2$  is produced.

- A.  $-31.4 \text{ kJ}$       B.  $+31.4 \text{ kJ}$       C.  $-15.7 \text{ kJ}$       D.  $+15.7 \text{ kJ}$       E. none of these

5. How much heat is associated with the reaction that produces 256.1 g of ammonia,  $\text{NH}_3$ ?



- A. 92.45 kJ of heat is released      B. 696.1 kJ of heat is released      C. 184.9 kJ of heat is absorbed  
D. 184.9 kJ of heat is released      E. 92 kJ of heat is released

6. Which two of the following are not formation reactions?

1.  $\frac{1}{2}\text{N}_2(\text{g}) + \frac{1}{2}\text{H}_2(\text{g}) \rightarrow \text{NH}_3(\text{g})$       2.  $\text{C(s)} + \text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g})$       3.  $2\text{SO}_2(\text{g}) + \text{O}_2(\text{g}) \rightarrow 2\text{SO}_3(\text{g})$   
4.  $2\text{Fe(s)} + \frac{1}{2}\text{O}_2(\text{g}) \rightarrow \text{Fe}_2\text{O}_3(\text{s})$       5.  $\frac{1}{2}\text{H}_2(\text{g}) + \frac{1}{2}\text{I}_2(\text{g}) \rightarrow \text{HI(g)}$

- A. 1 and 2      B. 3 and 4      C. 2 and 3      D. 4 and 5      E. 3 and 5

7. Consider the thermochemical reaction equation:  $2\text{CO(g)} + \text{O}_2(\text{g}) \rightarrow 2\text{CO}_2(\text{g})$   $\Delta H = -198 \text{ kJ}$

What is the enthalpy change for the reaction:  $\text{CO}_2(\text{g}) \rightarrow \text{CO(g)} + \frac{1}{2}\text{O}_2(\text{g})$

- A.  $+198 \text{ kJ}$       B.  $-99 \text{ kJ}$       C.  $+99 \text{ kJ}$       D.  $+396 \text{ kJ}$       E.  $-198 \text{ kJ}$

8. Calculate the enthalpy change for the reaction:  $2\text{KClO}_3 \rightarrow 2 \text{KCl} + \text{O}_2(\text{g})$

Standard enthalpy of formation values:  $\Delta H_f^\circ(\text{KClO}_3) = -389 \text{ kJ/mol}$   $\Delta H_f^\circ(\text{KCl}) = -436 \text{ kJ/mol}$

- A.  $-94 \text{ kJ}$       B.  $-47 \text{ kJ}$       C.  $+94 \text{ kJ}$       D.  $+47 \text{ kJ}$   
E. Cannot be calculated because  $\Delta H_f^\circ(\text{O}_2(\text{g}))$  is not given

9. Given the following two thermochemical equations:



What is the enthalpy change for the reaction:  $2\text{H}_2\text{O}_2(\text{l}) \rightarrow 2\text{H}_2\text{O(l)} + \text{O}_2(\text{g})$ ?

- A.  $-98 \text{ kJ}$       B.  $+98 \text{ kJ}$       C.  $+196 \text{ kJ}$       D.  $-196 \text{ kJ}$       E.  $-668 \text{ kJ}$

10. Which of the following statements is correct for a combustion reaction in an adiabatic "bomb" calorimeter?

- A. the pressure is constant      B. the temperature is constant      C. the volume is constant  
D. the calorimeter constant's C units are  $\text{J/g.K}$       E.  $\Delta T(\text{K}) = \Delta T(^{\circ}\text{C}) + 273.15$

Show your work for the following questions.

# Multiple Choice Thermochemistry Questions

**Léo Pomar**



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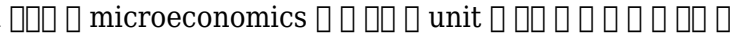
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