6) Use the following information to determine the heat of reaction for NO is + 15 Ozen - NO zen

$$99 N_{2133} + 98 O_{2133} \rightarrow NO_{133}$$
  $\Delta H = 90.4 \text{ kJ/mol}$   
 $99 N_{2133} + O_{2133} \rightarrow 2 NO_{2133}$   $\Delta H = 33.6 \text{ kJ/mol}$ 

7) Calculate the molar heat of formation for copper (I) oxide using the following information:

$$CuO_{10} + Cu_{10} \rightarrow Cu_{2}O_{10}$$
  $\Delta H = -11.3 \text{ kJ}$   
 $Cu_{2}O_{10} + V_{2}O_{2} \rightarrow 2 \text{ Cu}O_{10}$   $\Delta H = -114.6 \text{ kJ}$ 

8) Use heats of formation from the table in the appendix of your textbook to calculate the enthalpy of reaction for the following:

a) 
$$4 \text{ NH}_{2 (p)} + 5 \text{ O}_{2 (p)} \rightarrow 4 \text{ NO}_{(p)} + 6 \text{ H}_{2} \text{O}_{(p)}$$

$$(\Delta \text{H}_{1}^{(0)} \text{ for H}_{2} \text{O}_{(p)} = -241.8 \text{ kJ/mol})$$
b)  $2 \text{ H}_{2} \text{O}_{2 (p)} \rightarrow 2 \text{ H}_{2} \text{O}_{(p)} + \text{O}_{2 (p)}$ 

$$(\Delta \text{H}_{1}^{(0)} \text{ for H}_{2} \text{O}_{(p)} = -285.8 \text{ kJ/mol})$$

- Review: Calculate the amount of heat released when 4.79g of ethene (C<sub>2</sub>H<sub>4</sub>) is burned in excess oxygen. (ΔH<sub>continuou</sub> = -1.39 x 10<sup>3</sup> kJ/mol). Write the balance thermochemical equation for the reaction.
- 10) Review: An ice cube with a mass of 40.0 g melts in water originally at 25°C. How much heat is absorbed by the melting ice cube from the surrounding water?

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