Name

#### Thermochemical Equations and Calorimetry ANSWERS

A Thermochemical equation is simply a bulanced chemical equation that also includes the change in energy that occurs in the equation. For example, the thermochemical equation for the synthesis of ammonia is:

$$N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$$
  $\Delta H = -46.2 \text{ kJ}$ 

The coefficients in the equation represent moles, so what this means is that if I mole of N<sub>2</sub> reacts with J moles of H<sub>2</sub> and Z moles of NH<sub>3</sub> are produced, then 46.2 kJ will be given off.

But how can you tell that heat was released?

The ΔH of a reaction refers to the energy change that occurred in the reaction. The "Δ" means "change in" and the H refers to the "heat content" (also called "enthalpy") of the chemicals.

AH is always the H of the products - H of the reactants.

If a reaction is **endothermic**, this means that the chemicals in the reaction absorbed heat from their surroundings, so that the products have more energy than the reactants. Since  $\Delta H = H_{products} - H_{contents}$ , and in an endothermic reaction the products have more stored energy than the reactants (after all, they absorbed some heat), the  $\Delta H$  will always be positive for an endothermic reaction. This makes sense because heat was added, so you would expect the change in heat content to be positive.

In the reaction at the top of the page, the  $\Delta H$  is negative. This means that the reaction is **exothermic** and that as the reaction occurred heat was released to the surroundings. The reactants gave off heat energy, so the products must have less energy than the reactants. And since  $\Delta H = H_{pattern} = H_{cactann}$  and since the products have less heat content than the reactants, the  $\Delta M$  must always be negative for an exothermic reaction. This makes sense because the chemicals in the reaction lost heat.

Again referring to the thermochemical equation above, it tells us that when 2 moles of NH, are symbosized, 46.2 kJ are given off to the surroundings. What would be the AH if 2 moles of NH, were decomposed? Well, since 46.2 kJ are released when 2 moles of NH, are formed, then 46.2 kJ of best would have to be absorbed in order to do the opposite. Thus, the AH for the reverse reaction would be +46.2 kJ.

How thermochemical equations are used:

#### Determining the amount of heat absorbed or released in a reaction.

$$N_2(g) + 3H_2(g) \rightarrow 2NH_3(g) \Delta H = -46.2 \text{ kJ}$$

Example: Given the thermochemical equation above, determine how much heat would be released if only 1 mole of NH<sub>3</sub> was synthesized.

Well, according to the thermochemical equation 46.2 kJ are released when 2 moles are synthesized, then half this—or 23.2 kJ—would be released when 1 mole of NH<sub>3</sub> is synthesized.

$$1 \text{ mole NH} \times \frac{46.2 \text{ kJ}}{2 \text{ moles NH}} = 23.1 \text{ kJ}$$

You'll notice that the negative sign is not in front of the 46.2 kJ. The sign + or - only needs to appear in the thermochemical equation, nowhere else.

# **Thermochemistry Packet Answers**

Ying Liu

# **Thermochemistry Packet Answers:**

Learning about Materials Ted Lister, Colin Osborne, 1998 This book presents useful material in the form of teacher's notes and photocopiable worksheets It will be useful at pre and post 16 level The Education Gazette of the Province of the Cape of Good Hope (South Africa). Education Department, 1915 The Illustrated London News, 1866

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