Name

Thermochemical Equations and Calorimetry ANSWERS

A Thermochemical equation is simply a hulaword observed equation that also includes the change in energy that occurs in the equation. For example, the thermochemical equation for the synthesis of antironic is:

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

The coefficients in the expantion represent moles, so what this means is that if I mole of N₂ reacts with 3 moles of H₂ and 2 moles of NH, are produced, then 46.2 kJ will be given off.

But how can you tell that heat was released?

The AH of a seaction refers to the energy change that occurred in the reaction. The "A" means "change in" and the H refers to the "heat content" (also called "embalgy") of the chemicals.

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

If a reaction is endethermic, this recase that the chemicals in the reaction absorbed beat from their surroundings, so that the products have more energy than the reactions. Since $\Delta H = H_{\rm color} - H_{\rm color}$ and in an endothermic reaction the products have more stand energy than the reactions (after all, they absorbed some heat), the ΔH will always be positive for an evaluationaries. This makes sense because heat was added, so you would expect the charge in heat content to be positive.

In the reaction at the top-of-the page, the AH is negative. This means that the reaction is **exothermic** and that as the reaction occurred heat was released to the summaridings. The reactions gave off-heat energy, so the products must have less energy than the reactions. And since AH = H_{motion} = H_{motion}, and since the products have less heat content than the reactions, the AH mass always be negative for an anotherwise reaction. This reaks sense because the chemicals in the reaction last have

Again referring to the thermochemical equation above, it tells us that when 2 moles of NH, are conducted, 46.2 kJ are given off to the surroundings. What would be the AH if 2 moles of NH, were discomposed? Well, since 46.2 kJ are referred when 2 moles of NH, are pleased, then 46.2 kJ are referred to be above hed in order to do the convenie. Thus, the AH for the reverse reaction would be ~46.2 kJ.

How thermochemical equations are soud:

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 how would be released if only I made of NH, 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 7 mole of Nills, is synthesized.

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

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

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