Hess's Law Practice Problems

Please check back for the answers. I will repost this document with the answers at a later date

1. Given the following equations and ΔH^* values, determine the heat of reaction (kJ) at 298 K for the reaction:

$$B_2H_4(g) + 6 Cl_2(g) \rightarrow 2 BCl_3(g) + 6 HCl(g)$$

 $BC1_1(g) + 3 H_2O(1) \longrightarrow H_2BO_1(g) + 3 HC1(g)$ $B_1H_1(g) + 6 H_2O(1) \longrightarrow 2 H_2BO_1(g) + 6 H_2(g)$ $1/2 H_2(g) + 1/2 C1_2(g) \longrightarrow BC1(g)$ $\Delta H^{o}/kJ = -112.5$ $\Delta H^{o}/kJ = -493.4$ $\Delta H^{o}/kJ = -92.3$

Answer: -1376 kJ

2. Given the following equations and ΔH^* values, determine the heat of reaction (kJ) at 298 K for the reaction:

$$2 \text{ OF}_2(g) + 2 \text{ S(s)} \rightarrow \text{SO}_2(g) + \text{SF}_4(g)$$

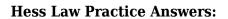
 $OF_2(g) + H_2O(1) \longrightarrow O_2(g) + 2 HF(g)$ $SF_4(g) + 2 H_2O(1) \longrightarrow 4 HF(g) + SO_2(g)$ $S(s) + O_2(g) \longrightarrow SO_2(g)$ $\Delta H^{+}/kJ = -276.6$ $\Delta H^{+}/kJ = -827.5$ $\Delta H^{+}/kJ = -296.9$

Answer: -319.5 kJ

3. Determine $\triangle H^*/kJ$ for the following reaction using the listed enthalpies of reaction:

Hess Law Practice Answers

Raffaela Di Napoli



Whispering the Secrets of Language: An Mental Quest through **Hess Law Practice Answers**

In a digitally-driven world wherever screens reign supreme and quick communication drowns out the subtleties of language, the profound secrets and emotional subtleties concealed within phrases often go unheard. However, nestled within the pages of **Hess Law Practice Answers** a charming fictional treasure sporting with natural thoughts, lies an extraordinary quest waiting to be undertaken. Written by a talented wordsmith, that wonderful opus encourages viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the fabric of each word. Within the psychological depths of this touching review, we shall embark upon a sincere exploration of the book is core themes, dissect its interesting writing fashion, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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