CHEM 12 Hess's Law Worksheet

 Calculate the ∆H for the reaction: C₂H₄ (g) + H₂ (g) → C₂H₆ (g), from the following data:

$$\begin{array}{ll} C_2H_4\ (g) + 3\ O_2\ (g) \Rightarrow 2\ CO_2\ (g) + 2\ H_2O\ (l) & \Delta H = -\ 1411\ kJ\ /\ mole \\ C_2H_6\ (g) + 7/2\ O_2\ (g) \Rightarrow 2\ CO_2\ (g) + 3\ H_2O\ (l) & \Delta H = -\ 1560.\ kJ\ /\ mole \\ H_2\ (g) + \frac{1}{2}\ O_2\ (g) \Rightarrow H_2O\ (l) & \Delta H = -\ 285.8\ kJ\ /\ mole \end{array}$$

2. Calculate the ΔH for the reaction:

$$\begin{array}{ll} N_2 \, (g) + O_2 \, (g) \rightarrow 2 \; NO \, (g) & \Delta H = -180.5 \; kJ \; / \; mole \\ N_2 \, (g) + 3H_2 \, (g) \rightarrow 2 \; NH_3 \, (g) & \Delta H = -91.8 \; kJ \; / \; mole \\ 2 \, H_2 \, (g) + O_2 \, (g) \rightarrow 2 \; H_2O \, (g) & \Delta H = -483.6 \; kJ \; / \; mole \end{array}$$

3. Find the $\Delta H_{\rm f}$ ° (heat of formation) for acetic acid, $HC_2H_3O_2$, using the following thermochemical data:

$$HC_2H_3O_2(1) + 2 O_2(g) \rightarrow 2 CO_2(g) + 2 H_2O(1)$$
 $\Delta H = -875 \text{ kJ / mole}$ $C(s) + O_2(g) \rightarrow CO_2(g)$ $\Delta H = -394.51 \text{ kJ / mole}$

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In some sort of used by displays and the ceaseless chatter of immediate communication, the melodic splendor and psychological symphony produced by the written word usually fade into the backdrop, eclipsed by the constant sound and disruptions that permeate our lives. However, situated within the pages of 12 3 Hess S Law Answers Pg an enchanting fictional treasure full of raw feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that captivating masterpiece conducts readers on a mental journey, well unraveling the concealed songs and profound affect resonating within each carefully constructed phrase. Within the depths of the poignant assessment, we will explore the book is key harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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