

## CHEM 12 Hess's Law Worksheet

1. Calculate the  $\Delta H$  for the reaction:  $C_2H_4(g) + H_2(g) \rightarrow C_2H_6(g)$ ,  
from the following data:



2. Calculate the  $\Delta H$  for the reaction:  
 $4 NH_3(g) + 5 O_2(g) \rightarrow 4 NO(g) + 6 H_2O(g)$ , from the following data:



3. Find the  $\Delta H_f^\circ$  (heat of formation) for acetic acid,  $HC_2H_3O_2$ , using the following thermochemical data:



**Fun Fact:** C(s) is in the form of graphite.

Acetic acid,  $HC_2H_3O_2$ , actually has the structure:  $CH_3COOH$



4. Calculate the  $\Delta H$  for the reaction:  $CH_4(g) + NH_3(g) \rightarrow HCN(g) + 3 H_2(g)$ ,  
from the following data:



# 12 3 Hess S Law Answers

**Brian F. Woodfield, Matthew C. Asplund**

## **12 3 Hess S Law Answers:**

## Decoding **12 3 Hess S Law Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**12 3 Hess S Law Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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