

## 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

**Steven S. Zumdahl**



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