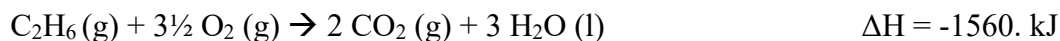
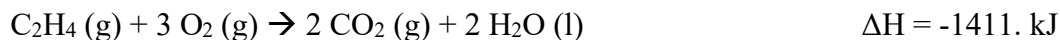


Name \_\_\_\_\_

Hess's Law Worksheet

1. Calculate  $\Delta H$  for the reaction:  $\text{C}_2\text{H}_4(\text{g}) + \text{H}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g})$ , from the following data.



2. Calculate  $\Delta H$  for the reaction  $4 \text{NH}_3(\text{g}) + 5 \text{O}_2(\text{g}) \rightarrow 4 \text{NO}(\text{g}) + 6 \text{H}_2\text{O}(\text{g})$ , from the following data.



3. Calculate  $\Delta H^\circ$  for the reaction  $2\text{H}_2(\text{g}) + 2\text{C}(\text{s}) + \text{O}_2(\text{g}) \rightarrow \text{C}_2\text{H}_5\text{OH}(\text{l})$ , using the following data.

