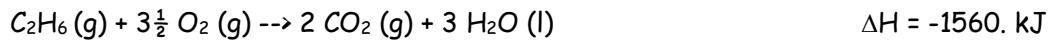
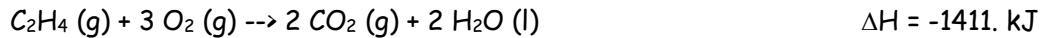


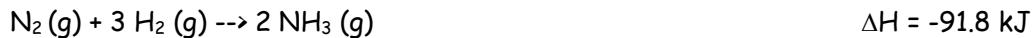
Advanced Chemistry
Hess's Law Worksheet

Name _____

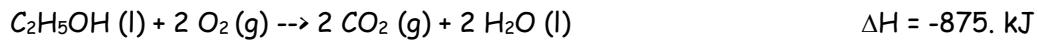
1. Calculate ΔH for the reaction: $C_2H_4(g) + H_2(g) \rightarrow C_2H_6(g)$, from the following Data.



2. Calculate ΔH 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 ΔH° for the reaction $2H_2(g) + 2C(s) + O_2(g) \rightarrow C_2H_5OH(l)$, using the following thermochemical data.



4. Calculate ΔH for the reaction $\text{CH}_4(g) + \text{NH}_3(g) \rightarrow \text{HCN}(g) + 3 \text{H}_2(g)$, given:



5. Calculate ΔH for the reaction $2 \text{Al}(s) + 3 \text{Cl}_2(g) \rightarrow 2 \text{AlCl}_3(s)$ from the data.

