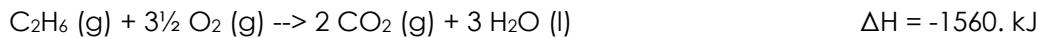
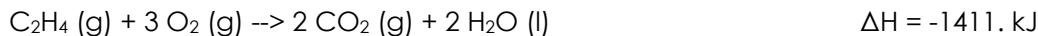


Hess's Law Worksheet

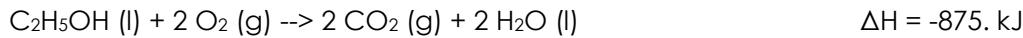
1. Calculate ΔH for the reaction: $C_2H_4(g) + H_2(g) \rightarrow C_2H_6(g)$, from the following data.



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 $CH_4(g) + NH_3(g) \rightarrow HCN(g) + 3 H_2(g)$, given:



5. Calculate ΔH for the reaction $2 Al(s) + 3 Cl_2(g) \rightarrow 2 AlCl_3(s)$ from the data.

