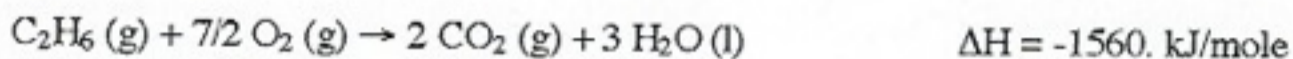
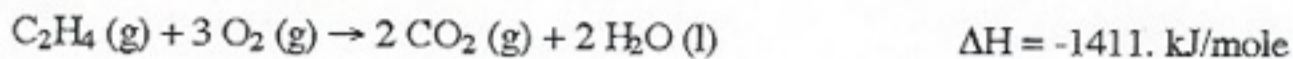


K E V

Chemistry  
Hess's Law Worksheet

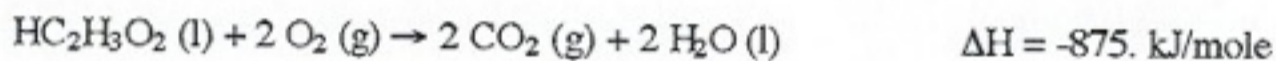
1. Calculate  $\Delta H$  for the reaction  $C_2H_4(g) + H_2(g) \rightarrow C_2H_6(g)$ , from the following data.



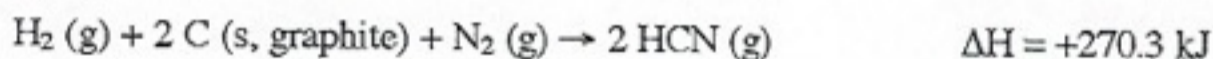
2. Calculate  $\Delta H$  for the reaction  $4 NH_3(g) + 5 O_2(g) \rightarrow 4 NO(g) + 6 H_2O(g)$ , from the following data.



3. Find  $\Delta H_f^\circ$  for acetic acid,  $HC_2H_3O_2$ , using the following thermochemical data.



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



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

