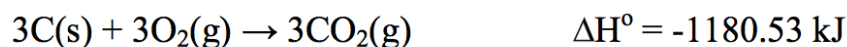
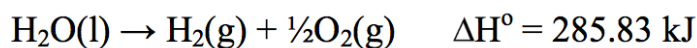
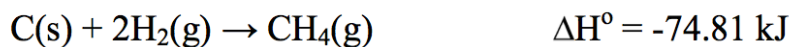
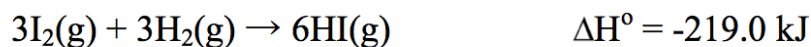


Hess's Law Homework

1. Use the thermochemical equations shown below to determine the molar enthalpy of combustion for methane.



2. Use the thermochemical equations shown below to determine the enthalpy of the reaction of iodine and hydrogen to produce hydrogen iodide. $\text{I}_2\text{(s)} + \text{H}_2\text{(g)} \rightarrow 2\text{HI(g)}$



3. Use the thermochemical equations shown below to determine the enthalpy for the reaction:
 $2\text{H}_2\text{O(l)} \rightarrow 2\text{H}_2\text{(g)} + \text{O}_2\text{(g)}$

