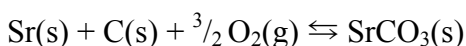


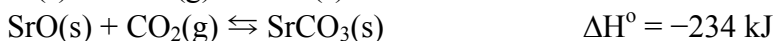
Hess's Law #2

Solve the following problems on a separate sheet of paper.

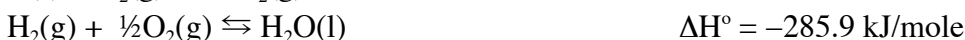
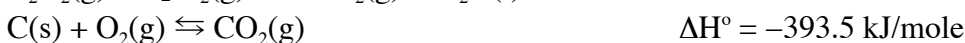
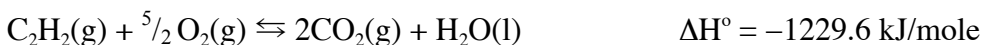
1) Use Hess' Law to calculate the heat of reaction for the formation of strontium carbonate, the material that gives the red color in fireworks:



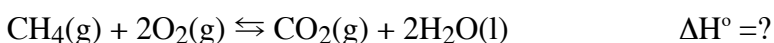
Using the following thermochemical equations:



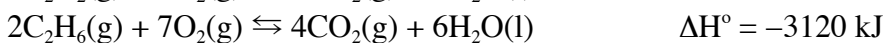
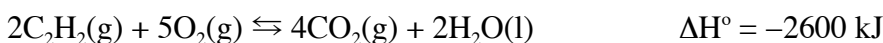
2) Use the following equations to calculate the enthalpy change for the following:



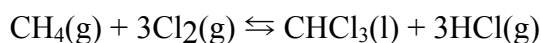
3) Use the following equations to calculate the enthalpy change for the following:



4) Use the following equations to calculate the enthalpy change for the following:



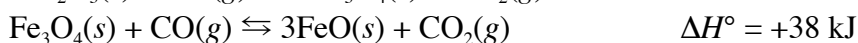
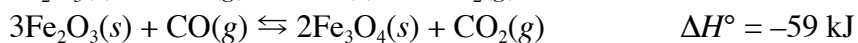
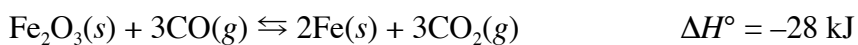
5) Find ΔH° for making chloroform (CHCl_3) from methane



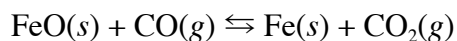
using the following equations:



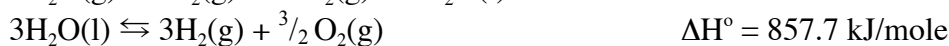
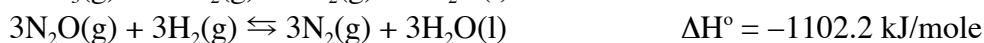
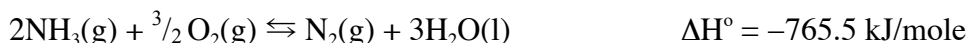
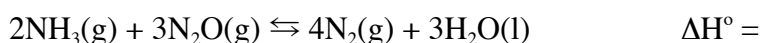
6) Given the following data:



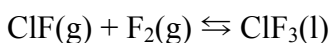
Calculate ΔH° for the reaction



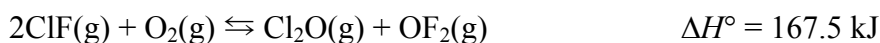
7) Use the following equations to calculate the enthalpy change for the following:



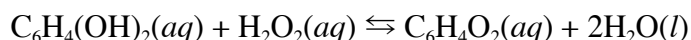
8) Use Hess' Law to calculate the heat of reaction for:



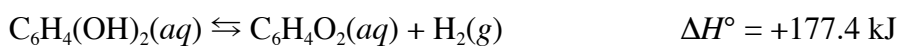
From:



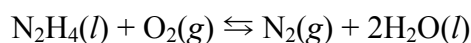
9) Calculate the ΔH° for this reaction:



from the following data:



10) Calculate ΔH° for the reaction



Given the following data

