Chem 1403
Virtual Postlab Exp. 9

_____ (name) _____ UK #

Solubility Product Virtual Laboratory
Thermodynamic Calculations

This Lab can be accessed at following Link:
https://chem.libretexts.org/LibreTexts/University_of_Arkansas_Little_Rock/Chem_1403%3A_General_Chemistry_2/LABS/Virtual_Laboratory/Virtual_Post_Lab_Exp_9%3A_Solubility_Product_and_Thermodynamics

Your report needs to include:

1. This sheet of paper as cover page or an appropriate cover page
2. Unknown Number on cover sheet
3. Value of K at room temperature. Show math
4. Value of ΔG^0 at room temperature (show math)
5. Value of K and ΔG^0 at 95ºC . You can change the temperature by right clicking on the flask and choosing the thermal properties setting. You must specify the temperature and show the math.
6. Value of ΔS^0 , show math.
7. Value of ΔH^0 , show math.

Note: You **do not use pH to calculate ion concentrations**. They are given by the virtual lab. Also, you can determine the formula of the salt from the charge of the ion. If the salt had a cation of +1 (C^+) and an anion of -1 (A^-), then the formula is CA_2 and the anion concentration if twice that of the cation as

$$CA_2 \rightarrow C^{+2} + 2A^-$$