

Chapter 8 – Activity

Objectives and Problems

At the end of this chapter you should:

- Understand the effect of ionic strength on the solubility of salts
Problems: 8-1, 8-2
- Know how to calculate the ionic strength of a simple or complex solution
Exercise: 8A
Problems: 8-3
- Be able to calculate the activity coefficient of a particular species using either the Debye-Hückel equation or the Davies equation
Exercise: 8B, 8C, 8D
Problems: 8-4, 8-6a, 8-7(using Davies), 8-8, 8-9, 8-10, 8-11, 8-12,
- Understand the effect of ionic strength, ion charge, and ion size on the activity coefficient (activity)
Problems: 8-2

Problem Set #5 (due Monday October 22nd)**Exercise 8-B****Problems: 8-2,**

8-4 (perform all calculations twice using both the Debye- Hückel AND Davies equation),

8.6a (use the Davies equation)

8-12 (use the Davies equation)