

Homework #2

1. Acid/Base Equilibria I: algebraic method

Determine the complete solution composition of the following systems (all are added to 1 liter of pure water), based on the governing equations. Make one or more simplifying assumptions, then solve the system of equations based on those assumptions, and check the assumptions.

- a. 5×10^{-3} moles HOCl
- b. 5×10^{-3} moles NaCN
- c. 5×10^{-8} moles HCl
- d. 1×10^{-3} moles HAc + 5×10^{-4} moles NaAc

Assigned: 7 Feb 20
Due: 14 Feb 20