

Solution and Answer Guide

Solution and Answer Guide: Skoog et al., *Fundamentals of Analytical Chemistry*, 10e,
© 2022, 978-0-357-45039-0, Chapter 9: Solving Equilibrium Problems for Complex Systems

Chapter 9

- 9-1.** Demonstrate how the sulfide ion concentration is related to the hydronium ion concentration of a solution that is kept saturated with hydrogen sulfide.

Solution:

The overall dissociation constant for H_2S is

$$\frac{[\text{H}_3\text{O}^+]^2[\text{S}^{2-}]}{[\text{H}_2\text{S}]} = K_1K_2$$

In a solution saturated with the gas, $[\text{H}_2\text{S}]$ is constant, therefore

$$[\text{S}^{2-}] = \frac{[\text{H}_2\text{S}]}{[\text{H}_3\text{O}^+]^2} K_1K_2 \text{ or } [\text{S}^{2-}] = \frac{K}{[\text{H}_3\text{O}^+]^2}$$

- *9-2.** Why are simplifying assumptions in equilibrium problems restricted to relationships that are sums or differences?

Answer:

To simplify equilibrium calculations, we sometimes assume that the concentrations of one or more species are negligible and can be approximated as 0.00 M. In a sum or difference assuming a concentration is 0.00 M leads to an appropriate result. In contrast, if we were to simplify an equilibrium constant expression by assuming one or more concentrations are zero, we would be multiplying or dividing by 0.00, which would render the expression meaningless.

- 9-3.** In the margin note on page 215, we suggest that the term *mass-balance equation* may be something of a misnomer. Using a specific chemical system, discuss mass balance and show that mass balance and concentration balance are equivalent.

Answer:

Let us take the case of 0.100 M acetic acid (HOAc). We usually write the mass balance as a concentration balance. That is

$$C_{\text{HOAc}} = 0.100 = [\text{HOAc}] + [\text{OAc}^-]$$

Since the concentrations are moles/L, we can write

$$\text{Initial moles HOAc/L} = \text{equilibrium moles HOAc/L} + \text{equilibrium moles OAc}^-/\text{L}$$

*Answers and solutions are provided in the Student Solutions Manual for questions and problems marked with an asterisk.

Skoog Spectroscopy Answer Guide

B. Pam Ismail, S. Suzanne Nielsen



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Bionanotechnology Experimental Guide Young-Chul Lee, Ju-Young Moon, 2025-07-19 This book examines the fascinating field of bionanotechnology which combines biology with the design development and uses of materials at the nanoscale A thorough introduction to nanotechnology and nanomaterials emphasizing their creation characterization and biological uses is provided in the beginning of the book The basics and applications of nanotechnology in numerous scientific fields will be clearly understood by readers The integration of nanomaterials and nanotechnology in several fields including medicine development genomics microbiology proteomics animal cell culture in vitro biology testing and even cosmetics is covered in more detail in later chapters Examine how these sectors are changing as a result of nanotechnology which is opening up new possibilities for innovation and development Additionally this book strives to create a balance between complex ideas and understandable language The plain writing approach ensures accessibility without sacrificing the book's intellectual tone The explanation of complex ideas is useful and entertaining An additional chapter in this book describes the procedures for creating an academic report This book provides you the knowledge and abilities you need to effectively explain scientific discoveries whether you're a researcher scientist or student

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