Ksp

- Solubility Equilbrium-The heterogeneous equilibrium involved in the dissolution or precipitation of ionic compounds. This will tell us the amount of a substance that will dissolve (solubility).
- 2. Vocabulary-
- a. saturated solution- a solution that contains undissolved solute in contact with the solvent.
- b. ionic solid- totally ionizes into its constituents.
- Solubility Product Constant aka solubility product, Ksp, indicates how soluble the solid is in water.
- a. Given an ionic compound BA, there is an equilibrium condition that occurs even though the compound completely ionizes. At the saturation point, ions are reforming the solid at the same rate that the solid is forming ions:
- $B_2A(s) \leftrightarrow 2B^*(aq) + A^*(aq)$ Ksp = $[B^*]^2[A^*]$; remember BA doesn't appear because it is a solid.
- b. Remember:
- Solubility Constant
 - has one value for a given solid at a given temperature.
 - is the molar concentration of ions raised to their stoichiometric powers.
- Solubility a equilibrium position.
 - Solubility changes as concentrations change.
 - Solubility is the amount (grams) of substance that dissolves to form a saturated solution
- Molar Solubility- a new unit
 - Molar solubility is the number of moles of solute dissolving to form a liter of saturated solution.
- 4. Conversion between the units
- To convert solubility to Ksp.
 - solubility needs to be converted into molar solubility (via molar mass);
 - molar solubility is converted into the molar concentration of ions at equilibrium (equilibrium calculation).
 - Ksp is the product of equilibrium concentration of ions.



Calculating Kap from Solubility I

Copper(I) bromide has a measured solubility of 2.0 X 10⁻⁸ mol/L at 25°C. Calculate its K_{sp} value.

Equilibrium And Ksp Study Guide

Pamela Mills, Amina El-Ashmawy

Equilibrium And Ksp Study Guide:

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Table of Contents Equilibrium And Ksp Study Guide

- 1. Understanding the eBook Equilibrium And Ksp Study Guide
 - The Rise of Digital Reading Equilibrium And Ksp Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Equilibrium And Ksp Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Equilibrium And Ksp Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Equilibrium And Ksp Study Guide
 - Personalized Recommendations
 - Equilibrium And Ksp Study Guide User Reviews and Ratings
 - Equilibrium And Ksp Study Guide and Bestseller Lists
- 5. Accessing Equilibrium And Ksp Study Guide Free and Paid eBooks

- Equilibrium And Ksp Study Guide Public Domain eBooks
- Equilibrium And Ksp Study Guide eBook Subscription Services
- Equilibrium And Ksp Study Guide Budget-Friendly Options
- 6. Navigating Equilibrium And Ksp Study Guide eBook Formats
 - o ePub, PDF, MOBI, and More
 - Equilibrium And Ksp Study Guide Compatibility with Devices
 - Equilibrium And Ksp Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Equilibrium And Ksp Study Guide
 - Highlighting and Note-Taking Equilibrium And Ksp Study Guide
 - o Interactive Elements Equilibrium And Ksp Study Guide
- 8. Staying Engaged with Equilibrium And Ksp Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Equilibrium And Ksp Study Guide
- 9. Balancing eBooks and Physical Books Equilibrium And Ksp Study Guide
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Equilibrium And Ksp Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Equilibrium And Ksp Study Guide
 - Setting Reading Goals Equilibrium And Ksp Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Equilibrium And Ksp Study Guide
 - Fact-Checking eBook Content of Equilibrium And Ksp Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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