

Practice Final Exam Chem 112

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Three hundred milliliters (150 mL) of 4.50 M sugar solution is diluted to 600 mL by the addition of pure water. Which of these statements about the solution is correct?
a. The moles of water remain the same. b. The moles of sugar decrease. c. The concentration of sugar increases to 5.0 M. d. The moles of sugar remain constant. e. All of these statements are incorrect.
- _____ 2. How many moles of solute are present in 75.0 grams of solution that is 1.30% by mass glucose ($C_6H_{12}O_6$)? $MM(C_6H_{12}O_6) = 180.16 \text{ g/mol}$
a. 5.4×10^{-3} moles b. 0.800 moles c. 176 moles d. 1.76×10^{-3} moles e. 225 moles
- _____ 3. A concentrated reagent is sold as a solution that is 60.0 mass % solute. If the molar mass of the solute is 244 g/mol and the density of this solution is 1.20 g/mL, what is the molarity of the solution?
a. 10.0 M b. 2.95 M c. 15.5 M d. 0.72 M e. 1.45 M
- _____ 4. The boiling point of pure benzene (C_6H_6) is 80.10 °C. A solution of 14.2 g of a solid dissolved in 64.0 g of benzene boils at 81.09 °C. If k_b for benzene is 2.53 °C/molal, the molar mass of the solid is:
a. 662 g/mol b. 56.0 g/mol c. 92.0 g/mol d. 628 g/mol e. 568 g/mol
- _____ 5. What is the freezing point for a 0.71 m solution of glycerol ($C_3H_8O_3$) in ethanol? Freezing point(ethanol) = -114.6 °C; $K_f(\text{ethanol}) = 1.99 \text{ °C/m}$
a. 0.10 °C b. -113.2 °C c. -1.41 °C d. -116.0 °C e. none of these
- _____ 6. At 450 °C, $K_c = 0.231$ for the reaction:



What is the value of the equilibrium constant for the following reaction at 450 °C?



- a. 0.481 b. 0.156 c. 0.231 d. 0.053 e. 4.329

- _____ 7. Consider the following system at equilibrium and its corresponding concentration equilibrium constant:



What is the value of K_p for this reaction at 470 °C?

- a. $K_p = 3.80 \times 10^{-6}$ b. $K_p = 8.53 \times 10^{-6}$ c. $K_p = 4.32 \times 10^{-5}$ d. $K_p = 1.10 \times 10^{-4}$ e. $K_p = 1.19 \times 10^4$

- _____ 8. For the reaction $\text{I}_2(\text{g}) + \text{Cl}_2(\text{g}) \rightleftharpoons 2 \text{ICl}(\text{g})$, the relation between K_p and K_c is:
a. $K_p = K_c$ b. $K_p = K_c(RT)^2$ c. $K_p = K_c(RT)^{-2}$ d. $K_c = K_p(RT)^2$ e. $K_p = K_c(RT)^4$

Practice General Chemistry 112 Final Exam

Camilla Rothe



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United States Air Force Academy United States Air Force Academy, *Annual Catalogue* United States Air Force Academy, 1984 **Undergraduate Announcement** University of Michigan--Dearborn, 1991 **Guide to Medical and Dental Schools** Saul Wischnitzer, Edith Wischnitzer, 2012-05-01 Updated with current facts figures and fees this directory profiles all AMA AOA and ADA accredited medical osteopathic and dental schools in the United States and Canada Every school profile provides up to date information on tuitions and fees admission requirements application procedures available financial aid a curriculum description grading and promotion policies teaching and library facilities housing facilities and special features and programs In addition to its comprehensive directory section this book is also a practical guidance manual for students who are contemplating careers in medicine and dentistry It presents MCAT and DAT test taking advice and sample essays written by medical school applicants Additional features include a model MCAT Medical College Admission Test with an answer key for self scoring selected questions with answers from recent DATs Dental College Admission Tests a self assessment admission profile a sample medical school application form detailed advice on medical career opportunities for women and minorities and much more Getting into Medical School For Dummies Carleen Eaton, 2013-05-03 Your plain English guide to getting into the medical school of your dreams Getting accepted to medical school is a long and rigorous process and many students find they need help If you re one of these students Getting into Medical School For Dummies is the perfect tool to help you through the process and realize your dream By providing you with concise information about preparing for and applying to medical school Getting into Medical School For Dummies prepares you for the application process Written by an industry expert it gives you a distinct advantage in the competitive medical school admissions process preparing you for every step and helping you create your best application Takes you through the often overwhelming process of applying to medical school Explains what medical schools and admissions committees are really looking for Provides plain English explanations of complicated medical school admissions processes If you re one of the over 40 000 students who apply to medical school each year and need help sorting through the admissions schedule writing statements of intent and preparing to take the MCAT Getting Into Medical School For Dummies has you covered *Super 10 Mock Tests for UPSC EPFO (Enforcement Officers/Accounts Officers) Exam (2020-21)* Disha Experts, 2020-06-20 Commonwealth Universities Yearbook , 1927 *Venereal Disease Information* , 1936 **Bulletin of the University of Miami** , 1955 *Journal of Venereal Disease Information* , 1936 Journal of the American Medical Association American Medical Association, 1924 **Industrial & Engineering Chemistry** , 1928 *Resources in Education* , 1995 **Horses For Dummies** Audrey Pavia, 2019-11-19 Updated for today s beginning horse enthusiasts If you re just getting into the world of horses there s a lot to learn Horses For Dummies gets beginning level riders and aspiring first time horse owners up to speed on all things equine From selecting the right horse for you to feeding grooming and

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Booklist ,1966

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[Paralegal Career For Dummies](#) Lisa Zimmer Hatch,Scott A. Hatch,2024-12-24 The verdict is in this is the must have resource for aspiring paralegals everywhere Looking for a new lucrative and rewarding career in the legal field Have you considered

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