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AP Chemistry

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1m magnesium chloride. 1m glucose. 1m sodium chloride.

2m glucose. Correct answer: 1m magnesium chloride.

Explanation: The equation for boiling point elevation is .

Since all of the solutions are aqueous, we do not need to consider the boiling point elevation constant ( $K_b$ ) when comparing the solutions.

Solutions - AP Chemistry - Varsity Tutors

Nitrates, acetates, chlorates, and perchlorates are soluble.

Chlorides, bromides, and iodides are generally soluble, unless they contain copper, silver, lead, or mercury. Sulfates are soluble, unless they contain barium, lead, silver, strontium, or calcium. Most silver salts are insoluble unless listed in rule #2.

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...

A solution that contains the maximum amount of dissolved solute. A solution that contains less than the maximum amount of dissolved solute.

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Exercise 7 Calculating the VP of a Solution Containing Two Liquids. A solution is prepared by mixing 5.81 g acetone ( $C_3H_6O$ , molar mass = 58.1 g/mol) and 11.9 g chloroform ( $CHCl_3$ , molar mass = 119.4 g/mol). At 35 ° C, this solution has a total vapor pressure of 260. torr.

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The Solution Process A solution is a homogeneous mixture of solute and solvent. Solutions may be gases, liquids, or solids. Each substance present is a component of the solution. The solvent is the component present in the largest amount. The other components are the solutes.

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AP\* Solution Chemistry Free Response Questions page 2  
1980 (a) A solution containing 3.23 grams of an unknown

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compound dissolved in 100.0 grams of water freezes at  $-0.97^{\circ}\text{C}$ . The solution does not conduct electricity. Calculate the molecular weight of the compound.

AP\* Solution Chemistry Free Response Questions

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Groups and Transition Elements and Representatives of Each  
3. Organic Chemistry 4. Structural Isomerism PRACTICE  
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CHEMISTRY EXAM III AP CHEMISTRY EXAM IV AP  
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AND TABLES EXCERPT About Research & Education  
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PREFACE This book provides an accurate and complete



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representation of the Advanced Placement Examination in Chemistry. Our six practice exams are based on the most recently administered Advanced Placement Chemistry Exams. Each exam is three hours in length and includes every type of question that can be expected on the actual exam. Following each exam is an answer key complete with detailed explanations designed to clarify and contextualize the material. By completing all six exams and studying the explanations which follow, you can discover your strengths and weaknesses and thereby become well prepared for the actual exam. The formulas and tables for the AP Chemistry Exam can be found at the back of this book, beginning on page 417. You will be provided these formulas and tables when you take the actual exam. You should also use this

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material when taking the practice tests in this book. ABOUT THE TEST The Advanced Placement Chemistry Examination is offered each May at participating schools and multi-school centers throughout the world. The Advanced Placement Program is designed to allow high school students to pursue college-level studies while attending high school. The participating colleges, in turn, grant credit and/or advanced placement to students who do well on the examinations. The Advanced Placement Chemistry course is designed to be the equivalent of a college introductory chemistry course, often taken by chemistry majors in their first year of college. Since the test covers a broad range of topics, no student is expected to answer all of the questions correctly. The exam is divided into two sections: 1) Multiple-choice: Composed of

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75 multiple-choice questions designed to test your ability to recall and understand a broad range of chemical concepts and calculations. This section constitutes 45% of the final grade and you are allowed 90 minutes for this portion of the exam. Calculators are not permitted for this section of the exam. 2) Free-response section: Composed of several comprehensive problems and essay topics. This section constitutes 55% of the final grade and the student is allowed 90 minutes for this portion of the exam. You may choose from the questions provided. These problems and essays are designed to test your ability to think clearly and to present ideas in a logical, coherent fashion. You can bring an electronic hand-held calculator for use on the 40-minute free-response section. Essay and chemical-reaction questions

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comprise the last 50 minutes of the test, during which calculators are not permitted. A final note about calculators: Most hand-held models are allowed in the test center; the only notable exceptions are those with typewriter-style (QWERTY) keypads. If you are unsure if your calculator is permitted, check with your teacher or Educational Testing Service. SCORING The multiple-choice section of the exam is scored by crediting each correct answer with one point, and deducting only partial credit (one-fourth of a point) for each incorrect answer. Omitted questions receive neither a credit nor a deduction. The essay section is scored by a group of more than 1,000 college and high school educators familiar with the AP Program. These graders evaluate the accuracy and coherence of the essays accordingly. The grades given

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for the essays are combined with the results of the multiple-choice section, and the total raw score is then converted to the program's five-point scale: 5 - Extremely well qualified 4 - Well qualified 3 - Qualified 2 - Possibly qualified

Includes three diagnostic tests and three full-length AP practice exams that are aligned with the upcoming, new AP Chemistry exam; all questions answered and explained; comprehensive subject review covering all test topics; study tips; plus FREE access to three additional full-length online tests with all questions answered and explained. The online exams can be easily accessed by computer, tablet, and smartphone.

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The book itself contains chapter-length subject reviews on every subject tested on the AP Chemistry exam, as well as both sample multiple-choice and free-response questions at each chapter's end. Two full-length practice tests with detailed answer explanations are included in the book.

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