

1 The properties of gases

1A The perfect gas

Answers to discussion questions

- 1A.2** The partial pressure of a gas in a mixture of gases is the pressure the gas would exert if it occupied alone the same container as the mixture at the same temperature. Dalton's law is a limiting law because it holds exactly only under conditions where the gases have no effect upon each other. This can only be true in the limit of zero pressure where the molecules of the gas are very far apart. Hence, Dalton's law holds exactly only for a mixture of perfect gases; for real gases, the law is only an approximation.

Solutions to exercises

- 1A.1(b)** The perfect gas law [1A.5] is $pV = nRT$, implying that the pressure would be
- $$p = \frac{nRT}{V}$$
- All quantities on the right are given to us except n , which can be computed from the given mass of Ar.
- $$n = \frac{25 \text{ g}}{39.95 \text{ g mol}^{-1}} = 0.626 \text{ mol}$$
- so
$$p = \frac{(0.626 \text{ mol}) \times (8.31 \times 10^{-2} \text{ dm}^3 \text{ bar K}^{-1} \text{ mol}^{-1}) \times (30 + 273) \text{ K}}{1.5 \text{ dm}^3} = \boxed{10.5 \text{ bar}}$$
- So **no**, the sample would not exert a pressure of 2.0 bar.
- 1A.2(b)** Boyle's law [1A.4a] applies.
- $$pV = \text{constant} \quad \text{so} \quad p_0 V_0 = p_1 V_1$$
- Solve for the initial pressure:
- (i)
$$p_0 = \frac{p_1 V_1}{V_0} = \frac{(1.97 \text{ bar}) \times (2.14 \text{ dm}^3)}{(2.14 + 1.80) \text{ dm}^3} = \boxed{1.07 \text{ bar}}$$
- (ii) The original pressure in Torr is
- $$p_0 = (1.07 \text{ bar}) \times \left(\frac{1 \text{ atm}}{1.013 \text{ bar}} \right) \times \left(\frac{760 \text{ Torr}}{1 \text{ atm}} \right) = \boxed{803 \text{ Torr}}$$
- 1A.3(b)** The relation between pressure and temperature at constant volume can be derived from the perfect gas law, $pV = nRT$ [1A.5]
- so
$$p \propto T \quad \text{and} \quad \frac{p_0}{T_0} = \frac{p_1}{T_1}$$
- The final pressure, then, ought to be
- $$p_1 = \frac{p_0 T_1}{T_0} = \frac{(125 \text{ kPa}) \times (31 + 273) \text{ K}}{(23 + 273) \text{ K}} = \boxed{120 \text{ kPa}}$$
- 1A.4(b)** According to the perfect gas law [1.8], one can compute the amount of gas from pressure, temperature, and volume.
- $$pV = nRT$$
- so
$$n = \frac{pV}{RT} = \frac{(1.00 \text{ atm}) \times (1.013 \times 10^5 \text{ Pa atm}^{-1}) \times (4.00 \times 10^3 \text{ m}^3)}{(8.3145 \text{ J K}^{-1} \text{ mol}^{-1}) \times (20 + 273) \text{ K}} = 1.66 \times 10^3 \text{ mol}$$

Once this is done, the mass of the gas can be computed from the amount and the molar mass:

$$m = (1.66 \times 10^3 \text{ mol}) \times (16.04 \text{ g mol}^{-1}) = 2.67 \times 10^4 \text{ g} = \boxed{2.67 \times 10^7 \text{ kg}}$$

1A.5(b) The total pressure is the external pressure plus the hydrostatic pressure [1A.1], making the total pressure

Physical Chemical Self Test Solution

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Physical Chemical Self Test Solution

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Test 1 Answer Key Detailed Explanations of Answers Practice Test 2 Answer Key Detailed Explanations of Answers Practice Test 3 Answer Key Detailed Explanations of Answers Practice Test 4 Answer Key Detailed Explanations of Answers Practice Test 5 Answer Key Detailed Explanations of Answers Practice Test 6 Answer Key Detailed Explanations of Answers THE PERIODIC TABLE EXCERPT About Research OR 2 To demonstrate proficiency in Chemistry The SAT II Chemistry exam is designed for students who have taken one year of college preparatory chemistry Who Administers The Test The SAT II Chemistry Subject Test is developed by the College Board and administered by Educational Testing Service ETS The test development process involves the assistance of educators throughout the country and is designed and implemented to ensure that the content and difficulty level of the test are appropriate When Should the SAT II Chemistry be Taken If you are applying to a college that requires Subject Test scores as part of the admissions process you should take the SAT II Chemistry Subject Test toward the end of your junior year or at the beginning of your senior year If your scores are being used only for placement purposes you may be able to take the test in the spring of your senior year For more information be sure to contact the colleges to which you are applying When and Where is the Test Given The SAT II Chemistry Subject Test is administered five times a year at many locations throughout the country mostly high schools To receive information on upcoming administrations of the exam consult the publication Taking the SAT II Subject Tests which may be obtained from your guidance counselor or by contacting College Board SAT Program P O Box 6200 Princeton NJ 08541 6200 Phone 609 771 7600 Website <http://www.collegeboard.com> Is There a Registration Fee Yes There is a registration fee to take the SAT II Chemistry Consult the publication Taking the SAT II Subject Tests for information on the fee structure Financial assistance may be granted in certain situations To find out if you qualify and to register for assistance contact your academic advisor HOW TO USE THIS BOOK What Do I Study First Remember that the SAT II Chemistry Subject Test is designed to test knowledge that has been acquired throughout your education Therefore the best way to prepare for the exam is to refresh yourself by thoroughly studying our review material and taking the sample tests provided in this book They will familiarize you with the types of questions directions and format of the SAT II Chemistry Subject Test To begin your studies read over the review and the suggestions for test taking take one of the practice tests to determine your areas of weakness and then restudy the review material focusing on your specific problem areas The course review includes the information you need to know when taking the exam Be sure to take the remaining practice tests to further test yourself and become familiar with the format of the SAT II Chemistry Subject Test When Should I Start Studying It is never too early to start studying for the SAT II Chemistry test The earlier you begin the more time you will have to sharpen your skills Do not procrastinate Cramming is not an effective way to study since it does not allow you the time needed to learn the test material The sooner you learn the format of the exam the more comfortable you will be when you take the exam FORMAT OF THE SAT II CHEMISTRY The SAT II Chemistry is a one hour exam consisting of 85 multiple choice questions The first part of the exam consists of classification

questions This question type presents a list of statements or questions that you must match up with a group of choices lettered A through E Each choice may be used once more than once or not at all The exam then shifts to relationship analysis questions which you will answer in a specially numbered section of your answer sheet You will have to determine if each of two statements is true or false and if the second statement is a correct explanation of the first The last section is composed strictly of multiple choice questions with choices lettered A through E

Material Tested The following chart summarizes the distribution of topics covered on the SAT II Chemistry Subject Test

Topic	Percentage	Number of Questions
Atomic	however	do not review too much at any one time
Concentrate on one problem area at a time		by reviewing the questions and explanations and by studying our review until you are confident you completely understand the material
Keep track of your scores		By doing so you will be able to gauge your progress and discover general weaknesses in particular sections
You should carefully study the reviews that cover your areas of difficulty		as this will build your skills in those areas

TEST TAKING TIPS Although you may be unfamiliar with standardized tests such as the SAT II Chemistry Subject Test there are many ways to acquaint yourself with this type of examination and help alleviate your test taking anxieties Become comfortable with the format of the exam When you are practicing to take the SAT II Chemistry Subject Test simulate the conditions under which you will be taking the actual test Stay calm and pace yourself After simulating the test only a couple of times you will boost your chances of doing well and you will be able to sit down for the actual exam with much more confidence Know the directions and format for each section of the test Familiarizing yourself with the directions and format of the exam will not only save you time but will also ensure that you are familiar enough with the SAT II Chemistry Subject Test to avoid nervousness and the mistakes caused by being nervous Do your scratchwork in the margins of the test booklet You will not be given scrap paper during the exam and you may not perform scratchwork on your answer sheet Space is provided in your test booklet to do any necessary work or draw diagrams If you are unsure of an answer guess However if you do guess guess wisely Use the process of elimination by going through each answer to a question and ruling out as many of the answer choices as possible By eliminating three answer choices you give yourself a fifty fifty chance of answering correctly since there will only be two choices left from which to make your guess Mark your answers in the appropriate spaces on the answer sheet Fill in the oval that corresponds to your answer darkly completely and neatly You can change your answer but remember to completely erase your old answer Any stray lines or unnecessary marks may cause the machine to score your answer incorrectly When you have finished working on a section you may want to go back and check to make sure your answers correspond to the correct questions Marking one answer in the wrong space will throw off the rest of your test whether it is graded by machine or by hand You don t have to answer every question You are not penalized if you do not answer every question The only penalty results from answering a question incorrectly Try to use the guessing strategy but if you are truly stumped by a question remember that you do not have to answer it Work quickly and steadily You have a

limited amount of time to work on each section so you need to work quickly and steadily Avoid focusing on one problem for too long Before the Test Make sure you know where your test center is well in advance of your test day so you do not get lost on the day of the test On the night before the test gather together the materials you will need the next day Your admission ticket Two forms of identification e g driver s license student identification card or current alien registration card Two No 2 pencils with erasers Directions to the test center A watch if you wish but not one that makes noise as it may disturb other test takers On the day of the test you should wake up early after a good night s rest and have breakfast Dress comfortably so that you are not distracted by being too hot or too cold while taking the test Also plan to arrive at the test center early This will allow you to collect your thoughts and relax before the test and will also spare you the stress of being late If you arrive after the test begins you will not be admitted to the test center and you will not receive a refund During the Test When you arrive at the test center try to find a seat where you feel most comfortable Follow all the rules and instructions given by the test supervisor If you do not you risk being dismissed from the test and having your scores canceled Once all the test materials are passed out the test instructor will give you directions for filling out your answer sheet Fill this sheet out carefully since this information will appear on your score report After the Test When you have completed the SAT II Chemistry Subject Test you may hand in your test materials and leave Then go home and relax When Will I Receive My Score Report and What Will It Look Like You should receive your score report about five weeks after you take the test This report will include your scores percentile ranks and interpretive information *Instructor's Solutions Manual to Accompany Atkins' Physical Chemistry, Ninth Edition* C. A. Trapp, M. P. Cady, Carmen Giunta, 2010 The Instructor s solutions manual to accompany Atkins Physical Chemistry provides detailed solutions to the b exercises and the even numbered discussion questions and problems that feature in the ninth edition of Atkins Physical Chemistry The manual is intended for instructors and consists of material that is not available to undergraduates The manual is free to all adopters of the main text

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