

# Key

## Ideal Gas Law Worksheet $PV = nRT$

Use the ideal gas law, " $PV = nRT$ ", and the universal gas constant  $R = 0.0821 \frac{\text{L} \cdot \text{atm}}{\text{K} \cdot \text{mol}}$  to solve the following problems:

If pressure is needed in kPa then convert by multiplying by  $101.3 \text{ kPa} / 1 \text{ atm}$  to get  
 $R = 8.31 \text{ kPa} \cdot \text{L} / (\text{K} \cdot \text{mole})$

- 1) If I have 4 moles of a gas at a pressure of 5.6 atm and a volume of 12 liters, what is the temperature?

$$PV = nRT$$

$$T = \frac{PV}{nR} = \frac{(5.6 \text{ atm})(12 \text{ L})}{4 \text{ mol} \cdot 0.0821 \frac{\text{L} \cdot \text{atm}}{\text{K} \cdot \text{mol}}}$$

$$T = 204.63 \text{ K}$$

- 2) If I have an unknown quantity of gas at a pressure of 1.2 atm, a volume of 31 liters, and a temperature of  $87^\circ\text{C}$ , how many moles of gas do I have?

$$PV = nRT$$

$$n = \frac{PV}{RT} = \frac{1.2 \text{ atm} \cdot 31 \text{ L}}{0.0821 \frac{\text{L} \cdot \text{atm}}{\text{K} \cdot \text{mol}} \cdot 360 \text{ K}}$$

$$n = 1.2586 \text{ mol}$$

- 3) If I contain 3 moles of gas in a container with a volume of 60 liters and at a temperature of 400 K, what is the pressure inside the container?

$$PV = nRT$$

$$P = \frac{nRT}{V} = \frac{3 \text{ mol} \cdot 0.0821 \frac{\text{L} \cdot \text{atm}}{\text{K} \cdot \text{mol}} \cdot 400 \text{ K}}{60 \text{ L}}$$

$$P = 1.642 \text{ atm}$$

$$\text{or } P = 166.29 \text{ kPa}$$

- 4) If I have 7.7 moles of gas at a pressure of 0.09 atm and at a temperature of  $56^\circ\text{C}$ , what is the volume of the container that the gas is in?

$$PV = nRT$$

$$V = \frac{nRT}{P} = \frac{7.7 \text{ mol} \cdot 0.0821 \frac{\text{L} \cdot \text{atm}}{\text{K} \cdot \text{mol}} \cdot 327 \text{ K}}{0.09 \text{ atm}}$$

$$V = 2310.93 \text{ L}$$

- 5) If I have 17 moles of gas at a temperature of  $67^\circ\text{C}$ , and a volume of 88.89 liters, what is the pressure of the gas?

$$PV = nRT$$

$$P = \frac{nRT}{V} = \frac{17 \text{ mol} \cdot 0.0821 \frac{\text{L} \cdot \text{atm}}{\text{K} \cdot \text{mol}} \cdot 390 \text{ K}}{88.89 \text{ L}}$$

$$P = 5.34 \text{ atm}$$

$$\text{or } P = 540.61 \text{ kPa}$$

- 6) If I have an unknown quantity of gas at a pressure of 0.5 atm, a volume of 25 liters, and a temperature of 300 K, how many moles of gas do I have?

$$PV = nRT$$

$$n = \frac{PV}{RT} = \frac{0.5 \text{ atm} \cdot 25 \text{ L}}{0.0821 \frac{\text{L} \cdot \text{atm}}{\text{K} \cdot \text{mol}} \cdot 300 \text{ K}}$$

$$n = 0.5075 \text{ mol}$$

# Ideal Gas Law Answers Pg 24

**Kenneth W. Raymond**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Ideal Gas Law Answers Pg 24:**

Physics John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution *Chemistry* Richard Post, Chad Snyder, Clifford C. Houk, 2020-08-20 A practical complete and easy to use guide for understanding major chemistry concepts and terms Master the fundamentals of chemistry with this fast and easy guide Chemistry is a fundamental science that touches all other sciences including biology physics electronics environmental studies astronomy and more Thousands of students have successfully used the previous editions of Chemistry Concepts and Problems A Self Teaching Guide to learn chemistry either independently as a refresher or in parallel with a college chemistry course This newly revised edition includes updates and additions to improve your success in learning chemistry This book uses an interactive self teaching method including frequent questions and study problems increasing both the speed of learning and retention Monitor your progress with self tests and master chemistry quickly This revised Third Edition provides a fresh step by step approach to learning that requires no prerequisites lets you work at your own pace and reinforces what you learn ensuring lifelong mastery Master the science of basic chemistry with this innovative self paced study guide Teach yourself chemistry refresh your knowledge in preparation for medical studies or other coursework or enhance your college chemistry course Use self study features including review questions and quizzes to ensure that you re really learning the material Prepare for a career in the sciences medicine or engineering with the core content in this user friendly guide Authored by expert postsecondary educators this unique book gently leads students to deeper levels and concepts with practice critical thinking problem solving and self assessment at every stage

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**Basic Concepts of Chemistry** Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance **I & EC**, 1925

*Nta Cuet (Pg) 2022 Chemistry* Team Prabhat, 2023-10-01 The present edition of this book deals with the CENTRAL UNIVERSITY ENTRANCE TEST FOR POST GRADUATE EXAMINATION 2022 CUET which is organized by National Testing Agency NTA This book provides as COMPREHENSIVE GUIDE OF CHEMISTRY for students who are appearing for the CUET PG Topics have been arranged exactly in accordance to the NTA latest syllabus and pattern so as to make it 100% convenient for aspirants Module wise Mock Tests and Solved MCQs Latest CUET Solved Paper 2021 2022 Latest Examination Scheme and Syllabus Moreover the book is supplemented with a Joint Admission Test for Masters JAM Mock Test Chemistry The book covers the complete syllabus dividing the content into 3 Parts as Part 1 Inorganic Chemistry Part 2 Organic Chemistry Part 3 Physical Chemistry It is a highly useful resource for PG entrance examination in Science It enables the aspirants to score high marks in their exams and helps them to move one step ahead towards the goal of their life This book will be of great help in bringing an in depth understanding of the concepts of Chemistry

**Student Study Guide and Solutions Manual to accompany General Organic and Biological Chemistry, 1e** Kenneth W. Raymond, 2005-10-07 Finally readers have a shorter less intimidating introduction to general organic and biological chemistry Not only is Raymond's text concise it also takes an integrated approach to presenting important topics in a way that makes the material easier to understand In this approach similarities can be exploited and concepts reinforced The result is that readers see the strong connections that exist between these three branches of chemistry

**Handbook on Material and Energy Balance Calculations in Material Processing** Arthur E. Morris, Gordon Geiger, H. Alan Fine, 2012-01-03 Lately there has been a renewed push to

minimize the waste of materials and energy that accompany the production and processing of various materials This third edition of this reference emphasizes the fundamental principles of the conservation of mass and energy and their consequences as they relate to materials and energy New to this edition are numerous worked examples illustrating conventional and novel problem solving techniques in applications such as semiconductor processing environmental engineering the production and processing of advanced and exotic materials for aerospace electronic and structural applications

Chemistry: Core Concepts, 3rd Edition Allan Blackman, Daniel Southam, Gwendolyn Lawrie, Natalie Williamson, Christopher Thompson, 2024-01-09 The third edition of Chemistry Core Concepts Blackman et al has been developed by a group of leading chemistry educators for students entering university with little or no background in chemistry Available as a full colour printed textbook with an interactive eBook code this title enables every student to master concepts and succeed in assessment Lecturers are supported with an extensive and easy to use teaching and learning package

*Solutions for Selected Exercises and Problems to Accompany Physics, Second Edition, by Paul A. Tipler* E. Corinaldesi, 1985

Mechanical Engineering Principles John Bird, Carl Ross, 2014-11-27 A student friendly introduction to core engineering topics This book introduces mechanical principles and technology through examples and applications enabling students to develop a sound understanding of both engineering principles and their use in practice These theoretical concepts are supported by 400 fully worked problems 700 further problems with answers and 300 multiple choice questions all of which add up to give the reader a firm grounding on each topic The new edition is up to date with the latest BTEC National specifications and can also be used on undergraduate courses in mechanical civil structural aeronautical and marine engineering together with naval architecture A further chapter has been added on revisionary mathematics since progress in engineering studies is not possible without some basic mathematics knowledge Further worked problems have also been added throughout the text New chapter on revisionary mathematics Student friendly approach with numerous worked problems multiple choice and short answer questions exercises revision tests and nearly 400 diagrams Supported with free online material for students and lecturers Readers will also be able to access the free companion website where they will find videos of practical demonstrations by Carl Ross Full worked solutions of all 700 of the further problems will be available for both lecturers and students for the first time

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Answers      **Programmed Thermodynamics** Charles E. Wales,1970      **General Organic and Biological Chemistry**  
Kenneth W. Raymond,2009-12-14 This general organic and biochemistry text has been written for students preparing for careers in health related fields such as nursing dental hygiene nutrition medical technology and occupational therapy It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry Students need have no previous background in chemistry but should possess basic math skills The text features numerous helpful problems and learning features      Bioprocess Engineering Principles Pauline M. Doran,1995-04-03 The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine agriculture and environmental management Scientific breakthroughs in gene expression protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services Many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement However graduates trained in molecular biology and cell manipulation soon realise that these techniques are only part of the picture Reaping the full benefits of biotechnology requires manufacturing capability involving the large scale processing of biological material Increasingly biotechnologists are being employed by companies to work in co operation with chemical engineers to achieve pragmatic commercial goals For many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula yet there has been little attempt until recently to teach aspects of engineering applicable to process design to biotechnologists This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists Other texts on bioprocess engineering currently available assume that the reader already has engineering training On the other hand chemical engineering textbooks do not consider examples from bioprocessing and are written almost exclusively with the petroleum and chemical industries in mind This publication explains process analysis from an engineering point of view but refers exclusively to the treatment of biological systems Over 170 problems and worked examples encompass a wide range of applications including recombinant cells plant and animal cell cultures immobilised catalysts as well as traditional fermentation systems First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists Explains process analysis from an engineering point of view but uses worked examples relating to biological systems Comprehensive single authored 170 problems and worked examples encompass a wide range of applications involving recombinant plant and animal cell cultures immobilized catalysts and traditional fermentation systems 13 chapters organized according to engineering sub disciplines are grouped in four sections Introduction Material and Energy Balances Physical Processes and Reactions and Reactors Each chapter includes a set of problems and exercises for the student key references and a list of suggestions for further reading Includes useful appendices detailing conversion factors physical and chemical property data steam tables mathematical rules and a list of symbols used Suitable for course adoption follows closely curricula used on most bioprocessing and process biotechnology

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*Introduction to Food Process Engineering* P. G. Smith,2011-02-11 This is a new book on food process engineering which treats the principles of processing in a scientifically rigorous yet concise manner and which can be used as a lead in to more specialized texts for higher study It is equally relevant to those in the food industry who desire a greater understanding of the principles of the food processes with which they work This text is written from a quantitative and mathematical perspective and is not simply a descriptive treatment of food processing The aim is to give readers the confidence to use mathematical and quantitative analyses of food processes and most importantly there are a large number of worked examples and problems with solutions The mathematics necessary to read this book is limited to elementary differential and integral calculus and the simplest kind of differential equation

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web dec 3 2018 grade a1 is listed in bs3100 standard which is superseded by ge200 in bs en10293 2005 similar casting steel zg200 400 astm a27 gr 60 30 415 205 sc360 sc37 gs 38 1 0420 astm a216 wca ge200 castingquality com bs 3100 1991 specification for steel castings for general engineering purposes

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web most of the specified ranges for the bs grades can be found in the bs 1449 or bs 970 tables the castings grades specified ranges can be found in the en 10283 or bs 3100 tables these are comparisons only and cannot be assumed to be direct equivalent grades

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web grade a2 is listed in bs3100 standard which is superseded by ge240 in bs en10293 2005 similar casting steel zg230 450 astm a27 gr 65 35 450 240 sc410 sc42 gs 45 1 0446 astm a216 wcb ge240 bs 3100 1991 specification for steel castings for general engineering purposes bs 3100 grade a2 casting chemical requirements and

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