

## Chapter 5: Gases - Things to know\*

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*Please remember that simply knowing or memorizing the information below is not sufficient. You must be able to know when and how to APPLY the items below appropriately.*

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### **5.1 Basics**

Pressure and Units *(see guide!)*

### **5.2 Simple Gas Laws** *(see guide!)*

### **5.3 Ideal Gas Law** *(see preview below!)*

Used to determine one gas variable for a given scenario, knowing the other variables.

A.  $PV=nRT$  ( $R = 0.0821 \text{ L atm/mol K}$ ;  $8.314 \text{ L kPa/mol K}$ ; be sure to match all units to the constant)

B. Limitations:

1. Works well at low pressures *as the molecules of the gas rarely collide or come into close enough proximity for intermolecular forces to be significant*
2. Works well at high temperatures *as the molecules of the gas have so much energy that the intermolecular forces and energy lost in collisions is negligible*
3. Most gases do not behave ideally above 1 atm pressure
4. Does not work well near the condensation conditions of a gas
5. Deviations occur due to stronger attractive forces

C. Derivation to relate molar mass and density

$D = m/V$   $n = m/M$  where  $M$  is molar mass

$PV = m/MRT$ ;  $M = DRT/P$

### **5.4 Gas Mixtures and Collecting Gas of Water**

### **5.5 Diffusion and Effusion**

# Gases Study Guide Answers

**E Durkheim**



## **Gases Study Guide Answers:**

*Hazmat Chemistry Study Guide (Second Edition)* Jill Meryl Levy, 2011

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*American Gas-light Journal and Chemical Repertory* ,1909 **Gas Age** ,1929 Includes summaries of proceedings and addresses of annual meetings of various gas associations L C set includes an index to these proceedings 1884 1902 issued as a supplement to Progressive age Feb 15 1910 *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 *Teacher's Wraparound Edition: Twe Biology Everyday Experience* Albert Kaskel,1994-04-19

**Journal of Gas Lighting and Water Supply** ,1902 **The Gas Engineer's Magazine** ,1876 *Study Guide with Selected Solutions* Karen Timberlake,2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems *Welding Design & Fabrication* ,1983 **The Gas Engineer** ,1912

**Trade and Industrial Education** ,1972      *Trade and Industrial Education; Instructional Materials* Ohio State University. Center for Vocational and Technical Education,1972

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