

Gas Laws Problem Packet

Gas Laws Packet

Name _____ Date _____ Period _____

Introduction

Standard Pressure

Unit	Standard Pressure
atm	1.013
mmHg	760
cmHg	76
torr	760

22.4 L = 1 mol at STP

• STP (standard temperature and pressure) is 0°C and 1 atm.

• The gas laws:

Gas Law	Equation	Variables
Boyle's Law	$P_1V_1 = P_2V_2$	P, V
Charles's Law	$\frac{V_1}{T_1} = \frac{V_2}{T_2}$	V, T
Gay-Lussac's Law	$\frac{P_1}{T_1} = \frac{P_2}{T_2}$	P, T
Avogadro's Law	$\frac{V_1}{n_1} = \frac{V_2}{n_2}$	V, n
Combined Gas Law	$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$	P, V, T
Ideal Gas Law	$PV = nRT$	P, V, n, T

• The constant R used in the ideal gas law depends on the unit of pressure.

a. Units: $R = 0.0821 \frac{\text{atm} \cdot \text{L}}{\text{mol} \cdot \text{K}}$

b. Units: $R = 62.36 \frac{\text{mmHg} \cdot \text{L}}{\text{mol} \cdot \text{K}}$

Notes:

- Temperature must always be in Kelvin: $K = ^\circ\text{C} + 273$
- If you are given two different units of pressure, convert!
- Create two columns below (initial and final). Write what you're given in the problem. Mark the two that use the variable you're given, and solve for the unknown. For ideal gas laws, write what you are given, insert those in equation and solve for unknown.
- Avogadro's Law: Solve for volume to use ideal standard values.
- Graham's Law: You will need to know the molecular mass for these problems. Double and triple check you have the right of effusion and molecular masses in the correct units before solving the equation! This is an inverse relationship. You must calculate the square root or square both sides of the equation before solving things!



All Gas Laws Included!



Review Packet Gas Laws Answer

O. Ray Whittington



Review Packet Gas Laws Answer:

Review Packet Gas Laws Answer Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Review Packet Gas Laws Answer**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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