

Practice with the Gas Laws with Answers

All temperatures must be in **KELVIN** STP = **0 °C and 1.0 atm**

Converting one unit of pressure to another

1. Change 758. mm Hg to Torr

$$758 \text{ mm Hg} \times \frac{760 \text{ Torr}}{760 \text{ mm Hg}} = 758 \text{ Torr}$$

2. Change 771.3 mm Hg to atm

$$771.3 \text{ mm Hg} \times \frac{1 \text{ atm}}{760 \text{ mm Hg}} = 1.015 \text{ atm}$$

3. Change 95.6 kPa to mm Hg

$$95.6 \text{ kPa} \times \frac{760 \text{ mm Hg}}{101.325 \text{ kPa}} = 717 \text{ mm Hg}$$

4. Is the pressure of the gas sample greater or less than the pressure of the atmosphere? Explain.

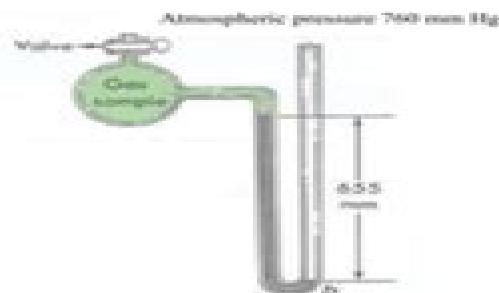
Less, the mercury line is higher on that side

What is the pressure of the gas in this manometer (in mm Hg)?

$$\begin{array}{r} 760 \text{ mm Hg} \\ -655 \text{ mm Hg} \\ \hline 105 \text{ mm Hg} \end{array}$$

Convert that pressure to kPa.

$$105 \text{ mm Hg} \times \frac{101.325 \text{ kPa}}{760 \text{ mm Hg}} = 14.0 \text{ kPa}$$



Calculating Density of a Gas at STP

1. What is the density of dinitrogen tetroxide at STP?

$$\text{N}_2\text{O}_4 \quad \frac{92.01 \text{ g}}{22.4 \text{ L}} = 4.108 \text{ g/L}$$

2. What is the density of sulfur trioxide at STP?

$$\text{SO}_3 \quad \frac{80.06 \text{ g}}{22.4 \text{ L}} = 3.574 \text{ g/L}$$

Gas Laws Practice Problems With Solutions

David Baud



Gas Laws Practice Problems With Solutions:

Decoding **Gas Laws Practice Problems With Solutions**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gas Laws Practice Problems With Solutions**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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