

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.

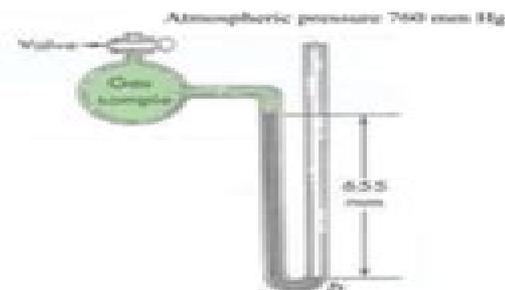
Less, the mercury line is higher on that side

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?

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

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Lei Huang



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