Chemistry II-AP Gas Laws Practice Test Solution Set

B At what temperature (on the Celsius scale) will 5.68 grams of oxygen gas exert a pressure of 335 kPA in a 1.00-liter container?
 A) 227; B) -46.1; C) -160.; D) 113; E) 718; F) 445; G) -67.2.

 $PV = nRT \quad T = \frac{[335 \text{ kPa} / (101.3 \text{ kPa} / 1 \text{ atm.})][1.00 \text{ L}]}{[(5.68 \text{ g} / 32.0 \text{ g/mol})(0.0821 \text{ L-atm.} / \text{mol-K})} = 227 \text{ K} = -46^{\circ}\text{C}$

A If a balloon has a volume of 30.0 ml at STP, what will be its volume (in ml) at -75.0°C and 10.0 inches Hg?
 A) 65.1; B) 32.0; C) 626; D) 125; E) 15.2; F) 6.05; G) 82.9

 $\frac{V_1P_1}{T_1} = \frac{V_2P_2}{T_2} \qquad V_2 = \frac{(30.0 \text{ mL})(29.92 \text{ in.})}{273 \text{ K}} \times \frac{(198 \text{ K})}{10.0 \text{ in.}} = 65.10 \text{ mL}$

G If oxygen gas has an effusion rate of 5.00 liters/min from an effusion chamber, what is the molecular weight of an unknown gas if it has an effusion rate of 3.75 liters/min?
 A) 28.4; B) 42.7; C) 18.0; D) 24.0; E) 29.9; F) 116; G) 56.9

What is the density (in g/liter) of diphosphorus pentoxide gas at standard conditions?
 A) 2.16; B) 10.79; C) 1.54; D) 6.34; E) 3.25; F) 8.66; G) 5.39

(142.0 g/mole)(1 mole / 22.4 L) = 6.339 g/L

B A mixture of 2.00-grams of nitrogen gas and 3.25 grams of sulfur trioxide gas are injected into a 4.00-liter container. The mixture has an equilibrium temperature of 75.0°C. What is the partial pressure (in atm.) of the nitrogen gas in the vessel? No reaction takes place between these two gases.
 A) 1.38: B) 0.510: C) 1.02: D) 0.872: E) 0.362: F) 0.400: G) 1.58

P = nRT / V = [(2.00 g / 28.0 g/mol)(0.0821)(348 K)] / 4.00 L = 0.51019 atm.

A What happens to the mean free path of oxygen gas in the atmosphere with increasing altitude?
 A) it increases; B) it decreases; C) it remains constant

Gas Laws Practice Test C Answer Key

Mocktime Publication

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