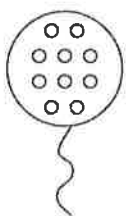


Gases

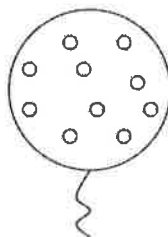
Answers

Worksheet A

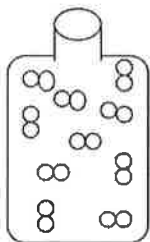
A. 1. at 25°C:



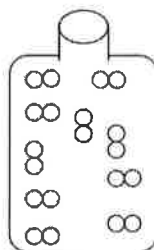
at 225°C:



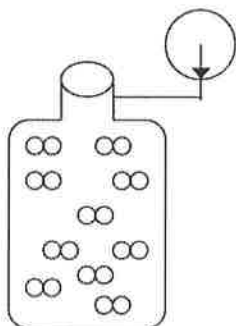
2. at 25°C:



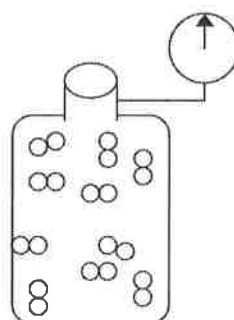
at -125°C:



3. at 25°C:



at -125°C:



B. 198 g/mol

C. 2.7 L

D. 1. $E_A = E_B$ 2. $v_A > v_B$ 3. $t_A < t_B$

E. 532 L

Worksheet BA. 1. False — 2.0 L of steam2. a. F — ... tank remains the sameb. F — ... tank increases but does not doublec. F — ... of gas remains the same

d. True

e. F — ... molecules increases3. False — 0.666 atm

B. 1.72 g/L

C. 36.1 g/mol

D. 0.681 M

E. 0.917 atm

Challenge Problem: 0.833 atm

Worksheet C

A. 1. c

2. a, c

3. a, c

B. 1. Ne

2. CH₄

3. Ne

4. no

5. Yes; pressure would decrease

C. 1. 0.203 g/L

2. ~~2.00 g/mol~~

3. 61.6 L

D. 26.0 g CaC₂ ; 21.9 mL H₂O

1350 m/s!