

Chapter 11: Gases

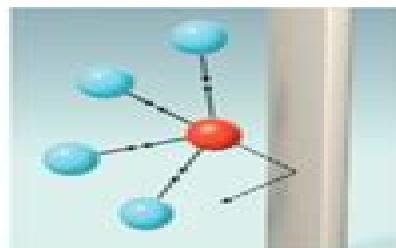
Focus of this section:

Deviation from ideality

Deviation from Ideal Behavior:

- recall: real gases deviate from ideal gas behavior at high pressure and low temperature conditions

- real molecules have volume
 - cannot compress gas to zero volume
- real molecules interact (attracted to each other)
 - causes lower P (vs. ideal gas), especially at lower temperatures



- = $P_{\text{obs}} < P_{\text{ideal}}$
- = need to add correction to pressure term
- = Since 2 molecules cannot occupy the same space, $V_{\text{accessible}} < V_{\text{container}}$ and a corrective term should be subtracted from V in ideal gas equation

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experimentally measured pressure

container volume

$$\left(P + \frac{an^2}{V^2} \right) (V - nb) = nRT$$

corrected pressure term corrected volume term

$$PV = nRT$$

$$P_{\text{ideal}} = \left(P_{\text{obs}} + \frac{n^2 a}{V^2} \right)$$

$$\text{correction} \propto \left(\frac{n}{V} \right)^2$$

$$V_{\text{ideal}} = (V_{\text{container}} - nb)$$

$$\text{correction} \propto n$$

= Note, "a" and "b" are different for each gas

Gases Section Quizzes

DJ Losen

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