

# DAT General Chemistry Equation Sheet

## General Concepts

**Density:** ( $d = m/v$ )

**Dilutions:**  $M_1V_1 = M_2V_2$  (or  $C_1V_1 = C_2V_2$ )

**% Error Calculations**

$$\% \text{ Error} = \frac{\text{Actual} - \text{theoretical}}{\text{theoretical}} \times 100$$

**Spectrophotometer:**  $Abs = \epsilon cl$

$Abs$  = Absorbance

$\epsilon$  = molar extinction coefficient (molar absorptivity)

$l$  = path length

## Atomic Structure

**Absorption/Emission Line Spectra:**  $\Delta E = E_{\text{photon}}$

**Energy of a photon:**  $E_{\text{photon}} = hf = \frac{hc}{\lambda}$

$$c = 3.0 \times 10^8 \text{ m/s}$$

$$h = 6.63 \times 10^{-34} \text{ J}\cdot\text{s}$$

**Photoelectric Effect:**  $KE_{\text{electron}} = E_{\text{photon}} - \phi$

$\phi$  = work function (minimum energy to ionize electron)

## Chemical Kinetics and Equilibrium

**General Rate Law:**  $\text{rate} = k[A]^m[B]^n$

**Arrhenius Equation:**  $k = Ae^{-E_a/RT}$

$E_a$  = activation energy

$R = 0.0821 \text{ L}\cdot\text{atm/mol}\cdot\text{K}$

**Equilibrium Constant:**

$$K_c = \frac{[\text{products}]}{[\text{reactants}]} \quad K_p = \frac{P_{\text{products}}}{P_{\text{reactants}}}$$

## Solutions

**Concentration**

$$\text{Molarity (M)} = \frac{\text{moles}_{\text{solute}}}{L_{\text{solution}}}$$

$$\text{molality (m)} = \frac{\text{moles}_{\text{solute}}}{kg_{\text{solvent}}}$$

**Henry's Law:**  $P_A = k_H[A]$

**Colligative Properties**

**Freezing Point Depression:**  $\Delta T_F = -iK_F m$

**Boiling Point Elevation:**  $\Delta T_B = iK_B m$

**Raoult's Law** ( $*$  = pure):  $P_A = X_A P_A^*$

**Osmotic Pressure:**  $\pi = iMRT$

$$K_F/K_B = 1.86/0.51$$

depression/elevation constant

$X_A$  = mole fraction of A

$i$  = van't Hoff Factor

$R = 0.0821 \text{ L}\cdot\text{atm/mol}\cdot\text{K}$

$M$  = molarity,  $m$  = molality

## Gases/Gas Laws

**Average Kinetic Energy:**

$$KE_{\text{avg}} = \frac{3}{2} RT \text{ (per mole of gas)}$$

$$\text{Root-mean-square speed: } v = \sqrt{\frac{3RT}{M_m}}$$

**Gas Laws**

**Ideal Gas Law:**  $PV = nRT$

**Boyle's Law:**  $P \propto \frac{1}{V}$

**Charles' Law:**  $V \propto T$

**Avogadro's Law:**  $V \propto n$

$$\text{Combined Gas Law: } \frac{P_1 V_1}{n_1 T_1} = \frac{P_2 V_2}{n_2 T_2}$$

**Dalton's Law of Partial Pressures:**

$$P_{\text{Tot}} = P_A + P_B + \dots$$

$$P_A = X_A \cdot P_{\text{Tot}}$$

$$X_A = \frac{\text{moles of } A}{\text{total moles}}$$

**Graham's Law of Effusion:**

$$\frac{r_1}{r_2} = \sqrt{\frac{M_{m,2}}{M_{m,1}}}$$

$R = 0.0821 \text{ L}\cdot\text{atm/mol}\cdot\text{K}$

$n$  = moles

$M_m$  = molar mass

$r$  = rate of effusion

$a$  and  $b$  are constants specific to a given gas

## Acid-Base

**pH Scale**

$$pH = -\log [H^+] \quad [H^+] = 10^{-pH}$$

$$pOH = -\log [OH^-] \quad [OH^-] = 10^{-pOH}$$

$$pH + pOH = 14 \quad [H^+][OH^-] = 1 \times 10^{-14}$$

**Weak Acids:**

$$K_a = \frac{[H^+][A^-]}{[HA]} \quad [H^+] = \sqrt{K_a [HA]}$$

**Weak Bases:**

$$K_b = \frac{[OH^-][HA]}{[B]} \quad [OH^-] = \sqrt{K_b [B]}$$

$$K_a \cdot K_b = K_w$$

$$\text{Buffer: } pH = pK_a + \log \frac{[A^-]}{[HA]}$$

$$\text{Titration/Neutralization: } n_A M_A V_A = n_B M_B V_B$$

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**Karin Nielsen-Saines**



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