

# 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:**

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

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

$$X_A = \text{mole fraction A}$$

**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:**

$$K_a = \frac{[H_3O^+][A^-]}{[HA]} \quad [H^+] = \sqrt{K_a [HA]}$$

**Weak Bases:**

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

$$K_a \cdot K_b = K_w$$

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

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

**DAT Bootcamp**

# Formula Sheet For Gen Chem 1 Chm 2045

**Helmut J. Fischbeck, Kurt H. Fischbeck**



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web the summer of his high school freshman year hodaka runs away from his remote island home to tokyo and quickly finds himself pushed to his financial and per

prime video weathering with you - Feb 02 2023

web weathering with you a lonesome student flees to tokyo where amid an endless downpour he meets a young woman with the power to manipulate the weather imdb 7.5 1 h 52 min 2020 pg 13 animation adventure feel good fun this video is currently unavailable to watch in your location

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web jul 19 2019 information type movie episodes 1 status finished airing aired jul 19 2019 producers toho jr east marketing communications kadokawa voque ting story lawson entertainment licensors gkids studios comix wave films source original genres award winning drama fantasy romance duration 1 hr 52 min

**weathering with you review ign** - Jan 01 2023

web jan 16 2020 in weathering with you s case shinkai truly manages to make water feel everchanging and powerful as much of the movie is about the rain and how weather changes our perception and mood

[weathering with you trailer 2020 english dub youtube](#) - May 25 2022

web jan 17 2020 due to certain circumstances hina and her younger brother live together but have a cheerful and sturdy life hina also has a certain power the power to stop the rain and clear the sky

*weathering with you streaming where to watch online justwatch* - Mar 23 2022

web synopsis the summer of his high school freshman year hodaka runs away from his remote island home to tokyo and quickly finds himself pushed to his financial and personal limits the weather is unusually gloomy and rainy every day as if taking its cue from his life

**weathering with you movie review 2020 roger ebert** - Mar 03 2023

web jan 17 2020 weathering with you shinkai s latest animated romantic fantasy to be released in america has the same spark of ingenuity and consistency of vision as his earlier work