

# AP CHEMISTRY FORMULA SHEET 2025

Equations	Constants	Standard Reduction Potentials	
$PV = nRT$ $\ln[A] = -kt + \ln[A]_0$ $1/[A] = kt + 1/[A]_0$ $A = abc$ $\Delta G = -\Delta H - T\Delta S$ $q = mc\Delta T$ $q = -q$ $E = hy$ $pH = -\log[H^+]$ $pOH = -\log[OH^-]$ $pH + pOH = 14$ $K_a = [H^+][A^-]/[HA]$ $K_w = [H^+][OH^-] = 1.0 \times 10^{-14}$ $pK_a = -RT \ln K$ $pH = pK_a + \log [A^-]/[HA]$	$R = 0.0821 \text{ L}\cdot\text{atm/mol}\cdot\text{K}$ $0.314 \text{ J/mol}\cdot\text{K}$ $N_A = 6.022 \times 10^{23} \text{ mol}^{-1}$ $F = 96,485 \text{ C/mol}\cdot\text{e}^-$ $c = 3.00 \times 10^8 \text{ m/s}$ $h = 6.626 \times 10^{-34} \text{ J}\cdot\text{s}$ $P = 1 \text{ atm}$ $T = 298 \text{ K (25}^\circ\text{C)}$	$\text{Cu}^{2+} + 2\text{e}^- \rightarrow \text{Cu}$ $\text{Zn}^{2+} + 2\text{e}^- \rightarrow \text{Zn}$ $\text{Cl}_2 + 2\text{e}^- \rightarrow 2\text{Cl}^-$ $2\text{H}_2\text{O} + 2\text{e}^- \rightarrow \text{H}_2 + 2\text{OH}^-$ $\text{Fe}^{3+} + \text{e}^- \rightarrow \text{Fe}^{2+}$	$\text{Cu}^{2+} \rightarrow \text{Cu} \quad E$ $\text{Zn}^{2+} \rightarrow \text{Zn} \quad 0.34$ $\text{Cl}_2 \rightarrow 2\text{Cl}^- \quad 1.36$ $\text{H}_2 \rightarrow 2\text{H}^+ \quad 0.83$ $\text{Mg}^{2+} \rightarrow \text{Mg} \quad 2.37$
		Thermochemistry Data	
	<b>Thermochemistry Data</b> $\Delta H_f^\circ$ : kJ/mol Bond energies: kJ/mol Specific heat cap. $C_p$ : J/g $^\circ\text{C}$	$\Delta H^\circ$ : kJ/mol Bond energies: kJ/mol Specific heat capacity, $C_p$ : J/g $^\circ\text{C}$	$\text{NO}_3^-$ $\text{SO}_4^{2-}$ $\text{PO}_4^{3-}$ Ammonium $\text{OH}^-$ $\text{CO}_3^{2-}$ carbonate $\text{CH}_3\text{COO}^-$ or $\text{C}_2\text{O}_2^-$

# Ap Chemistry Chapter 7

**John T. Moore, Richard H. Langley**



## Ap Chemistry Chapter 7:

## **Ap Chemistry Chapter 7 Book Review: Unveiling the Power of Words**

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Ap Chemistry Chapter 7**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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