

Chemistry Formula Sheet

Basic Chemical Formulas

- Density: $\rho = \frac{m}{V}$ (mass / volume)
- Molarity: $M = \frac{n}{V}$ (moles/liter)
- Percent Composition: $\% = \left(\frac{\text{mass element}}{\text{mass compound}} \right) \times 100$
- Ideal Gas Law: $PV = nRT$
- pH: $\text{pH} = -\log[H^+]$
- Energy: $E = h\nu$... $E = \hbar \omega$ constant \times frequency)

Common Elements

- H - Hydrogen (Atomic #1)
- C - Carbon (Atomic #6)
- N - Nitrogen (Atomic #7)
- O - Oxygen (Atomic #8)
- Na - Sodium (Atomic #11)
- Cl - Chlorine (Atomic #17)

Common Compounds

- H_2O - Water
- CO_2 - Carbon Dioxide
- NaCl - Sodium Chloride (Salt)
- $C_6H_{12}O_6$ - Glucose