

QUANTITATIVE CHEMISTRY

1. $\text{Mass percentage \% (w/w)} = \frac{\text{Mass of solute}}{\text{Total Mass of solution}} \times 100$
2. $\text{Volume Percentage \% v/v} = \frac{\text{Volume of solute}}{\text{Total volumr of soltion}} \times 100$
3. $\text{Percent mass/ Volume \% (w/v)} = \frac{\text{Mass of solute}}{\text{Total Volume of Solution}} \times 100$
4. $\text{ppm (w/w)} = \frac{\text{Mass of solute}}{\text{Total mass of Solution}} \times 10^6$
5. $\text{ppb (w/w)} = \frac{\text{Mass of solute}}{\text{Total mass of Solution}} \times 10^9$
6. $\text{Mole fraction} = \frac{\text{Mole count of solute}}{\text{Mole number of solution}}$
7. $\text{Molarity} = \frac{\text{Moles of Solute}}{\text{Liters of solution}}$