



General Chemistry formula sheet

Prefix	Symbol	Factor
Giga	G	10^9
Mega	M	10^6
Kilo	K	10^3
centi	C	10^{-2}
milli	m	10^{-3}
micro	μ	10^{-6}
nano	n	10^{-9}
$1 \text{ mol} = 6.022 \times 10^{23} \text{ molecules}$ $1 \text{ cm}^3 = 1 \text{ mL}$		

Name	Formula	Name	Formula
Acetate	$\text{C}_2\text{H}_3\text{O}_2^-$	Phosphate	PO_4^{3-}
Carbonate	CO_3^{2-}	Ammonium	NH_4^+
Bicarbonate	HCO_3^-	Chlorite	ClO_2^-
Hydroxide	OH^-	Chlorate	ClO_3^-
Nitrite	NO_2^-	Sulfite	SO_3^{2-}
Nitrate	NO_3^-	Sulfate	SO_4^{2-}
Cyanide	CN^-		

$$\text{Density} = \frac{\text{mass}}{\text{volume}}$$

$$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$$

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

$$c = \lambda\nu$$

$$M = \frac{\text{mol solute}}{\text{L solution}}$$

$$PV = nRT$$

$$q = mc\Delta T$$

$$\Delta H^\circ_{\text{rxn}} = \sum n_p \Delta H^\circ_f - \sum n_r \Delta H^\circ_f$$

$$FC = \# \text{ of valence } e^- - [\# \text{ of lone pairs} + \# \text{ of bonds}]$$

$$M_1V_1 = M_2V_2$$

$$X_A = \frac{\text{mol } A}{\text{total mol}}$$

$$q = n\Delta N$$

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Formula Sheet For Gen Chem 1 Chm 2045

Patrick Vollmar



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