

FreeE

$$\sum_{i=1}^{\text{Num}} \left\{ \frac{\text{Na}[i] \left(\text{Fs}[i] + \frac{T \text{Log}\left[\frac{\text{Na}[i]}{e \text{V0}}\right]}{\mu[i]} \right) \mu[i]}{\text{M0}} \right\}$$

Chem Diss Equilibrium condition

$$\left(\frac{\text{Na}[1]}{\text{V0}} \right)^{\text{v}[1]} \left(\frac{\text{Na}[2]}{\text{V0}} \right)^{\text{v}[2]} = e^{-\frac{\text{Fs}[1] \mu[1] \text{v}[1] + \text{Fs}[2] \mu[2] \text{v}[2]}{T}}$$

Chem Diss 2 matter equilibrium condition

$$\left(\frac{\text{Na}[1]}{\text{V0}} \right)^{-\mu[2]} \left(\frac{\text{Na}[2]}{\text{V0}} \right)^{\mu[1]} = e^{\frac{(\text{Fs}[1] - \text{Fs}[2]) \mu[1] \mu[2]}{T}}$$

Soluiton Chem Diss 2 matter equilibrium condition

$$\left(\frac{\text{Na}[1]}{\text{V0}} \right)^{-\mu[2]} \left(\frac{\text{N0} - \text{Na}[1] \mu[1]}{\text{V0} \mu[2]} \right)^{\mu[1]} = e^{\frac{(\text{Fs}[1] - \text{Fs}[2]) \mu[1] \mu[2]}{T}}$$

Soluiton Chem Diss 2 matter equilibrium condition in X

$$\text{Na}[1] * \mu[1] = \text{M0} * X$$

$$\text{R0}^{\mu[1] - \mu[2]} \left(\frac{X}{\mu[1]} \right)^{-\mu[2]} \left(\frac{1 - X}{\mu[2]} \right)^{\mu[1]} = e^{\frac{(\text{Fs}[1] - \text{Fs}[2]) \mu[1] \mu[2]}{T}}$$

$$(1 - X)^{\mu[1]} X^{-\mu[2]} = e^{\frac{(\text{Fs}[1] - \text{Fs}[2]) \mu[1] \mu[2]}{T}} \text{R0}^{-\mu[1] + \mu[2]} \mu[1]^{-\mu[2]} \mu[2]^{\mu[1]}$$