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[Gibbs Duhem Margules Equation Pd](#)

$$dG = -SdT + Vdp + \sum_{\alpha=1}^{\nu} \bar{\mu}_{\alpha} dn_{\alpha} . \quad (20.17)$$

The Gibbs equation for molar quantities of the mixture follows by setting $G = n\bar{g}$, $S = n\bar{s}$, $V = n\bar{v}$ and $n_{\alpha} = nX_{\alpha}$ as

$$d\bar{g} = -\bar{s}dT + \bar{v}dp + \sum_{\alpha=1}^{\nu} \bar{\mu}_{\alpha} dX_{\alpha} . \quad (20.18)$$

Alternative forms of the Gibbs equation can be obtained through Legendre transforms, which yield, e.g.,

$$Td\bar{s} = d\bar{u} + pd\bar{v} - \sum_{\alpha=1}^{\nu} \bar{\mu}_{\alpha} dX_{\alpha} . \quad (20.19)$$

As discussed in Sec. 16.2, the Gibbs equation leads to Maxwell relations, such as

$$\left(\frac{\partial \bar{\mu}_{\alpha}}{\partial T} \right)_{p, X_{\beta}} = - \left(\frac{\partial \bar{s}}{\partial X_{\alpha}} \right)_{T, p, X_{\beta}} , \quad \left(\frac{\partial \bar{\mu}_{\alpha}}{\partial p} \right)_{T, X_{\beta}} = \left(\frac{\partial \bar{v}}{\partial X_{\alpha}} \right)_{T, p, X_{\beta}} . \quad (20.20)$$

With another Legendre transform (20.17) can be rewritten as

$$dG = -SdT + Vdp + \sum_{\alpha=1}^{\nu} d(\bar{\mu}_{\alpha} n_{\alpha}) - \sum_{\alpha=1}^{\nu} n_{\alpha} d\bar{\mu}_{\alpha} , \quad (20.21)$$

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