$$\ln(K_{1P}) = \frac{-4576.752}{T} + 115.525 - 18.453\ln(T)$$

$$+\left(\frac{-106.736}{T} + 0.69171\right)S^{1/2} + \left(-\frac{0.6543}{T} - 0.01844\right)S$$

$$\ln(K_{2P}) = \frac{-8814.715}{T} + 172.0883 - 27.927\ln(T)$$

$$+\left(\frac{-160.340}{T} + 1.3566\right)S^{1/2} + \left(-\frac{0.37335}{T} - 0.05778\right)S$$

$$\ln(K_{3P}) = \frac{-3070.75}{T} - 18.141$$

$$+\left(\frac{17.27039}{T} + 2.81197\right)S^{1/2} + \left(-\frac{44.99486}{T} - 0.09984\right)S$$