$$\ln(K_B) = \frac{-8966.90 - 2890.53S^{1/2} - 77.942S + 1.728S^{3/2} - 0.0996S^2}{T}$$

$$+(148.0248 + 137.1942S^{1/2} + 1.62142S)$$

$$+(-24.4344 - 25.085S^{1/2} - 0.2474S)ln(T)$$

$$+0.053105S^{1/2}(T)$$