

formulae-temp_depend

Arrhenius analysis

$$\ln(k) = \ln(P) + \left(\frac{-E_A}{R} \right) \left(\frac{1}{T} \right)$$

van't Hoff analysis

$$\ln \left(\frac{1 - P_A}{P_A} \right) = \ln \left(\frac{k_A}{k_B} \right) = \frac{\Delta S_0}{R} + \left(\frac{-\Delta H_0}{R} \right) \left(\frac{1}{T} \right)$$

newline
"Arrhenius analysis"

newline
 $\ln(k) = \ln(P) + \left(\frac{-E_A}{R} \right) \left(\frac{1}{T} \right)$

newline
"van't Hoff analysis"

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 $\ln \left(\frac{1 - P_A}{P_A} \right) = \ln \left(\frac{k_A}{k_B} \right) = \frac{\Delta S_0}{R} + \left(\frac{-\Delta H_0}{R} \right) \left(\frac{1}{T} \right)$