formulae-temp_depend

Arrhenius analysis

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

van't Hoff analysis

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

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newline newline alignc "Arrhenius analysis"
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newline

 $ln(k) = ln(P) + left (-E_A over R right) left (1 over T right)$

newline newline alignc "van't Hoff analysis"

newline

In left($\{1-P_A\}$ over P_A right) `= ` In left (k_A over k_B right) `= ` $\{$ %DELTA S_0 $\}$ over R `+` left ($\{$ -%DELTA H_0 $\}$ over R right) left (1 over T right)