

Exact Expression is given by Arrhenius Equation:

$$K = A e^{-E_a/RT}$$

$$\Rightarrow \ln K = \ln A - \frac{E_a}{RT}$$

Basic Assumption to be made always:

A and E_a are independent of temperature
(unless stated otherwise)

$$\Rightarrow \ln \left(\frac{k_2}{k_1} \right) = \frac{E_a}{R} \left[\frac{1}{T_1} - \frac{1}{T_2} \right]$$

