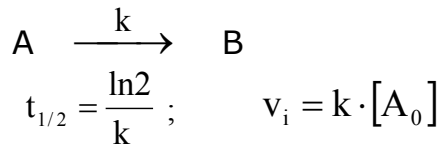
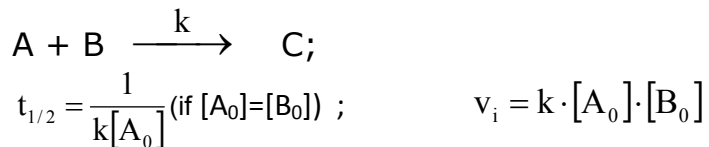


Formeln für die Lösung von Rechenaufgaben

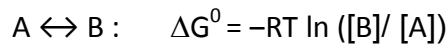
First-order Reactions:



Second-Order Reactions:



Equilibrium between two states:



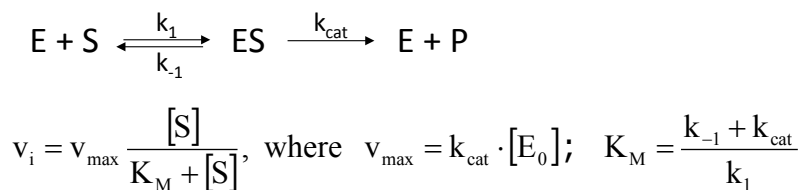
Temperature dependence of rate constants (Arrhenius equation):

$$k = A \cdot e^{-E_A/RT}$$

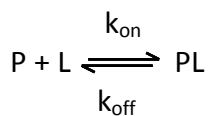
Dependence of acceleration factor on difference in E_A :

$$\frac{k_{\text{cat}}}{k_{\text{uncat}}} = e^{\frac{\Delta E_A}{R \cdot T}}$$

Michaelis Menten equation:



Protein-ligand binding equilibria



$$K_{\text{Diss}} = \frac{k_{\text{off}}}{k_{\text{on}}} = \frac{P \cdot L}{PL} \quad (L = L_{\text{tot}} \text{ if } P_0 \ll L_0)$$