

# CHEMICAL KINETICS

Date: \_\_\_\_\_ Page: \_\_\_\_\_

## Reaction Rate

$$R = \frac{\Delta A}{\Delta t} \quad A_t = -\frac{d[A]}{dt} = \text{slope of conc. - time}$$



$$R_t = \frac{-1}{a} \frac{d[A]}{dt} = \frac{-1}{b} \frac{d[B]}{dt} = \frac{1}{c} \frac{d[C]}{dt}$$

## Differential Rate Law

Reaction Rate  $\propto$  Conc. of React.

$$\text{Rate} \propto [A]^m [B]^n$$

$$R = k[A]^m [B]^n$$

$$a \frac{1}{a} \frac{d[A]}{dt} = k[A]^m [B]^n$$

## Rate Constant

$[A] = [B] = 1M$  then Rate =  $k$ .

## Order

$(m+n)$  = overall order

### Zero Order Rxn

Rate independent of conc. of react<sup>ts</sup>

$$k = \frac{[A]_0 - [A]}{t} \quad \text{time}^{-1}$$

$$k = -\text{slope}$$



$$t_{1/2} = \frac{[A]_0}{2k}$$

### First Order Rxn

Rate depends linearly with conc.

$$k = \frac{1}{t} \ln \frac{[A]_0}{[A]} = \frac{2.303}{t} \log \frac{a}{(a-x)}$$

$$t_{1/2} = \frac{0.693}{k}$$

$$\ln[A] = -kt + \ln[A]_0$$

$$k = -\text{slope} = \frac{1}{t} \ln \frac{[A]_0}{[A]}$$

$$\log[A] = \log[A]_0 - \frac{kt}{2.303}$$

$$k = \frac{-\text{slope}}{2.303} = \frac{2.303}{t} \log \frac{[A]_0}{[A]}$$

For plot b/w  $\log \frac{[A]_0}{[A]}$  vs time

$$\text{slope} = \frac{k}{2.303}$$

Gas Phase 2<sup>nd</sup> order Rxn

$$k = \frac{2.303}{t} \log \frac{[P_f - P_i]}{(P_f - P_i)}$$

$$= \frac{2.303}{t} \log \frac{P_i}{(2P_i - P_f)}$$

Temp. Dependence

$$E_a = E(\text{threshold}) - E(\text{reactant molecule})$$

Arrhenius Eq<sup>n</sup>

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

- Exothermic:  $\Delta E = -ve$

- Endothermic:  $\Delta E = +ve$

$$\log k = \log A - \frac{E_a}{2.303R} \times \frac{1}{T}$$

$$\text{slope} = \frac{-E_a}{2.303R}$$

$$\log \frac{k_2}{k_1} = \frac{E_a}{2.303R} \left[ \frac{1}{T_1} - \frac{1}{T_2} \right]$$

# Manual Solution Of Chemical Kinetics

**JA Banks**



## **Manual Solution Of Chemical Kinetics:**

## Unveiling the Magic of Words: A Report on "**Manual Solution Of Chemical Kinetics**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Manual Solution Of Chemical Kinetics**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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