

Chapter 1: REACTION KINETICS

1.1 REACTION KINETICS

- a) Arrhenius equation: $k = A e^{-E_a/RT}$
- b) Transition state theory: $k = \frac{k_B T}{h} e^{-E_a/RT}$
- c) Reaction coordinate diagram: E_a is activation energy
- d) Rate law: $r = k [A]^m [B]^n$
- e) Order of reaction: $m+n$
- f) Half-life: $t_{1/2}$
- g) Reaction order: m, n
- h) Reaction rate: $r = -\frac{1}{\nu} \frac{d[A]}{dt}$
- i) Reaction rate: $r = \frac{1}{\nu} \frac{d[B]}{dt}$
- j) Reaction rate: $r = \frac{1}{\nu} \frac{d[C]}{dt}$
- k) Reaction rate: $r = \frac{1}{\nu} \frac{d[D]}{dt}$
- l) Reaction rate: $r = \frac{1}{\nu} \frac{d[E]}{dt}$
- m) Reaction rate: $r = \frac{1}{\nu} \frac{d[F]}{dt}$
- n) Reaction rate: $r = \frac{1}{\nu} \frac{d[G]}{dt}$
- o) Reaction rate: $r = \frac{1}{\nu} \frac{d[H]}{dt}$
- p) Reaction rate: $r = \frac{1}{\nu} \frac{d[I]}{dt}$
- q) Reaction rate: $r = \frac{1}{\nu} \frac{d[J]}{dt}$
- r) Reaction rate: $r = \frac{1}{\nu} \frac{d[K]}{dt}$
- s) Reaction rate: $r = \frac{1}{\nu} \frac{d[L]}{dt}$
- t) Reaction rate: $r = \frac{1}{\nu} \frac{d[M]}{dt}$
- u) Reaction rate: $r = \frac{1}{\nu} \frac{d[N]}{dt}$
- v) Reaction rate: $r = \frac{1}{\nu} \frac{d[O]}{dt}$
- w) Reaction rate: $r = \frac{1}{\nu} \frac{d[P]}{dt}$
- x) Reaction rate: $r = \frac{1}{\nu} \frac{d[Q]}{dt}$
- y) Reaction rate: $r = \frac{1}{\nu} \frac{d[R]}{dt}$
- z) Reaction rate: $r = \frac{1}{\nu} \frac{d[S]}{dt}$

REACTION RATE

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- u) Reaction rate: $r = \frac{1}{\nu} \frac{d[U]}{dt}$
- v) Reaction rate: $r = \frac{1}{\nu} \frac{d[V]}{dt}$
- w) Reaction rate: $r = \frac{1}{\nu} \frac{d[W]}{dt}$
- x) Reaction rate: $r = \frac{1}{\nu} \frac{d[X]}{dt}$
- y) Reaction rate: $r = \frac{1}{\nu} \frac{d[Y]}{dt}$
- z) Reaction rate: $r = \frac{1}{\nu} \frac{d[Z]}{dt}$

Reaction rate is the change in concentration of a reactant or product per unit time.

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Concentration increases over time, showing that reaction is reversible.

Concentration remains constant over time, showing that reaction is reversible.

Reaction Energy And Reaction Kinetics Study Guide

David R. Klein



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