#### FEATURES OF AN ORGANIC REACTION

Mechanisms Describes the overall reaction using a series of simple stees.

Stolchlometry: Calculate reactant and product masses using the balanced equation and molar

Klesetlesc The study of the reaction rate and mechanism. Theoretical yield: Many of product upon by a composition reactions.

Nigrield - 100% approduct mass) - (theoretical yield).

Equilibrium: Reaction does not proceed to completion, instead, it reaches a balanced state of forward and reverse reactions.

#### Major reaction types:

or Magnetic of Billianian

- . Elizabetica (E1, E2).
- · Oxidation Reduction
- + Cyclination · Hlydrolysia.
- · Maddidayana
- \* Condonnation
- Substitution (SN1, SN2) Radical reaction.
- \* Romine Metaction

#### Important named reactions:

- Diels Alders form cyclic alkena
- · Friedel-Crafter add acyl or skyl group
- · Grienaud: add alloyl or anyl proup
- Wolf-Kirschner, Clemmenson; reduce betone to
- . Wittig: convert aldeby do ketone to alkene

# REACTION MECHANISM



Transition state (TS): Maximum on the reaction coordinate curve: the least stable intermediate.

Activation Energy (Ea): Unergy of the TS relative to the reactant. The change in enthalpy ( $\Delta H$ ) is < 0 for exothermic. > 0 for endothermic

Hammond-Leffler postulate: The TS is more like the reactant or product that is closer in energy, enalythermic TS in like the product, enothermic TS is like the reaction.

Kinetic vs. thermodynamic control: 5G and 5H describe Thermodynamic Stability

- If AG is large and regative (exergence), the product formation is likely controlled by "thermodynamics." Large Keq corresponds to a large amount of product, relative to reactant.
  - · A large E, may give rise to "kinotic" coestol, the energy of the TS controls the reaction, instead of the product-reactant thermodynamics.

Solvent effects: A solvent may stabilize an intermediate, decreasing E<sub>a</sub> and increasing the rate of the reaction. Charged-complexes are stabilized by profuse softweens.

#### ORGANIC ACID AND BASE

- . Electron-pair acceptor (Lewis acid)
- · Proton donor (Bronwtod-Lowey acid): example curbony lie sold

- . Electron-pair donor (Louis base):
- . Proton acceptor (Bromsted-Levery base): enample: come

#### Factors enhancing acid strength (HA):

- Windsor H.-A. boost
- Greater electronogativity of "A".
- · Inductive effect of substituent on "A"
- defection, withdrawal onlyances transfer).
- . More "s" character in hybrid orbital
- to-orbital is lower in energy than p-orbital): · Resonance stabilized conjugate base (A')

#### Factors enhancing have strength;

· Reverse of acid-strength guidelines

A base is a sucleophile; Electronic effects which shift electron density to the atom with the lone-pair increases hose-strongth.

#### ALKANE



#### Properties:

- · Difference and seem
- · Wijok intermolecular forces
- · Non-cyclic: general formula C.H., ..
- Tetrahodral C-C-C (1097)

#### Norman electricities

- . Add "-and" to profin.
- . Locate substituent by position #
- · Haloutkane: substitute halide for -H

#### Cycloulkanner (Californ)

- . Bicyclic two fieled or bridged rines
- \* n = 3: cyclopropane: (highly strained)
- n = 4: cyclobertame: (some flexiblity).
- n = 5: cyclopentane: (slight puckering):
- n = 6: cycloherane: chair stable conformer;
- four less stable; Axial position: "perpendicular" to ring. Equatorial position, in ring "plane"
- (see H, and H, in chair diagram below)
- · Cits two substituents in up position
- . Trace one up and one down

- . Hydrogenate alkene or alkyne (Hz. Pt catalyst)
- . Fire-radical reaction of alkene
- · Reduce halostkane (Zn. HT)
- . Friedel-Crafts alloclation

- . Combustion: alkane + O<sub>2</sub> => CO<sub>2</sub> + H<sub>2</sub>O
- . Halogenation to haloalkane (Cl. Bez. light or hear).

#### ALKENE

Properties: Similar to alkane; non-polar, flammable

#### Nonnewellature:

- Add -one to prefix; Use # to denote C=C position.
- . Instanted C-C-C-C-C-C; commutative -C-C-C-
- . Polysonsaturated fatty acid: 2 or more C-C
- \* Allene: adjacent C+C+C
- · Viewl arount H-C+CH-
- . Mothylama group: HuC+
- · Allyl group: HyC=CH-CHy-
- Vinv1 halide: halide replaces -H on >C>C
- Conjugated: alternate C-C and C-C (resonance)
- · Alkadiene, 2 conjugated C+C; example, butadiene, s-cis and s-trans (sotate about C-C bond)
- Alkatriona, 3 conjugated C=C.
- · Annulene: consugated mosocyclic compound. example: [6] annulene = beneene
- · Aromanic cyclic ions: cyclopentadione anion. cycloheptatrione cation (% electrons)

Incomerse no free rotation of C+C





- · E/Z; prioritize groups by atomic weight (Z higher priority groups on the same side's
- · For noneyelie: ois in less stable (stene hindrance). For evelic, ein more stable.
- · Hadmann Rate: Form the least-substituted alkane
- · Markovnikof Addition: H adds to C with most -H's
- · Zaitsey Elimination: Form allows with more

#### Symphopia:

- + Deleverage alcohol (H\*, hear) (elimination)
- · Deby-drobalogemate halogikung (huse, heat)
- · Dehalocenate vic dihalide (Zn. scene acid):
- . Hydrogenote alllyme:
- sen, Zico-isomer (H<sub>2</sub>,P-2 catalyst)
- · anti, Eltrans-isomer (Li, NH<sub>2</sub>, -28°C) · Wittig, aldobydo/ketone » phosphorous ylide

#### Resections:

- Combustion (O<sub>2</sub>)
- . Hydrate to 2'13' alcohol (H', H<sub>2</sub>O), 1' from etherer,
- can rearrange (Markovnikov) · Hydrate to alcohol; hydroborate/exiding
- (THF/B-H, H,O./OH-) (oyn, anti-Markovnikov).
- · Osymercurate-demengurate to aloohol.
- Hydrohalogomate (HX) (Markovnikov):
- Halosomane (Be-Cl-), vig dibaloulkane (X-,CCl<sub>2</sub>, ami)
- Halolsydein (N<sub>2</sub>, H<sub>2</sub>O; anti-addition)
- · Hydroxylate to form a 1,2-diol (KMnO<sub>4</sub>, cold OH; men additions
- Oxidize to carbonylic acid (KMinO4, bot OH')
- Obseroly pe to kermin (O),: Zn. H-O)
- Hydrogenote to alkane (Pt. H<sub>2</sub>: sym-addition).
- Free radical polymerization
- Alkadiene Rescrice.
- \* allylic halogenotion (Cl<sub>2</sub>, heat)
- · Diels-Alder: eveloulkene from diene « alkene/alkyne

# **Essential Organic Chemistry 1st Study Guide**

**Terry C. Jones** 

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