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 Marging of Billianian

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

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 (ΔH) 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_a 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, embory 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 onliances 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 + O₂ => CO₂ + H₂O
- . 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: on 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 (H₂,P-2 catalyst)
- · anti, Eltrans-isomer (Li, NH₂, -28°C) · Wittig, aldobydo/ketone » phosphorous ylide

Resections:

- Combustion (Os)
- . Hydrate to 2'13' alcohol (H', H₂O), 1' from ethere, can rearrange (Markovnikov)
- · Hydrate to alcohol; hydroborate/exiding
- (THF/B-H, H-O-/OH-) (oyn, anti-Markovnikov).
- · Osymercurate-demercurate to aloohol.
- Hydrohalogomate (HX) (Markovnikov):
- Halosomane (Be-Cl-), vig dibaloulkane (X-,CCl₂, ami)
- Halolsydein (N₂, H₂O; anti-addition)
- · Hydroxylate to form a 1,2-diol (KMnO₄, cold OH; men additions
- Oxidize to carbonylic acid (KMinO4, bot OH')
- Obseroly pe to kermin (O),: Zn. H-O)
- Hydrogenote to alkane (Pt. H₂: sym-addition).
- Free radical polymerization
- Alkadiene Rescrice.
- · allylic halogenotion (Cl₂, heat)
- · Diels-Alder: eveloulkene from diene « alkene/alkyne

Essential Organic Chemistry 1st Study Guide

Neil E. Schore

Essential Organic Chemistry 1st Study Guide:

Reviewing Essential Organic Chemistry 1st Study Guide: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Essential Organic Chemistry 1st Study Guide**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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