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Carbonyl chemistry cheat sheet

Organic Chemistry Core Concept Cheat Sheet

Introduction to Organic Chemistry

Organic Chemistry

- Chemistry of Carbon
- Terminology
- Proper Structures

Functional Groups

- Alkane:** Contains a carbon-carbon single bond.
- Alkene:** Contains a carbon-carbon double bond.
- Alkyne:** Contains a carbon-carbon triple bond.
- Aromatic:** Contains a six-membered ring, with alternating double and single bonds.
- Alkyl Halide:** Contains an alkyl (alkane - H) and a halogen, RX.
- Alcohol:** Contains a ROH.
- Ether:** Contains a ROR.
- Thiol:** Contains RSH.
- Sulfide:** Contains a RS⁻.
- Aldehyde:** Contains a H bonded to a C on one side of a C=O and a R or H bonded to the C on the other side.
- Ketone:** Contains 2 R groups attached to the C on either side of a C=O.
- Acid Halide:** Contains a C=O, with an X attached to the C on one side and an R or H attached to the C on the other side.
- Carboxylic Acid:** Contains a COOH, with an R or H attached to the C of the COOH.
- Ester:** Contains a COO, with an R attached to the O and a H or R attached to the C.
- Anhydride:** Contains an OCOCO, with an R or H attached on either side of the O.

Amines: Contains an N, with R and / or H attached to the N.

Amide: Contains a N attached to the C of a C=O, with H or R on the other positions.

Nitrile: Contains a carbon-nitrogen triple bond.

Acids and Bases

- Arrhenius Acid:** Dissociates to give H₃O⁺.
- Arrhenius Base:** Dissociates to give OH⁻.
- Bronsted-Lowry Acid:** Donates an H⁺.
- Bronsted-Lowry Base:** Accepts an H⁺.
- Conjugate Acid:** acid that results from the Bronsted-Lowry base gaining an H⁺.
- Conjugate Base:** the base that results from the Bronsted-Lowry acid losing an H⁺.
- Ampiphilic:** Reacts as an acid or a base.
- Lewis Acid:** Accepts electron pairs to form new bonds.
- Lewis Base:** Donates electron pairs to form new bonds.

Electron Pushing

- Locate the electrons on the more electronegative atoms.
- Identify the most electronegative atom and the least electronegative atom in a bond.
- A mechanism is a step-by-step explanation of what happens in a chemical reaction.
- The flow of electrons in a mechanism is from the most electronegative atom to the least electronegative atom.
- The nucleophile donates the electrons in a mechanism.
- The electrophile accepts the electrons in a mechanism.
- Resonance structures are two or more equivalent structures for the same arrangements of atoms, the only difference is the location of the electrons.
- Delocalization are electrons that are distributed among more than two atoms that are bonded together.

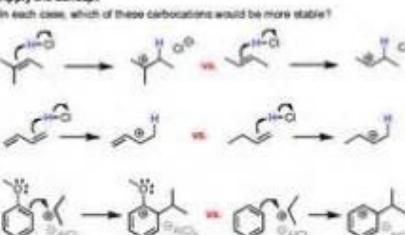
How to Study Organic Chemistry

- For the terminology, know the definition of such terms as nucleophile, electrophile, syn, anti, etc.
- Learn the functional groups and be able to recognize them quickly.
- Learn the first ten alkanes, along with the prefixes and suffixes.
- Identify the most electronegative and the least electronegative atoms.
- The flow of electrons is from negative to positive.
- Understand the concepts, do not just memorize examples.
- Find examples in the textbook or on websites to reinforce the concepts.
- Make flashcards.
- Ask for help if you don't understand something.

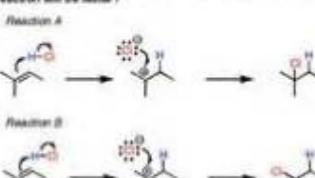
How to Use This Cheat Sheet: These are the keys related this topic. Try to read through it carefully twice then recite it out on a blank sheet of paper. Review it again before the exams.

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Apply the concept



For A and B, if you assume carbocation formation is the rate-limiting step, which reaction will be faster?



Key Reactions of Aldehydes and Ketones

"Master Organic Chemistry"

At Single "Formulas" for Seven Key Reactions of Aldehydes & Ketones

What factors affect the reactivity of aldehydes and ketones?

1. Electronegativity

2. Polarizability

3. Inductive effect

4. Resonance

5. Hydrogen bonding

6. Steric hindrance

7. Solvent effect

8. Addition of nucleophiles

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