Summary Sheet: Two Key Concepts for Nucleophilic Substitution on Carbonyls

Prefixing the nate of injurior at a contract and the Main of the recursing settentials intermediate departs or understanding too year property. The electrons returns of the storms indicating the contract. It flows but he cantoons

Ray Concept #1: The importance of electronic factors

Take the simplest cultoring formulatingle.

Eurobergoes one type of reaction: nucleophilic addition.



What happens when poly autostilute one of the hydrogene on formadethyte for a different functional group?

O BLOH OR CALLAN, NHR ME, NHALL

The late of the respitors will depend on two key factors.

 Elemonogativa functional groups make the carbony carbon more electropositive, artist increases the rate of reaction with numericals.

Priceway reaction rate an nucleightine

 Donatum of a atteiture by the if group mates the partneys carbon less electropositive, which decreases the late of machine with numberships.



Even this discussion seem familiar from electrophilic aromatic authority/from? It should! It's the same principle!

Facult from electrophilis prometic substitution

MIL MIR NA, Dr. O

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Wealty activating ON, CAL R CAL

Westly Descripting

deschineting the to another againsty but are a distorts Moderately describeding CDJH, CDJA, Ch CHO, COR

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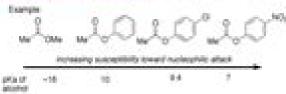
"I raft off INGs and SOsyn, which are important in electrosphile accreated automatic but not have in-parteral, carbony groups attached to these functions groups are too yestellar treatment inydicity in the architecture useful.

Note: tors at the position of DH prot O. They are entremely strong a discord. There why carboxylic apole are receitant to affact under basic conditions, strong a disreption by OC 1910 the pathonyl makes it extremely receitant literate inclinion/fell strains.

And the aith playinghile promote publishers, a denoted having electrologistry. The bronger the s-dance, the more resistant the perbodyl will be brownite had legalitic affects. The presence of directing groups makes the carbonyl carbon less associativits and the carbonyl support more numbers to Result freez resonance forms.

The carbonyl is the most nucleopholo (and Lewis basis) plus. Therefore, it is protonated find

A good prony for domating storing is plf.a, especially when the atom attached to the carbony' is the same.



The total activated intermediate can undergo turber reaction

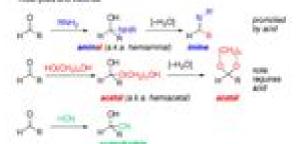
How can you predict what will happen?

Leaving group ability is directly related to the pKa of the conjugate acid.

pro of collegate and *remember, forevers. That under basic conditions (3H will be C* which means it would have to reason as C**, an extremely that become provi-

Advice: Know your pita's cold. They are a great measure of learning group ability and also of the obstron storating ability of the conjugate base, which colors up again and again when discussing chamical reactivity.

- Automorphics and Entoneous

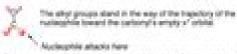


Key concept Kit. The importance of eters factors

Formattehyde again, as the hydrogens are rigitated eith progressively bulker groups, the reaction rate goes street.

increasing attent fundamor adjacent to the carbony

18hy? Recall the artificiniting (x*) printing of the carbonyl group.



The same concept applies for the rate of reaction of multiciphties with eaters and articles.



A first important concept. Levils acids make carbonyls more electrophilic

For example, in the Fruction extentication, the find play is protonation of the surface/fit and

The protonated carbonyl, which is now more electrophilic, reads with the relatively weak nucleonies. The anishold

Note in this example that the reaction between the Laws and InCit and nucleophile (EICH) is reverable under the reaction-conditions, whereas using , say, a Dirighest respect would require in increasible proteination of the nucleophile is a no reaction. Compatibility between Laws acids and nucleophiles is treated with more detail in advanced level properly charming touches.

varson I & (60%) o copingle James Rahardhald, (610) sugpestorialy alexand premaints " primes the stochers, com matter operacine matter a continues com

in parent

more hurlegable a less electrophic a factor rate of reaction with electrophics a higher electron density a more (units basis) in less Lesis acids" a more electron rich a less electropositive more electrophic a less electrophic in test electrophic

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 - Advantages of eBooks Over Traditional Books
- 2. Identifying Master Organic Chemistry Reaction Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Master Organic Chemistry Reaction Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Master Organic Chemistry Reaction Guide
 - Personalized Recommendations
 - Master Organic Chemistry Reaction Guide User Reviews and Ratings
 - Master Organic Chemistry Reaction Guide and Bestseller Lists
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 - Master Organic Chemistry Reaction Guide eBook Subscription Services
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 - Participating in Virtual Book Clubs
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Master Organic Chemistry Reaction Guide
 - Carving Out Dedicated Reading Time
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 - Fact-Checking eBook Content of Master Organic Chemistry Reaction Guide
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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