Summary Sheet: Two Key Concepts for Nucleophilic Substitution on Carbonyls

Prefixing the nate of injurior at a contract and the Main of the resulting strategies immediate deposit or understanding too key concepts. 1. The electrons require of the storms addring the contract. 2. Storm bulb ensured the contract.

Ray Concept #1: The importance of electronic factors

Take the aimplied cultional formationals

It undergoes one type of reaction: nucleophilic addition.

What happens when pour autostlute one of the hydrogene on formade/hyde for a different functional group?

O BLOK OR CALLING MIR MIS MINE J. O. B. LOY, R. CO, SR 40:

The late of the respicer and depend on two may factors.

 Elemonographic Sectional groups make the carbonyl carbon more electropositive, which increases the rate of reaction with nutricipholes.

 Donature of a attentions by the Eigensy history the carbonyl carbon less steelingcomes which decreases the care of machine

Exes this discussion seem familiar from electrophilic aromaty substitution I it absolut the time same principles'

Pocul from attemptotic prometo substitution

Mrs. Will May Dr. O

Moderately activating secoons, secons does, on

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Strongly Describating

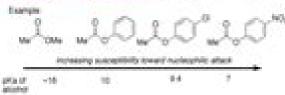
"I raft off InO₂ and SO₂/H, which are important in electrografts accreated autostation that not here: in-perient, carbony groups attached to these functioner groups are not unable transition protograft to be architected useful.

Note: took at the position of On and OT They are enterney strong a discrete, they are enterney strong a discrete with carbonyle appearance meetant to effect under basic conditions, strong a disreption by OT still the participal matrice it extremely resident forest in contributions from States.

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 Hotel nucleogratic (and Lewis basis) site. Therefore, it is protonated find

A good prony for donating stoting is pile, especially when the atom attached to the certainly in the same.



The total activated intermediate can undergo turber reaction

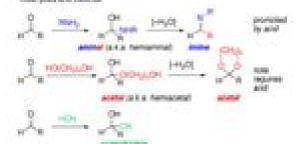
How pay you predict what will happen?

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 electron donating ability of the conjugate base, which comes up again and again when discussing chamical reactivity.

- Authorizones and Entones

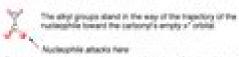


Key concept Kit. The importance of eters factors

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

promising stero houtance adjacent to the certary.

187y TRacel the artificiniting (x*) printed of the carbonyl group.



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



A final important concept. Levils acids make carbonyls more electrophilic

For example, in the Fricher extentication, the first 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 ruckeophile (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.

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more hurlesphile a less statinghile a faster rate of neation with electrophiles a higher electron density a more Castle Septi "a less Levis acide" a more electron rith a less electrophile and electrophile a less electron rate and electrophile and electrophile and electrophile and electrophiles are less electron rate and electrophiles and electrophiles are less electron rate and electrophiles are less electron rate and electrophiles are less electron rate and electrophiles are less electrophiles.

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