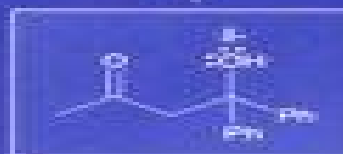
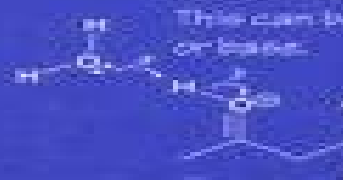


Reaction Mechanisms at a Glance

A stepwise approach to problem-solving in organic chemistry

MARK G. MOLONEY

Alcohols are nucleophiles, the oxygen possesses lone pairs, a strong acid, and fully



Alcohols are nucleophiles and bases, since the oxygen possesses lone pairs. H is a strong acid, and fully ionized ($pK_a = -10$).

Ketones are more reactive than esters, due to the stabilizing resonance delocalization in the ester, and the nitrogen on H_2N^+ . Hydroxylamine is more nucleophilic than oxygen, since nitrogen is less electronegative.

The combination $NaNO_2/HCl$ generates $HOONO$ (nitrous acid), which is in equilibrium with N_2O_3 , a source of $O=N-N=O$. This reagent deprotects the amine functional group.

Label chiral centers with wedges and dashes, and indicate stereochemistry in the starting material and product.

Number the open reactive sites, 1 to 4, in order from most reactive.

Reveal the characteristic reactivity of the most reactive functional group, by considering the reaction conditions, which select the most appropriate.

Summary: An ester reacts with 2 equivalents of organotin to



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An Introduction to Chemical Engineering Kinetics & Reactor Design Charles G. Hill, *Strategies and Solutions to Advanced Organic Reaction Mechanisms* Andrei Hent, John Andraos, 2019-06-26 *Strategies and Solutions to Advanced Organic Reaction*

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Medicine at a Glance Patrick Davey, 2015-10-02 This fourth edition of Medicine at a Glance, the leading title in the best selling at a Glance series, provides an unparalleled overview of the study of medicine, closely following the core medical curriculum. Ideal for medical students, Foundation programme doctors and those training in the allied health professions, Medicine at a Glance presents vital information on clinical presentations, diseases and treatments in every major medical specialty from cardiology to dermatology. Medicine at a Glance has been fully revised to reflect essential clinical and curriculum updates. Contains brand new material in key areas such as imaging, women's health, communication and data interpretation. Features a brand new clearer text design in the trusted at a Glance double page spread style in full colour throughout. Is the ideal practical companion to clinical attachments available in a range of digital formats for on the go study and revision. Includes a companion website at www.ataglanceseries.com/medicine featuring interactive Multiple Choice Questions (MCQs), interactive flashcards with show/hide labels and tables of normal values. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from iTunes, Google Play or the MedHand Store.

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