*CHEM 242 – Lecture 27 19/03/2014*

Overheads: - Outline

Recap Monday: Reactions of Carbonyl Compounds With LG’s



Seen: - ester hydrolysis



Position of Equilibrium: - controlled by LeChatellier

* use H2O as solvent ⇨ products major
* use CH3OH as solvent ⇨ reactants major

Lab 8: Synthesis of Wintergreen: same 6 easy steps in reverse!





* Reaction much slower than with acyl halide may need heat

BUT: HOCH3 is NOT acidic like HCl or RCO2H, so only need one equivalent of H2NR BIG advantage

4) Reactions of Carboxylic Acids:

1. With ROH: Just saw: ⇨ reverse of ester hydrolysis in six easy steps



1. With Amines: similar problem



⇨ because RCO2H is acid, can’t do acyl substitution with base.

5) Reactions of Amides: - least reactive!

⇨ can only be hydrolyzed if heated with H+ or OH- and excess H2O





