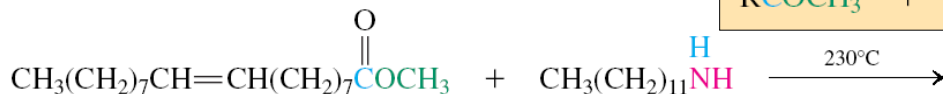
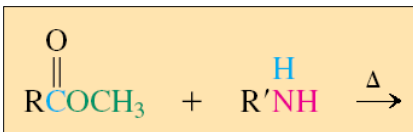
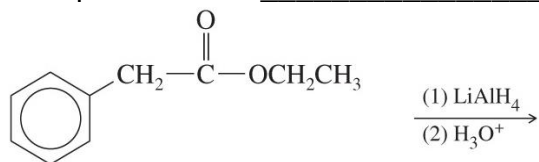


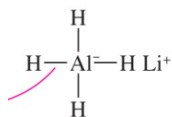
Amines + esters → _____
Amines _____ than alcohols.



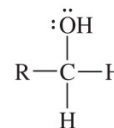
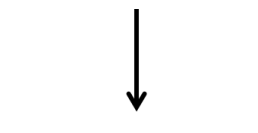
LiAlH₄ + esters → _____



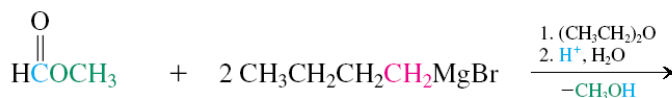
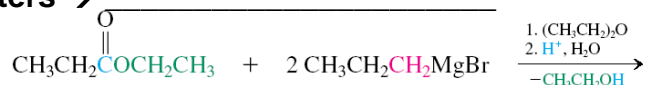
Mechanism



Esters, acids, and acyl chlorides

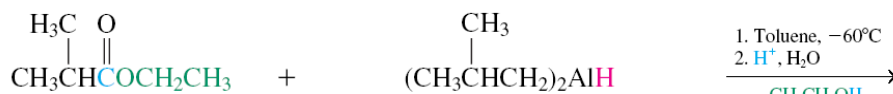


Grignard + esters → _____



Mechanism

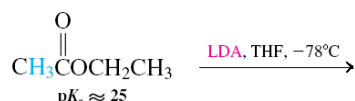
Ester + DIBAL → _____



Esters also form _____

Esters w/ strong base at low T produce _____

React like ketone enolates = _____



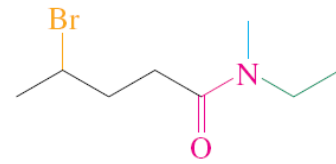
Can behave as strong bases, side reactions include _____

Amides

-e → _____

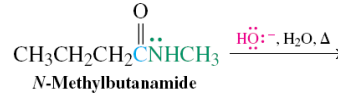
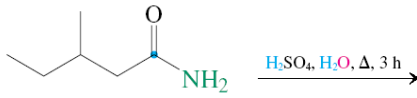
-ic → _____

cyclic -carboxylic acid → _____

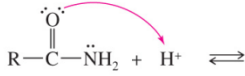


4-Bromo-N-ethyl-N-methylpentanamide
(A tertiary amide)

Amide + heat + acid/base → _____

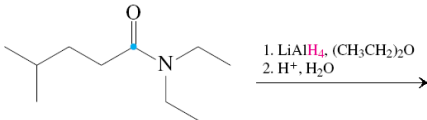


Acid Mechanism



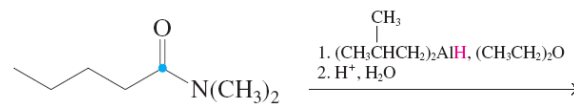
Base Mechanism

Amides + LiAlH₄ → amines



Mechanism

Amides + DIBAL → aldehydes



Practice

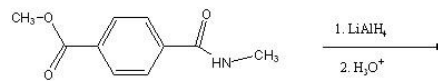
Nomenclature

o-bromobenzoyl chloride

Predict Products



N,N-dipropylbutanamide



Fill in Reagents/Predict Products

