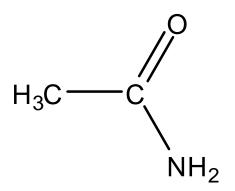
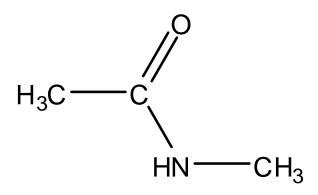
## Chemistry 3.5 Advanced Organic Chemistry

**Amides** 

## **Amides**

- There are two types of amides
- Primary amide
  - Similar to carboxylic acid
  - Replace OH with NH<sub>2</sub>
- Secondary amide
  - Similar to ester
  - Replace O with NH

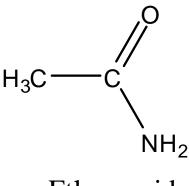




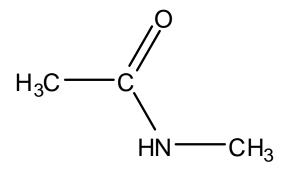
## Naming amide

- Primary amide
  - Suffix anamide

- Secondary amide
  - Similar to ester
  - "N-" on the chain attached



Ethanamide



N-methyl ethanamide

## Hydrolysis of amides

- Similar to esters, amide bonds can be broken by water (hydrolysis)
- This can be done under two conditions
  - Acidic condition

Carboxylic acid + alkyl ammonium ion

Basic condition

Carboxylate ion + amine

