## CARBOXYLIC ACIDS AND DERIVATIVES

# Functional group:

Solubility in water:

General formula:

Boiling point: absence of water.

because they can form

in the

Examples and naming:

Forming a carboxylic acid:		
Oxidation:		
Conditions:		
Hydrolysis of	•	
Acidic Hydrolysis:		
Alkaline hydrolysis		
Aikuille liyulolysis		
<b>2  </b> Page	www.myequityeducation.com	©

# Reactions of carboxylic acids:

General acid-base reactions:

( Acid + bak -) + water

Ethanic ocid + \_\_\_\_> Sedium
ethanoole

ethorome

----> + H2O

CH3CH2COOH +

3) + metal — ) Salt + carbon dicxide carbonale + water

**Esterification:** 

Conditions:

Forming an acyl chloride:

Carboxylic acids can be used to form acyl chlorides:

Conditions:

### Reaction of acyl chlorides:

Acyl chlorides are with a odour that in moist air.

General formula: Naming: Ends in

Acyl chlorides are reactive and reactions are difficult and dangerous to control, the reactions are general very and produce as a by-product.

Hydrolysis:

Conditions:

**Esterification:** 

+ CHZCHZCHZOH

Conditions:

Conditions:

#### Forming amides:

Forming a primary amide:

Reagent:

Conditions:

Forming a secondary amide:

Reagent:

Conditions:		
<b>7</b>   D at at a	www myequityeducation com	

<b>8  </b> Page	www.myequityeducation.com	©