

# Edexcel IGCSE Chemistry

## Topic 4: Organic chemistry

### Carboxylic acids

#### Notes





4.34 (chemistry only) know that carboxylic acids contain the functional group  $\text{-COOH}$

4.35 (chemistry only) understand how to draw structural and displayed formulae for unbranched-chain carboxylic acids with up to four carbon atoms in the molecule, and name each compound

- First four members are: methanoic acid, ethanoic acid, propanoic acid and butanoic acid

carboxylic acid	structural formula	displayed formula
methanoic acid	$\text{HCOOH}$	
ethanoic acid	$\text{CH}_3\text{COOH}$	
propanoic acid	$\text{CH}_3\text{CH}_2\text{COOH}$	
butanoic acid	$\text{CH}_3\text{CH}_2\text{CH}_2\text{COOH}$	

4.36 (chemistry only) describe the reactions of aqueous solutions of carboxylic acids with metals and metal carbonates

- Dissolve in water to produce acidic solutions
- React with metal carbonates to produce a salt + carbon dioxide(g) (bubbles are formed / effervesces)
- React with more reactive metals to produce a salt + hydrogen

4.37 (chemistry only) know that vinegar is an aqueous solution containing ethanoic acid

