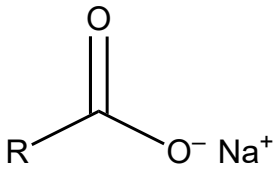
Carboxylic Acids Map

AQA A Level Chemistry · 3.3.9 Carboxylic acids and derivatives



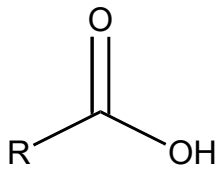
+

$CO_2 + H_2O$

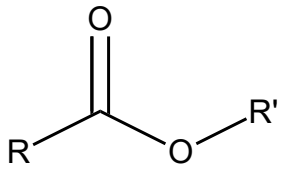
Carboxylate salt

+ CO_2 + water

1



2



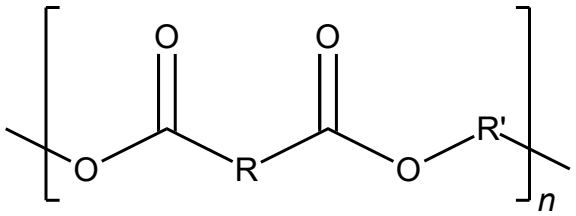
Ester (esterification)

3

Condensation polymer

(from dicarboxylic acids)

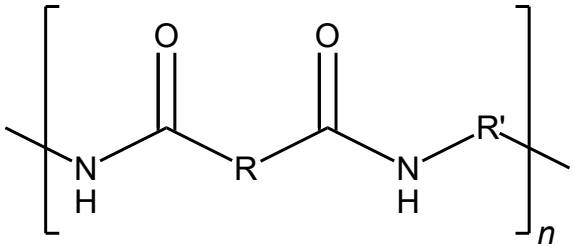
i



Polyester

e.g. Terylene

ii



Polyamide

e.g. nylon 6,6, Kevlar

1 acid-base: carbonate, e.g. Na_2CO_3 or $NaHCO_3$, room temperature; effervescence

2 condensation (esterification): alcohol, R'OH, conc. H_2SO_4 catalyst, heat

3 polymerisation (condensation): diol or diamine

i diol

ii diamine

Carboxylic acids are weak acids but still liberate CO_2 from carbonates (test for –COOH).

acid-base condensation polymerisation

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