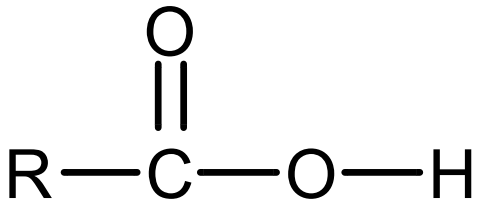
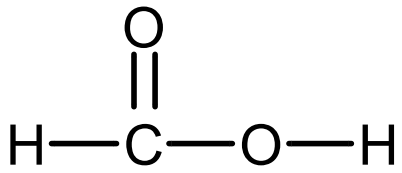
WWW.CHEMSHEETS.CO.UK

CARBOXYLIC ACIDS & ESTERS

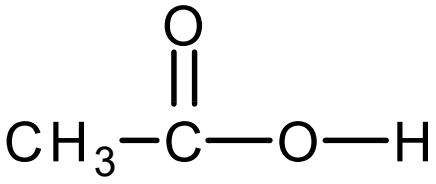
CARBOXYLIC ACIDS



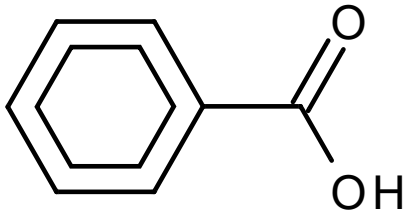
methanoic acid



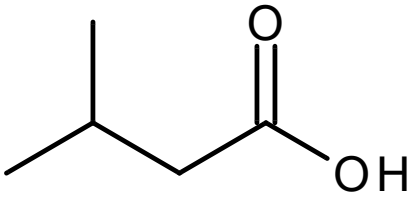
ethanoic acid

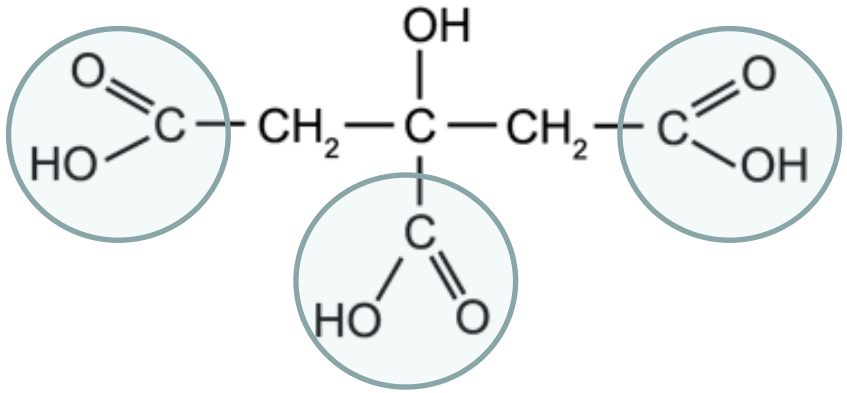


benzenecarboxylic acid
(benzoic acid)

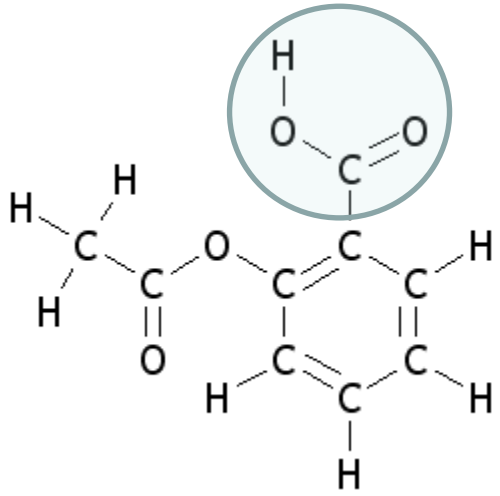


3-methylbutanoic acid

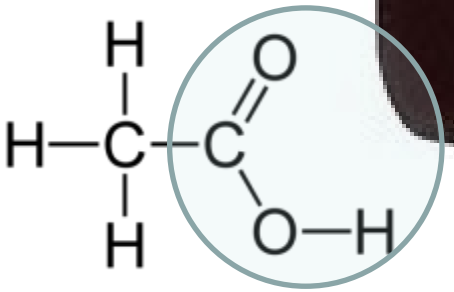



OH
O
C
HO
CH2
C
CH2
C
O
OH
C
HO
O

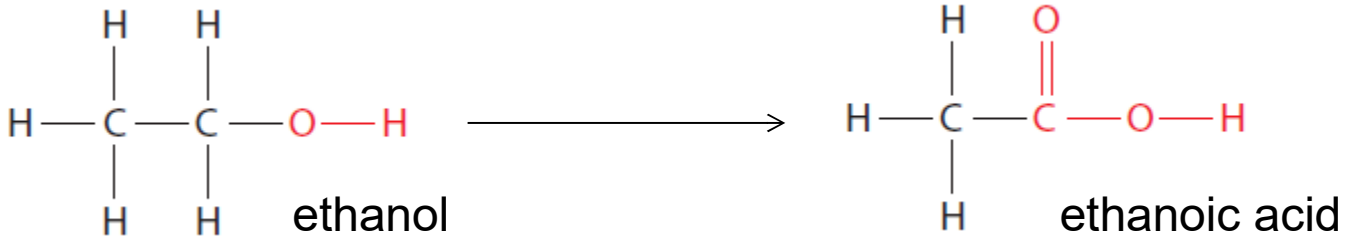

TESCO
Aspirin
300mg Tablets
• Effective pain relief
16
TABLETS

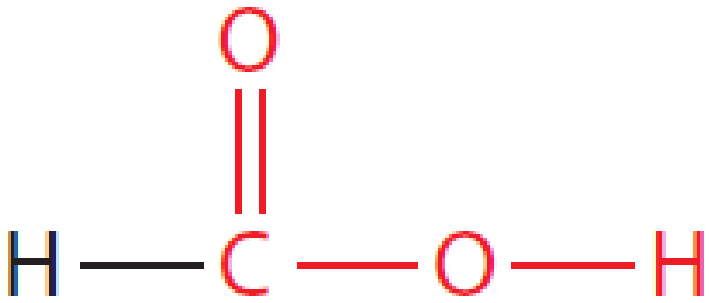


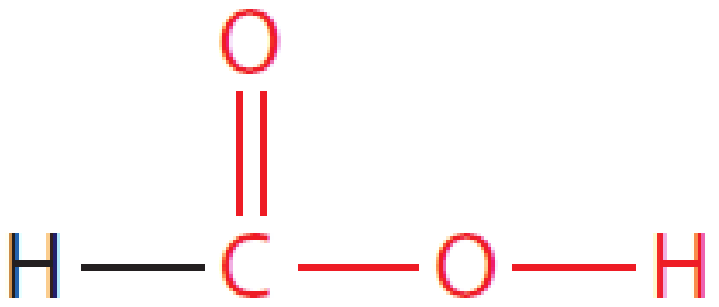

TESCO
Malt Vinegar



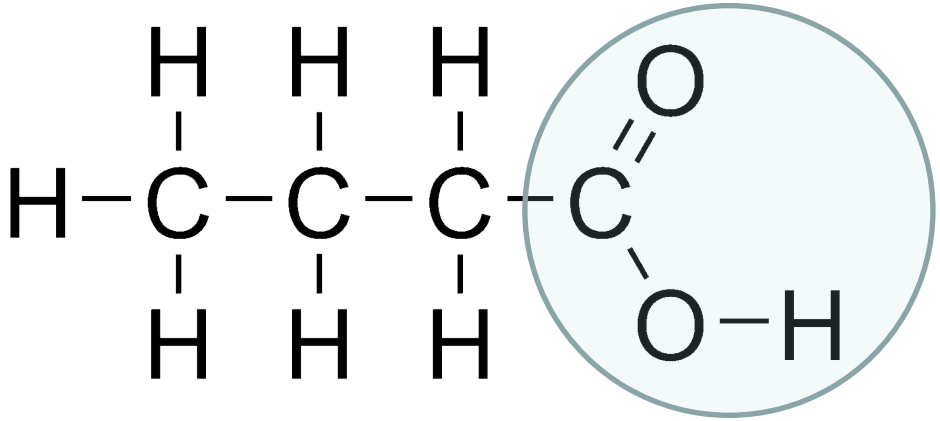

GEORGES DUBOEUF
VINEGAR
POMPEIAN
RED WINE
VINEGAR
PREMIUM
QUALITY


ethanol
ethanoic acid


O
H
C
O
H

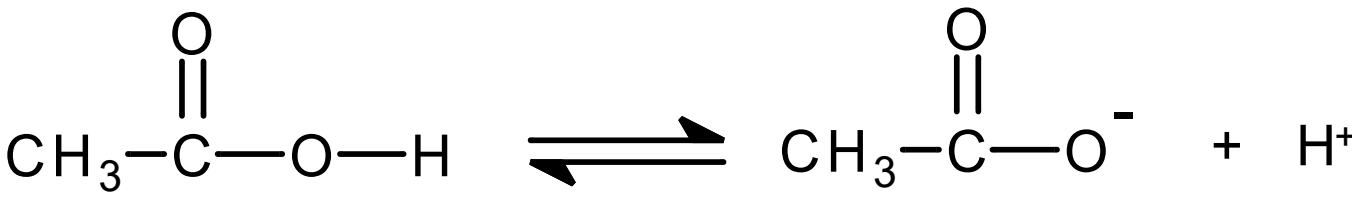

O
H
C
O
H

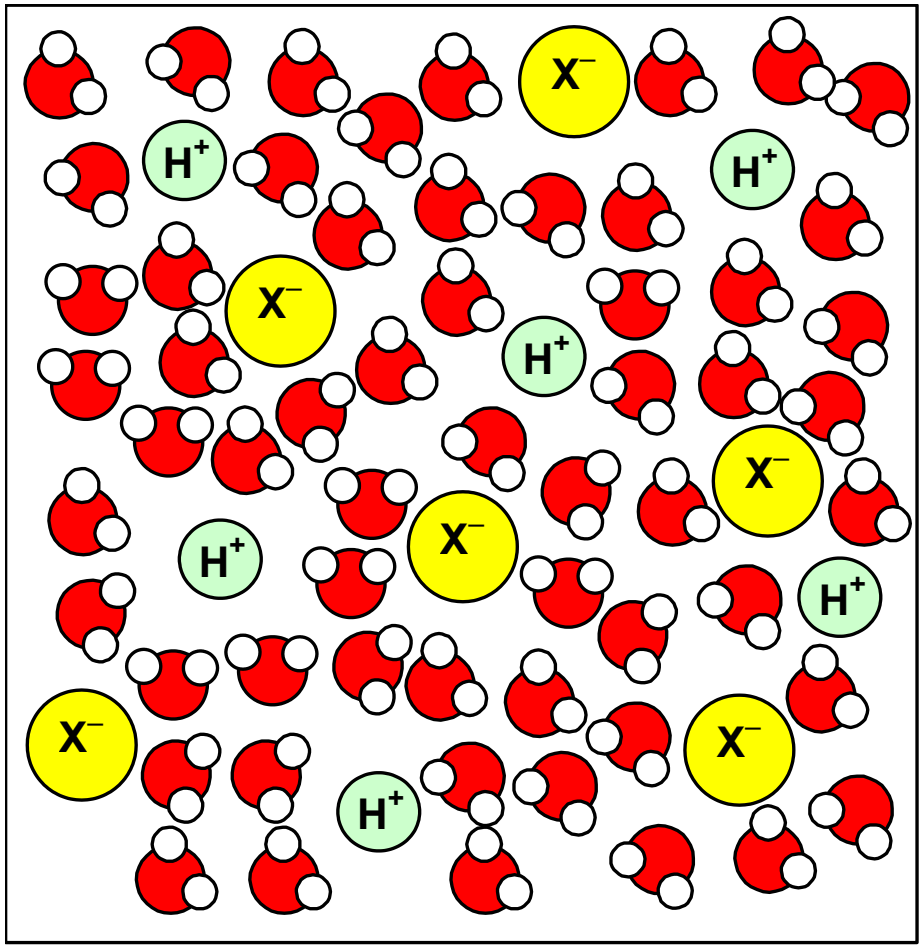

SINCE 1901
LURPAK®
BUTTER
LURPAK
BUTTER

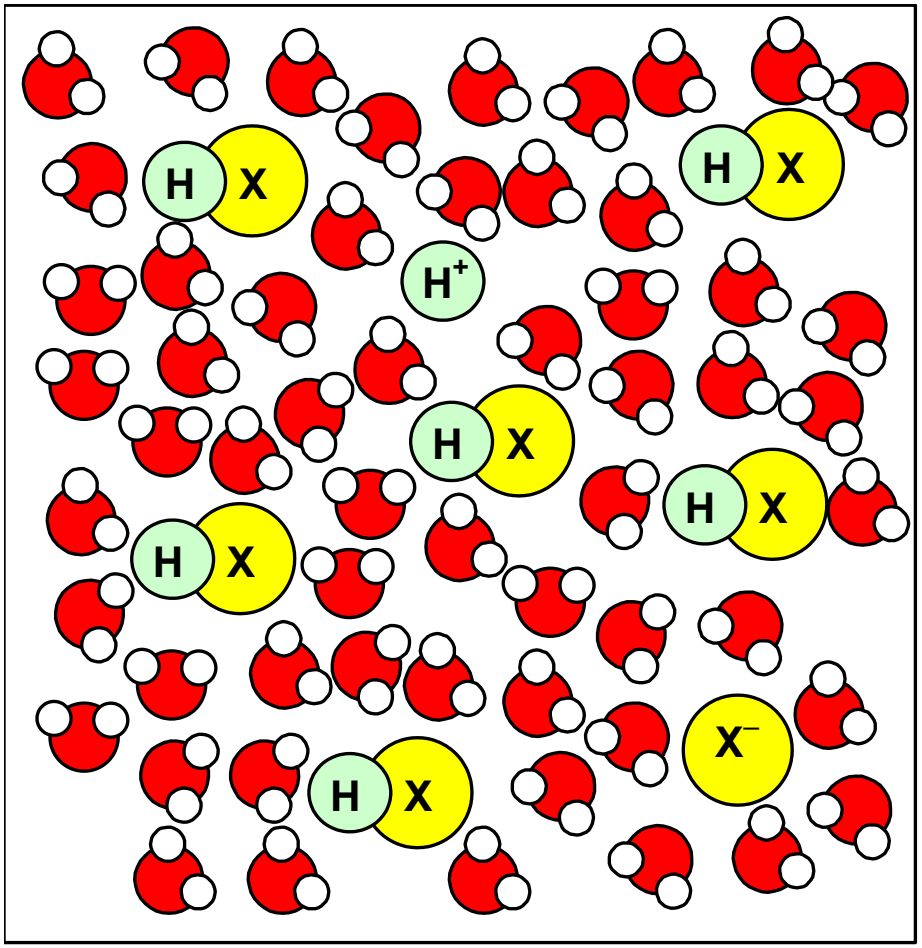

H H H
H C C C C
H H H
O
O H

CARBOXYLIC ACIDS

Weak acids:







STRONG acid

$HX \rightarrow H^+ + X^-$

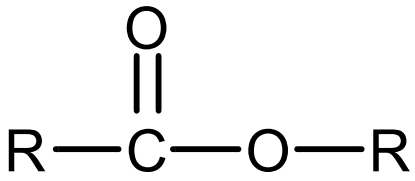
All molecules ionise

WEAK acid

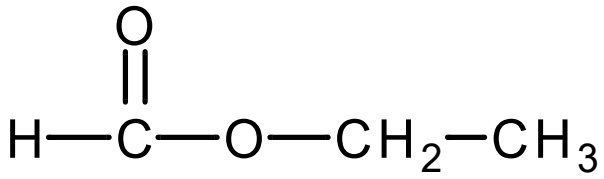
$HX \; H^+ + X^-$

Only a small fraction of the molecules ionise

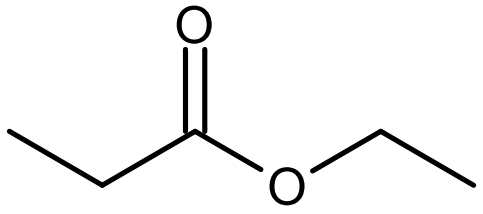
ESTERS



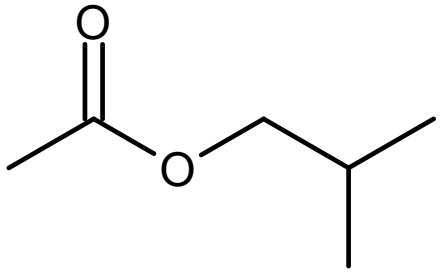
ethyl methanoate



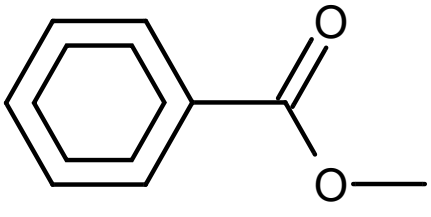
ethyl propanoate



2-methylpropyl ethanoate

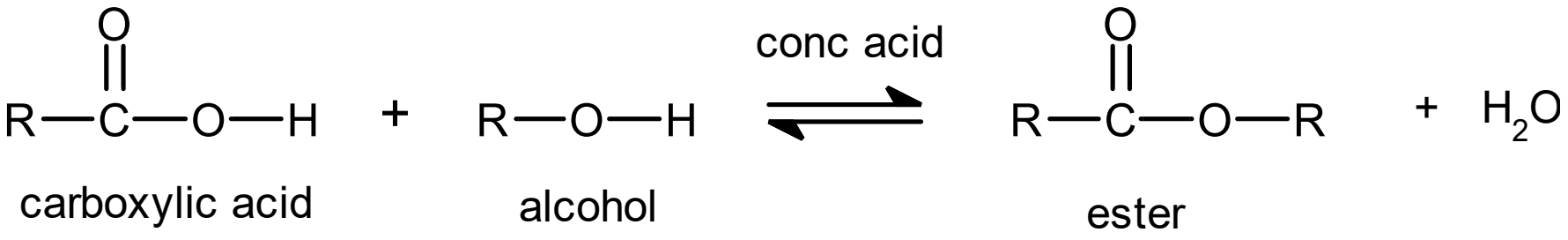


methyl benzenecarboxylate
(methyl benzoate)

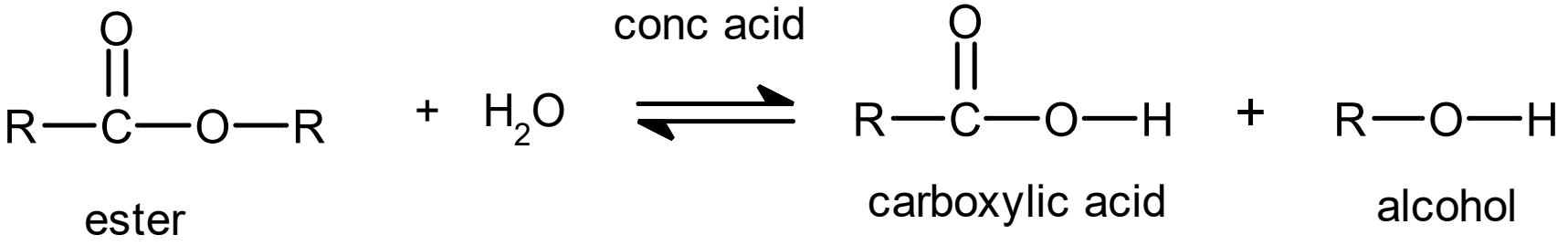


ESTERS

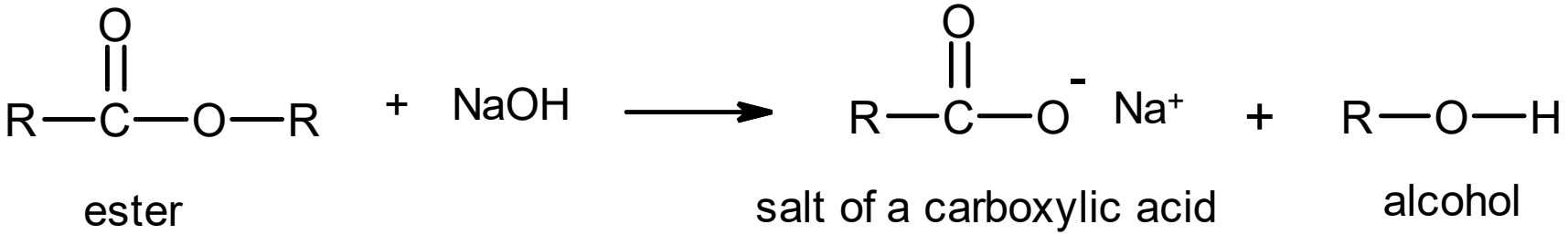
esterification



ester hydrolysis



saponification



ESTERS

Natural & artificial flavourings

ESTERS

Solvents

Plasticisers

Perfumes