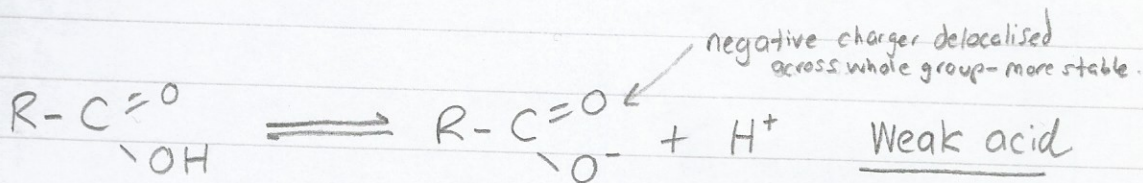
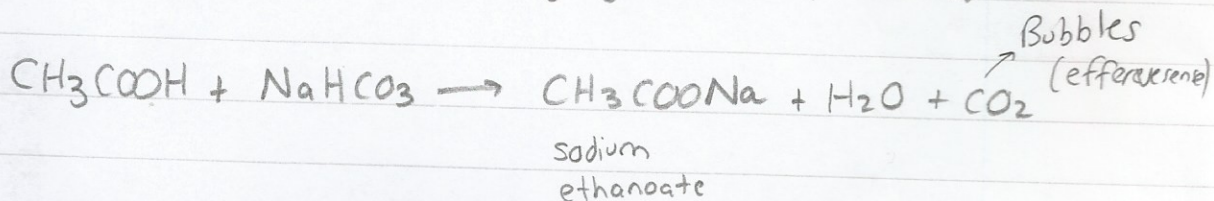


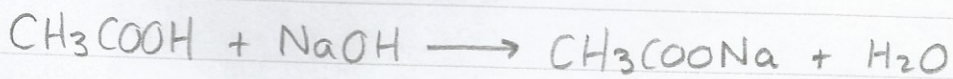
general carboxylic acid formula.



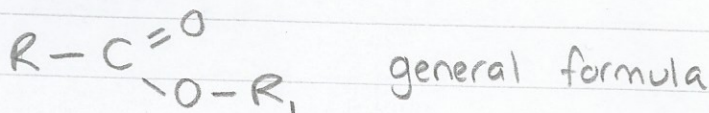
Test for COOH! = Sodium carbonate (Na₂CO₃) or Sodium hydrogencarbonate (NaHCO₃).



• Will react with alkalis to form salt + water (carboxylates)



Esters



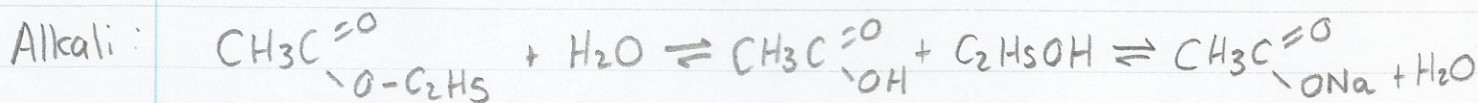
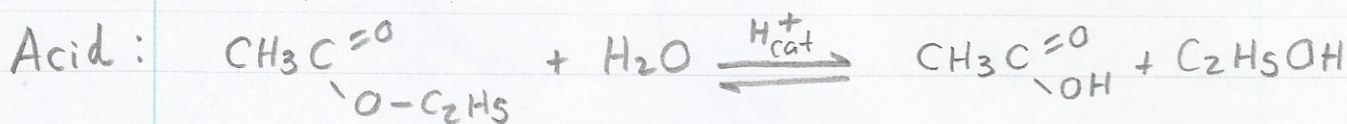
Made from Carboxylic acid and alcohol



Ethyl ethanoate

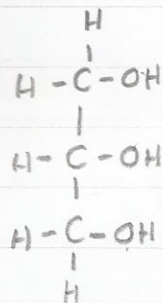
Name them - acid at end!
-alcohol at front!

• Reaction can be reversed by hydrolysis! (reaction with water - (in presence of acid or alkali)).

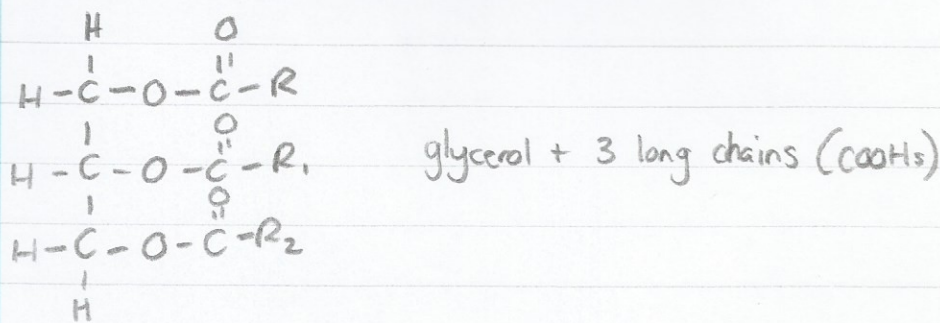


Uses

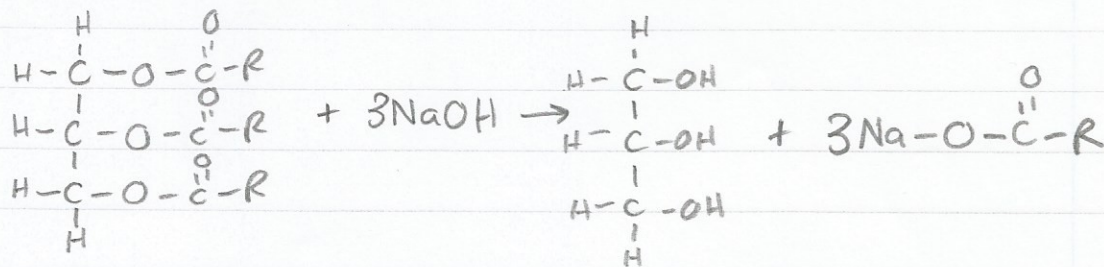
Animal + vegetable fats are esters of the alcohol propane-1,2,3 triol (glycerol)



fats + oils based on glycerol are triglycerides.



Can be hydrolysed in acidic conditions or by boiling with NaOH. This is useful as glycerol and sodium salts of the acids are soaps!



Why soaps? dissociation of sodium salt gives RCOO^- and Na^+ . This gives long hydrocarbon chain (NON POLAR) and COO^- (polar)

mix with grease! mix with water!