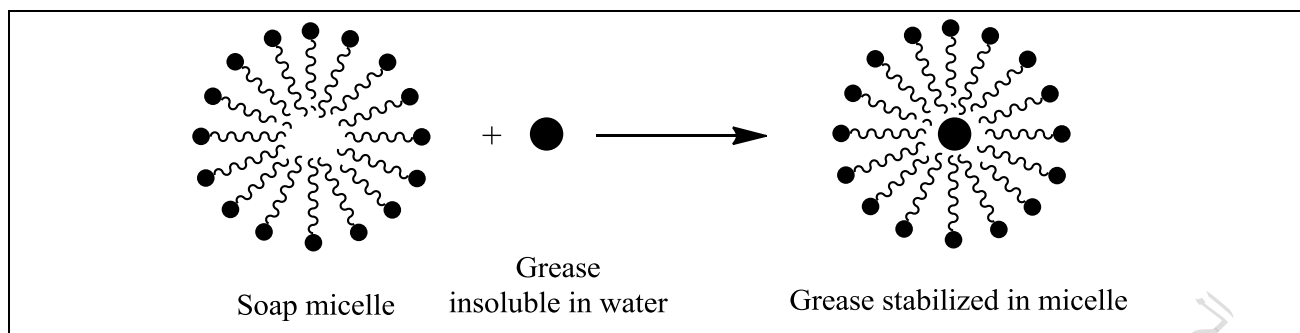
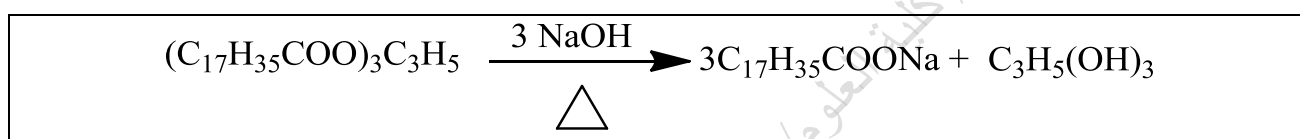




Uses of soap:

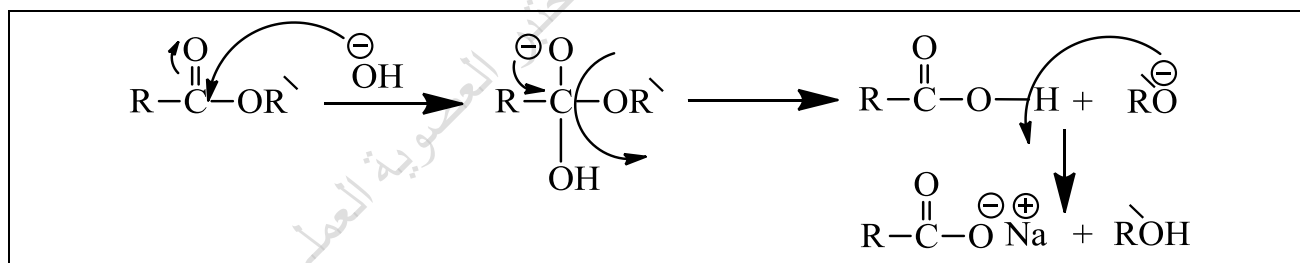
Function soap is to remove the fat from the clothes and dirty objects.

Interaction equation:

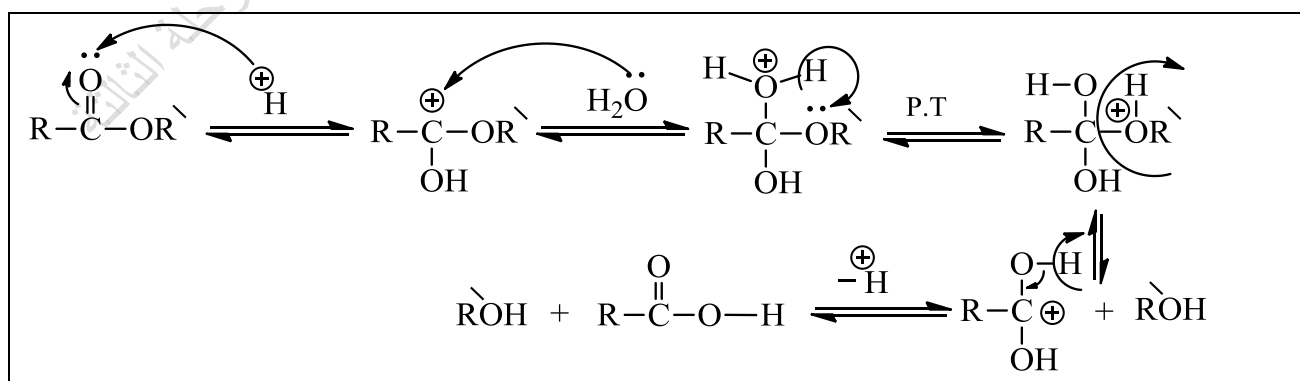


mechanism hydrolysis of the ester:

1- alkaline medium:



2- acidity medium:



Experimental part :

- 1- In a (250ml) round bottomed flask, a mixture of fat or oil (2.5g) and (ethanol + water) (9ml) (1:1), (2.5gm) of NaOH are added and stirred.
- 2- The mixture is refluxed on heating for (30 mins.) with constant stirring.
- 3- A saturated NaCl solution (by mixing (12.5g) of solid NaCl with (40ml) of distilled water is prepared.
- 4- The soap solution is poured into the salt solution and stirred by glass rod until the soap is put out.
- 5- The soap curds Collected by vacuum filtration with a Pickle pressure device and dried for several days.
- 6- The product is weighted and the percentage of yield is calculated