

Esters

In your text (Chang 7th Ed):

11.1 Classes of Organic Compounds

11.4 Chemistry of the Functional Groups

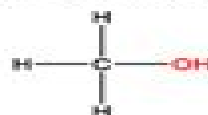
Purpose:

To gain familiarity with the concept of functional groups by synthesizing two common esters, aspirin and oil of wintergreen.

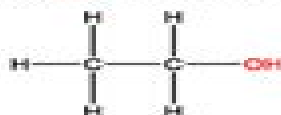
Background:

Functional groups are the areas of organic molecules where chemical reactions take place. Recognizing functional groups and their patterns of reaction allows us to organize information about large numbers of reactions. We can make reasonable predictions about specific reactions based on these general patterns. The functional groups to know for this experiment are *alcohols*, *carboxylic acids*, and *esters*.

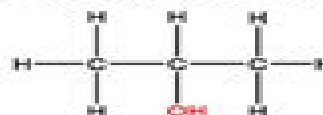
Alcohols contain the hydroxyl (-OH) functional group and have the general formula R-OH.



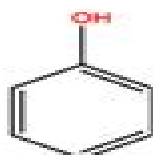
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(methyl alcohol)



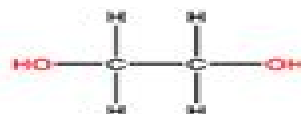
ethanol
(ethyl alcohol)



2-propanol
(isopropyl alcohol)



phenol



ethylene glycol

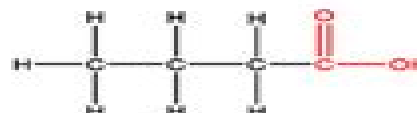
Carboxylic acids contain the -CO₂H functional group and have the general formula RCO₂H.



formic acid



acetic acid



butanoic acid

"R" = any hydrocarbon

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