



C30 Unit B: Functional Group Practice WS

Name: Key!
Date: _____

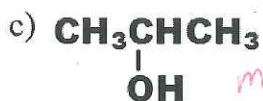
1. Name the following alcohols.



methanol



ethanol.



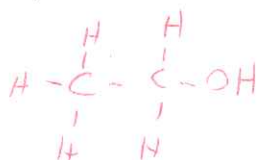
methan-2-ol



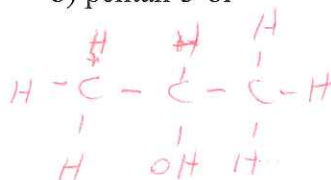
butan-2-ol

2. Draw structural formulas for the following alcohols.

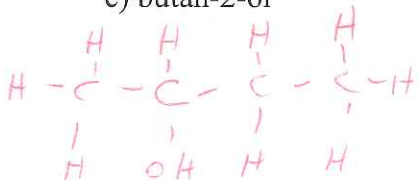
a) ethanol



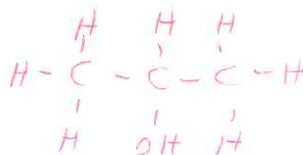
b) pentan-3-ol



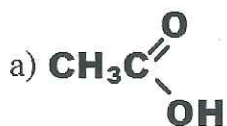
c) butan-2-ol



d) propan-2-ol



3. Name the following carboxylic acids.



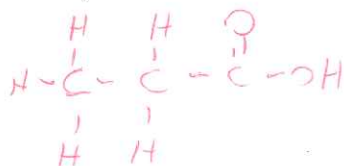
ethanoic acid



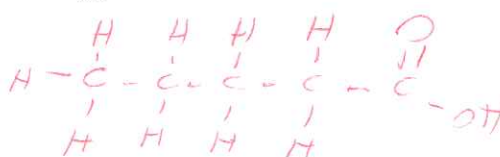
propanoic acid.

4. Draw structural formulas for the following carboxylic acids.

a) butanoic acid

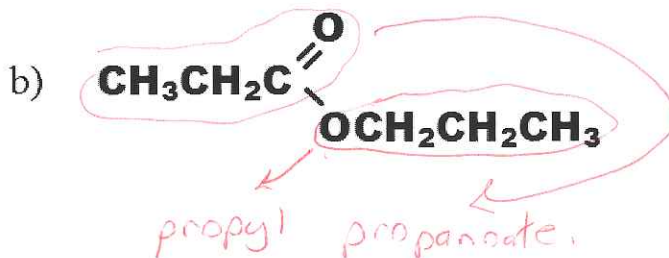
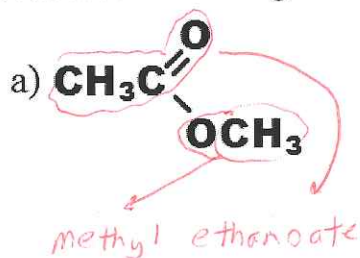


b) pentanoic acid



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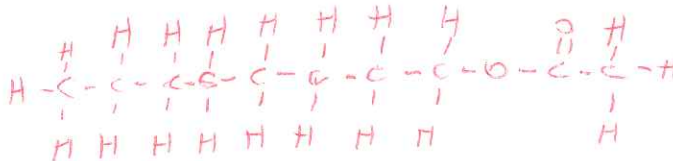
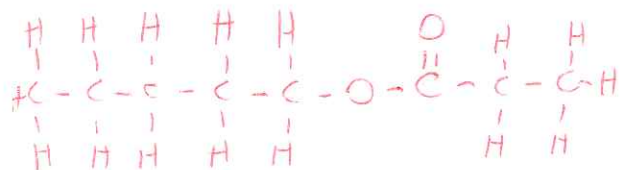
5. Name the following esters.



6. Draw structural formulas for each ester.

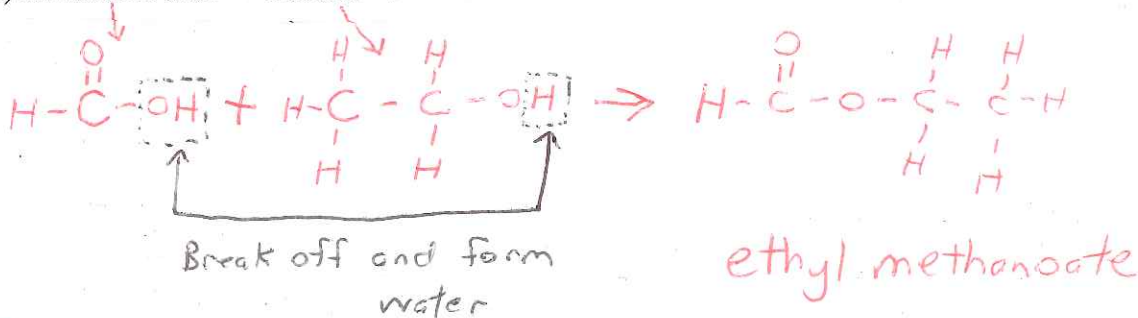
a) pentyl propanoate (apricot flavour)

b) octyl ethanoate (orange flavor)

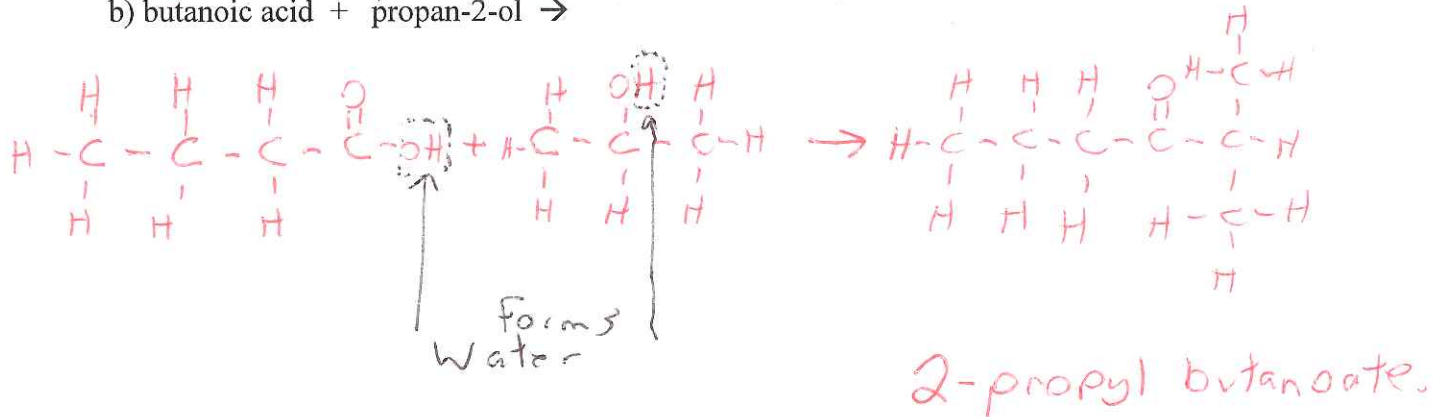


7. Write the structural formulas and give the IUPAC name of the esters formed in these esterification reactions.

a) methanoic acid + ethanol \rightarrow

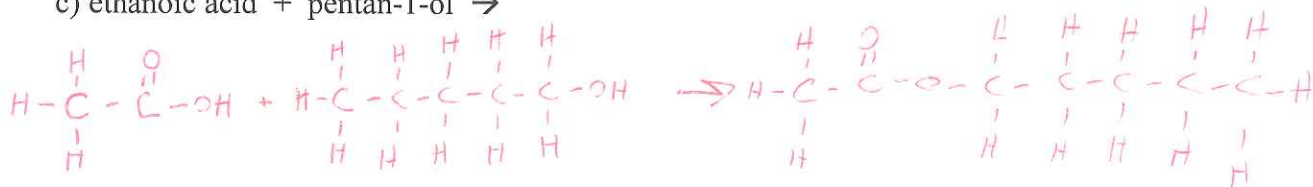


b) butanoic acid + propan-2-ol \rightarrow

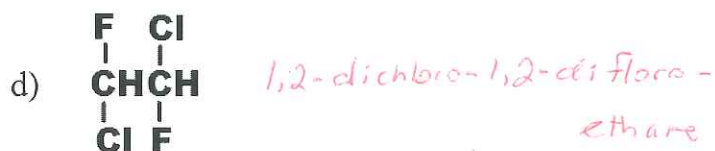
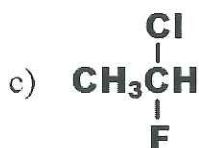
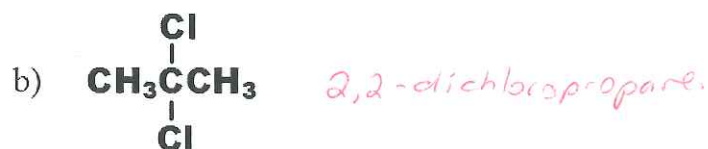


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c) ethanoic acid + pentan-1-ol \rightarrow



8. Name each halogenated hydrocarbon.



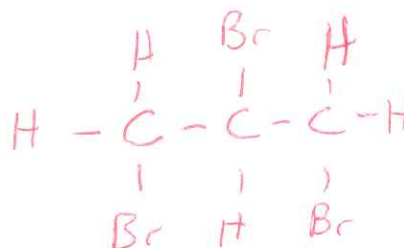
~~1,2~~
1-chloro-1-fluoroethane.

9. Draw structural formulas for each halogenated hydrocarbon.

a) 1,1-difluoro-2,2-dichloroethane



b) 1, 2, 3 - tribromopropane



More Practice: the Practice Problems from page 569 - 574

