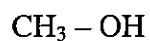


WS 4 – Alcohols, Organic Halides and Carboxylic Acids

Alcohols

1. Name the following compounds:

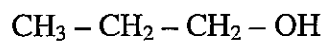
a)



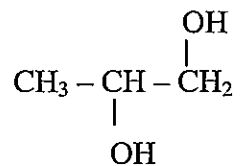
b)



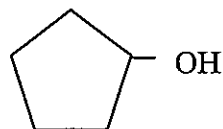
c)



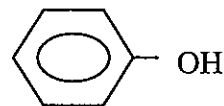
d)



g)



h)



2. Draw each of the following compounds:

a) butan-1-ol

b) 2-methylbutan-2-ol

c) 4-ethyl-2-methylhexane-3,3-diol

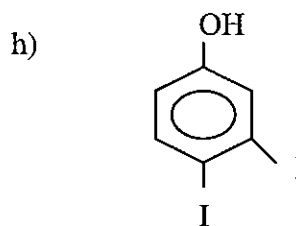
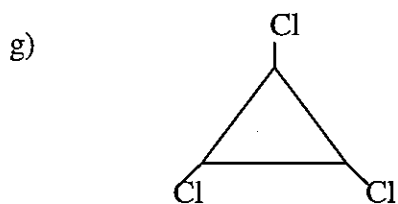
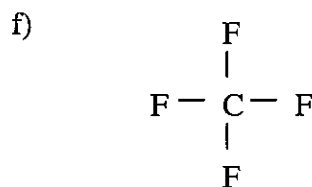
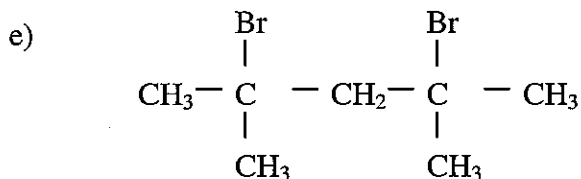
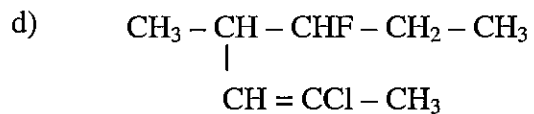
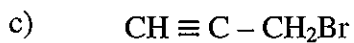
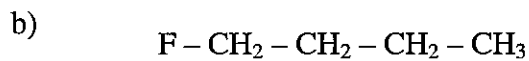
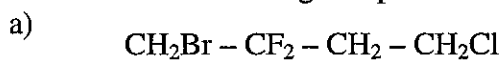
d) 2-phenylpentan-3-ol

e) 4-ethyl-2-methylphenol

f) 2-methylcyclopropanol

Organic Halides

1. Name the following compounds:



2. Draw each of the following compounds:

a) 1,2-dibromo-3-chloropropane

b) 1,4-diiodobenzene

c) 2-bromo-2-chloro-1,1,1-trifluoroethane

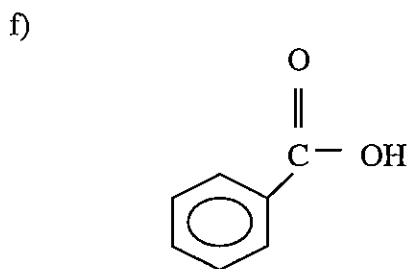
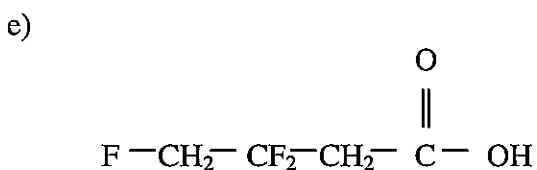
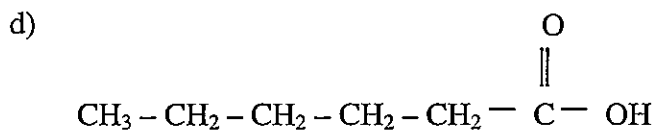
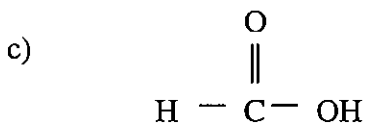
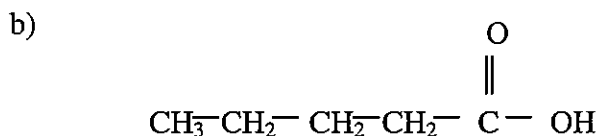
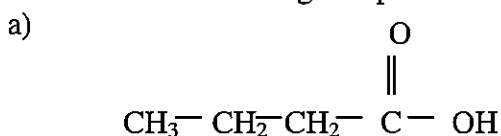
d) triiodomethane

e) 4,4-difluoropentan-1-ol

f) pentachlorophenol

Carboxylic Acids

1. Name the following compounds:



2. Draw each of the following compounds:

a) propanoic acid

b) ethanoic acid

c) 2-methylbutanoic acid

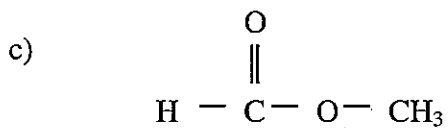
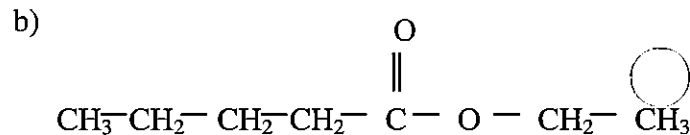
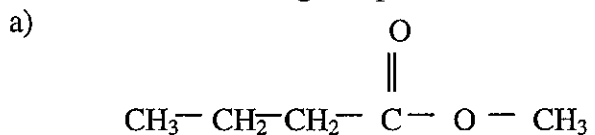
d) 3,3-diethyloctanoic acid

e) 4,4-diiodo-2,2-dimethylpentanoic acid

f) 3-bromo-4-methylhexanoic acid

WS 5 – Esters and Esterification

3. Name the following compounds:



4. For each of the following, write the reaction that would form the compound given:

a) methyl pentanoate

b) ethyl octanoate

c) heptyl methanoate