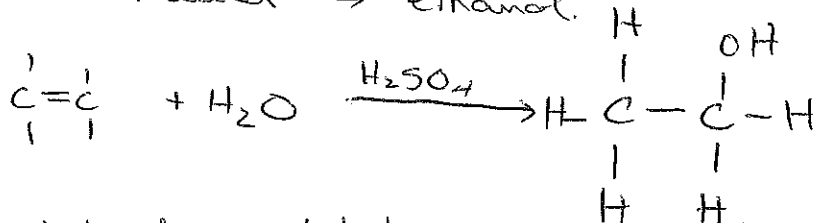
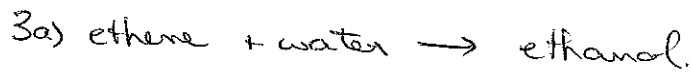
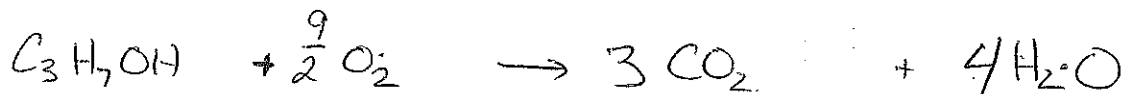
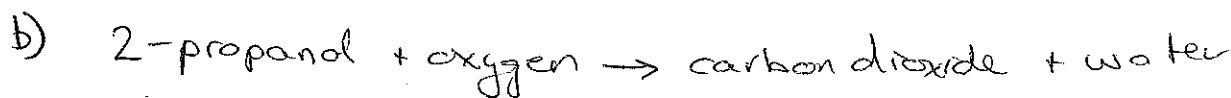
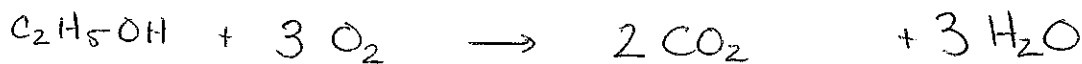
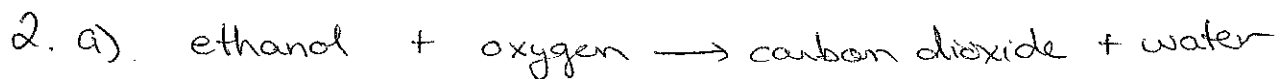
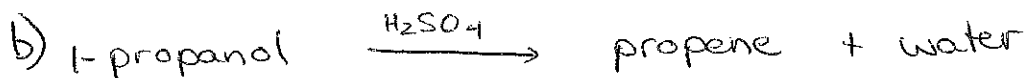
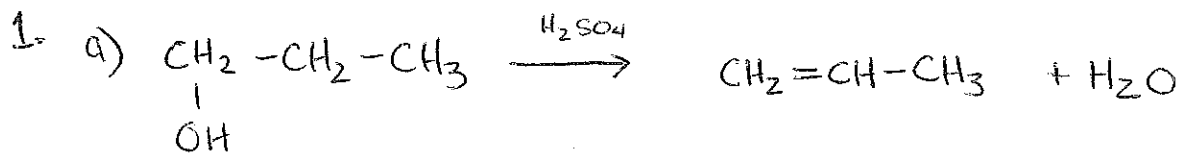
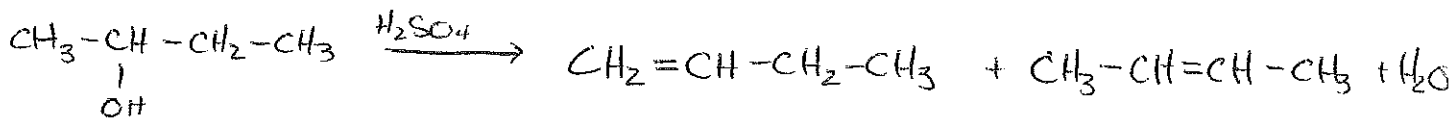
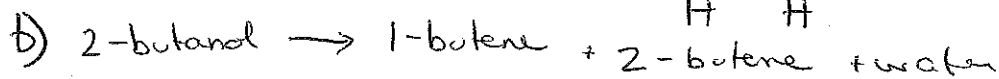


Organic Rxn



addition



minor

elimination

c) ethoxyethane + oxygen \rightarrow carbon dioxide + water



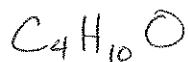
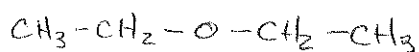
d) ethene + hypochlorous acid (HOCl) \rightarrow 2-chloroethanol



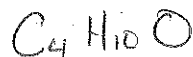
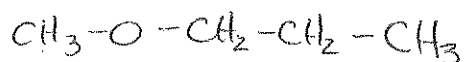
e) methanol + oxygen \rightarrow carbon dioxide + water



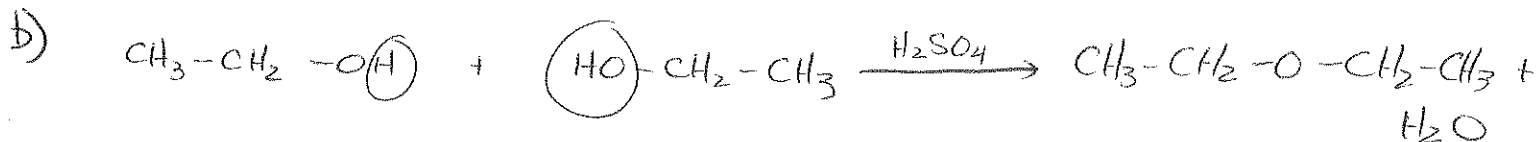
4. a) ethoxyethane.

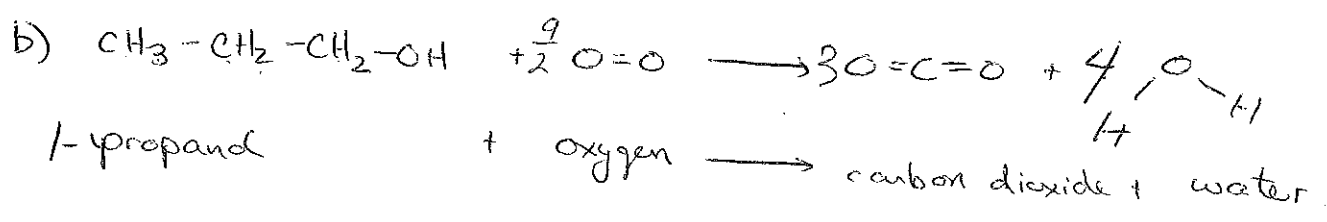
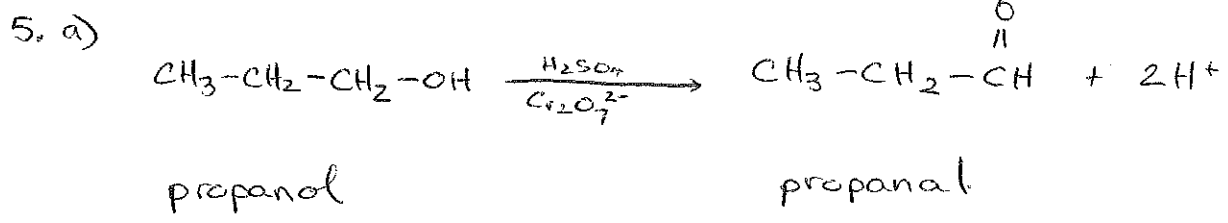


methoxypropane

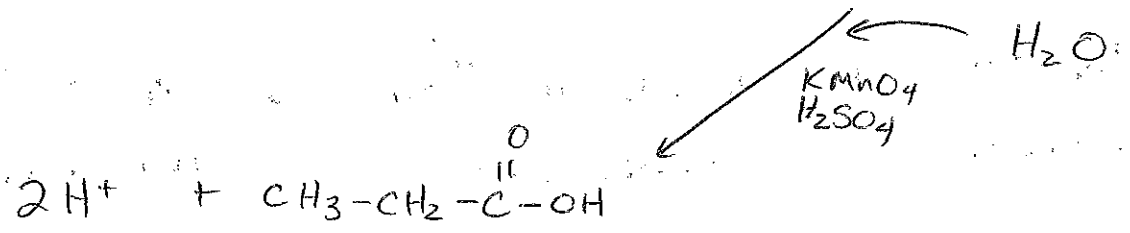
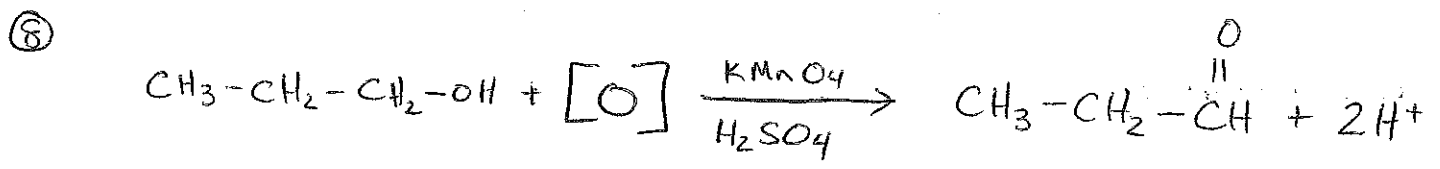
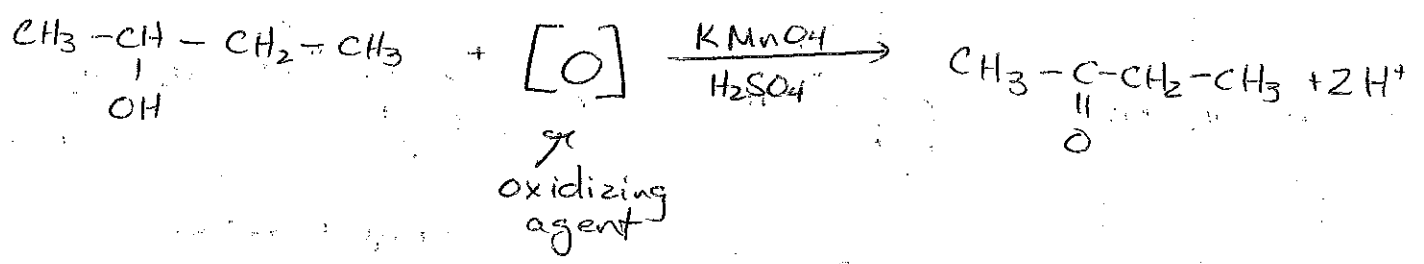
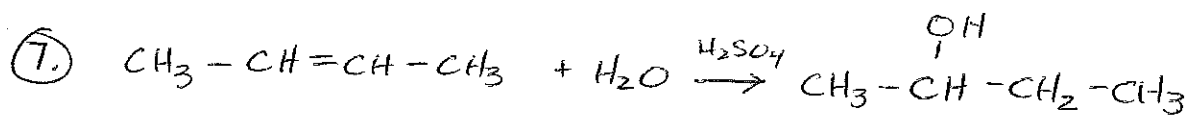


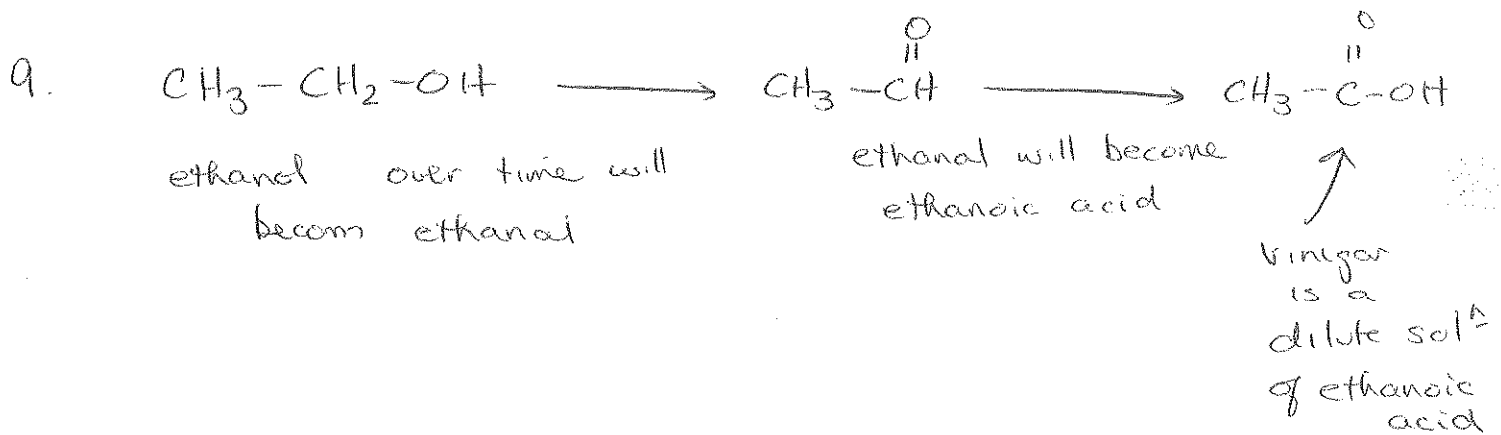
* same molecular formula, different structural formula
 \therefore isomers



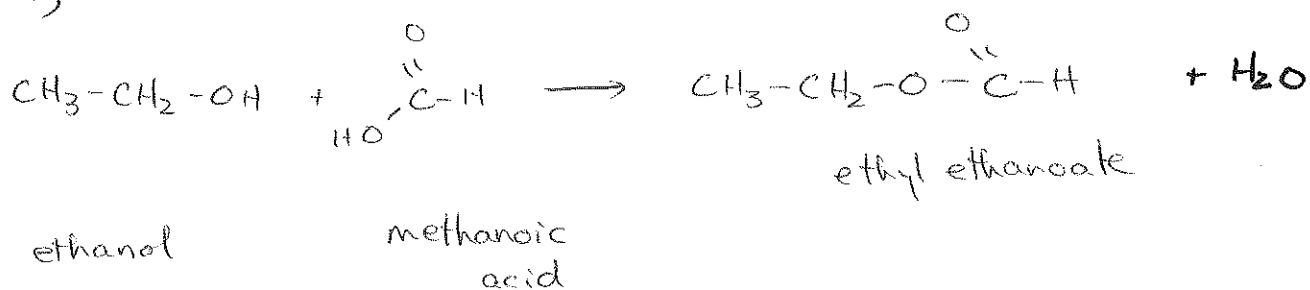


6. could take 3 alcohols and put them through an oxidation
 $\xrightarrow[\text{Cr}_2\text{O}_7^{2-}]{\text{H}_2\text{SO}_4}$
 - test for presence of aldehyde & ketone.

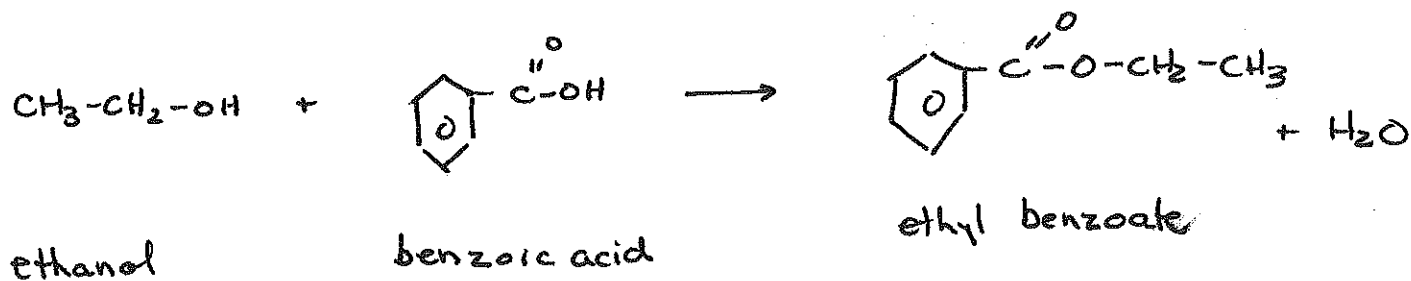




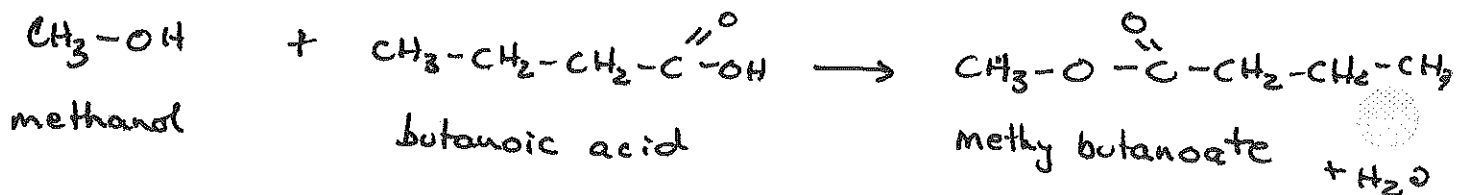
10. a)



b) ethyl benzoate



c) methyl butanoate

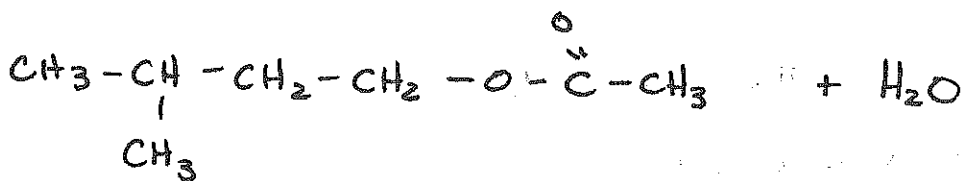
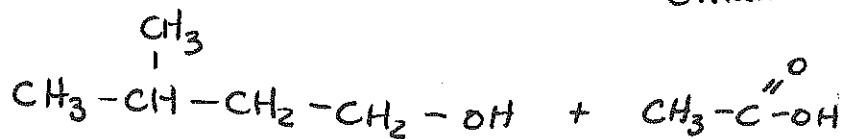


3-methyl butanol

ethanoic acid

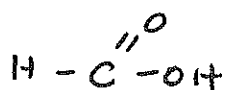
(c)

10 d)

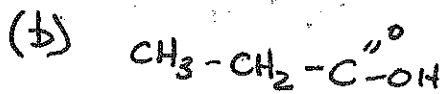


3-methyl butyl ethanoate

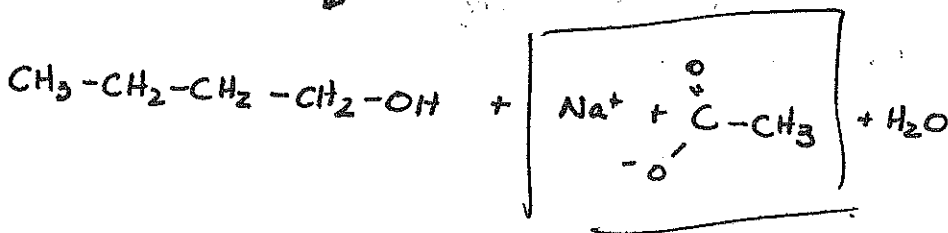
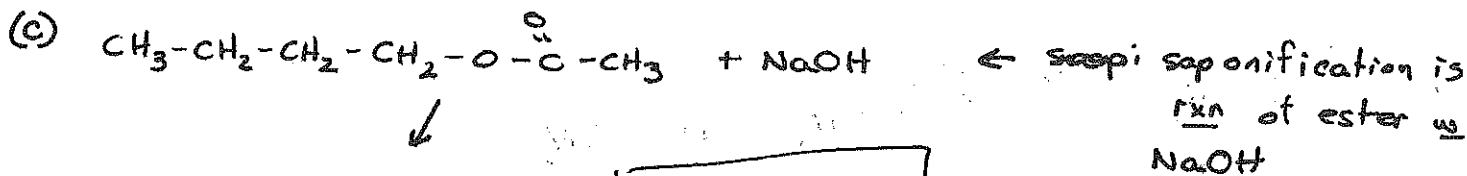
11. (a)



methanoic acid



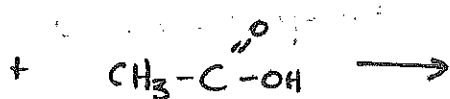
propanoic acid



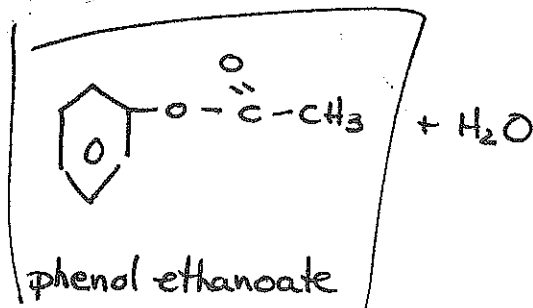
(e)



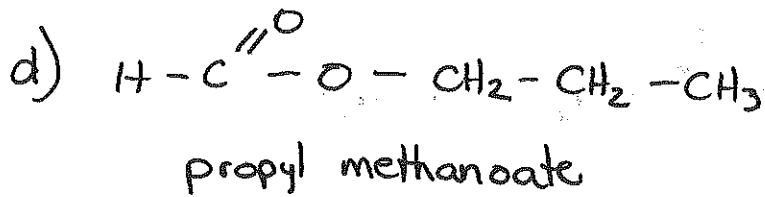
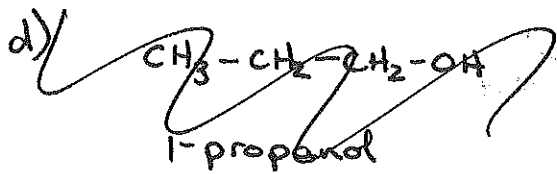
phenol



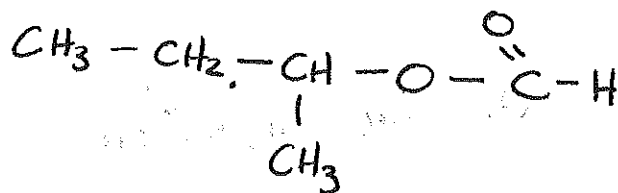
ethanoic acid (vinegar)



phenol ethanoate

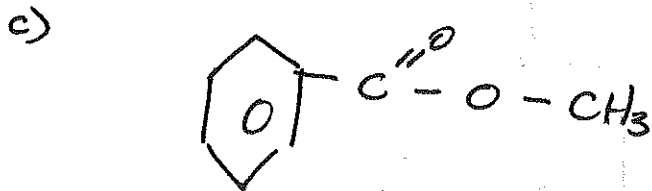
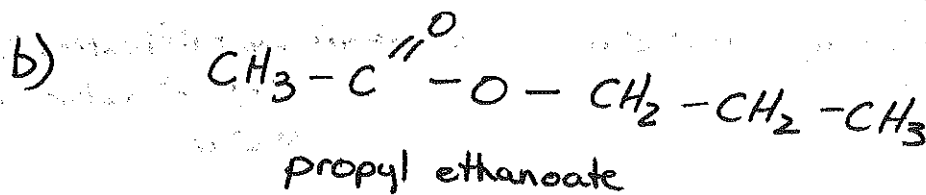


12. a)



~~2-butyl~~

2-butyl methanoate



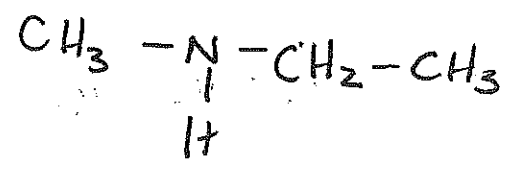
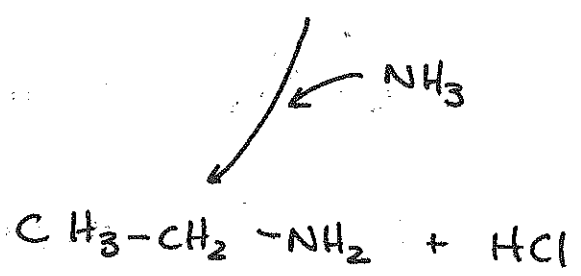
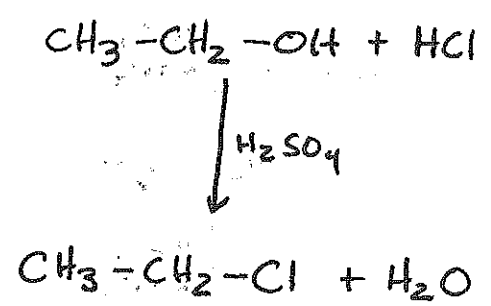
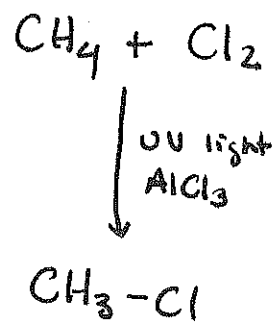
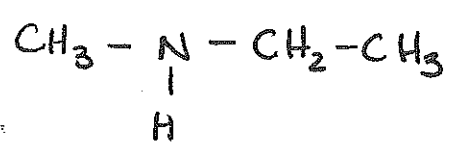
methyl benzoate

13. produce H₂O as a by product.

14. N-methyl ethanamide

methane

ethanol



15.

