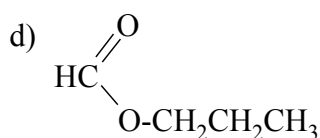
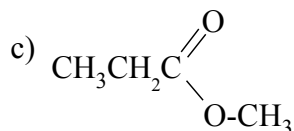


## Chemguide – questions

### CARBOXYLIC ACIDS: ESTERIFICATION

1. Name the following esters:



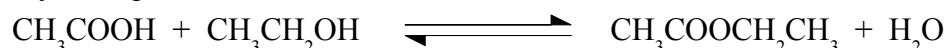
2. Draw the structures for the following esters, using a format like that in Q1 parts (c) and (d).

a) methyl ethanoate

b) propyl butanoate

c) ethyl 2-methylpropanoate

3. The reaction between ethanoic acid and ethanol in the presence of concentrated sulphuric acid is given by the equation:



a) Given that the reaction is reversible, how would you get the greatest possible conversion of acid and alcohol into the ester for a given reaction mixture? Explain why your method works.

b) Bigger esters are produced more slowly. How would you change the method if you were trying to make one of these?