

18 Esters – Part 2 —Answers

Answers

Work through these after trying the questions yourself.

18.1 The ester group, —COO— .

18.2 A carboxylic acid and an alcohol, with a concentrated sulfuric acid catalyst.

18.3 Water.

18.4 (a) the carboxylic acid and the alcohol \ (b) the carboxylate salt and the alcohol.

18.5 Esters have characteristic sweet/fruity smells (they are responsible for many fruit and perfume scents).

18.6 Remove the water (or the ester) as it forms, or use an excess of the alcohol or acid. By Le Chatelier's principle this shifts the equilibrium towards the products, raising the yield of ester.