

21 Organic synthesis – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

21.1 A C=C double bond (it is an alkene).

21.2 Add a carbonate —it fizzes, giving off carbon dioxide.

21.3 A ketone (it has a carbonyl but is not an aldehyde).

21.4 Steam (H₂O), with an H₃PO₄ catalyst.

21.5 An alcohol.

21.6 It must contain a C=C double bond (an alkene group —it decolourises bromine water) and a –COOH group (a carboxylic acid —it fizzes with a carbonate). So it has both groups in the one molecule.