

Test yourself

Chapter 16

- 1 Which one of the following alcohols is a secondary alcohol?
- A 2-methylbutan-1-ol
 - B Ethanol
 - C Hexan-3-ol
 - D 2-methylpropan-2-ol
- 2 Complete combustion of an alcohol produces which of the following products?
- I carbon dioxide
 - II carbon monoxide
 - III hydrogen
 - IV water
- A I only
 - B I and II
 - C I and IV
 - D II and IV
- 3 Hydrogen chloride can react with ethanol to produce 1-chloroethane. What do we call the mechanism of this reaction?
- A Nucleophilic addition
 - B Free-radical substitution
 - C Electrophilic addition
 - D Nucleophilic substitution

- 4 Which one of the following could be used to prepare 1-iodoethane from ethanol?
- A CH_3I
 - B ICl
 - C PI_3
 - D I_2
- 5 Name the products formed when sodium metal reacts with ethanol.
- A Sodium ethoxide and hydrogen
 - B Sodium oxide and ethene
 - C Sodium hydroxide and ethene
 - D Sodium methoxide and water
- 6 Name the ester formed when methanol reacts with butanoic acid in the presence a few drops of concentrated sulfuric acid.
- A Butyl methanoate
 - B Methyl butanoate
 - C 2-methylpropyl butanoate
 - D 2-methylpropyl methanoate
- 7 When propan-1-ol vapour undergoes a reaction on heated porous pot it produces propene gas. What do we call this type of reaction?
- A Addition
 - B Combustion
 - C Dehydration
 - D Substitution

- 8** Butan-2-ol is heated under reflux for 15 minutes with excess acidified potassium dichromate(VI) solution. What is the organic product formed?
- A** Butan-1-ol
 - B** But-1-ene
 - C** Butanoic acid
 - D** Butanone
- 9** Butan-1-ol is heated under reflux for 15 minutes with excess acidified potassium dichromate(VI) solution. What is the organic product formed?
- A** Butan-1-ol
 - B** But-2-ene
 - C** Butanoic acid
 - D** Butanone
- 10** With which one of the following alcohols will the colour of acidified potassium dichromate(VI) remain orange when heated?
- A** 2-methylpropan-2-ol
 - B** Propan-2-ol
 - C** Propan-1-ol
 - D** 2-methylpentan-3-ol