

32 Esters from acyl chlorides – Part 1

—Answers

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Work through these after trying the questions yourself.

32.1 An alcohol and an acyl chloride.

32.2 Hydrogen chloride (HCl).

32.3 The acyl chloride.

32.4 An alcohol (reacting with the acyl chloride).

32.5 Ethyl ethanoate.

32.6 In the acyl chloride the chlorine is strongly electron-withdrawing, so the carbonyl carbon is very $\delta+$ and easily attacked by the alcohol, and chloride is a good leaving group. The reaction releases HCl (not water) and does not reverse, so it is fast and goes to completion.