Ethanol as a solvent

• dissolves many substances, including some that are insoluble in water

Biofuel (ethanol as a fuel)

- produced from plants (such as sugar cane, in some countries)
- + renewable
- + carbon-neutral
- decreases the amount of land available to grow food crops
- dependent on climate for sugar growth

Alcohols

• C_nH_{2n+1}OH

The microbial oxidation of ethanol to ethanoic acid

Ethanoic acid

occurs slowly
leads to beer and wine 'going off' once exposed to air for the works
anoic acid
CH₃CON (a) CH₃CON (b) CH₃CON (c) CH

Infrared spectroscopy

• used to identify the presence of certain bonds in organic molecules, thereby indicating whether they may be alkanes, alkenes, alcohols or carboxylic acids