

Chapter 19

1. a) Contains as many hydrogen atoms as possible for the given number of carbons. Only carbon-carbon single bonds.

b) (i) $C_{11}H_{24}$

(ii) liquid



2. a) a carbon-carbon double bond



(Home schooling parents: It doesn't matter what position you draw the bromine in on the right-hand carbon - N, S or E (with hydrogens in the other two positions). All that matters is that one bromine becomes attached to each of the carbons either side of the original double bond.)



(ii) In this (substitution) reaction, one of the hydrogens has been replaced by a bromine during the reaction. In the previous (addition) reaction, nothing was lost when the two molecules combined together.

3. a) Ethene is passed with steam at $300^\circ C$ and 60 - 70 atmospheres over a phosphoric acid catalyst.

b) e.g. two of: continuous flow process, therefore faster; rapid reaction; purer product.

c) uses renewal resources; gentle conditions.

4. Dissolve the sugar in water in a conical flask (or similar) and add yeast. You now need some means of keeping the air out while allowing carbon dioxide to escape. You could use a commercial home-winemaking airlock of some sort, but a plug of cotton wool works just as well. Leave the mixture in the warm for a few days until bubbling stops.



Allow the yeast to settle, and pour off the solution so that it can be fractionally distilled, collecting the fraction which boils at $78^\circ C$. (See the diagram for the fractional distillation of an alcohol/water mixture in Chapter 11 of the book.)

continued . . .

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