# Organic chemistry

Chemistry Paper 2 | 30 quick questions

**GCSE science knowledge recall**

Answer online, marked instantly

**Name:** _____ **Date:** _____ **Score:** _____ **/ 30**

**1** Crude oil formed over millions of years from the remains of which tiny sea organisms? Answer in one word.

**2** What is the name for a compound made of hydrogen and carbon atoms only?

**3** What is the general formula of the alkanes? Use n for the number of carbon atoms.

**4** Name the alkane with one carbon atom.

**5** Name the alkane with three carbon atoms.

**6** What is the molecular formula of butane?

**7** Alkanes contain only single carbon-carbon bonds. What word describes this? Answer in one word.

**8** What process separates crude oil into fractions?

**9** Are the fractions with the smallest molecules collected at the top or the bottom of the column?

**10** Name the fraction used as fuel in most cars.

**11** Name the fraction used as fuel for jet aircraft.

**12** As hydrocarbon chains get longer, does the boiling point get higher or lower?

**13** Are long-chain hydrocarbons more or less viscous than short-chain ones?

**14** Are short-chain hydrocarbons more or less flammable than long-chain ones?


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15 Name the two products of the complete combustion of a hydrocarbon.

16 During combustion, the carbon and hydrogen atoms gain oxygen. What happens to them? Answer in one word.

17 What is the name for breaking long-chain hydrocarbons into shorter, more useful molecules?

18 Cracking can be done with a hot catalyst. What is the other method called?

19 Cracking makes alkanes and which other family of hydrocarbons?

20 What colour is bromine water before it is added to a hydrocarbon?

21 Bromine water is shaken with an alkene. What colour does it become?

22 Explain why oil companies crack long-chain hydrocarbons.

23 What is the general formula of the alkenes? Use n for the number of carbon atoms.

Separate science only

24 An alkene reacts with steam and a catalyst. What type of compound is made?

Separate science only

25 Ethanol can be made by fermenting sugar solution. Which microorganism is added?

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26 What is the functional group of the carboxylic acids? Give the formula.

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27 An alcohol reacts with a carboxylic acid with an acid catalyst. What type of compound is made?

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28 Poly(ethene) is made when many ethene molecules join together. What type of polymerisation is this?

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29 In condensation polymerisation, which small molecule is often given off each time two monomers join?

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**30** Which natural polymer is made of two strands twisted into a double helix and carries genetic instructions?

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