

Organic problem solving: Deducing structures of organic molecules

Organic problem solving is one of the best bits of A-level Chemistry but it can be a challenge. It does require you to bring lots of knowledge and understanding from across the syllabus and also involves a fair bit of trial and error. This set of notes and questions attempts to cover some of the important aspects. Often you have several pieces of information that you need to fit together. We shall first look at some of the different pieces of information that you might need to use.

Looking at the molecular formula

The molecular formula is often the starting point to a question and you should use it to start your questioning about the identity of a compound.

Look at:

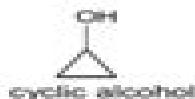
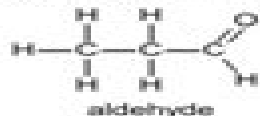
- How many atoms of oxygen, nitrogen or chlorine there are? This will point you towards possible functional groups.
- What is the number of hydrogen atoms relative to carbon atoms? This will point you towards whether the compound is saturated, unsaturated, cyclic or aromatic.

e.g. C_3H_8O ($C_nH_{2n+2}O$) is saturated and cannot contain any double bonds or be cyclic. It is most likely to be an alcohol (possibly the functional group isomer ether)



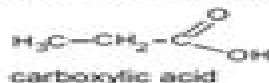
e.g. C_3H_4O ($C_nH_{2n}O$) - is unsaturated and either contains a double bond ($C=O$ or $C=C$) or it could be cyclic.

The functional group isomers could be an aldehyde, a ketone, a cyclic alcohol, or a combination of a $C=C$ bond with an $O-H$ bond.



e.g. $C_3H_4O_2$ ($C_nH_{2n}O_2$) - is unsaturated and either contains a double bond ($C=O$ or $C=C$) or it could be cyclic.

The two oxygen atoms suggest a carboxylic acid or an ester but it could be various other things.



e.g. compare C_3H_7N and C_3H_5N - C_3H_7N is saturated and suggests an amine functional group.

C_3H_5N is unsaturated and suggests the nitrile functional group



e.g. C_7H_7Cl - if the formula has $\geq$ six carbons and a low carbon to hydrogen ratio then it is likely to contain a benzene ring.



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