

IGCSE Chemistry

Name: _____ Score: _____

1. Organic chemistry is the study of compounds containing:
 - ☐ carbon
 - ☐ only oxygen
 - ☐ noble gases
 - ☐ only metals
2. How many carbon atoms does the prefix "prop-" indicate?
 - ☐ two
 - ☐ one
 - ☐ three
 - ☐ four
3. A hydrocarbon is a compound of:
 - ☐ hydrogen and carbon only
 - ☐ carbon and nitrogen
 - ☐ metals
 - ☐ hydrogen and oxygen
4. Alkanes are described as saturated because they have:
 - ☐ no carbon
 - ☐ only single carbon-carbon bonds
 - ☐ a double bond
 - ☐ a triple bond
5. Alkenes contain a:
 - ☐ metal ion
 - ☐ carbon-carbon double bond
 - ☐ nitrogen atom
 - ☐ only single bonds
6. Which are uses of ethanol? (Select all that apply.)
 - ☐ alcoholic drinks
 - ☐ solvent

☐ a metal ore

☐ fuel

Tick every correct option.

7. The carboxylic acid functional group is written –_____.

8. Most addition polymers are non-biodegradable.

☐ True ☐ False

9. Boiling points fall as the chain length increases in a homologous series.

☐ True ☐ False

10. How many carbon atoms are in butane?

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1. **carbon**

Organic compounds are carbon-based.

2. **three**

meth-(1), eth-(2), prop-(3), but-(4).

3. **hydrogen and carbon only**

Hydrocarbons contain only hydrogen and carbon.

4. **only single carbon-carbon bonds**

Saturated = all single bonds.

5. **carbon-carbon double bond**

The C=C double bond defines alkenes.

6. **alcoholic drinks; solvent; fuel**

Ethanol is a fuel, solvent and the alcohol in drinks.

7. **COOH**

It is the carboxyl group.

8. **True**

They do not rot, so they build up as waste.

9. **False**

False. Boiling points rise gradually with chain length, because longer molecules have stronger forces between them.

10. **4**

but- means 4 carbons.