

IGCSE Chemistry

Name: _____ Score: _____

1. Organic chemistry is the study of compounds containing:
 - ☐ carbon
 - ☐ only metals
 - ☐ only oxygen
 - ☐ noble gases
2. How many carbon atoms does the prefix "prop-" indicate?
 - ☐ three
 - ☐ one
 - ☐ two
 - ☐ four
3. A hydrocarbon is a compound of:
 - ☐ hydrogen and carbon only
 - ☐ hydrogen and oxygen
 - ☐ carbon and nitrogen
 - ☐ metals
4. Alkanes are described as saturated because they have:
 - ☐ only single carbon-carbon bonds
 - ☐ a double bond
 - ☐ a triple bond
 - ☐ no carbon
5. Alkenes contain a:
 - ☐ carbon-carbon double bond
 - ☐ only single bonds
 - ☐ nitrogen atom
 - ☐ metal ion
6. Boiling points rise gradually as the chain length increases in a series.
 - ☐ True ☐ False

7. How many carbon atoms are in butane?

8. Incomplete combustion can produce toxic carbon monoxide.

☐ True ☐ False

9. Alkanes burn well, which is why they are used as fuels.

☐ True ☐ False

10. Alkenes are unsaturated because of their double bond.

☐ True ☐ False

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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. **True**

Longer chains have higher boiling points.

7. **4**

but- means 4 carbons.

8. **True**

Too little oxygen makes CO and soot.

9. **True**

Combustion releases lots of energy.

10. **True**

The double bond can open to add atoms.