

IGCSE Chemistry (9-1) Specification 4(a)

(a) Introduction

Students should:

- 4.1 know that a hydrocarbon is a compound of hydrogen and carbon only
- 4.2 understand how to represent organic molecules using empirical formulae, molecular formulae, general formulae, structural formulae and displayed formulae
- 4.3 know what is meant by the terms homologous series, functional group and isomerism
- 4.4 understand how to name compounds relevant to this specification using the rules of International Union of Pure and Applied Chemistry (IUPAC) nomenclature
students will be expected to name compounds containing up to six carbon atoms
- 4.5 understand how to write the possible structural and displayed formulae of an organic molecule given its molecular formula
- 4.6 understand how to classify reactions of organic compounds as substitution, addition and combustion
knowledge of reaction mechanisms is not required

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