



# Organic Chemistry Fundamentals (Speedy Study Guide)

**Speedy Study Guides** **ORGANIC CHEMISTRY FUNDAMENTALS**

Organic chemistry is a chemistry subdiscipline involving the scientific study of the structure, properties, and reactions of organic compounds and organic materials, i.e., matter in its various forms that contain carbon atoms. Study of structure includes using spectroscopy (e.g., NMR), mass spectrometry, and other physical and chemical methods to determine the chemical composition and constitution of organic compounds and materials. Study of properties includes both physical properties and chemical properties, and uses similar methods as well as methods to evaluate chemical reactivity, with the aim to understand the behavior of the organic matter in its pure form (when possible), but also in solutions, mixtures, and fabricated forms. The study of organic reactions includes probing their scope through use in preparation of target compounds (e.g., natural products, drugs, polymers, etc.) by chemical synthesis, as well as the focused study of the reactivities of individual organic molecules, both in the laboratory and via theoretical (in silico) study.

**Classes of Organic Compounds**

Class	FG, Abbreviation	Descriptions	Examples
<b>1. Hydrocarbons</b>			
1.1. Alkanes	R-H	Contain only carbon and hydrogen, only single bonds	methane (CH <sub>4</sub> ), ethane (CH <sub>3</sub> -CH <sub>3</sub> ), propane (CH <sub>3</sub> -CH <sub>2</sub> -CH <sub>3</sub> ), butane, pentane, hexane, cyclopentane, cyclohexane
Alkyl group	R-	Alkyl group, R group, R = abbreviation for any alkyl group	methyl (-CH <sub>3</sub> ), ethyl (-CH <sub>2</sub> CH <sub>3</sub> )
1.2. Alkenes		Contain C=C double bond	ethene (ethylene, CH <sub>2</sub> =CH <sub>2</sub> ), propene (propylene, CH <sub>3</sub> CH=CH <sub>2</sub> )
		cis / trans isomers possible	2-butene
1.3. Alkynes		Contain C≡C triple bond	ethyne (H-C≡C-H), acetylene, propyne (H-C≡C-CH <sub>3</sub> )
1.4. Aromatic Hydrocarbons (HArCs)	Ar	3 C=C in a 6-membered ring, separated by C-C bonds	benzene 
	Ar-	Aryl group	phenyl group 
<b>2. Organic Compounds Containing Oxygen</b>			
2.1. Alcohols	R-OH	Contain hydroxyl group (OH)	methanol (CH <sub>3</sub> OH), ethanol (CH <sub>3</sub> -CH <sub>2</sub> -OH)

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(Woodrow Labadie)

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