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Organic Chemistry Fundamentals (Quick Study Academic)

Quick Study ACADEMIC

ORGANIC CHEMISTRY FUNDAMENTALS

Types of Organic Compounds

Organic chemistry is the study of natural and synthetic materials that have carbon atoms as the key chemical feature. There are more than one million known organic compounds.

Types of Organic Compounds	Examples
HYDROCARBON	Alkane: C_nH_{2n+2} Alkene: C_nH_{2n} Alkyne: C_nH_{2n-2}
ALCOHOL	Methanol: CH_3OH Ethanol: C_2H_5OH Propanol: C_3H_7OH
ETHER	Dimethyl ether: $(CH_3)_2O$ Diethyl ether: $(C_2H_5)_2O$
SPERO	Cyclohexane: C_6H_{12} Cyclopentane: C_5H_{10}
PEROXIDE	Hydrogen peroxide: H_2O_2 Acetic peroxide: $CH_3COOOCH_3$
ALDEHYDE	Formaldehyde: $HCHO$ Acetaldehyde: CH_3CHO
KETONE	Acetone: CH_3COCH_3 Butanone: $CH_3CH_2COCH_3$
CARBOXYLIC ACID	Formic acid: $HCOOH$ Acetic acid: CH_3COOH
ESTER	Ethyl acetate: $CH_3COOC_2H_5$ Methyl benzoate: $C_6H_5COOCH_3$
NITROGEN ADDED	Amine: $R-NH_2$ Nitrile: $R-CN$
SULFUR ADDED	Thiol: $R-SH$ Sulfide: $R-S-R$
HALOGEN ADDED	Haloalkane: $R-X$ Haloalkene: $R-CH=CH-X$

Formulas & Isomers

Molecular Formula: Chemical symbols with subscripts denote the composition of a compound.

Empirical Formula: Subscripts denote the relative chemical composition.

Structural Formulas: Diagrams all atoms, show bonds to other atoms.

Condensed Structural Formula: Hubs H, carbon atoms are depicted as lines, but other atoms are shown explicitly.

Isomers: Molecules with the same molecular formula but different structures.

Constitutional Isomers: Same molecular formula, but different connectivity of atoms.

Enantiomers: Mirror images of each other, not superimposable.

Diastereomers: Not mirror images, not superimposable.

Common Terms

Aliphatic: Non-aromatic.	Alkyne: Hydrocarbon with triple bonds.	Alkene: Hydrocarbon with double bonds.	Alcohol: Organic compound with hydroxyl group.
Aldehyde: Organic compound with carbonyl group at the end of the chain.	Alkyne: Hydrocarbon with triple bonds.	Alkene: Hydrocarbon with double bonds.	Alcohol: Organic compound with hydroxyl group.
Alkyne: Hydrocarbon with triple bonds.	Alkyne: Hydrocarbon with triple bonds.	Alkyne: Hydrocarbon with triple bonds.	Alkyne: Hydrocarbon with triple bonds.



Synopsis

Quick Reference for the core essentials of a subject and class that is challenging at best and that many students struggle with. In 6 laminated pages our experienced chemistry author and professor gathered key elements organized and designed to use along with your text and lectures, as a review before testing, or as a memory companion that keeps key answers always at your fingertips. As many students have said "a must have" • study tool. Suggested uses:

- o Quick Reference " instead of digging into the textbook to find a core answer you need while studying, use the guide to reinforce quickly and repeatedly
- o Memory " refreshing your memory repeatedly is a foundation of studying, have the core answers handy so you can focus on understanding the concepts
- o Test Prep " no student should be cramming, but if you are, there is no better tool for that final review

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Customer Reviews

My wife loves this thing for studying in her chemistry class. She has several of the other BarCharts and likes them all. Sure, you're paying a few bucks for a laminated piece of cardstock with some stuff printed on it, but it is very intelligently laid out.

I used this with the "Organic Chemistry Reactions" Quickstudy to study for the PCAT. It has been over 7 years since I took organic chemistry, and these were my primary resource to brush up on the subject. I love how portable it is and that all the information you need is in one place.

This is good for Orgo 1 topics. It has very few of what is newly encountered in Orgo 2. However, we all know that we need Orgo 1s knowledge so even if you're in Orgo 2, this little quick reference guide is helpful.

This resource sheet is so helpful when studying for organic chemistry. I purchased it before I began the class and it helped to show what I would be doing and using it as a reference when studying further material saves me time from having to look back in the text book. I will definitely hold on to it when starting Organic 2.

This is a great reference tool for my Chemistry class. Having the necessary formulas and notes in one place is very helpful. I will have a good 2 years of Chemistry and Organic Chemistry to get through to complete my degree. Tools like these are a Godsend.

I purchased this product at my school's bookstore and later returned it because it only contained basic information on the first page. The remaining three were dedicated to reactions, which are also on a separate Quick Study folder. So, if you are looking for basic essentials such as definitions and examples, this is not for you.

Organic chemistry is not easy. It never will be. However this really useful study guide will definitely make your time studying for your exams much more bearable and less frustrating. I used it daily as a reference when I was taking Ochem at my uni.

When it arrived, and I saw it was simply a laminated trifold, I felt ripped off. \$7 for a trifold laminate? The text is almost too small (but if you have 10/10 vision like most college students, it might be readable without glasses..). As far as the content goes, it's decent, but far from profound. Maybe I expect too much these days....

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