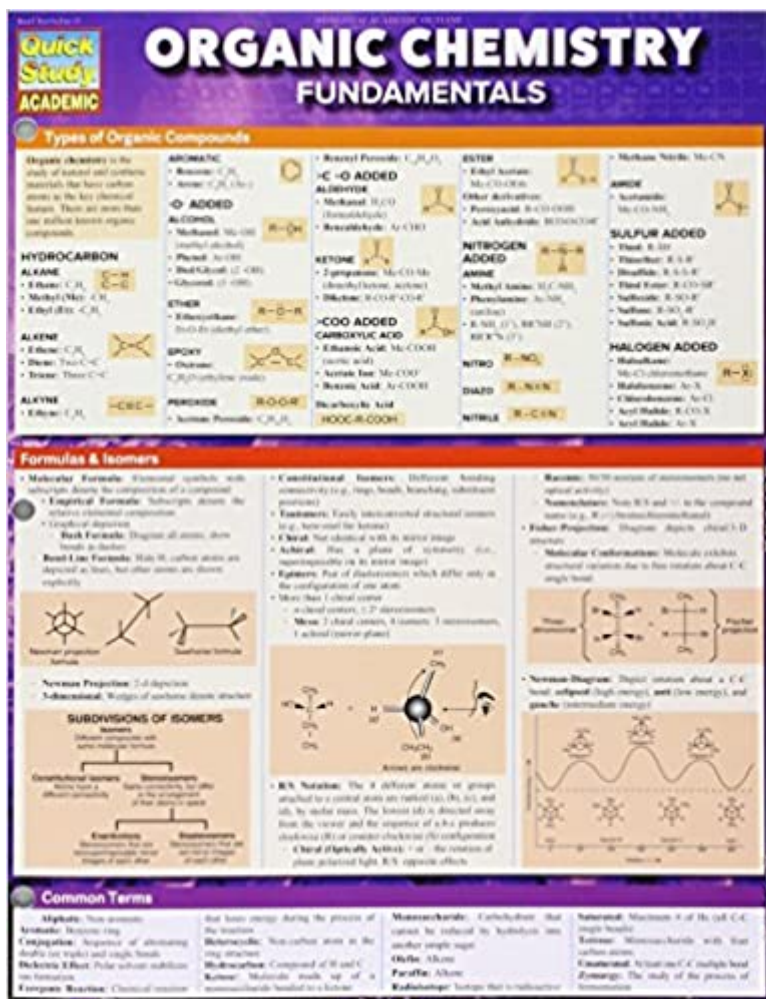


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Organic Chemistry Fundamentals (Quick Study Academic)



ORGANIC CHEMISTRY FUNDAMENTALS

Types of Organic Compounds

Organic chemistry is the study of carbon and carbon compounds that have carbon atoms in the key chemical formula. There are many types of organic chemical compounds.

Alcohols $R-OH$

Aldehydes $R-C(=O)H$

Ketones $R-C(=O)R'$

Carboxylic Acids $R-COOH$

Esters $R-COOR'$

Alkenes $R_2C=CR_2$

Alkynes $R-C\equiv C-R$

Alkanes C_nH_{2n+2}

Alkyl Halides $R-X$

Nitriles $R-CN$

Types of Organic Compounds (continued):

- Alcohols:** $R-OH$
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- Nitriles:** $R-CN$

Formulas & Isomers

Molecular Formula: Shows number of atoms of each element in a molecule.

Empirical Formula: Shows the simplest whole number ratio of atoms in a compound.

Structural Formula: Shows the arrangement of atoms in a molecule.

Structural Isomers: Molecules with the same molecular formula but different structural formulas.

Stereoisomers: Molecules with the same structural formula but different spatial arrangements of atoms.

Conformational Isomers: Stereoisomers that can be interconverted by rotation around single bonds.

Optical Isomers: Stereoisomers that are mirror images of each other and are not superimposable.

Common Terms

Aliphatic: Non-aromatic.

Aromatic: Benzene ring.

Conjugation: Arrangement of alternating double and single bonds.

Delocalized Electrons: Electrons which are not attached to any one atom.

Empirical Formula: Simplest whole number ratio of atoms in a compound.

Molecular Formula: Shows the actual number of atoms in a molecule.

Structural Formula: Shows the arrangement of atoms in a molecule.

Stereoisomers: Molecules with the same structural formula but different spatial arrangements of atoms.

Conformational Isomers: Stereoisomers that can be interconverted by rotation around single bonds.

Optical Isomers: Stereoisomers that are mirror images of each other and are not superimposable.



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.

Organic Chemistry Fundamentals is essential to any chemistry major. It has all the need-to-know terms and concepts on it including the numerous types of reactions! Fits right into my three-ring binder and definitely made my second semester much easier! I highly recommend this product to anyone interested in studying organic chemistry!

These "cheat sheets" always save the day in college. The whole entire course of Organic chemistry is on here. I got in in my binder with the pre-punched binder holes. The product is also laminated incase of any spills while studying late at night.

love it very helpful for studying and memorization of college level chemistry and organic

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.

helpful

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