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# Advanced Molecular Model Set For General And Organic Chemistry



## Synopsis

Never been used. Contains all molecular pieces. Great to visualize organic molecules.

## Book Information

Hardcover

Language: English

ISBN-10: 0982086903

ISBN-13: 978-0982086902

ASIN: B001E4EKXY

Product Dimensions: 8.1 x 4.4 x 1.4 inches

Shipping Weight: 8.8 ounces

Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (64 customer reviews)

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## Customer Reviews

Don't waste your money on any other chemistry model kit...this one is the absolute best out there for its price. To compare with other kits, here's what this one contains: Hydrogen - 30 Carbon - 14 Oxygen - 8 Nitrogen (107 degrees) - 4 Nitrogen (109.5 degrees) - 1 Sulfur - 2 Phosphorus - 2 Fluorine - 6 Bromine - 6 Chlorine - 6 Iodine - 6 Alkali metal, beryllium, boron, silicon ( $\text{SiH}_4$ ), copper ( $\text{Cu}(\text{NH}_3)_4$ ), phosphorus ( $\text{PCl}_5$ ), sulfur ( $\text{SF}_6$ ) - 1 each Single bonds - 48 Double bonds - 12 Enjoy!

This is a great alternative to the expensive Prentice Hall set. It's not the standard because it works a little differently, but with a little practice and use, you can understand molecules, their angles and configurations with this set. It's smaller, compact, easier to put together/take apart, and comes with many extra pieces. I've had the opportunity to compare because I use the Prentice Hall set in a discussion section for my course, and that set uses a tool to remove the Hydrogens. No tools with this set! We also run out of the Halogens almost always, even after just making a few small molecules. This set has a TON of halogens! I like that I can create my molecules, throw it in my bookbag, and not worry about them falling apart or breaking because they are made of a flexible plastic rather than something hard that can break. This molecule set has helped me understand ALOT, especially R and S configurations. It also shipped VERY fast from MegaMolecules, thankfully right before an exam! Thanks for making a great product that I am using way more than I expected!

I just received this kit in the mail and was displeased. The reason I ordered it was to improve my spatial intuition for chemical reactions, polymerization, and ring formation. Several problems with this kit make that goal impossible to reach: 1) The "bond" pieces for this kit are flexible, so even though the atom pieces themselves restrict the geometry of the bonds to the appropriate structures, when you go to bend them into ring formations or polymers, the bond themselves allow you to bend the molecule however you like. Not helpful for understanding the ways in which bond angles contribute to bond structure and therefore reactions. 2) The "atom" pieces have a specific number of bonds they can accept, so the carbon pieces all have four attachment places, oxygens have two, etc. again, this restricts the geometric formation such that if you are trying to understand how a double or triple-bonded carbon affects the structure of a molecule, monomer, or polymer, this kit will not help you. 3) The atom pieces are small and fit in the bond pieces because of friction, so not only is it time-consuming to put together the molecules and take them apart again, but it is also difficult to manipulate them into different shapes. The bonds bend more easily than the atoms rotate around them, which is not how molecules "act." It took me twenty minutes to put together and then take apart a glucose molecule, and the bending bonds made it difficult to see how a chair structure would have resulted anyways. If you're trying to understand organic chemistry or molecular biology, this is not the kit for you. If you're putting together simple molecules with one central atom, it would probably suffice.

This molecular kit is cheap and amazing! no need to spend fifty dollars or more on over priced kits when you can get everything you want from this advanced molecular model set.

I bought two of these sets for our engineering department and within hours people were using them to visualize molecules. I am now ordering a third because they are so popular. I just wanted to update the content of the sets because there seems to be some change since the content listed in a review last year. Each set currently contains: Hydrogen: 30 Carbon: 14 Oxygen: 8 Nitrogen (107 degrees): 4 Nitrogen (109.5 degrees): 1 Sulfur: 2 Phosphorus: 2 Fluorine: 6 Bromine: 6 Chlorine: 6 Iodine: 6 Alkali metal (Li, Na or K): 1 Beryllium: 1 Boron: 1 Silicon (SiH<sub>4</sub>): 1 Platinum (PtCl<sub>4</sub>)<sub>2</sub>: 1 Phosphorus (PCl<sub>5</sub>): 1 Sulfur (SF<sub>6</sub>): 1 Single bonds: 48 Double bonds: 12

These molecular models are one of the best out there for its price. Excellent models to use for your organic chemistry class and simple to set up with a guide given to show you what colors are

represented for each element. I bought the advanced set because you get more molecules but a basic set should be sufficient as well.

This molecular model set is waaaaaaaay better than the overpriced Prentice Hall set. You won't bust your knuckles trying to get the balls off (that's what she said) and it comes in a sturdy compact case which makes it easy to carry around. What I like most about it is that the bond pieces are thick. If you're a visual learner (like I am), the thick bonds make molecules more appealing to the eyes than sets that use thin bond pieces. 3-D structures like the "chair" pop out, making it easy to understand and remember.

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