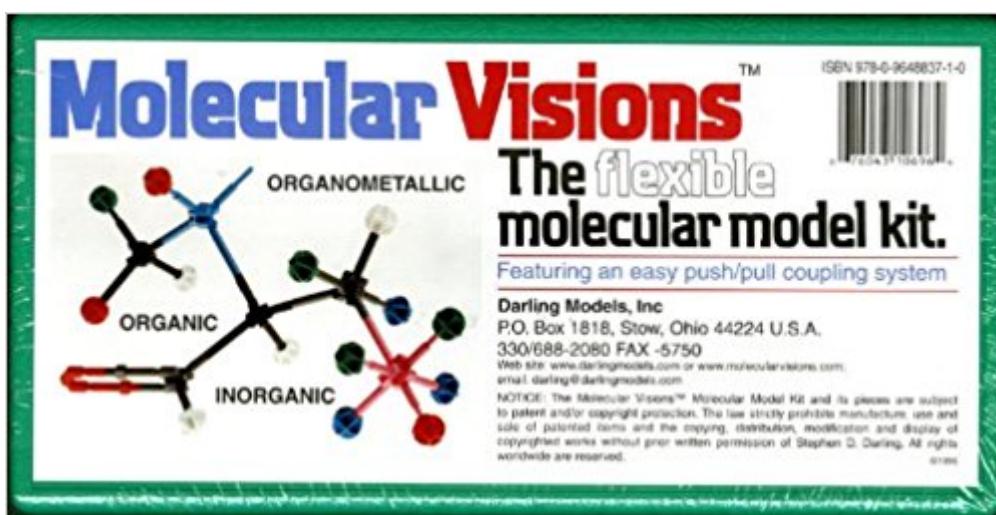


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# Molecular Visions (Organic, Inorganic, Organometallic) Molecular Model Kit #1 By Darling Models To Accompany Organic Chemistry



## Synopsis

Molecular models are as vital a tool for the study of chemistry as calculators are for the study of mathematics. Molecular Visions models may be assembled in infinite combinations enabling the user to construct not only familiar configurations but also undiscovered possibilities. Models are intended to inspire the imagination, stimulate thought, and assist the visualization process. They present the user with a solid form of an abstract object that can otherwise only be visualized by the chemist. While chemistry textbooks use letters and graphics to describe molecules, molecular models make them "real". MOLECULAR VISIONS Organic Kit #1 is in a green plastic box, 9"x4"x2"

## Book Information

Misc. Supplies

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Product Dimensions: 4.8 x 2 x 9.5 inches

Shipping Weight: 15.2 ounces

Average Customer Review: 4.2 out of 5 stars 85 customer reviews

Best Sellers Rank: #16,604 in Books (See Top 100 in Books) #6 in Books > Science & Math > Chemistry > Inorganic #49 in Books > Science & Math > Chemistry > Organic #103 in Books > Science & Math > Chemistry > General & Reference

## Customer Reviews

The model kit works and it really helps to show the bond angles correctly; however, it's a bit hard to use as it takes at least two pieces to make one tetrahedral carbon. If need to make a double bond you need to use a separate piece as well. I also had a hard time creating a triple bond. Pieces also were a bit loose and did not hold their shape when making isomers or chair conformations. I also had a problem with just closing the box from the sheer amount of pieces. I personally am a bit biased toward the ball and stick methods, but these do just fine if your in a pinch, but I recommend you use whatever you feel comfortable with.

This shipped quickly and comes with an instruction booklet. However, it is not the typical ball-and-stick molecular model kit. It is a very confusing kit and is very large (when making a simple cyclohexane, a hexagonal molecule with nothing attached to it, it is over half a foot across). Other

than the large side and non simplistic nature, this will work fine for class.

Most of my Orgo 1 classmates purchased a different brand of modeling kit that contains "balls & sticks"; that version seems more intuitive to use than this one, which looks like an Erector set. I may breakdown and spend the extra money to get one of those kits. It's difficult to fit all the pieces in the case and get it to close, so after a couple days of tediously arranging and tucking and closing quickly before everything shifted, I gave up and dumped the pieces into a big ziploc bag. That's much more convenient. My final disappointment was the shrink-wrapped kit arrived missing 22 pieces, including all the "marker balls" which represent atoms. Inside there was a note that opened kits are unreturnable. I contacted the manufacturer (rather than returning the kit to ) and they provided the missing pieces within a week; they also sent a note that "[they] do not market their products on , therefore, the kit must be secondhand." Other than missing pieces, I have no reason to believe my kit was not brand new, and I know from the one other return I've ever done with that they have excellent and responsive customer service. If Darling Models had been unwilling to supply the missing pieces, I probably could have returned the kit. It is probably just a fluke that I was missing so many pieces, and since it was resolved favorably, I am good to go now. It just took a little longer.

I bought this for an organic chemistry course. From looking at other students' models, this is the best set. They all had the same lame set from the bookstore. The users manual that comes with this is full color and about 50 pages (50 small pages that is, one page measures about 4 x 8) and is a mini chemistry course in itself. It was very helpful in showing you how to model all the different molecules you will encounter in a junior level org chem course. The set is small, yet it is engineered in such a way that you have more options than the other sets I encountered. The set comes in a hard plastic case in which all the pieces snap into place (the bookstore version sold it to you in a plastic bag!) thus saving you time when you are ready to assemble. When modeling some molecules, there is a lot of strain put on some of the pieces, and the pieces tend to become deformed. However, this set is made of a polymer that when you put the deformed pieces in boiling water, it returns to its original shape. Overall, I was very impressed with this set and highly recommend it.

This kit was a great help while taking organic chemistry. I'm a pretty visual/tactile learner, so these really helped. I wish I still had it, but I got rid of it after I finished orgo. Would have been helpful in my PhD level biochem courses as well, and I honestly thought about purchasing another one.

It set was recommended by my orgo teacher because the bonds are longer than some other company's and thus allows the "right" flexibility and twist a molecule is expected to give. It's not perfect (no variation in bond length, or molecule size, or enough (variation as well as number of molecules for certain large compounds), none of the molecular model sets are. But for what I needed this was good.

First of all I recommend you to buy this ONLY if you are not good at visualizing molecules in 3 dimensions. This is a beautifully made device that I loved, though I found no use for academic purposes because I am a strong visualizer. The pieces are very limited but this is a basic kit to help you see basic compounds and their configurations. You have to be careful when making rings because the bonds that it offers can only make anything greater than or equal to a cyclopentane molecule...though the bonds are still stressed as pentane. The kit is small for you to carry in one hand.

I didn't really like this model kit. It was difficult to fit all the pieces back in the box unless they were packed perfectly. The models also were not very stable and fell apart easily, very frustrating. I did not end up using them hardly at all.

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