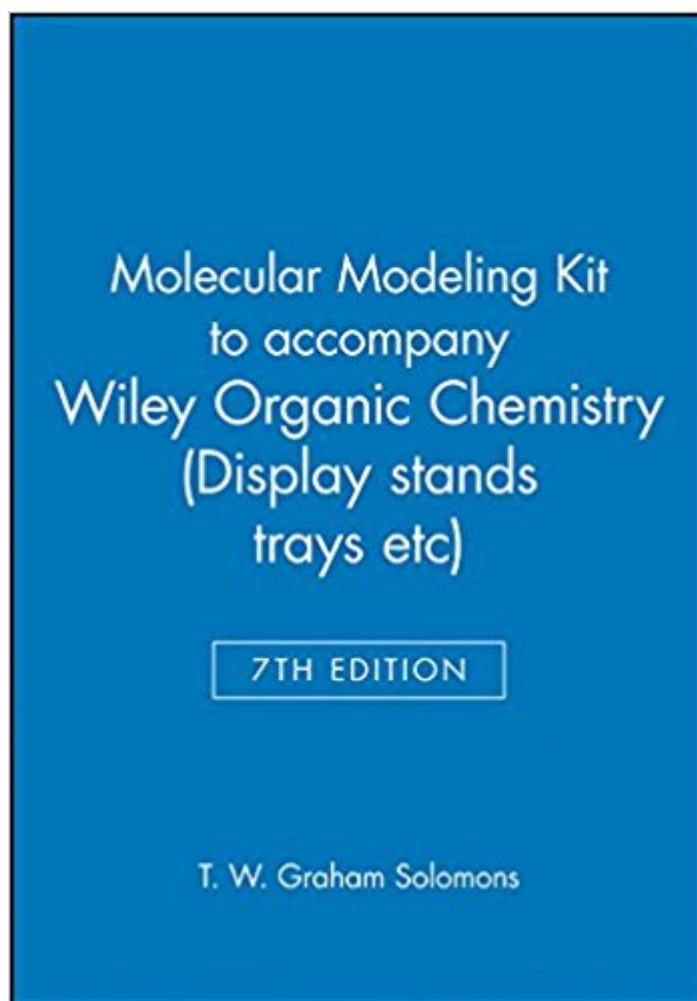


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# Molecular Visions Organic Model Kit With Molecular Modeling Handbook



## Synopsis

Manufactured by Darling Model Kits, this custom kit was designed by T.W.Graham Solomons. The kit consists of Darling's basic Molecular Vision kit with a few additional pieces, so that p orbitals could be shown in molecules like acetylene. This customized kit also has pieces that allow linear geometry for the sigma bonds of alkynes while also having orthogonal connections at each atom for the associated p orbitals. By attaching balls of the right colors it is possible to show the lobes of the p orbitals that make up the pi bonds in an alkyne. Ball colors can be matched symmetrically to show in-phase orbital overlap, or antisymmetrically to show an antibonding state. Use of colored balls with the appropriate framework geometry is a very nice feature of the Darling model set. Pieces from Darling's inorganic model set and are used for octahedral geometry.

## Book Information

Misc. Supplies: 47 pages

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Product Dimensions: 7 x 2.5 x 11 inches

Shipping Weight: 11.2 ounces (View shipping rates and policies)

Average Customer Review: 4.0 out of 5 stars 70 customer reviews

Best Sellers Rank: #37,145 in Books (See Top 100 in Books) #88 in [Books > Science & Math > Chemistry > Organic](#) #222 in [Books > Science & Math > Chemistry > General & Reference](#) #262 in [Books > Textbooks > Science & Mathematics > Chemistry](#)

## Customer Reviews

Bought for organic chemistry. All the pieces are durable. Some of they were a little difficult in fitting properly but over works very well. I would highly recommend these for any organic chemistry student. They are a life saver (and fun to play with!!).

This was the kit my professor recommended in the beginning of the semester. He said his was from 2001 and it's held up ever since. He even used it as a model during class. Since it was so highly recommended, I went ahead and purchased it. Unfortunately, the pieces were all very loose. They didn't hold together long enough for you to figure out the molecule you were building. It was so disappointing because if it did function as it should and the pieces fit perfectly, I would have loved to

continue using this kit as it was easy to assemble and figure out the positioning of all of the bonds and atoms. My professors doesn't fall apart the way my kit did, so perhaps it was just a defect in this one set.

Such a good price! Some reviews say that they didn't get the product in the picture, but I did. The ziploc bag, pieces, instructions, and the box. It's a great tool to use if you're a visual learner. I also used some of my friends more expensive sets that had smaller pieces and my set was so much easier to use. Other sets are harder to use because everything is just so tiny. I really only used this set for the first exam of organic chemistry 1. After that it just collected dust.

I bought this model kit a little late in the semester, and it was recommended to me by my professor as an inexpensive model kit that got the job done. I was kind of surprised to see so many dissatisfied reviews, however upon reading them I decided to buy this kit, anyway, because the complaints I read didn't concern me. When I purchased this kit it was around \$15 bucks. I use it to get a visual idea of stereochemical relationships for organic chemistry. I'm not a chem major. In my opinion that's who this kit would be best for. If you're looking to use a kit for anything more complex, I suggest for you to invest in something a little nicer. The guides for this model set are very easy to understand, my only complaint is that I wish all the of bonds interlocked. Oh, and in regard to the complaints about the box being cardboard (which was shown in the product picture)... I just bought a plastic pencil-box from the dollar store and everything fits perfectly. Easily solved.

It was a great price and worked well to help me visualize structures for ochem. I would totally recommend this to any student who wants to own an inexpensive model. I do agree that the flimsy box it suppose to be store in sucks but I just bought a 2 dollar pencil case to store them in and its fine.

Perfect for modeling larger carbon chains. Aesthetically it is not very pretty when compared with ball and stick sets, but it is a very good set for visualizing and manipulating molecular structures and their conformers.

Kit was comprehensive, and provided everything and more for Organic Chemistry 1. I had 1 or 2 pieces break over the course of the semester. Certainly worth the price.

Seller shipped fast & received it prior to the estimated delivery date. Item is a small kit which is ideal for carrying around campus. It is as described. The directions are clear and concise. Consider purchasing an additional kit if you need to make long and complicated structures.

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