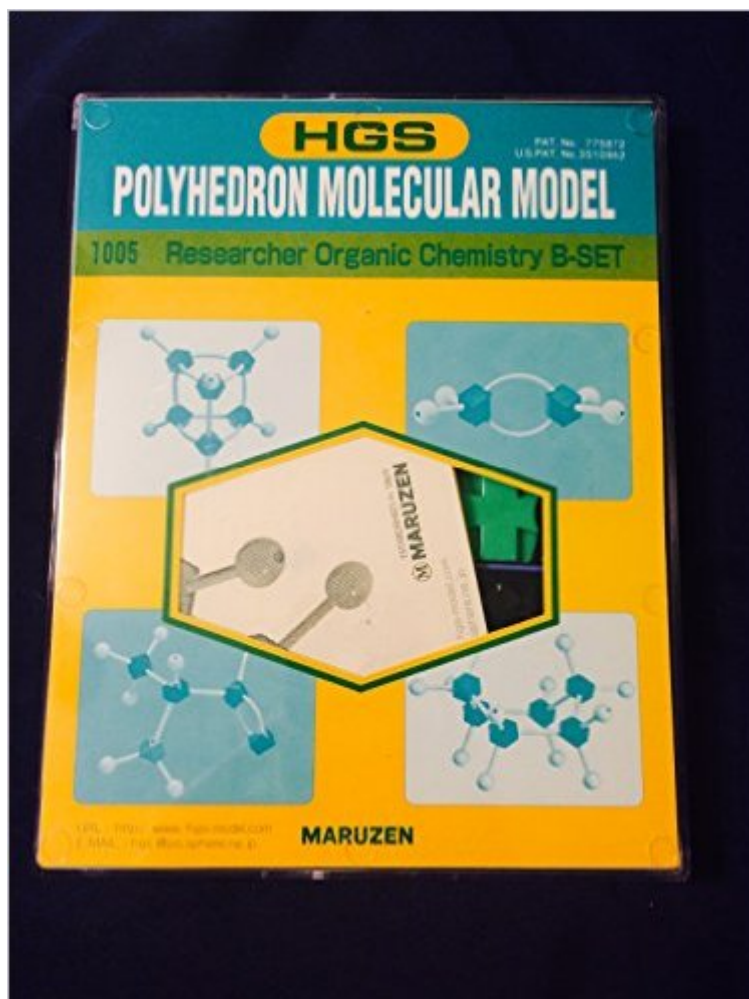


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# 1005/ Researcher Organic Chemistry B-set (HGS Polyhedron Molecular Model)



## Synopsis

Shows some signs of wear, and may have some markings on the inside. 100% Money Back Guarantee.

## Book Information

Misc. Supplies

ASIN: B002VLM4OQ

Product Dimensions: 8.5 x 7.1 x 1 inches

Shipping Weight: 1.2 pounds

Average Customer Review: 4.4 out of 5 stars [See all reviews](#) (17 customer reviews)

Best Sellers Rank: #1,310,226 in Books (See Top 100 in Books) #93 in [Books > Science & Math > Chemistry > Molecular Chemistry](#)

## Customer Reviews

I like this model set pretty well. Bear in mind that I find model sets to be a pretty clunky, but effective way to visualize molecules and reaction mechanisms. Prior to this I owned a molecular visions model set aimed at the gen. chem crowd, and I really can't say much for that brand. They cost more, and didn't seem to have much flexibility in terms of bond types, because the atom and the bond are basically one piece. These HGS sets have one piece for the atom, and one piece for the bond(s), so you have a lot more flexibility. The HGS sets are also smaller, which means it's easier to make models of larger molecules without them getting too big to really control. Apparently all the bond pieces have lengths calculated to be appropriate for fairly specific bond types, such as C-Br, C-OH, C-O-C, etc, which makes the spatial appearance of your molecular reasonably accurate. One word of warning. You really want to keep all of the bonds stored in the little bags they came in. The little compartments in the box don't hold the different bonds separate if you put the whole kit in your bag to bring it to school or something, and you end up with a giant mess of little white sticks of all different lengths and shapes. There's like a couple hundred of them, so it's not a fun cleanup. Trust me on this! Physical kits are only so useful in my view. Building big molecules takes too long. I find software like Spartan Student Edition more helpful for building molecules, but they don't allow it on tests at my university. For reference, I'm a second semester organic chem student at the university level in the US. These kits seem to be the most useful ones I've found (or any of my classmates). You could buy a smaller one, but by second semester you'll wish you'd bought this one!

I'm back to buy another of this set. I bought the last set about a year ago and it is still going strong,

but I've been sharing pieces and need to restock. In case it helps, here's my observations about the sets 1000, 1001, 1013A, and this one 1005. The 1000 provides only those atoms that follow the octet rule. I don't recommend it, personally, because the 1001 is a better set for similar cost. The 1001 is my preference for general chemistry, be it high school or college. And works for organic. It offers carbons, hydrogens, oxygen, nitrogen, plus expanded octet options--and this is the whole reason I wanted the kit! To see for myself why  $\text{HED}=5$  goes to T-shaped, for example. It becomes more clear when I can hold it myself. I'm just now ordering the 1013A to try it. It looks like it offers carbons, hydrogens, expanded octet options, plus 2 green and 2 blue lone pair "flags". The flags are nice for visualizing lone pairs of electrons and for learning valence bond theory (hybridization). I also want to try out the resealable bag. The plastic box of the older kits keeps things organized, but it is difficult to open! The 1005 provides just enough lone pair "flags" to build the benzene ring. The other kits above do not. This is the sole reason I purchased this kit the first time. I do wonder if we can just buy the flags by themselves. That would be handy for figuring hybridization for atoms in molecules, among other things. This kit also provides a bazillion of everything, so one can build larger structures or more of them. I can build an entire set of molecules for VSEPR shapes with this set. These sets are plastic, but I find them easier to build, take apart, and keep track of than the Molecular Visions set I had. Hope that helps!

This kit has enough building blocks to build most organic molecules, even very complex ones. The special  $\text{sp}^2$  hybridized "carbon"s can be very handy when constructing aromatic compounds. The sticks has different lengths for different bonds, very useful when estimating distance between atoms. (they even put a ruler in it.)

The only issue is that it is mildly difficult to make a benzene ring, but 5 stars none the less. Being an organic chemist, I would highly recommend this product to anyone looking to build a good molecular model.

It is a great kit, it's very accurate and definitely helps understand structures and their changes. This kit is somewhat more tedious and time consuming, in putting the pieces together than some of the cheaper kits, but I believe it's also more accurate in showing movement of the molecules. As others said before, DO NOT lose the bond removal tool or you will have several stuck peices. The one thing I don't like is the container doesn't "click" shut. So if you aren't careful the lid can slide off (I just put rubber bands around it and that worked for me).

5 Stars! The best chemistry model set out there today. I've used all the standard model sets (Molymod, Molecular Vision) but this set is far superior to those. Pros: -Easy to use! -Very flexible in what you can make and do with it. -Engineered smaller to make it useful for big molecules (try making Taxol, fun times!) Cons: -Price! A Japan company (HGS) make its and it not that cheap new. This set (1005 Advanced Organic) is hard to find used but the other basic sets are easy found on ebay or used. -Bond Sticks. Tedious. Each bond has it own bond stick for bond length but with few exceptions, your not going to worry about that stuff. I used the bond #6 for almost everything. Also, like another reviewer pointed out, keep your bonds organized for ease of use. Dump the tray it came with and use a plano box (tackle box) to sort your components. Spend the money if you have to buy new but get this set. I have two of these advanced organic sets in a plano box and it's just a joy to use for homework or fooling around with making molecules. Adrian

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