Main Toolbar

- **File: New, Open, Save**
- **Print**
- **Edit: Cut, Copy, Paste**
- **Fit to Screen**: scales the molecule so it fits inside the 3D Window
- **Display Style**: allows you to change the style of a molecule or selected set of atoms
- **Measure**: distance, angle, dihedral

Builder Tool Bar

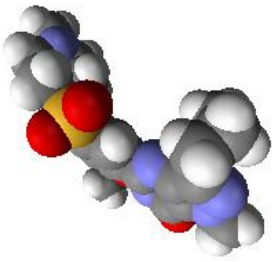
- **Add Hydrogens**
- **Hide Hydrogens**
- **Single Bond**
- **Double Bond**
- **Aromatic Bond**
- **Triple Bond**
- **Periodic Table:** change element
- **Clean Structure:** cleans up the geometry of all molecules in the Window, or selected molecules. If any atoms are selected, they are cleaned in the context of their own molecule.

Tool Palette

- **Select Tool**
- **Rotate Tool**
- **Translate Tool:** relocates molecules
- **Zoom Tool**
- **Torsion Tool:** rotates bonds
- **Sketch Tool**: sketches atoms and bonds
- **Ring Tool:** sketches rings of any size
- **Chain Tool:** sketches chains of any length
- **Text Tool:** inserts text
- **Annotation Tool:** inserts annotation
- **Callout Tool:** created an annotation callout

Function keys for mode switching:

- F5 - Selection
- F6 - Rotation
- F7 - Translation
- F8 - Zoom



Hierarchy Window

The Hierarchy Window is accessed through the Window menu. The Hierarchy Window is a tool for viewing the molecular hierarchy of the molecule(s) loaded and aiding in the selection of chemical objects.

Select Tool: use to select one or more objects using the mouse. Multiple objects can be selected by either clicking with the <Shift> key down on additional objects, or by drag-selecting a set of objects in a given region.

When a single object (like an atom or bond), or a single object containing other objects is selected (like an amino acid and its constituent atoms), the type and name of the object appear in the status bar pane.

Visibility Tool: makes the object you click visible, and everything else invisible.

- To add objects to the visible set, click with the <Shift> key pressed.
- To toggle the visibility of objects, click with the <Ctrl> key pressed.

Options

The **View / Options** dialog box contains seven pages of options. These options are used to set the default behavior of the ViewerPro.

Graphics page contains controls that affect the appearance of molecules in the 3D Window:

- Projection
- Background color
- Quality
- Depth cueing
- Fast render on move
- Line width

Stereo options page controls the various ways that the ViewerPro can display models in stereo, including a control for enabling hardware stereo.

Lighting page give you access to the multiple light sources allowing you to turn them on, change their color, and direction.

Display Styles: page controls the default display style that is applied to new molecule files imported into the ViewerPro.

General page contains controls that affect the way tools work:

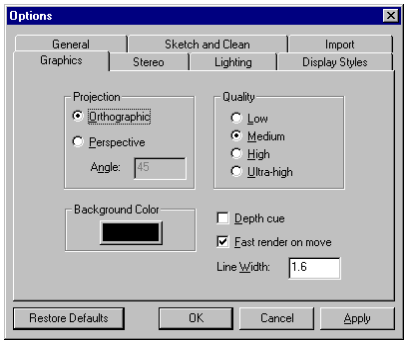
- Selection tool (lasso or rubber band)
- Pick tolerance: size of the Selection Tool “hit” area
- Synchronize: sets all molecules in all windows to rotate together
- Disable graphics hardware acceleration
- Rotation tool (track ball or track surface)

Sketch and Clean page contains controls for sketching operations:

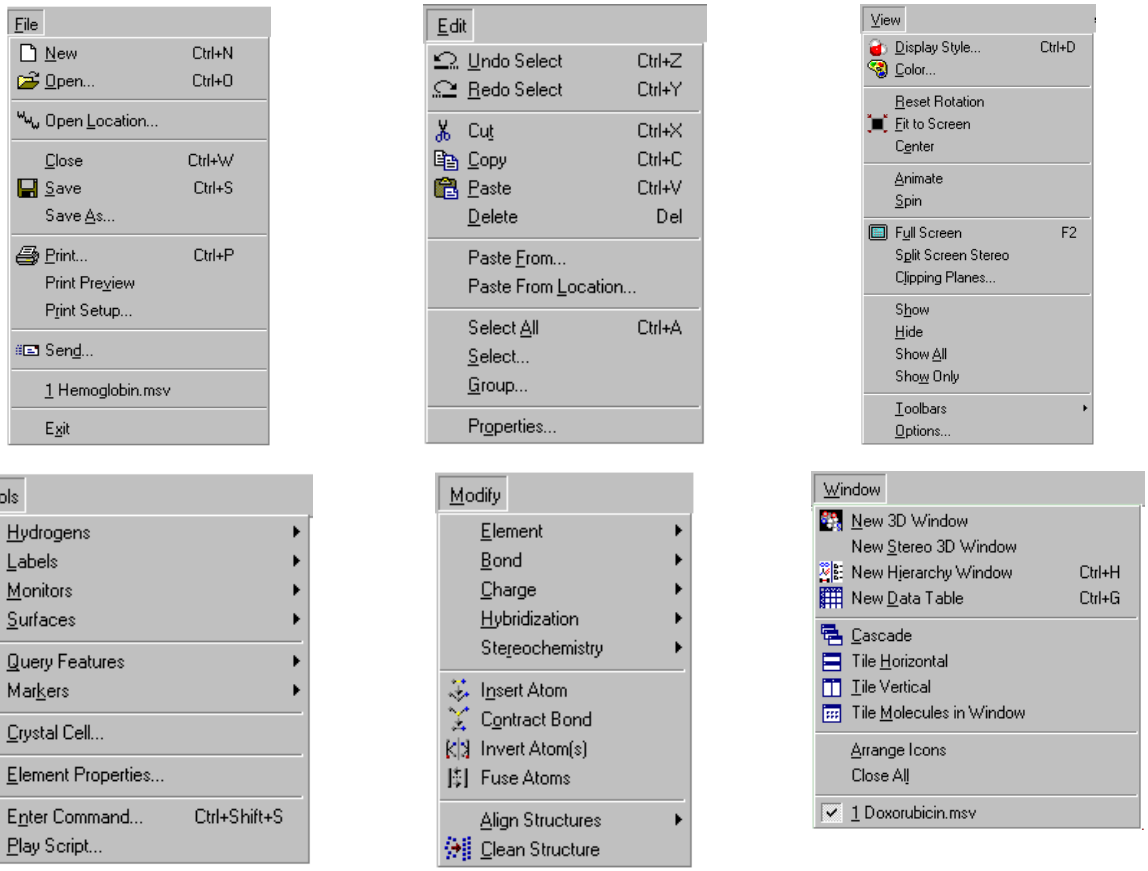
- Clean only selected atoms
- Include intermolecular forces
- Perceive aromaticity
- Automatically clean
- Add/Update hydrogens
- Default sketch style

Import page contains advanced molecule import options:

- Convert 2D to 3D
- Add hydrogens
- Display unit cell
- Use atom charges from file
- Create animation
- Use PDB secondary type
- Perceive aromaticity



Quick Reference Guide — DS ViewerPro™



Tips:

- **Right mouse:** the right mouse button is used to display a menu of commands appropriate to the current selection.
- **Bond Order:** change the bond order of selected bonds while in sketch mode by pressing the 1, 2, 3, or 4 keys. Use "1" for a single bond, "2" for a double, "3" for a triple, and "4" for aromatic.
- **Move/Resize tool bars:** grab a non-button area with the mouse and drag to a new location.
- **Multiple molecule files:** use the **Paste From…** command from the **Edit** menu to copy a molecule into an existing window.
- **Resizing and centering:** use the **Fit To Screen** button to resize and re-center molecules in the current window.
- **Email a molecule:** send a molecule directly to a colleague by selecting the **File/Send...** menu option.
- **Access molecules on the Internet:** open a new molecule from anywhere on the Internet that has a URL address by selecting the **File/Open Location...** menu option.
- **Hierarchy view:** the **Window/New Hierarchy** command opens a window with an organizational view.
- **Sharing information between applications:** molecules can be embedded in any OLE compliant applications such as Microsoft Word. Execute **Edit/Copy** in the DS ViewerPro and then **Edit/Paste** in Word.
- **Treating objects independently:** use the <Ctrl> key to treat objects independently. For example, in a multiple-molecule file, select one molecule, hold down the <Ctrl> key and rotate only the select molecule.

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