CambridgeSoft Corporation **CS**
Desktop Chemistry Software Leader

CS ChemDraw™
for Apple Macintosh

Quick Reference

SCREEN ELEMENTS

Close box — Title bar — Window title — Help menu

Menu bar

Zoom box

Untitled JOC Document-1

Rotation handle

Scroll box

Resize handle

Selection rectangle

Drawing area

Vertical scroll bar

Resize handle

Document window

Text box

Scroll arrow

Message area — Horizontal scroll bar — Size box
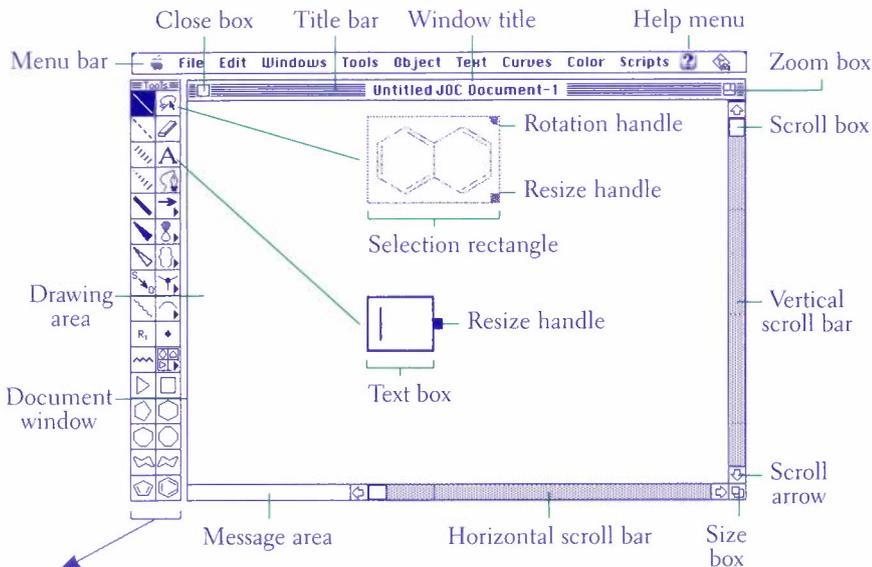
TOOLS PALETTE

	≡Tools≡			
Bond tools	Solid		Selection	
	Dashed		Eraser	
	Hashed		Text	
	Hashed Wedged		Pen	
	Bold		Arrow	
	Bold Wedged		Orbital	
	Hollow Wedged		Drawing Elements	
	Dative		Chemical Symbols	
	Wavy		Arc	
	Alternative Group*		Attachment Point*	
	Acyclic Chain		Template	

* = Pro only

Ring tools			
	Cyclopropane	Cyclobutane	
	Cyclopentane	Cyclohexane	
	Cycloheptane	Cyclooctane	
	Cyclohexane Chair (1)	Cyclohexane Chair (2)	
	Cyclopentadiene	Benzene	

MENUS

File

Create a new document based on the last stationery pad used. — **New Document** ⌘N

Open... ⌘O — Choose a document to open.

Close the document window. — **Close** ⌘W

Save ⌘S — Save changes to the document.

Save a copy of the active document in another location or file format. — **Save As...**

Revert — Revert to the last saved version.

Specify settings for printed page. — **Page Setup...** ⌘M

Print... ⌘P — Specify options and print.

Download *ChemDraw* information to a printer. — **Initialize LaserWriter**

Drawing Settings... — Specify settings that affect the appearance of objects being drawn.

Specify default character format for atom labels and captions. — **Text Settings...**

Color Palette... — Specify colors displayed in Color menu.

Use settings in another stationery pad. — **Apply Settings** ▶

Preferences... — Set application specific options.

View or delete nicknames. — **List Nicknames...**

Quit CS ChemDraw Pro 4.0 ⌘Q — Exit and close *CS ChemDraw*.

Edit

Undo effect of the last command. — **Undo** ⌘Z

Redo ⌘Y — Redo effect of the last undo command.

Remove selection to the Clipboard. — **Cut** ⌘X

Copy ⌘C — Copy selection to the Clipboard.

Paste information from the Clipboard. — **Paste** ⌘V

Clear — Delete selection (not copied to Clipboard.)

Select all objects (Selection tool). Select all text in text box (Text tool). — **Select All** ⌘A

Repeat ⌘Y — Repeat the last command.

Convert selection to SMILES or SLN° string and place on the Clipboard. — **Copy as** ▶

Paste Special ▶ — Paste a SMILES string as a chemical structure.

Select options for publishing a selection. — **Create Publisher...**

Subscribe To... — Select a document containing a subscriber.

Set options for selected publisher/subscriber. — **Subscriber Options...**

✓**Show Borders** — Display a visible border around a publisher/subscriber.

Display the contents of the Clipboard. — **Show Clipboard**

Windows

✓ **Untitled RSC Document 1995-1** — Choose an open document to display as the active window.

Choose a stationery pad to create a new document.

ACS Document 1996
Can. J. Chem. Docunıent
ChemFinder Settings
J. Mol. Mod. (1 Column)
J. Mol. Mod. (2 Column)
New Document
New Slide
New Templates
RSC Document 1995
SYNTHESIS/SYNLETT Document

Choose a Template document to open for editing.°

Amino Acids
Aromatics
Bicyclics
Conformers
Cp Rings
Cycloalkanes
DNA Templates
Functional Groups
Hexoses
▼

° = Pro only

Tools

Display a movable grid. — **Show Crosshair** ⌘H

Show Rulers ⌘; — Display rulers.

Constrain bond length to the fixed length drawing setting. — ✓**Fixed Lengths** ⌘L

✓**Fixed Angles** ⌘E — Constrain object orientation to 15 degree increments.

Return to 100% view. — **Actual Size** ⌘\

Show Page ⌘/ — Reduce view to show entire page.

Magnify view in increments up to 400%. — **Magnify** ⌘.

Reduce ⌘, — Reduce view in increments. (Minimum size is specific to the dimensions of your monitor.)

Add and remove rows and columns in Template panel.° — **Add Row**
Add Column
Delete Row
Delete Column

Object

Center selection on the page. — **Center on Page**

Align ▶ — Choose an alignment for two or more selected objects.

Distribute three or more selected objects horizontally or vertically. — **Distribute** ▶

Group objects for selecting by double-clicking. — **Group** ⌘G

Ungroup — Ungroup a selected group.

Join curves or structures to make a single object. — **Join** ⌘J

Alter the front to back ordering of selected objects. — **Bring to Front** ⌘[
Send to Back ⌘]

Flip selected objects across an axis. — **Flip Horizontal**
Flip Vertical

Rotate... ⌘R — Specify how to rotate a selection.

Specify how to scale a selection. — **Scale...** ⌘K

Apply properties to selected atoms in a query structure.° — **Atom Properties...**

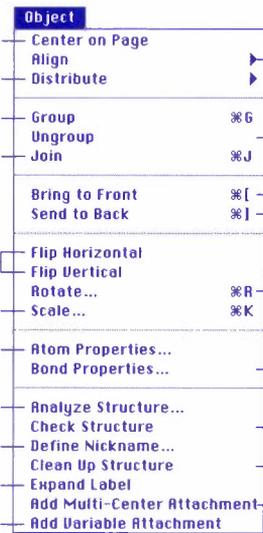**Bond Properties...** — Apply bond properties to selected bonds in a query structure.°

Calculate M.W., elemental analysis, formula and exact mass. — **Analyze Structure...**

Check Structure — Check valences and labels in a selection.

Create a nickname for a selected structure.° — **Define Nickname...**

Clean Up Structure — Adjust bond angles and lengths of a selected structure.

Expand a structure containing a nickname or atom label. — **Expand Label**

Add Multi-Center Attachment — Add a node to which you can add a bond that represents an unspecified number of bonds to an atom.°

Add a variable node to which you can add a bond that represents any of several isomers.° — **Add Variable Attachment**

Text

Choose a font to apply to text selection. — **Font** ▶

Style ▶ — Choose a style to apply to text selection,

Choose a size to apply to text selection. — **Size** ▶

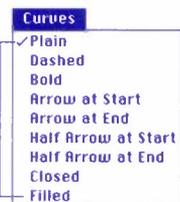Justify atom label or caption text. ("Justified" applies to captions only. "Automatic" and "Stacked Above" apply to atom labels only). — **Flush Left**
**Centered**
Flush Right
Justified
Stacked Above
✓**Automatic**

Line Spacing... — Specify line spacing in a text selection.

Curves

Choose a style to apply to a selected shape created with the Pen tool. —
✓**Plain**
Dashed
Bold
Arrow at Start
Arrow at End
Half Arrow at Start
Half Arrow at End
Closed
Filled

Color

Choose a color to apply to a selection. Foreground is the default color used for coloring new objects. —
✓**Foreground**
Other #1
Other #2
Other #3
Other #4
Other #5
Other #6
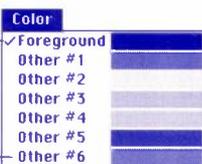
Scripts Menu and Customized Menus

The Scripts menu in CS *ChemDraw* is a customizable menu that can contain compiled scripts. Dragging the icon of the compiled script into the ChemDraw Folder adds the item to the Scripts menu. Items in the ChemDraw Folder that come with CS *ChemDraw* are described in the document "About ChemDraw Scripts" in the Scripts menu.

Scripts
About ChemDraw Scripts

WORKING WITH SELECTIONS

⌘ = command
⌥ = option
⇧ = shift

If you want to ...	Here's how ...
Add items to a selection	⇧ + select items not currently selected
Remove items from a selection	⇧ + select items currently selected
Duplicate a selection	⌥ + drag Selection Rectangle
Constrain dragging to X or Y direction	⌘ + drag Selection Rectangle
Duplicate and constrain dragging	⌘ + ⌥ + drag Selection Rectangle
Switch between selection and another tool	⌘ + TAB
Resize selection excluding atom labels	Drag Resize handle of Selection Rectangle
Resize selection including atom labels	⌥ + drag Resize handle of Selection Rectangle
Rotate selection excluding atom labels	Drag Rotation handle of Selection Rectangle
Rotate selection including atom labels	⌥ + drag Rotation handle of Selection Rectangle
Distort aspect ratio of selection	⌘ + drag Resize handle of Selection Rectangle
Open Rotate or Resize dialog box	Double-click Resize handle or Rotation handle

DRAWING TECHNIQUES

Draw a first bond	Drag to draw the bond
Add a bond	Click an atom or drag from an atom
Label an atom using a bond or ring tool	Double-click an atom (triple-click to repeat last label)
Label an atom using the Text tool	Click an atom (double-click to repeat last label)
Label an atom using a HotKey	Point at an atom and press a HotKey (e.g., "c")
Draw a double bond (solid, dashed, bold only)	Drag over a single bond using a bond tool
Draw a triple bond (solid only)	Drag over a double bond using a bond tool
Reduce bond order using Eraser tool	Click center of a multiple bond
Change double bond alignment	Click center of double bond using any bond tool
Change double bond type	Click center of double bond using different bond tool
Move an atom	⇧ + drag an atom using a bond or selection tool
Change bond type	Click center of bond using different bond tool
Change bond layering using bond tool	Double-click center of bond you want forward
Draw a ring	Click or drag using a Ring tool
Create a spiro-linkage	Click or drag from an atom using a Ring tool
Create a fused ring	Click or drag from a bond using a Ring tool
Change size of non-bond object	⇧ + drag starting point of object (e.g., arrowhead)

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