
Chapter 16: ChemACX

ChemACX (Available Chemicals Exchange) is a class of databases available from chemical manufacturers and distributors, featuring complete catalogs of major world suppliers of fine research, specialty, and industrial chemicals. ChemACX is a read-only database.

ChemACX Database

Availability:

- DVD-ROM as part of ChemACX Ultra
- Internet Subscription
- Intranet with ChemOffice Enterprise
- SD-File

Number of Catalogs: 405

Number of Unique Chemical Entities: >350,000

Number of Chemical Products: > 1 Million

Key Fields:

- Structure
- Formula
- ACX Number
- Product Name
- Molecular Weight
- CAS Registry Number
- Synonym
- Product ID
- Catalog Number

- Supplier ID
- Property
- Supplier Name

How Is It Useful?

ChemACX is your guide to commercially available chemicals worldwide. Whether you are planning a bench synthesis, scale-up, or a commercial process, you can search these databases to determine the availability and sources for the chemicals you need.

You can search ChemACX by any of the following:

- Chemical structure
- Chemical substructure
- Compound name
- Molecular formula
- CAS Registry Number
- Molecular weight range
- Combinations of the above criteria

For information about searching, see the ChemFinder section in the purple ChemOffice manual.

Using ChemACX with ChemOffice Enterprise

ChemACX allows the user to search for particular chemicals, view a list of vendors providing what was searched for, and save the products desired to a Shopping Cart.

Opening ChemACX

To open ChemACX:

Type **http://servername** into your web browser.

NOTE: *Servername is the name of the ChemOffice Enterprise machine. For more information about your server, please contact your system administrator.*

The main ChemOffice Enterprise window appears.

- Click **ChemACX**.

The ChemACX Query Input Form appears.

Searching ChemACX Catalogs

Searching ChemACX is similar to searching all other ChemOffice Enterprise applications. For tips regarding searching ChemOffice Enterprise applications, please see “Searching ChemOffice Enterprise Applications” on page 194.

Searches for chemicals in ChemACX can include a combination of any of the following fields:

- Substance Name (text search)
- CAS Registry Number
- ACX Number
- Mol. Formula (formula search)
- MW Range (molecular weight search)
- Catalog Number

To search for information from ChemACX vendors:

1. Open **ChemACX**.
2. Enter search criteria.
3. Select the appropriate Search:
 - If you would like to search over all of the vendors in ChemACX, select **Search all vendors**.
 - If you would like to search over a previously generated list of favorite vendors, select **Search your favorite vendors**.
4. Click **Search**.

The Search Results page appears. The following illustration shows part of the results from a substructure search for cyclohexane.

Searching Without the Plug-in

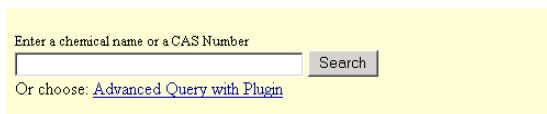
A ChemDraw plug-in is available from the ChemACX Query Input Form. This plug-in aides in the process of searching by substructure. If searching by substructure is not necessary, searching without the plug-in may be appropriate.

Searching without the plug-in allows the user to simplify the search to a chemical name or a CAS number only.

To search without the plug-in:


1. From the ChemACX query input form, click [CLICK FOR NON-PLUGIN SEARCH](#) **Click for Non-Plugin Search.**

The Non-Plug-in Search page appears.



2. Take the appropriate action:

If you want to search	Then
by chemical name	in the text box, enter a chemical name.
by CAS number	in the text box, enter a CAS number.
with the full query page, including structures and other criteria	click Advanced Query with Plugin.

3. Click  **Search.**

The Search Results page appears.

Creating and Editing A List of Favorite

Vendors

It is possible for the user to search for substances under a shorter list of preferred vendors. This shorted list helps to limit search results to include products from only your “favorite vendors”.

To create or edit a list of favorite vendors available to search under:

1. From the ChemACX Query input form, click [EDIT FAVORITE VENDORS LIST](#) **Edit Favorite Vendors List.**

The Vendor Selector box appears.



2. Select the checkbox next to any vendor that should be included in the favorite list. To remove a vendor, deselect the checkbox.
3. Click [Save as Preferred List](#) **Save as Preferred List.**

A list of favorite vendors is saved and the Vendor Selector box closes.

Viewing Search Results

Similar to other ChemOffice Enterprise applications, search results can be viewed in two major formats: List View and Details View.

- List View - lists all results in a compact manner, giving only summary information for each result. You are able to register and lookup MSDX data from this view.

- Details view allows users to view all information in the selected record. You are able to register and lookup MSDX data from this view as well as add items to your shopping cart from this view.

To view a record's entry:

- Search for a chemical on ChemACX. For more information about searching in ChemACX, see “Searching ChemACX Catalogs” on page 278.
- To view vendors for a specific record, click **Details**.

The detailed view appears

- Select one of the tabs: **Online Vendors**, **Your Favorite Vendors**, or **Other Vendors**.
- Highlighting a vendor name in the list found in the tabs will display a catalog listing to the right. To compare more than one vendor, hold down CTRL when highlighting vendor names.
- Clicking **Catalog View** or **Compact View** will toggle between the two viewing options. Select whichever view you are most comfortable with.

- In the list, select the checkbox next to Add to Cart and enter a quantity.

The order is added to your Shopping Cart.

- To view the full catalog listing, click Catalog Details, and a new window will appear displaying catalog information.
- In the list, select the checkbox next to Add to Cart and enter a quantity. The order is added to your Shopping Cart.

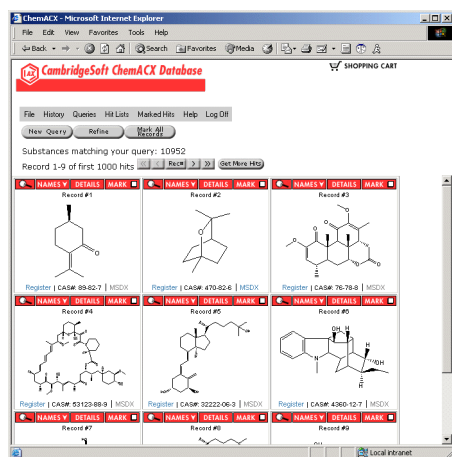
Viewing Search Results in List View

Results of a search are returned in list view by default. The maximum total number of records returned and the number of records returned on each page is controlled by user preferences.

The following functions can be performed from this view:

- Zoom in on the structure.
- List all Synonyms for the substance.
- Access the record in details view.
- Mark the record.
- Register the compound in Registration Enterprise.
- Access the MSDX data for the compound.

To view results in list view, perform a search. Use the browsing buttons to browse through the pages of result.



Viewing Search Results in Details View

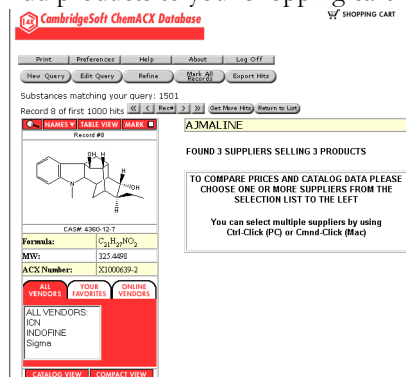
Clicking on the Details button for a record in List View brings you to details view for that record.

Details view makes available all of the tools to browse through vendor catalogs and add products to your shopping cart.

The following functions can be performed from this view:

- Zoom in on the structure.
- List all Synonyms for the substance.
- Return the List View.
- Mark the record.
- Register the compound in Registration Enterprise.
- Access the MSDX data for the compound.
- Browse Vendor information.

- Add products to your shopping cart.

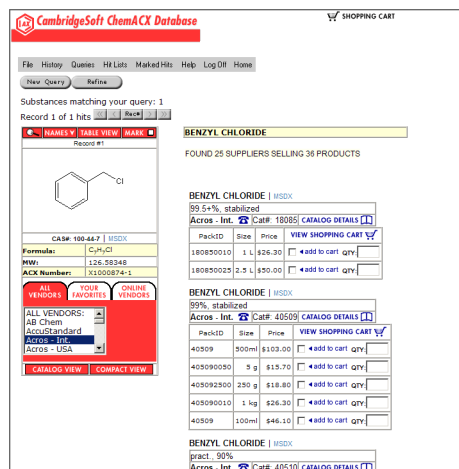


Browsing Vendor Information

Records in details view are displayed with both structure and vendor information.

To find the vendor catalog you are looking for:

1. Select one of the tabs: **Online Vendors**, **Your Favorite Vendors**, or **Other Vendors** depending on your preference.
2. Highlighting a vendor name in the list found in the tabs will display a catalog listing to the right.



Note: To compare more than one vendor, hold down CTRL when highlighting vendor names.

3. Select the appropriate viewing option by clicking on one of the following buttons:

Catalog View

BENZYL CHLORIDE, STABILIZED WITH 0.25% PROPYLENE OXIDE | MSDX

99.5+%				
Acros - USA Cat#: AC18085 CATALOG DETAILS				
PackID	Size	Price	VIEW SHOPPING CART	
AC18085-0010	1 LT	\$19.10	<input type="checkbox"/> add to cart	QTY: <input type="text"/>
AC18085-0025	2.5 LT	\$36.20	<input type="checkbox"/> add to cart	QTY: <input type="text"/>

CHLOROMETHYLATED POLYSTYRENE: 1% DIVINYLBENZENE COPOLYMER BEADS | MSDX

Acros - USA Cat#: AC40470 CATALOG DETAILS				
PackID	Size	Price	VIEW SHOPPING CART	
AC40470-1000	100 GR	\$107.30	<input type="checkbox"/> add to cart	QTY: <input type="text"/>
AC40470-0250	25 GR	\$41.60	<input type="checkbox"/> add to cart	QTY: <input type="text"/>

- To view the full catalog listing, click Catalog Details, and a new window will appear displaying catalog information.

Compact View

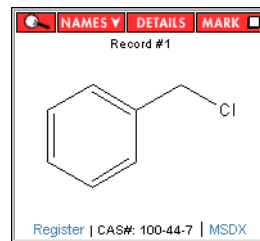
SUP	CAT#	SIZE	PRICE	VIEW SHOPPING CART
Acros - USA	AC18085-0010	1 LT	\$19.10	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC18085-0025	2.5 LT	\$36.20	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40470-1000	100 GR	\$107.30	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40470-0250	25 GR	\$41.60	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40471-1000	100 GR	\$107.30	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40471-0500	50 G	\$115.20	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40471-0100	10 G	\$43.20	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40472-0500	50 G	\$115.20	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40472-0100	10 G	\$26.90	<input type="checkbox"/> add to cart QTY: <input type="text"/>
Acros - USA	AC40472-0250	25 GR	\$31.80	<input type="checkbox"/> add to cart QTY: <input type="text"/>

- For details about using the shopping cart, please see “Using the Shopping Cart” on page 283.

Accessing MSDX Data

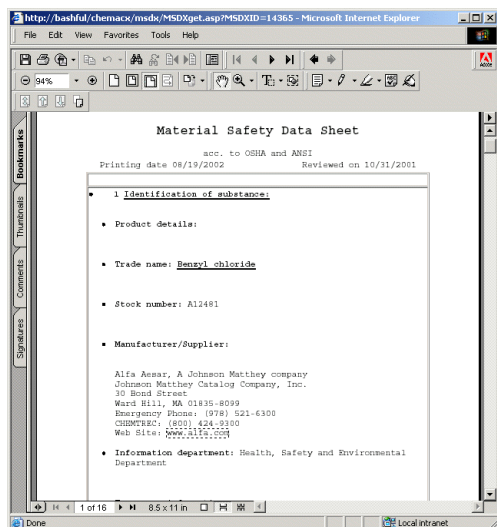
MSDX Data, when available, can be accessed from the MSDX link found in list and details view on a substance's record. MSDX data is not available for all substances. By default, when the data is not available, the MSDX link will appear greyed out.

To access a substance's MSDX data, click the **MSDX** link in list or details view.



- If there is more than one data sheet for the substance, an option window appears.

- If there is only one data sheet available, or as a result of selecting one of the options, the datasheet appears in PDF format.



Using the Shopping Cart

The Shopping Cart is a convenient way to save a list of chemicals to be ordered. For more information, about ordering the chemicals in your shopping cart, see “Ordering The Chemicals in the ChemACX Shopping Cart” on page 283.

You can add items in the shopping cart from details view of any record.

To view a record's entry:

- Search for and access a record in details view.
- Browse to the product you would like to add to your shopping cart.
- In the list, select the checkbox next to **Add to Cart** and enter a quantity.

[VIEW SHOPPING CART](#)

☒ **add to cart** QTY:

The order is added to your Shopping Cart.

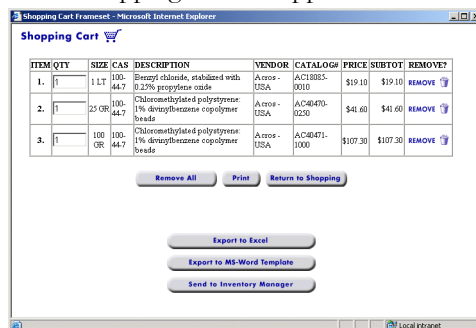
Viewing Your Shopping Cart

Your Shopping Cart list can be retrieved from the ChemACX Query Input form or the Search Results page.

To view your Shopping Cart, click either

- SHOPPING CART** OR
- VIEW SHOPPING CART**

Your Shopping Cart list appears.



Removing Items from Your Shopping Cart

To remove an item from your Shopping Cart:

- On the Shopping Cart page, click **REMOVE**

To remove all items from your Shopping Cart:

- On the Shopping Cart page, click

Remove All **Remove all.**

Ordering The Chemicals in the ChemACX Shopping Cart

There are three options in saving the ChemACX shopping cart information gathered during a session: **Print**, **Export to Excel**, or **Export to Word**.

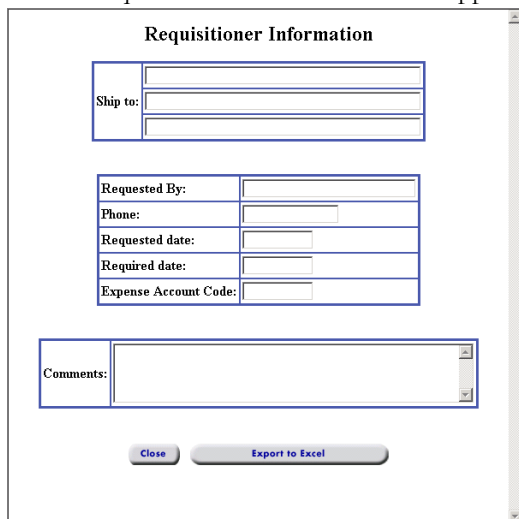
To print your shopping cart, click on **Print** **Print.**

To export shopping cart data to Excel or Word:

1. Click  **Export to Excel** (or **Export to Word**).


NOTE: Exporting to MS Excel or MS Word are options configured by your system administrator. See your system administrator for more details.

The Requisitioner Information Form appears.



The Requisitioner Information Form is a web-based form with the following fields:

- Ship to:** Three input fields for address, city, and state.
- Requested By:** Input field.
- Phone:** Input field.
- Requested date:** Input field.
- Required date:** Input field.
- Expense Account Code:** Input field.
- Comments:** Large text area.
- Buttons:** Close and Export to Excel.

2. Enter appropriate information in the space provided.
3. Click  **Export to Excel** (or **Export to Word**).

Your shopping Cart information is saved to an Excel workbook or Word Document with one sheet for each vendor.

Registering and Creating Inventory Containers

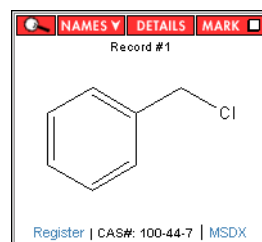
ChemACX can be integrated with Registration Enterprise and Inventory if they are installed. If the system is configured to utilize these features, the **Register** link (on search results pages) and the

Send Hits to Inventory button (on the shopping cart page) are visible. Otherwise, these tools will not be available.

For more information about configuring your system to link to Registration Enterprise and/or Inventory, please see your system administrator.

Registering Products in Registration Enterprise

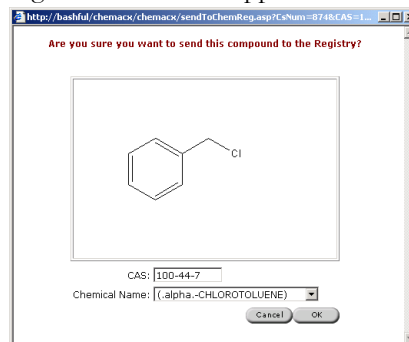
.When this feature is available, a Register link appears in List View.



To register the compound:

1. Click the **Register** link.

A registration window appears.



Registration window titled "Are you sure you want to send this compound to the Registry?".

Chemical structure: ClCc1ccccc1 (Chlorotoluene)

CAS: 100-44-7

Chemical Name: [(alpha.-CHLOROTOLUENE)]

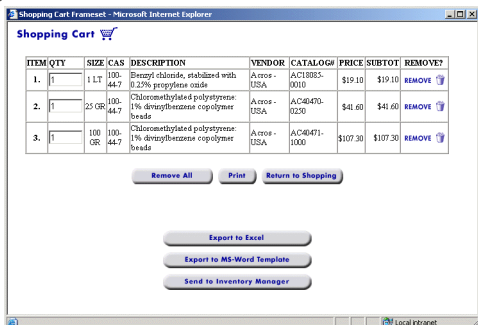
Buttons: Cancel, OK

2. Adjust the information as desired.
 - Change the CAS number in the **CAS** textbox.
 - Select a name from the **Chemical Name** listbox. The names listed are all names associated with the record in ChemACX.
3. Click **OK**.

The compound is added to the Temporary Table in Registration Enterprise by default.

Creating Inventory Containers in Inventory for Products

When this feature is available, a **Send Hits to Inventory** button is found on the shopping cart page.



To Send the contents of your Shopping Cart to Inventory and make containers for them:

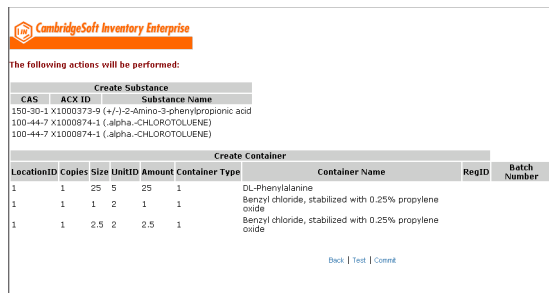
1. Click **Send Hits to Inventory**.
An Inventory window appears.

Container	Qty	CAS #	Chemical Name	Supplier	Size	Catalog Num	Price	Currency	Type	Size	UOM
1	1	150-30-1	Phenylalanine	Acros - USA	25 GR	AC16457	10.7	USD	bottle	25	G
2	1	100-44-7	Benzyl chloride, ...	Acros - USA	1 LT	AC18085	59.1	USD	bottle	1	L
3	1	100-44-7	Benzyl chloride, ...	Acros - USA	2.5 LT	AC18085	36.2	USD	bottle	2.5	L

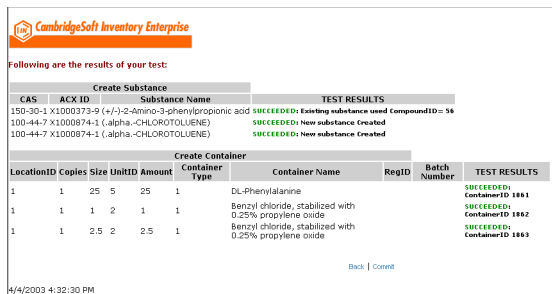
Cancel OK

2. Enter the appropriate information about the containers being created for each ChemACX product.

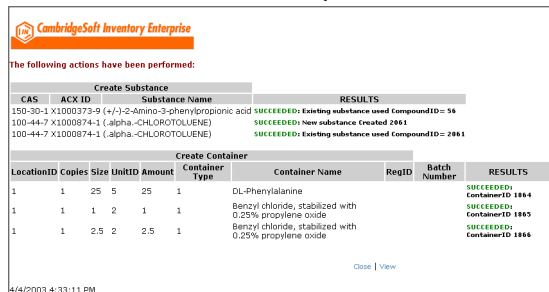
3. Click **OK**.



4. From this screen, you are able to commit the information you have entered or test the commit process before actually committing the data.
 - To test the data before committing, click **Test**.



- To commit the data to Inventory, click **Commit**. Click **View** to view your new containers in Inventory.



Saving Hitlists and Exporting SD Files

ChemACX, being a ChemOffice Enterprise application, uses the hitlist management and SD File Export Features of the ChemOffice Enterprise. See “Manipulating Hit Lists” on page 208 and “Exporting Search Results” on page 210 for more information.

Logging Off

You can end your session with ChemACX at anytime by logging off.

To log off:

- Click **Log Off** **Log Off**.

Using the ChemACX Ultra DVD-ROM

If you want to search over the entire database for a chemical, start with the Index form.

ChemACX Chemicals Available Chemical Data

Index Form

Substance:

ACX Number: X1000001 CAS RN: 75-69-4

MF: C12H15BrNO4 MW: 466.324

Chemical Structure:

Products Offered: 14

Product	CatalogNum	Descrip
Fluorochloromethane	534750	
Trichlorofluoromethane	119700	
Trichlorofluoromethane	119703	
Fluorochloromethane	21202	99.5% NMR grade

If you start your search with the Index form and find some matching compounds:

- A list of synonyms in the Synonyms subform appears.
- A list of suppliers in the Products subform appears.
- Search MSDX by clicking the MSDX button.

To view product information:

- On the Index form, click a product name.

The Product form appears.

ChemACX Chemicals Available Chemical Data

Product Form

Products:

Product Name: **LITHIUM CHLORIDE**

Description: 99%

ACX Number: X100053-2 Catalog#: 213233

Chemical Structure:

Supplier: Aldrich

Properties:

Property	Value
Molecular Formula	Cl
Purity	99.5%

Supplier Info Form... **MSDS DATABASE**

To return to the Index form:

- Click **Index Form**.

To view information about the supplier of the chemical:

- Click **Supplier Info Form**.

The Supplier form appears.

The screenshot shows the 'Supplier Info Form' in the ChemACX application. The supplier name is 'Pharmacia & Upjohn Company'. The contact information section includes a table for phone numbers and a table for addresses.

Pharmacia & Upjohn

Phones:

Type	CountryCode	AreaCode	PhoneNum	Location
Tel	1	616	833-5844	USA
Fax	1	616	833-3604	USA
Tel		800	325-3010	
Fax		800	325-5052	
Tel		314	771-5785	

Addresses:

Add1	Add2	City	State	Code	Country	Type
7000 Portage Rd		Kalamazoo	MI	49001	USA	

To display a list of products for the displayed supplier:

- Click **Products**.

The Products form appears.

What If My Favorite Supplier Isn't Listed Here?

An updated list of participating vendors can be found on CambridgeSoft's corporate website at:

<http://chemacx.cambridgesoft.com/chemacx/suppliers.asp>

CambridgeSoft is always adding new companies to ChemACX. The one you want might be in the next release of ChemInfo,...

Contact your supplier and ask them to participate in ChemACX. To participate, your supplier sends CambridgeSoft its product list. The preferred format for submission is a ChemFinder database with structures. They can also use other electronic formats such as Access databases or Excel spreadsheets. They can use a brochure for short product lists. Send the information to one of the following:

- csinfo@camsoft.com
- ChemACX Data, CambridgeSoft Corporation,
100 CambridgePark Drive, Cambridge, MA
02140 (USA)

