

ChemDraw sketch file - CDX, CDXML

- Features imported from CDX and CDXML files
- Features exported to CDX

The cdx format of CambridgeSoft's ChemDraw is imported and exported by Marvin. The import of cdxml format is supported, but export isn't.

Import

Supported features

- *Atom properties*: Following properties are supported: charge, isotope, substituents, free sites, unsaturation, reaction stereo, enhanced stereochemistry, radical, ring bond count.
- *Element*: The 'Element' type node is read as a single atom. For the supported properties see the supported Atom properties list.
- *Element List*: Element Lists are read as Atom List (or not list). For the supported properties see the supported node properties list.
- *Label*: Labels are converted to an S-group and imported in its contracted state.
- *Nickname*: Nicknames are converted to an S-group and imported in its contracted state.
- *Bond types*: Single bonds, double bonds, query bonds, topology, reaction centers are imported. See details.
- *Fragment*
- *Generic Label*: Generic Labels are read as Generic query atoms.
- *Attachment Points*: Attachment Points are imported.
- *Reaction arrows*: All types of arrows are imported, but only one arrow per file.
- *Bracketed groups*: All groups are imported.
- *Alternative Group*: Alternative Groups are read as R-groups, up to two connections per R-group.
- *Anonymous Alternative Group*: An Anonymous Alternative Group is imported as R-group and is assigned the R-group number n+1 where n is the largest R-group number in the file.
- *R-logic*
- *Link Node*: Link Node is read as Link Node.
- *Variable Attachment and Multi-Center Attachment*: These are imported as Multicenter S-groups.
- *Text Box*: Marvin reads the position and the formatted text.
- *Basic Graphic Objects*: Ellipses, rectangles and some of the symbols are read. See details.
- *Graphic Objects*: Tables and TLC plate drawings are imported as graphics. See details.
- *Formatted text in atom labels*: supported since 6.2.0.

Code: **cdx, cdxml**

Extension: **.cdx, .cdxml**

Not supported features:

- ElementListNickname

- ElectronFlow arrow
- Complex graphical objects (e.g. laboratory equipment drawings, biological drawings)

Notes

- Only ASCII characters are imported.
- R-logic import is supported, export not yet.

Export

Supported features

- *Chemical structures*
- *Formatted text*
- *R-groups*: R-logic is not supported.
- *S-groups*
- *Atom and bond query properties*
- *Rectangles, rounded rectangles and ellipses*
- *Reactions*