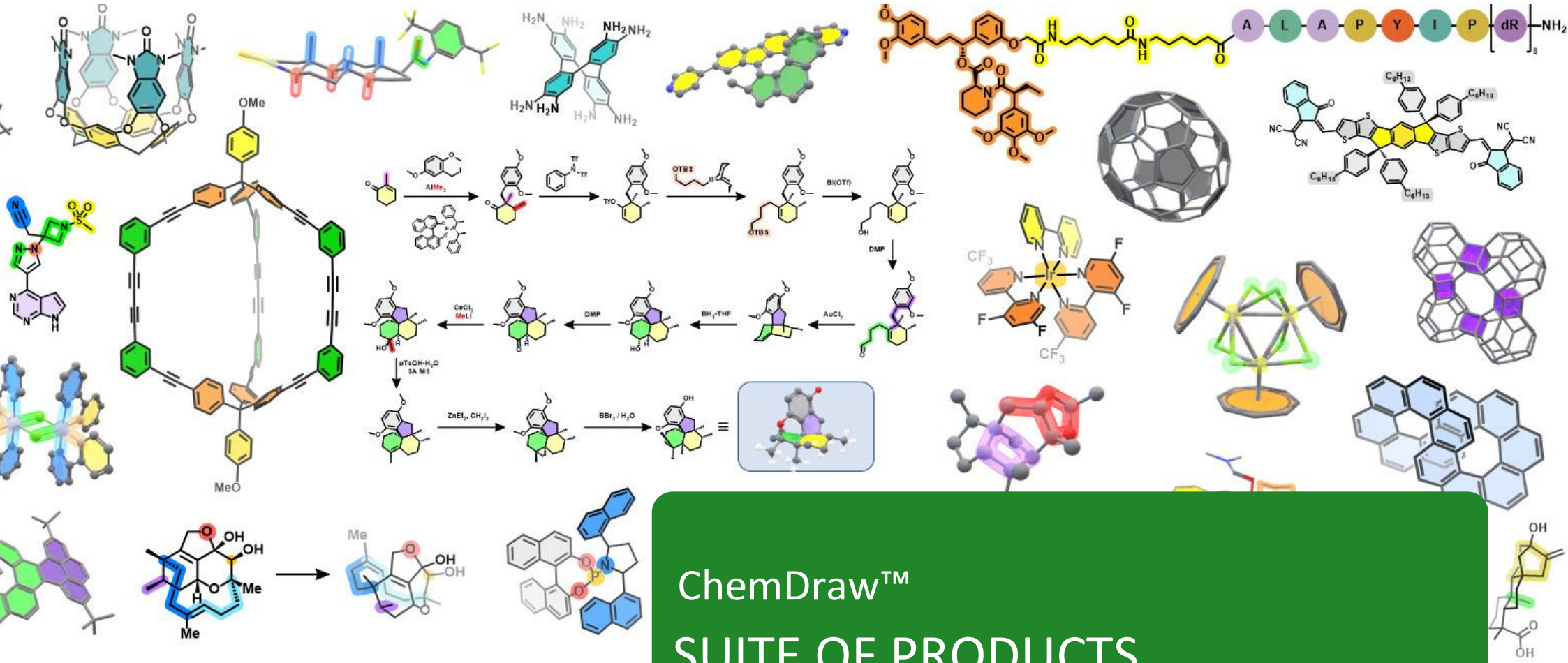
DATA SHEET

ChemDraw



ChemDraw™

SUITE OF PRODUCTS

ChemDraw delivers streamlined desktop and cloud offerings. ***Signals ChemDraw*** *provides full access to ChemDraw desktop applications, as well as* ***ChemDraw+****, the cloud-native web application integrated within the Signals ecosystem.*

40 Years of ChemDraw by revvity signals

NEW FEATURES	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Property calculations optimized for efficiency	Win/Mac	⬢	⬢	⬢
Stereochemical warning now shown when a stereo bond originates from a non-stereo atom	Win/Mac/Web	⬢	⬢	⬢
Improved biopolymer crosslink rendering	Win/Mac/Web		⬢	⬢
Hairpin sequences are now supported	Win/Mac/Web		⬢	⬢
Multiple complementary strands can now be connected to a single RNA/DNA sequence	Win/Mac/Web		⬢	⬢
ChemScript now supports Python versions 3.14, 3.13, 3.12, 3.10, and 3.9	Win/Mac/Web		⬢	⬢
Installer checksums accessible from the 'ChemDraw Installers' tile in the Signals Home portal	Win/Mac/Web			⬢
Notebook & Drawing descriptions are now available & editable in the application	Web			⬢
Context sensitive floating toolbars in the drawing editor	Web			⬢
Calculate LogP & pKa in the Analysis panel	Web			⬢
Turn on Atom Numbers for chemical objects	Web			⬢
Highlight coloring now available for chemical objects	Web			⬢
HELM editor now supports monomer structure searching	Web			⬢
Generate hairpins from a single oligonucleotide	Web			⬢
Generate hairpins with pendant linkers or peptides	Web			⬢
Preserve user-defined hydrogen bonds when auto-pairing oligonucleotides	Web			⬢
Auto-pair selected oligonucleotide fragments	Web			⬢
Import options have expanded to accept MOL, SD, RXN & RD files	Web			⬢
Export options have expanded to support MOL, SD & RXN files	Web			⬢
Drag & Drop support for RXN, SD & RD files in the ChemDraw editor	Web			⬢
Add drawing to a notebook from its detail page	Web			⬢
Copy drawings into a notebook	Web			⬢
Rename notebooks directly from the breadcrumb	Web			⬢
WCAG 2.1 AA compliance: improved color contrast, focus states, and navigation cues	Web			⬢
WCAG 2.1 AA compliance: keyboard support across navigation, toolbars, and popovers	Web			⬢
WCAG 2.1 AA compliance: enhanced screen reader support	Web			⬢
WCAG 2.1 AA compliance: improved form accessibility, error messaging, and autocomplete	Web			⬢
WCAG 2.1 AA compliance: updated zoom, reflow, session timeout, and login page accessibility	Web			⬢

Efficient and Intuitive Drawing Experience	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Customizable drawing settings	Win/Mac/Web	⬢	⬢	⬢
Chemical bonds tools	Win/Mac/Web	⬢	⬢	⬢
Chemical rings tools	Win/Mac/Web	⬢	⬢	⬢
Text tool	Win/Mac/Web	⬢	⬢	⬢
Object alignment Tools	Win/Mac/Web	⬢	⬢	⬢
Clear visual on selected atoms, bonds and structures	Win/Mac/Web	⬢	⬢	⬢
Join and merge chemical structures	Win/Mac/Web	⬢	⬢	⬢
Smart copy/paste (SMILES, InChI, HELM)	Win/Mac/Web	⬢	⬢	⬢
Smart paste (no overlapping on paste actions)	Win/Mac/Web	⬢	⬢	⬢
Shortcuts	Win/Mac/Web	⬢	⬢	⬢
Magic hotkeys	Win/Mac/Web	⬢	⬢	⬢
Rotate 180 degrees vertically and horizontally	Win/Mac/Web	⬢	⬢	⬢
Expand/contract labels	Win/Mac/Web	⬢	⬢	⬢
Chemical structures templates	Win/Mac/Web	⬢	⬢	⬢
Reaction mapping	Win/Mac/Web	⬢	⬢	⬢
Multicenter Attachments	Win/Mac/Web	⬢	⬢	⬢
Generic Structures with Atom Lists	Win/Mac/Web	⬢	⬢	⬢
Generic Structures with Variable Attachments	Win/Mac/Web	⬢	⬢	⬢
Generic Structures with Label Repeating Units	Win/Mac/Web	⬢	⬢	⬢
Generic Structures with Polymer Repeating Units	Win/Mac/Web	⬢	⬢	⬢
Generic Structures with R-group Table	Win/Mac/Web		⬢	⬢
Generic Structure Enumeration	Win/Mac	⬢	⬢	⬢
Shapes tool	Win/Mac/Web	⬢	⬢	⬢
Laboratory equipment templates	Win/Mac/Web	⬢	⬢	⬢
Select atom from periodic table tool	Win/Mac/Web	⬢	⬢	⬢
Zoom and scrolling	Win/Mac/Web	⬢	⬢	⬢

Create new drawing from a style sheet	Win/Mac/Web			⬢
Save ChemDraw style sheet	Win/Mac	⬢	⬢	⬢
Define/use nicknames	Win/Mac	⬢	⬢	⬢
Pen tools	Win/Mac	⬢	⬢	⬢
Upload multiple files	Web			⬢
Panning	Web			⬢
Dashboard view with recent & favorite drawings	Web			⬢
List view of drawings and favorites	Web			⬢
List view of notebook	Web			⬢
Trash & untrash drawings	Web			⬢
Edit drawings in ChemDraw desktop	Web			⬢
Duplicate a drawing	Web			⬢
Rename a drawing	Web			⬢
Notebook & Drawing descriptions	Web			⬢
Round Trip editing to ChemDraw desktop	Web			⬢
Favorite a drawing	Web			⬢
Drag & Drop support for CDX, CDXML, MOL, SD, RXN & RD files in the ChemDraw editor	Web			⬢
Context sensitive floating toolbars in the drawing editor	Web			⬢
Create list of atoms from periodic table tool	Web			⬢
Add Favorite monomers (peptides, DNA/RNA, Chem, Blob)	Web			⬢
Search & filter monomer libraries	Web			⬢

Web Accessibility - Towards WCAG 2.1 AA Compliance	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Improved color contrast, focus states, and navigation cues	Web			⬢
Expanded keyboard support across navigation, toolbars, and popovers	Web			⬢
Enhanced screen reader support with better labels, headings, link text, and dialog names	Web			⬢
Improved form accessibility, error messaging, and autocomplete behavior	Web			⬢
Updated zoom, reflow, session timeout, and login page accessibility	Web			⬢

Communication that Stands Out	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Structure clean-up	Win/Mac/Web	⬢	⬢	⬢
Reaction clean-up	Win/Mac/Web	⬢	⬢	⬢
Dark Mode Style Sheet	Win/Mac/Web	⬢	⬢	⬢
Chemical object coloring	Win/Mac/Web	⬢	⬢	⬢
3D perspective tool	Win/Mac/Web	⬢	⬢	⬢
3D clean-up & perspective tools	Win/Mac/Web		⬢	⬢
HELM cartoon representation	Win/Mac/Web		⬢	⬢
Biopolymer clean-up	Win/Mac/Web		⬢	⬢
Ring-fill coloring	Win/Mac/Web		⬢	⬢
Atom/bond color highlighting	Win/Mac/Web		⬢	⬢
Hydrogen bonding in 3D cleanup	Win/Mac		⬢	⬢
BioDraw toolbar	Win/Mac		⬢	⬢
Atom/bond color highlight & ring fill transfer to 3MF	Win/Mac			⬢
Hydrogen bonding support in 3MF	Win/Mac			⬢

Accurate Chemical Representation	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Arrow Tool	Win/Mac/Web	⬢	⬢	⬢
Brackets Tool	Win/Mac/Web	⬢	⬢	⬢
Hydrogen Bond Tool	Win/Mac/Web	⬢	⬢	⬢
Chemical Polymers Tools	Win/Mac/Web	⬢	⬢	⬢
Parametrizable bracket for polymers supports average MW	Win/Mac/Web	⬢	⬢	⬢
Show stereochemistry	Win/Mac/Web	⬢	⬢	⬢
Relative stereochemistry (ISIS compatibility)	Win/Mac/Web	⬢	⬢	⬢
Atropisomer perception	Win/Mac/Web	⬢	⬢	⬢
M & P stereochemistry for allenes and atropisomers	Win/Mac/Web	⬢	⬢	⬢

Chemical warnings flag errors on valence, charge, invalid isotope, invalid stereo bond	Win/Mac/Web	⬢	⬢	⬢
Insertion of chemical symbols	Win/Mac/Web	⬢	⬢	⬢
Aromatic cycle display toggle and preferences	Win/Mac	⬢	⬢	⬢
Orbitals tool	Win/Mac	⬢	⬢	⬢
Ignore top level chiral flag	Win/Mac	⬢	⬢	⬢
Enhanced stereochemistry support	Win/Mac/Web		⬢	⬢
Enhanced stereochemical annotation tool	Web			⬢

Accurate Biopolymer Representation	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Add new monomer to custom HELM libraries	Win/Mac/Web		⬢	⬢
Support for ambiguous FASTA/HELM Monomers	Win/Mac/Web		⬢	⬢
HELM Monomer Versioning Support	Win/Mac/Web		⬢	⬢
Copy Biopolymers 'as FASTA' (natural analogs)	Win/Mac/Web		⬢	⬢
Paste FASTA sequences	Win/Mac/Web		⬢	⬢
Insert Monomers to the Right or Left in a sequence	Win/Mac/Web		⬢	⬢
Replace a monomer in a sequence	Win/Mac/Web		⬢	⬢
Bulk Selection of monomers	Win/Mac/Web		⬢	⬢
Search, found and replace monomers when editing biopolymers	Win/Mac/Web		⬢	⬢
Biopolymer crosslinks	Win/Mac/Web		⬢	⬢
Browse & Inspect monomer libraries	Win/Mac/Web		⬢	⬢
Hydrogen-bonded fragments are treated as a single structure	Win/Mac/Web		⬢	⬢
HELM in-line annotation support for monomers and polymers	Win/Mac/Web			⬢
Atom-mapped SMILES supported in HELM strings for copy/paste	Win/Mac/Web			⬢
Insert FASTA Peptide sequence with definition line into a drawing	Win/Mac/Web			⬢
Drawing hydrogen bonds between complementary strands with non-natural nucleobases	Win/Mac/Web			⬢
Draw with centralized monomer libraries from Pistoia Alliance & Signals	Win/Mac/Web			⬢
Draw with centralized custom monomer libraries	Win/Mac/Web			⬢
Shared HELM Libraries	Win/Mac/Web			⬢

Deprecate/restore monomers	Web			⬢
Bulk import custom monomer libraries	Web			⬢
Bulk import reports	Web			⬢
BILN support for peptides	Web			⬢
HELM editing & navigation	Web			⬢
HELM hotkeys for editing biopolymers	Web			⬢
Monomer structure searching in HELM editor	Web			⬢
Drawing hydrogen bonds between complementary strands	Web			⬢
Generate complementary strand tool	Web			⬢
Complimentary strand generation from Text Tab with Hydrogen bonding	Web			⬢
HELM Auto-pair tool	Web			⬢
Auto-pair selected oligonucleotide fragments	Web			⬢
Preserve user-defined hydrogen bonds when auto-pairing oligonucleotides	Web			⬢
Connecting multiple complementary strands to a single RNA/DNA sequence	Win/Mac/Web		⬢	⬢
Hairpin structure representation	Win/Mac/Web		⬢	⬢
Generate hairpins from a single oligonucleotide	Web			⬢
Generate hairpins with pendant linkers or peptides	Web			⬢
Show 3' and 5' ends of oligonucleotides	Web			⬢
Sense & antisense annotations on oligonucleotides	Web			⬢
Insert HELM or FASTA string using the Text Tab	Web			⬢

Chemical Intelligence	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Analyze/check structures	Win/Mac/Web	⬢	⬢	⬢
Reaction interpretation	Win/Mac/Web	⬢	⬢	⬢
Calculate MW	Win/Mac/Web	⬢	⬢	⬢
Calculate exact mass	Win/Mac/Web	⬢	⬢	⬢
Calculate chemical formula	Win/Mac/Web	⬢	⬢	⬢
Calculate elemental analysis	Win/Mac/Web	⬢	⬢	⬢

Calculate m/z	Win/Mac/Web	●	●	●
Mass fragmentation Tools	Win/Mac/Web	●	●	●
Thin layer chromatography tool	Win/Mac	●	●	●
Gel electrophoresis tool	Win/Mac	●	●	●
tPSA	Win/Mac	●	●	●
pKa / Log S	Win	●	●	●
LogP and Molar Refractivity (MR) calculations	Win/Mac	●	●	●
cLogP	Win		●	●
LogP and predicted pKas in the Analysis panel	Web			●
Predict ^{1}H NMR	Win/Mac		●	●
Predict ^{13}C NMR	Win/Mac		●	●
Reaction stoichiometry grid	Win/Mac		●	●
Name-to-structure / structure-to-name conversion	Win/Mac/Web		●	●

Find, Manage & Reuse Chemical Drawings	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Browse & Drill-down into ChemDraw Files (.cdx, .cdxml)	Win/Mac			●
Browse & Drill-down ChemDraw Files embedded in MS Word	Win/Mac			●
Browse & Drill-down ChemDraw Files embedded in MS PowerPoint	Win/Mac			●
Browse ChemDraw For Excel Files	Win			●
Structure-searching inside Cloud-hosted MS Office documents	Win/Mac			●
Searching across Signals Notebook Experiments	Win/Mac			●
Browse .mol & .sdf Files	Win/Mac			●
Copy Embedded Chemical Structures to the Clipboard	Win/Mac			●
Create Collection of Chemical Structures	Win/Mac			●
Create Collection of Reactions from Signals Notebook Experiments	Win/Mac			●
Create a collection from .csv files	Win/Mac			●
Create collection from SMILES text file	Win/Mac			●
Adding Properties to Collections	Win/Mac			●

Editing Properties of Collections	Win/Mac			●
Saving Collection Layout as a Template	Win/Mac			●
Batch-Editing of Multiple Chemical Structures in Collections	Win/Mac			●
Create PowerPoint Reaction Report Slide from Signals Notebook Experiments	Win/Mac			●
Create PowerPoint Molecule Report Slide from Collection	Win/Mac			●
Export Collections to SD Files (v2000, v3000)	Win/Mac			●
Add Notebook	Web			●
Trashing & Restoring Notebooks	Web			●
File organization with Notebooks & Favorites	Web			●

Integration with Scientific Resources	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
CAS-RN-to-structure from ChemACX.com	Win/Mac		●	●
Name-to-structure from ChemACX.com	Win/Mac/Web		●	●
Search CAS SciFinder®	Win/Mac		●	●
Search Elsevier Reaxys™	Win/Mac		●	●
ChemACX Explorer	Win/Mac			●
Google Patents/Scholar Add-in	Win/Mac			●
PubChem GHS Safety Add-in	Win/Mac			●
ChemDraw Add-ins SDK	Win/Mac			●
ChemDraw Add-ins Dynamic Download	Win/Mac			●
Save to Signals	Win/Mac/Web			●
Open from Signals	Win/Mac/Web			●
Launch Signals applications	Win/Mac/Web			●

Chemistry Without Borders	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Read and Save as ChemDraw .cdx / .cdxml Files	Win/Mac/Web	●	●	●
Read and Save as ISIS Sketch .skc Files	Win/Mac	●	●	●
Read and Save as MDL .mol Files (V2000, V3000)	Win/Mac/Web	●	●	●
Read and Save as MDL .sdf Files (V2000, V3000)	Win/Mac/Web	●	●	●
Read and Save as ISIS Reaction .rxn Files (V2000, V3000)	Win/Mac/Web	●	●	●
Read and Save as MDL .rdf Files (V2000, V3000)	Win/Mac	●	●	●
Import MDL .rdf Files	Web			●
Read Crystallographic Information Files (CIF)	Win/Mac	●	●	●
Save as image GIF, JPEG, BMP, PNG, TIFF	Win/Mac	●	●	●
Save as Scalable Vector Graphics (SVG)	Win/Mac	●	●	●
Save as Encapsulated Post Script (EPS)	Win/Mac	●	●	●
Copy/Paste as CDXML	Win/Mac/Web	●	●	●
Copy/Paste as MOL / MOL V2000 / MOL V3000	Win/Mac/Web	●	●	●
Copy/Paste as MOL V3000 expanded	Web			●
Copy/Paste as SMILES	Win/Mac/Web	●	●	●
Copy/Paste as SYBYL (SLN)	Win/Mac/Web	●	●	●
Copy/Paste as InChI, Copy as InChIKey	Win/Mac/Web	●	●	●
Copy ChemDraw Structures as OLE Object	Win	●	●	●
Insert OLE Object in ChemDraw	Win	●	●	●
Copy/Paste as HELM	Win/Mac/Web		●	●
Copy/Paste as FASTA Peptide	Win/Mac/Web		●	●
Copy/Paste as FASTA DNA/RNA	Win/Mac/Web		●	●
View .sdf Files properties	Win/Mac			●
Copy as 3D-printable Object (.3MF)	Win/Mac			●
Save as 3D-printable object (.3MF)	Win/Mac			●

Benefits of SaaS for Users and IT	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
License Management & Authentication via Signals	Win/Mac/Web			⬢
Automatic Updates	Win/Mac/Web			⬢
Secured access anytime, anywhere from a web browser	Web			⬢
Scalability and Cost efficiency	Web			⬢
Maintenance by service provider	Web			⬢

Applications	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
ChemDraw Desktop	Win/Mac	⬢	⬢	⬢
ChemDraw+	Web			⬢
Dashboard	Web			⬢
View recents & favorites	Web			⬢
Create a new drawing from a style sheet	Web			⬢
Filter drawings by 'created by'	Web			⬢
File organization with Notebooks & Favorites	Web			⬢
List Views	Web			⬢
Drawings	Web			⬢
Notebooks	Web			⬢
Favorites	Web			⬢
Trash & Untrash Drawings	Web			⬢
Edit Drawings in a ChemDraw web editor	Web			⬢
Duplicate a drawing	Web			⬢
Rename a drawing	Web			⬢
Download cdxml drawing	Web			⬢
Round trip editing to ChemDraw desktop	Web			⬢
Favorite a drawing	Web			⬢
Draw biopolymer sequences using ChemDraw+ HELM editor	Web			⬢

Draw with centralized monomer libraries from Pistoia Alliance & Signals	Web		●
Draw with centralized custom monomer libraries	Web		●
Add Favorite monomers (peptides, RNA/DNA, Chem, Blob)	Web		●
Insert HELM or FASTA string using the Text Tab	Web		●
Filter libraries using text based search & peptide filters	Web		●
Insert monomers to the right or left in a sequence	Web		●
Replace a monomer in a sequence	Web		●
ChemDraw for Excel	Win	●	●
CombiChem for Excel	Win	●	●
Name-to-Structure / Structure-to-Name for ChemDraw for Excel	Win	●	●
ClogP/CMR for ChemDraw for Excel	Win	●	●
Molecular Networks (pKa/Log P/Log S) for ChemDraw for Excel	Win	●	●
Molecular Topology for Chem Draw for Excel	Win	●	●
ChemProp Std Properties for Chem Draw for Excel	Win	●	●
ChemProp Pro Properties for ChemDraw for Excel/Chem3D	Win		●
Chem3D Professional	Win	●	●
ClogP/CMR for ChemDraw for Chem3D	Win	●	●
Molecular Networks (pKa/Log P/Log S) for ChemDraw for Chem 3D	Win	●	●
Molecular Topology for Chem Draw for Chem 3D	Win	●	●
ChemProp Std Properties for Chem Draw for Chem 3D	Win	●	●
Chem3D Ultra	Win		●
Chem3D Interface to CONFLEX	Win		●
Chem3D Interface to Autodock	Win		●
Chem3D Interface to GAMESS 2020	Win		●
Chem3D Interface to Gaussian 16W	Win		●
Chem3D Interface to MOPAC 2016	Win		●
ChemProp Pro Properties for ChemDraw for Chem3D	Win		●
ChemFinder Standard	Win	●	●
ChemFinder Ultra	Win		●

ChemFinder for Oracle	Win		⬢
Explorer Window View in ChemFinder Ultra	Win		⬢
BioViz in ChemFinder Ultra	Win		⬢
Compound Profiles in ChemFinder Ultra	Win		⬢
Clustering in ChemFinder Ultra	Win		⬢
Combine ChemFinder Query Hit Lists	Win		⬢
ChemFinder Exports to MS Word/Excel	Win		⬢
ChemScript	Win	⬢	⬢

All features available from the web platform are accessible within **ChemDraw+**, the web application that powers **Signals ChemDraw.**

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