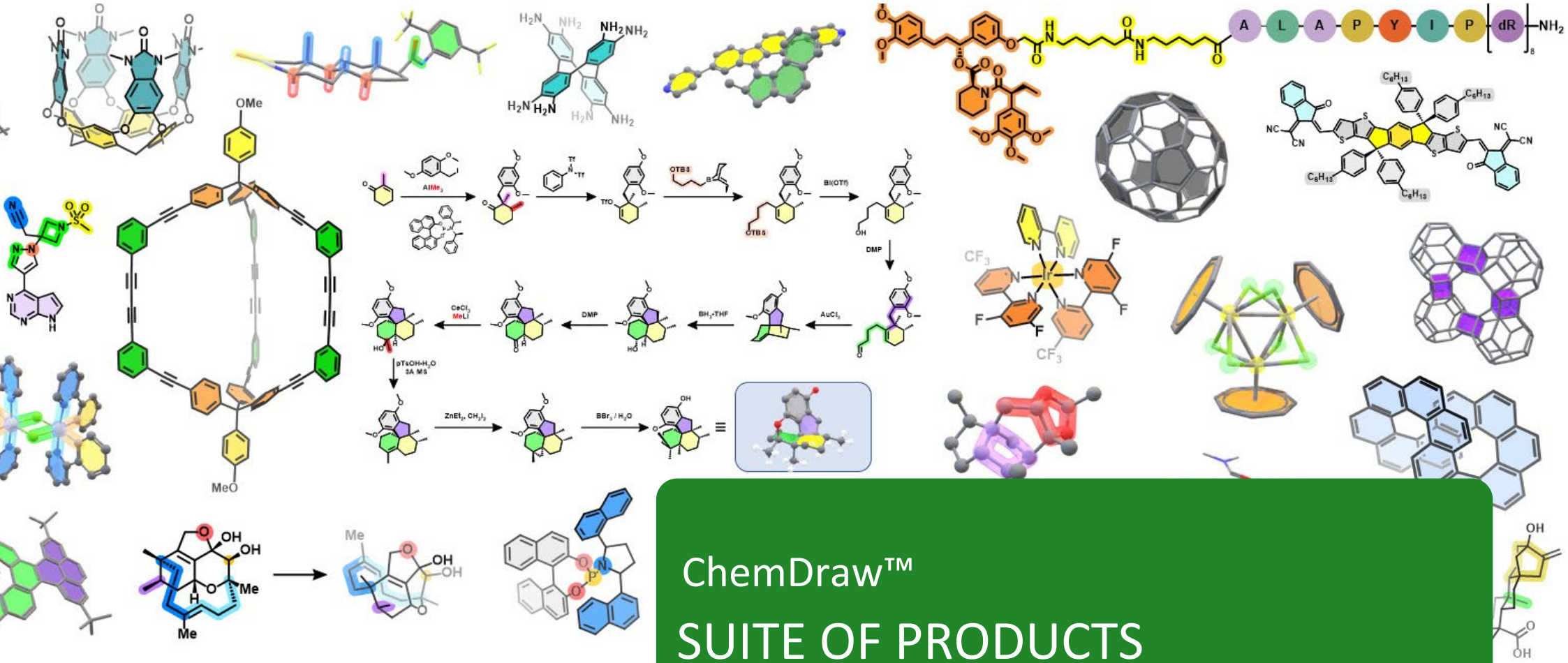
DATA SHEET

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
LogP and Molar Refractivity (MR) calculations now powered by RDKit	Win/Mac	⬢	⬢	⬢
Property calculations optimized for efficiency	Win/Mac	⬢	⬢	⬢
Improved biopolymer clean-up of complementary strands	Win/Mac/Web		⬢	⬢
Improved sequence selection behavior with double and triple click	Win/Mac/Web		⬢	⬢
Copy As HELM (natural analog)' updated to 'Copy as FASTA'	Win/Mac/Web		⬢	⬢
ChemScript now supports Python versions 3.13.x, 3.10.x, and 3.9.x	Win/Mac		⬢	⬢
Visual clarification of selection for atoms, bonds and structures	Web			⬢
Attach Data can now be added as chemically significant	Web			⬢
Name-to-Structure capability expanded to use ChemACX	Web			⬢
Periodic table tool now available, with the ability to create atom lists	Web			⬢
Chemical objects can now be copied as ‘MolV3000 (Expanded)’	Web			⬢
Chemical Object colors can now be changed	Web			⬢
Ring Fill coloring can now be applied	Web			⬢
Mass Fragmentation tool now available	Web			⬢
Alignment tools now available	Web			⬢
Drawing of individual RNA/DNA monomers when editing biopolymers is now possible	Web			⬢
Hydrogen bonded fragments are now treated as a single structure	Web			⬢
Monomers can now be selected in bulk for replacement	Web			⬢
Monomers can now be searched for, found and replaced when editing biopolymers	Web			⬢
Copy As HELM (natural analog)' updated to 'Copy as FASTA'	Web			⬢
Drawing settings are now customizable in ChemDraw+	Web			⬢
Basic chemical properties are available in the Analysis panel and can be pasted onto the canvas	Web			⬢
“Created by” filter now available on the Dashboard	Web			⬢
Drawings can be exported as molfiles and sdfiles (V3000)	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	●	●	●
Pen tools	Win/Mac	●	●	●
Shapes tool	Win/Mac/Web	●	●	●
Laboratory equipment templates	Win/Mac/Web	●	●	●
Save ChemDraw style sheet	Win/Mac	●	●	●
Define/use nicknames	Win/Mac	●	●	●

Select atom from periodic table tool	Win/Mac/Web	⬢	⬢	⬢
Create list of atoms from periodic table tool	Web			⬢
Zoom and scrolling	Win/Mac/Web	⬢	⬢	⬢
Create new drawing from a style sheet	Win/Mac/Web			⬢
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			⬢
Round Trip editing to ChemDraw desktop	Web			⬢
Favorite a drawing	Web			⬢
Add Favorite monomers (peptides, DNA/RNA, Chem, Blob)	Web			⬢
Search & filter monomer libraries	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	●	●	●
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		●
Drawing hydrogen bonds between complementary strands	Web		●
Complimentary strand generation from Text Tab with Hydrogen bonding	Web		●
Generate complementary strand tool	Web		●
HELM Auto-pair tool	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		⬢	⬢
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 Reaction .rxn Files (V2000, V3000)	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 MDL .rdf Files (V2000, V3000)	Win/Mac	●	●	●
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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