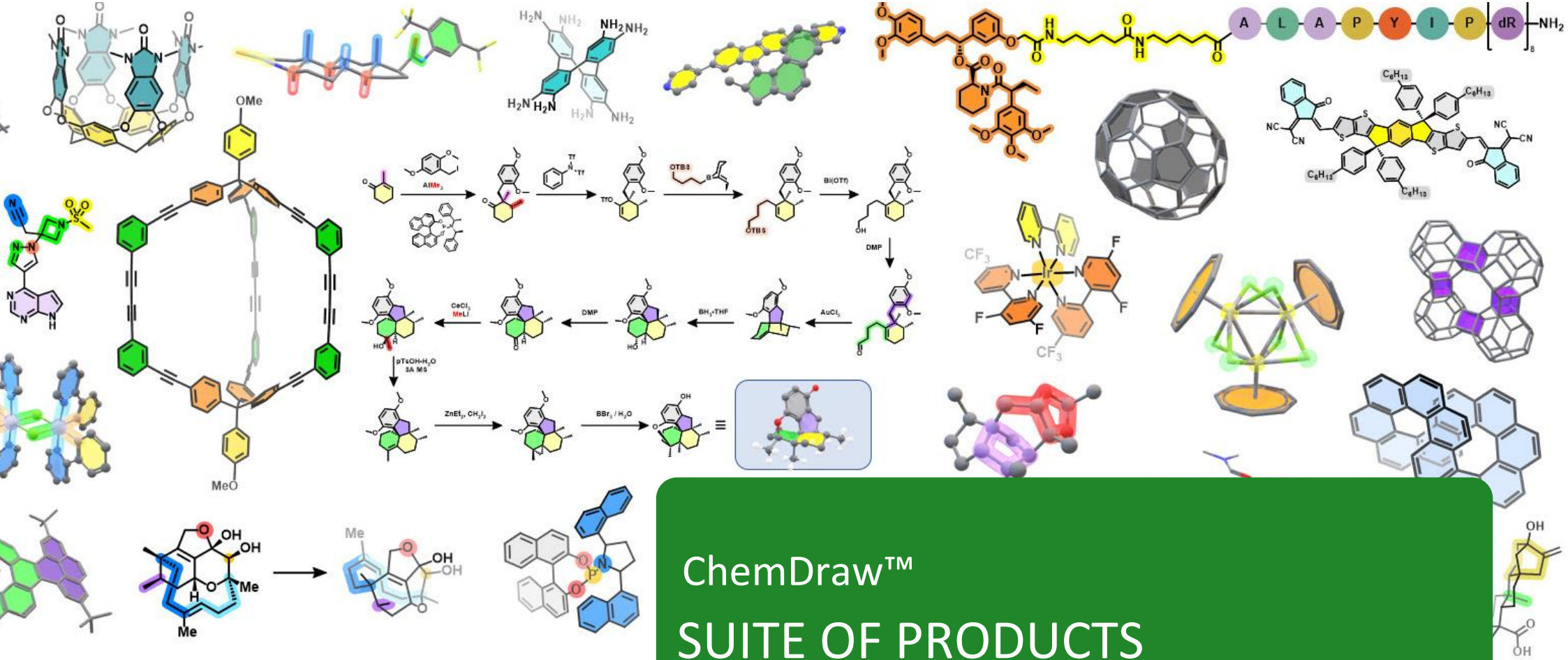
DATA SHEET

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
ChemDraw now supports ARM and Intel Macs processors	Mac	⬢	⬢	⬢
Coordination bonds now behave like dative bonds in chemical perception	Win/Mac/web	⬢	⬢	⬢
Stereo allenes and atropisomers now labeled with M & P stereochemistry (instead of R & S)	Win/Mac/web	⬢	⬢	⬢
New Biopolymer document setting: remove line wrapping in biopolymer sequences	Win/Mac/web		⬢	⬢
Insert FASTA Peptide sequence with definition line into a drawing	Win/Mac/web			⬢
Improved visualization and clean-up of biopolymers	Win/Mac/web			⬢
HELM in-line annotation support for monomers and polymers	Win/Mac/web			⬢
Biopolymer connections now appear curved instead of sharp corners	Win/Mac/web			⬢
Atom-mapped SMILES now supported in HELM strings for copy/paste	Win/Mac/web			⬢
Drawing hydrogen bonds between complementary strands with non-natural nucleobases	Win/Mac/web			⬢
Complementary strands inserted to canvas in a single line with no line wraps	web			⬢
HELM Editing & Navigation Improvements	web			⬢
BILN support for peptides	web			⬢
HELM hotkeys for editing biopolymers	web			⬢
Usability improvements when working with HELM biopolymer structures	web			⬢
Refined Cursor display for drawing & editing HELM biopolymer structures	web			⬢
Added support for pasting FASTA DNA/RNA sequences	web			⬢
Drawing hydrogen bonds between complementary strands	web			⬢
Complimentary strand generation from Text Tab with Hydrogen bonding	web			⬢
Complementary strands generated from text tab now contain hydrogen bonds	web			⬢
Generate complementary strand tool	web			⬢
HELM Auto-pair tool	web			⬢
Show 3' and 5' ends of oligonucleotides	web			⬢
Sense & antisense annotations now available on oligonucleotide biopolymers	web			⬢
Selection of attachment points between monomers to create biopolymer crosslinks	web			⬢
New ChemDraw editor for HELM monomer curation	web			⬢
Add new monomer to customer HELM libraries	web			⬢

Enhanced Stereochemical annotation tool	web	●
3D Clean-up & perspective tools	web	●
Properties & Query Panels	web	●
Zoom, scrolling and panning	web	●
Rotate 180 degrees vertically and horizontally	web	●
Chemical Symbols	web	●
Join tool	web	●
New ChemDraw web editor	web	●
Expanded User Menu	web	●
Upload Multiple Files	web	●
Creation of Notebook	web	●
Sharing of Notebooks & Drawings	web	●
Trashing & Restoring Notebooks	web	●
Notifications (in app and email preferences)	web	●
Structure-based searching	web	●

Efficient and Intuitive Drawing Experience	Platform	ChemDraw Prime	ChemDraw Professional	Signals ChemDraw
Chemical Bonds Tools	Win/Mac/web	●	●	●
Chemical Rings Tools	Win/Mac/web	●	●	●
Text Tool	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	⬢	⬢	⬢
Atom List Generic Structures	Win/Mac/web	⬢	⬢	⬢
Variable Attachment Generic Structures	Win/Mac/web	⬢	⬢	⬢
Label Repeating Units Generic Structures	Win/Mac/web	⬢	⬢	⬢
Polymer Repeating Units Generic Structures	Win/Mac/web	⬢	⬢	⬢
Generic Structure Enumeration	Win/Mac	⬢	⬢	⬢
Pen Tools	Win/Mac	⬢	⬢	⬢
Shapes Tool	Win/Mac	⬢	⬢	⬢
Laboratory Equipment Templates	Win/Mac	⬢	⬢	⬢
Reaction Interpretation	Win/Mac	⬢	⬢	⬢
Save ChemDraw Style Sheet	Win/Mac	⬢	⬢	⬢
Define/Use Nicknames	Win/Mac	⬢	⬢	⬢
R-Group Table Generic Structures	Win/Mac/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	⬢	⬢	⬢
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		⬢	⬢
Atom/Bond Color Highlighting	Win/Mac		⬢	⬢
Ring-Fill Coloring	Win/Mac		⬢	⬢
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		⬢	⬢
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		⬢	⬢
Biopolymer crosslinks	Win/Mac/web		⬢	⬢
Browse & Inspect Monomer Libraries	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	●	●	●
Calculate MW	Win/Mac	●	●	●
Calculate Exact Mass	Win/Mac	●	●	●
Calculate Chemical Formula	Win/Mac	●	●	●
Calculate Elemental Analysis	Win/Mac	●	●	●
Calculate m/z	Win/Mac	●	●	●
Mass Fragmentation Tools	Win/Mac	●	●	●
Thin Layer Chromatography Tool	Win/Mac	●	●	●
Gel Electrophoresis Tool	Win/Mac	●	●	●
tPSA	Win/Mac	●	●	●
pKa / Log P / Log S	Win	●	●	●
cLogP	Win/Mac		●	●
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		⬢	⬢
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	●	●	●
Read and Save as ISIS Reaction .rxn Files (v2000, v3000)	Win/Mac	●	●	●
Read and Save as ISIS Sketch .skc Files	Win/Mac	●	●	●
Read and Save as MDL .mol Files (v2000, v3000)	Win/Mac	●	●	●
Read and Save as MDL .sdf Files (v2000, v3000)	Win/Mac	●	●	●
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	●	●	●
Copy/Paste as Mol File / Mol3000	Win/Mac	●	●	●
Copy/Paste as SMILES	Win/Mac	●	●	●
Copy/Paste as SYBYL (SLN)	Win/Mac	●	●	●
Copy/Paste as InChI	Win/Mac	●	●	●
Copy ChemDraw Structures as OLE Object	Win	●	●	●
Insert OLE Object in ChemDraw	Win	●	●	●

Copy/Paste as HELM	Win/Mac		●	●
Copy/Paste as FASTA Peptide	Win/Mac		●	●
Copy/Paste as FASTA DNA/RNA	Win/Mac		●	●
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+	web			●
Dashboard	web			●
View Recents & Favorites	web			●
Create a new Drawing from a Style Sheet	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		●

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

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