ChemOffice Professional® offers a broad suite of industry-leading, scientifically intelligent productivity tools that help researchers transform their workflows. Built off of the industry leading chemical drawing application ChemDraw, ChemOffice brings the tools a researcher needs to conduct their science. From 3D structures to predicted and experimental spectral results, cloud based sketching capabilities and access to a modern cloud based documentation and scientific collaboration platform, ChemOffice Professional empowers chemists and biologists alike to visualize and capture their research, efficiently keep track of their work, and gain a deeper understanding of their results and make decisions with greater confidence.

**Highlights**

- Create Publication-Ready Drawings Effortlessly with the industry leading ChemDraw application
- Document, store, retrieve and share your experimental records with access to PerkinElmer Signals™ Notebook, a modern, web based Scientific collaboration platform
- Load and process 1D NMR and LC/GC/MS data directly on your desktop with Mnova ChemDraw Edition
- Predict and analyze the 3 dimensional structure, including ligand/receptor binding, and utilize your favorite 3rd party tools such as GAMESS, MOPAC, Gaussian and Conflex, with Chem3D Ultra
- Store, access and edit your structures and reaction schemes wherever you are with ChemDraw Cloud

**Create Publication-Ready Drawings Effortlessly**

- Create structures and reactions effortlessly, consistent with IUPAC, FDA and publication standards
- Convert names into structures, and visa-versa including accessing extensive libraries of popular pharmaceutical compounds and commercially available compounds from ChemACX
- Quickly import, create, edit and share complex biomolecules using the HELM toolbar, including import/export using the HELM notation format developed by the Pistioa Alliance
- No Mouse Needed! Create your structures and reactions as fast as you can type with Enhanced hotkeys
- Draw biological pathways, including GPCRs, ligand receptors, DNA, lipid bilayers and antibodies using BioDraw
- Use advanced clean-up tools for molecules, reactions and biopolymers to create attractive and accurate diagrams
- Ensure that papers are publication-ready with pre-stored publication format guidelines for the major chemical and scientific journals
- Import/Export using common standards such as SMILES, Mol, SDFile, InChI, HELM, FASTA and CDXML

![Figure 1: Reaction Interpretation in PerkinElmer Signals™ Notebook for ChemDraw.](image1)

![Figure 2: Prediction of spectral and structural properties via ChemNMR and Chem3D.](image2)
Document, Store, Retrieve and Share your Science

- Create, manage and share experiments and notebooks with your colleagues, with access to the new scientific collaboration platform, to PerkinElmer Signals™ Notebook
- Draw reaction schemes using a web enabled ChemDraw sketcher, the stoichiometry is calculated for you
- Add data from any source, of any type, from any browser
- Free text and chemical search and query help you find your data, whenever, wherever
- A cloud based solution means no installation, seamless upgrades, no migrations – no overhead

Analyze and Explore Your Reactions

- Identify similar reactions from the public literature with integration with SciFinder (Additional SciFinder license required)
- Perform enhanced retrosynthesis analyses on molecules to identify the reactions that are required to create a bond or set of bonds emanating from a single atom
- Easily manage the numbering of your molecules with dynamic Reaction Auto-numbering
- Automatically calculate, track and update stoichiometry data for chemical reactions

Predict and Calculate Efficiently and Accurately – Every Time

- Predict and calculate values for physiochemical properties important for bioavailability and stability, such as mp, bp, cLogP, pKa, LogD, and LogS
- Predict 1H and 13C 1D NMR spectra, including varying solvent and frequency, update with your own experimental data to improve the predictivity
- Explore the 3D shape and properties of compounds with the Chem3D® molecular modeling and protein visualization tool
- Add chemical intelligence to Microsoft® Excel® spreadsheets. Build and manipulate chemical structures, compute chemical properties and use structure and substructure searches to locate and group compounds
- Extend and explore with the use of ChemScript and Python programming capabilities

Access ChemDraw, Wherever you are

- Store, retrieve and edit your ChemDraw documents on the go, using ChemDraw Cloud
- Web based ChemDraw sketcher allows access from any device
- All documents are stored, encrypted, and backed-up securely on ChemDraw Cloud servers
- Integration between ChemDraw and ChemDraw Cloud allows you to keep working while you are on the move

Figure 3: Create novel, complex biopolymers with the new HELM editor.