

Model ChemLab Academic Pro, Hybrid CD

Customize lab procedures, apparatus, and chemicals to run experiments in this virtual laboratory.

Product Features

Extensive Laboratory Equipment Adds Realism	Perform Your Own Labs or Use the Pre-Designed Labs
Final Report/Observation Screen Records Experimental Data and Results	Teacher Editable Text Allows for Customized Questions and Procedures
Easy-to-Use Lab Interface Modeled on Common Lab Procedures	Student Lab Notebook Workspace Area
Lab Wizard tools (Professional Edition) for Easy User-Created Lab Simulations	Demonstration Mode Allows the User to Capture and Replay a Simulation
Integration with RasMol Molecular Viewer	Integrated Periodic Table Application with Quiz
Available in English, Spanish, and French	Real-Time Animated Interactive Simulation Engine

Grade Level

High School • College • University

Detailed Product Information:

A complete chemistry lab on your desktop computer.

This interactive resource simulates laboratory experiments by providing lab procedures, apparatus and chemicals to run experiments, with the ability to customize existing activities and include new ones using the Lab Wizard.

This is a unique product incorporates both an interactive simulation and a lab notebook workspace with separate areas for theory, procedures, and student observations. Step-through the actual lab procedure while interacting with animated equipment in a way that is similar to the real lab experience.

Lab Equipment:

Beakers, Erlenmeyer, and Florence flasks, test tubes, graduated cylinders, burets, watch glasses, filtering flask with buchner funnel, bunsen burner, hot plate and Magnetic stirrer, stirring rods, evaporation dish, calorimeter, conductivity meter, potentiometer, and others.

Balances: centigram, electronic and high sensitivity balance

Distillation equipment setup: distillation flask with heating mantel, distillation head, condenser, and distillation take-off

Common Lab Procedures:

- Titration, Decanting /pouring
- Heating and hot/cold water baths
- Temperature, weight, pH, conductivity, voltage and volume measurements
- Plot titration curves

Large selection of pre-defined labs simulations:

Acid/base reactions, cations reactions, electrochemistry, equilibrium, fractional crystallization, fractional distillation, gravimetric analysis, kinetics, redox reactions, stoichiometry, thermal chemistry, volumetric analysis, water quality, and many more.

Additional simulations developed by third parties (see UDL Library exchange)

Tangent Scientific

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Lab Wizards (Professional Edition):

- Allow users to create customized lab simulations
- Lab Wizard steps users through process of new lab creation
- Single distributable file
- Expandable chemical database allows users to add new chemicals to ChemLab

Lab Demonstration Mode:

- Capture lab simulations as you perform it and save in a demo file
- Add comments and other messages to demonstration file
- Single distributable demo file
- Playback demonstration files in both Professional and Standard editions of ChemLab

*System Requirements:***Windows:**

Windows 95/98/ME/XP/NT/2000
8MB RAM
VGA or higher

Macintosh:

Mac OS 7.0 or higher

List Price:

Model ChemLab Academic Pro, Single User, Hybrid CD
Item: 99218001 Price: \$135.00

Model ChemLab 5 Students, Hybrid CD
Item: 99212055 Price: \$140.00

Model ChemLab 10 Students, Hybrid CD
Item: 99218051 Price: \$225.00

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About Tangent

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Tangent Scientific accepts official purchase orders from recognized institutions. We require prepayment for individuals, home-schoolers, and businesses. You may place a purchase order with Tangent by e-mail, mail, fax, or telephone.

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At your request software can be previewed and evaluated before you commit to the purchase – just by calling 1-800-363-2908. Previews are full, complete versions of the program that are made available to interested educators for a trial period of 15 days without the need for an official purchase order. Call for further details!

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Technical Support:

For technical assistance please complete the Support Form on our webpage.

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