

# CHEMOTRON

---



LabChrom-2™ Chromatographic Datastation  
Data acquisition system for any chromatographic instrument

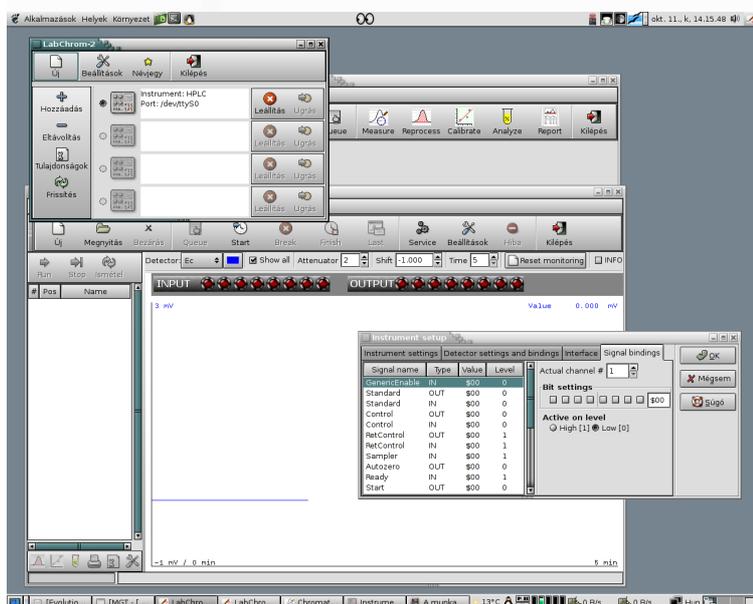
LabChrom™ Data Station is connectable to all type of chromatographic instruments as GC, LC, HPLC, amino acid analyser, capillar electrophoretic instrument, densitometer. It is possible to execute all the chromatographic data processing techniques, as integration, calibration, quantitative analysis, index computation, calculation of chromatographic parameters.

The LabChrom™ Data Station is more efficient, more economy than classic techniques as integrators or recorders.

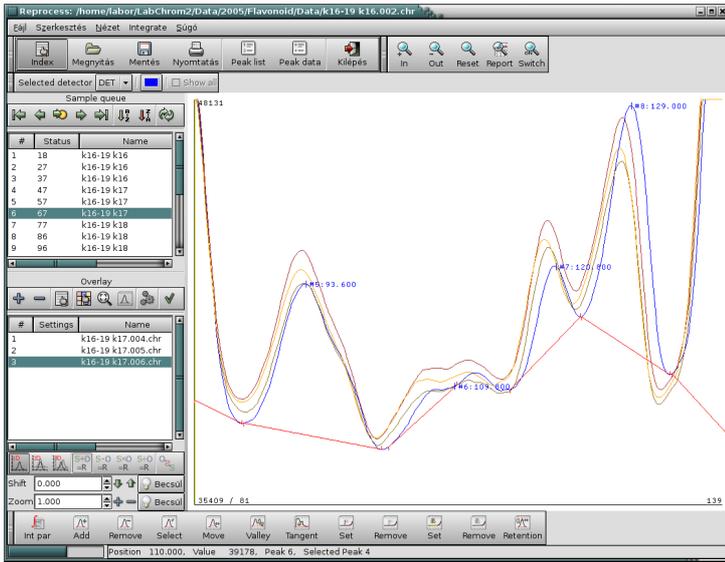
The LabChrom™ software uses a graphical user interface, combines high performance with ease of handling.

The main features of the software:

- Full control of the densitometer via RS232 interface
- Chromatographic data acquisition via RS232 interface
- Storing the chromatographic data
- Measuring sequence handling for autosamplers
- Automatic integration
- Manual baseline correction
- Calibration for quantitative analysis
- Printing user defined chromatographic reports
- Storing all parameters of data evaluation in method files



The LabChrom™ Chromatographic Data Station is a sophisticated, state of art data acquisition and processing system. It is installable to an IBM-PC compatible computer, contains analog/digital converter, digital interface board (over BASIC system), digital/analog interface (in CONTROL system) and chromatographic software.



After the instrument finished the measuring process, the chromatograms will be processed automatically based on the set integration parameters. You can modify the parameters or make manual baseline corrections using the Reprocess function of the LabChrom™. With the overlay function of the software, the comparison of two chromatograms easily executable on the screen.

The Calibration function of the software is used for the quantitative evaluation of the chromatograms.

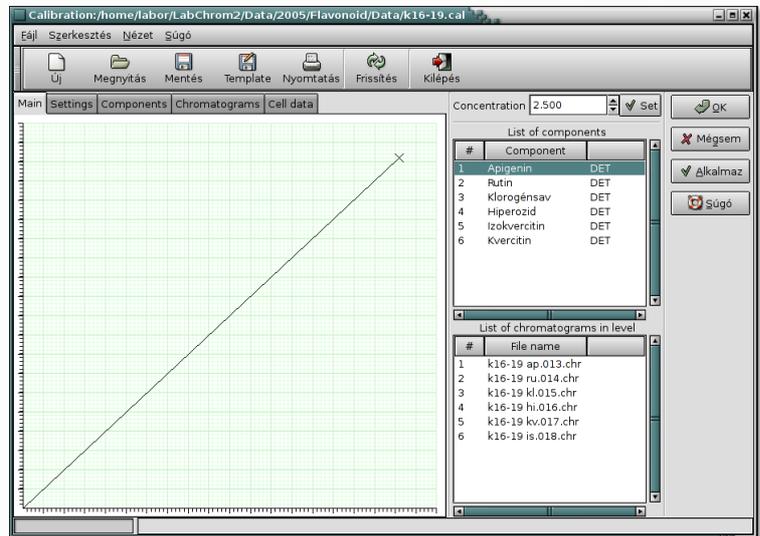
The LabChrom™ offers single-level and multi-level calibration with linear or nonlinear regression, internal or external standard.

Available calibration methods:

- Area normalization
- Internal standard
- External standard

Calculation methods

- Linear (1 or 2 parameter)
- Polinom
- Multilinear

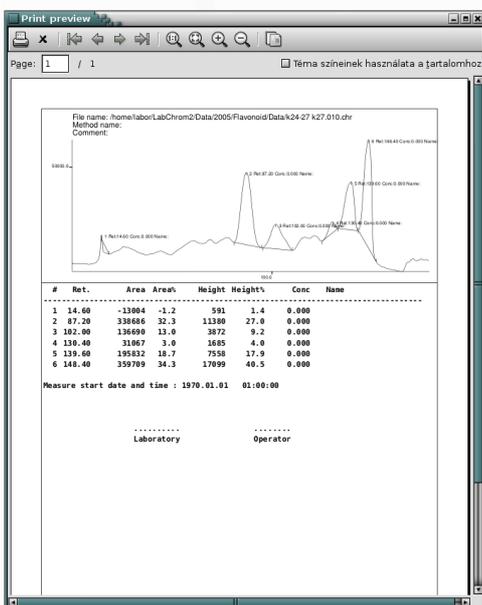


The LabChrom™ generates complete annotated reports including date and time of the analysis, the operator's name, instrumental and integration parameters. A standard report format is available, and user defined reports of chromatographic results are simple to produce.

The report can be converted into ASCII format and saved, so the results can be used in databases, spreadsheets, word processor and other commercial softwares.

Other data export methods are available, like

- ASCII export
- NetCDF import/export
- Picture/image export
- PDF export



# SPECIFICATION

## Physical Specification

### *Electrical*

- \* Line Voltage: 220 VAC
- \* Line Voltage Tolerance:  $\pm 10\%$
- \* Frequency Range: 48-66 Hz
- \* Power Consumption: 25 VA

### *Mechanical*

- \* Dimensions: 300×270×100 mm (W×D×H)
- \* Net Weight: 2.5 kg

### *Environmental*

- \* Temperature Range (operating): +10...+35 °C
- \* Temperature Range (storage): 0...+55 °C
- \* Humidity Range (operating): 10...90% (noncondensing)

## Digital I/O

### *Input:*

- \* Opto isolated contact detection
- \* Optional TTL level input

### *Output:*

- \* Relay contact (10mA max. rate)
- \* Optional high current solid state output

### *Gradient control:*

- \* 2 channels of 0-10V unipolar
- \* Optional 0-1V or more channels

## Data Acquisition

### *A/D converter:*

- \* Conversion type:  $\Sigma/\Delta$  integrating
- \* Sampling rate: 10 Hz (available in faster setting)
- \* Resolution: 24 bit (22.5 bit effective)
- \* Interface: fully optically isolated RS 232 interface (applicable serial-USB converter)

## Minimum computer configuration

- \* Pentium 4 processor
- \* 512 MB RAM
- \* VGA monitor
- \* mouse
- \* GNU/Linux operating system, GNOME-2 desktop environment (recommended Ubuntu 8.10)
- \* CUPS compatible (practically any) printer