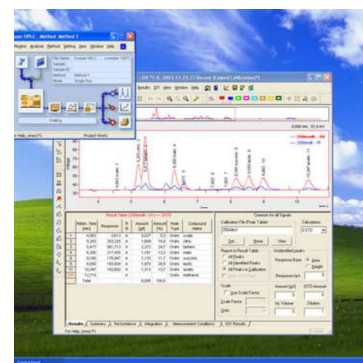# Software

KNAUER

## ClarityChrom®

ClarityChrom® is an easy-to-use Chromatography Data System for workstations. The optional extensions for GC control, PDA and GPC allow to use the software for a wide spectrum of application. Along to all KNAUER devices, devices and systems from more than 45 manufacturers are supported. The ClarityChrom® *Prep* includes the drivers for several fraction collectors and supports the peak recognition by level and/or slope. The manual fraction control and the option to use the KNAUER electric valves for fractionation gives you more flexibility.

Due to the abundance of supported devices ClarityChrom® allows to update installed systems at a later state and even to operate in system hardware of different manufacturer. The software is in many language version available such as German, Russian, Chinese, French, Spanish, etc.

### Specifications

| | |
|---|---|
| Package | ClarityChrom® |
| System architecture | 32-bit CDS |
| Operating system | Windows 10, Windows 7, Windows 8/8.1, Windows Vista SP2, all 32- and 64-bit; Windows XP SP3 (32-bit only) |
| Stand-alone | workstation version, max. 4 systems controlled by one computer, max. 3 complete systems recommended |
| Client/server | no client/server functionality |
| Multi-user environment | selectable system of user accounts with independently customizable behavior and appearance for individual users |
| Network environment | easy offline data sharing (at the file level) among all stations in a local network |
| Fields of application | analytical and preparative HPLC, GPC/SEC, GC, MS |
| Instrument connection | supports RS-232, Ethernet, PCI interface card, A/D-D/A interface |
| Recommended PC hardware | Pentium 2 GHz, 2 GB RAM, 4 GB RAM for DAD with high data rate, 20 GB free hard disk space, separate graphics card if one PC should control >1 system |
| Graphics capabilities | multiple chromatogram view and overlay, PDA view |
| Integration | 27 integration parameters (peak width, threshold, tangent slope ratio etc.) integration parameters programmable in time, automatic re-integration |
| Calculation types | with/without calibration (int./ext. standard method) |
| Security and GLP | installation qualification test of the software; FDA 21 CFR Part 11 conformance, validation with virtual detector |
| Instrument control | method-based instrument control, Instrument status display and direct control mode, |
| Calibration | 6 types of calibration curves, up to 20 levels, reference peaks, groups, unlimited number of standards (peaks), LOD, LOQ |
| Chromatogram operations | overlay view, custom labels and settings, also applying mathematical operations to chromatograms |
| Automation | sequences, automatic launch of selected commands or applications immediately following chromatogram acquisition – post run, batch |
| Presentation of results | Integrated customizable table of results, columns with userdefined calculation, summary table, and export in text or database format |
| Calculations | custom: 12 predefined mathematical operators, 15 basic and 4 summary functions, special: Kovats indexes for GC, determination of noise/drift, performance calculations |
| Data import & export | ASCII, AIA, dBase |
| PDA option | 3D chromatogram, peak purity analysis, spectrum search in self-made or commercial spectra library (separate license option) |
| GPC/SEC option | molecular weight determination in size exclusion chromatography with various calibration methods (separate license option) |
| System suitability test | automates the calculation of system suitability parameters for system validation (separate license option) |

### Supported devices on page 61.

### Ordering details:

| | |
|---|---|
| A1670* | ClarityChrom® single instrument license for one time base |
| A1674* | ClarityChrom® offline license for data evaluation |
| A1671* | ClarityChrom® additional instrument license on additional time base |
| A1676* | ClarityChrom® option for PDA data processing |
| A1681* | Upgrade for one system from former version to ClarityChrom® or ClarityChrom® *Prep* |
| A1685* | ClarityChrom® *Prep* single instrument license for one time base |
| A1688* | ClarityChrom® *Prep* offline license for data evaluation |
| A1686* | ClarityChrom® *Prep* additional instrument license on additional time base |
| A1677* | System suitability option |
| A1678* | Option for GPC data processing |
| A1679* | Option for MS data processing |
| A1690 | ClarityChrom® *Prep* Trial with 30 day Trial license dongle must send back after trial period |
| A1675* | ClarityChrom® university package one offline license |

* a sequential number is added to the article number which depends on the software version. At the time of printing, the current sequential number is -11 (e.g. A1670-11) for ClarityChrom® Version 7.2.

AZURA made in germany