

System variants

Feature/option	CHRONECT™ LC-GC-FID Full Range <i>[Automated workflow]</i>	CHRONECT™ LC-GC-FID Semi Range <i>[Expandable system]</i>	CHRONECT™ LC-GC-FID Base Range <i>[Expandable system]</i>	CHRONECT™ LC-GC-FID Rudimentary Range <i>[Non-expandable system]</i>
Robotic system	Choice of 160 or 200 cm robotic RTC configuration			85 cm robotic RSI configuration
LC-GC Interface	✓	✓	✓	✓
FAT/SAT ¹	✓	✓	✓	✓
Saponification (double extraction)	✓	●	●	—
Pre-Epoxidation Cleanup via silica gel	Not required when performing performic acid epoxidation ²		Manual, after manual saponification	
Performic acid epoxidation	✓	●	●	—
mCPBA epoxidation	✓	✓	●	Manual
Cleanup via aluminium oxide	✓	✓	●	Manual
Fract & collect	●	●	●	—
MOSH depletion	●	●	●	—
LC & GC-FID manufacturer	Free choice of LC & GC-FID manufacturer			
GC×GC-FID upgrade	● (depending on GC-FID manufacturer)			
GC×GC-MS upgrade	● (depending on GC-FID manufacturer)			

¹Performance tests verify that the system meets the latest and highest analytical requirements. These tests are conducted both by the factory in-house (FAT) and on-site at the customer's facility (SAT).

²If automatic mCPBA epoxidation is selected, a pre-epoxidation cleanup step is required and must be performed manually. This requires interrupting the automation process after automatic saponification and resuming it after the manual cleanup.

Add-on software & software services

Option	Availability
Chrolibri	Available as add-on
On-site training	Available
Remote training	Available

Services & Trainings

Service/training	Description
Re-visit (28 days)	Follow up service visit after 28 days
Re-visit (360 days)	Follow up service visit after 360 days
JF (Jour Fixe)	Regular technical coordination meeting
PQ/Technical training – basic	Advanced qualification and technical training
PQ/Technical Training extended	Advanced qualification and technical training
Training excursion – sample preparation	Individual, on site training focused on sample preparation

Note:

✓ = Included

● = Optional

CHRONECT™ Workstation MOSH/MOAH



CHRONECT™ Workstation MOSH/MOAH instrument

- Analysis of consumer goods
- Analysis of foodstuffs with manual sample preparation
- According to ISO 20122:2024

Expansion of fully automated sample preparation *(as shown on the left)*

- Highest Expansion Level
- Fully automated sample preparation
- Including saponification, double extraction, **performic acid epoxidation** and optional AIOx cleanup
- Less than 3 minutes of manual work per sample
- 30 samples per day
- Improvement of the ISO 20122:2024

Expansion of online AIOx cleanup

- Automated online aluminum oxide cleanup
- Removal of biogenic, odd-numbered alkanes (for MOSH fraction)
- One injection for measuring MOSH/MOAH despite AIOx cleanup
- According to ISO 20122:2024

Expansion of ethanol epoxidation

- Automated ethanolic epoxidation with *m*CPBA
- Removal of biogenic olefinic compounds (for MOAH fraction)
- Not needed when Expansion of fully automated sample preparation is used.
- According to ISO 20122:2024

Workstation add-ons

Addition of MOSH depletion	<ul style="list-style-type: none"> • For the analysis of cosmetics, printing inks, and other samples consisting of white oils. • Automatic depletion of MOSH and analysis of MOAH in a single run. • No carryover of MOSH into the MOAH fraction.
Addition of Fract & Collect	<ul style="list-style-type: none"> • Automatic collection of MOSH and MOAH fractions. • For further analysis on third-party instruments: GC-MS, GCxGC-MS
Addition of two-dimensional GC chromatography	<ul style="list-style-type: none"> • Further characterization of mineral oil contamination. • Expansion or replacement of GC analysis with GCxGC. • Instrument configuration: LC-GCxGC-FID. <i>(MS configuration see below)</i>
Addition of mass spectroscopic characterization	<ul style="list-style-type: none"> • Expansion or replacement of FID analysis with mass spectrometric detection. • Further characterization of mineral oil contamination. • Instrument configuration: LC-GC-MS, LC-GCxGC-FID/MS, LC-GCxGC-MS.