ONLINE ANALYTICAL SOLUTIONS EXPERTS

Naphthalene

Benzene

Toluene

Ethylbenzene

Xylenes

Phenol

Acrolein

1.3 Butadiene

1.2.4 TMB

microVOC

Accurate, portable & user-friendly VOC analyzer

Model : µ-VOC

Applications

Public building occupational exposure verification
Industrial hygiene measurement
Chamber test studies
Material emissions quantification
Building management
Concentration level continuous monitoring
Field Campaing

SCAN or CLICK ME

Standards

IEC/EN 61010-1:2010
EMC: NF EN 61326-1:2013

24 7 365 TURN KEY SOLUTION

Chromatotec® specializes in VOC, sulfur and permanent gas analysis at trace and ultra-trace levels (ppm, ppb, ppt).
Please visit our website for more details.

Updated: January 2025

microVOC

Accurate, portable & user friendly VOC analyzer

Principle

microVOC is a compact VOC analyzer which allows continuous and real-time qualification and quantification of benzene, toluene, ethylbenzene, xylenes in standards and other VOCs in options.

- Field-portable design
- Easy to use
- Labour saving
- Exceptional Accuracy
- Highly sensitive
- Real-time continuous monitoring
- Smart, embedded software

Advantages

User friendly

- Compact size and light weight
- Deployment in less than 5 minutes
- Powered by either plug-in or battery
- Minimal carrier gas consumption
- Rapid calibration with gaseous BTEX mixture or only toluene
- Compatibility with canisters and FLEC® System
- Easy to deploy and use for field campaigns
- Loop and trap configuration are available on the same instrument.

Rapid & accurate measurements

- Short analysis time: 10 minutes
- Detection limit lower than 1 ppb for benzene with loop and 10 ppt with trap

Analysis programming, monitoring & data logging

- Color touch screen with standard/expert user modes
- Method programming capability
- Results in near real-time
- Data logging for quality control

Issued from French academic research

- Innovation from CNRS & Strasbourg University
- Patented microfluidic device
- Supported by EU and innovation programs

Options:

- Sampling Teflon line (OD: 1/8''; L: 150 cm)
- Other VOCs like: Methanol, Phenol, Acrolein, 1-3 Butadiene, ETO, THT, TBM, Naphtalene and other on request
- Under Development: Model TCD in option for H2, O2, N2, CO, CO2, CH4...
- Printed manual
- 3G module: For remote data visualization stored internally and control of the analyser (require ethernet cable+ PC/Laptop+ network coverage)
- XXXCYL: External Gas Calibration Inlet
- XXXZERO: Automatic method to do zero analysis with internal electro valve
- Special application with pre-concentration trap to increase sensitivity down to ppt levels.

Name:	Model:
microVOC	µ-VOC
microBTEX	µ-BTEX
microVOC-Trap	µ-Trap

Chromatotec® is continuously improving its products, therefore these specifications are subject to change without notice

To contact us: sales@chromatotec.com

NORTH AMERICA	EUROPE	ASIA
Houston - USA	Bordeaux - FRANCE	Beijing - CHINA

Product technical specifications

Detection limit

Loop

- Benzene & Toluene: ~ 1 ppb

Trap

- Benzene~10 ppt with pre-concentration trap.
- Ethylbenzene & m+p-Xylenes: ~ 2 ppb (with default settings) / o-Xylene: ~ 4 ppb

Configuration & cycle time

Loop

- BTEX : 10 min
- Benzene + 1.3 butadiene = from 10 to 15 min
- Benzene = 5 min (3 min in option)
- Other application on demand

Trap

- BTEX 15 min

Detection range

Loop

- 0-1000 ppb
- 0-10 ppm / 0-100 ppm / 0-1000 ppm

Trap

- 0-15 ppb
- 0-100 ppb with other PID lamp

Measurement

- Detector : PID
- Temporal resolution 0.1 seconds
- Response time : One measurement every 10 minutes (default settings)
- Analysis sample condition : Gas T°: 5 - 40°C; Gas RH: 20 - 90%; Atmospheric pressure
- Calibration : Gaseous BTEX mixture or gaseous Benzene

Sampling

- 200µL loop or carbon trap
- Gas flow rate : between 10 to 100 mL min^{-1}
- Carrier gas : Nitrogen 4 bar inlet pressure and 2.5 mL min^{-1}
- Supply inlet connection : 1/8''

Instrument supply

- Power supply : Input 100 - 240V ±10%; 1.5 A max; 47 - 63 Hz - Output 15V; 6.67A 100W
- Autonomy on battery: Up to 4h
- Power consumption : max 75 w

General

- Dimensions (analyzer) : 32×28×15 cm; 6.0 kg
- Dimensions (suitcase) : 56 x 45 x 25 cm; 18 kg
- Operational conditions : 0 - 40°C / 20 - 80% RH
- Storage conditions : -20°C - +40°C / 0 - 85% RH
- Display : 7'' TFT display; resolution 800 x 480; integrated touchscreen
- Autonomy: BTEX version: 21 days for Gas -4 hours for battery. Can be reduced for different applications.

Software & communication

- Embedded software: Expert and standard modes; Data saving on microSD card 32 GO with more than 13 months in continue data storage capacity; Analysis setting, launching and monitoring; Defects and maintenance management.
- USB : Data transfer (area, retention time, concentration)
- Ethernet : Communication and remote control

Mobility and accessories

- Carrier case with handle and integrated pre-cut foam for accessories
- Power supply & cable; Particle filter; Filter strainer; Carrier case with pre-cut foam; 1/8'' inox caps with associated ferrules; Analysis column; 58L Nitrogen bottle with adapted manometer; Teflon tube and associated ferrules for carrier gas; Stylus.

Other feature

- Comptability : Canister & FLEC® system