

airmoVOC C6-C20+

BTEX included

Analysis of up to 67 compounds from C6 to more than C20: VOCs, SVOCs, halogen compounds (TO14), PAMS and PAHs.

Model: A22022

Environment:

Urban/Non urban area pollution control
Outdoor/Indoor measurements
BTEX / PAMS / CE analysis
Plant / process emissions
Tropical forest

Process:

Industrial Hygiene
Fenceline monitoring

Other applications:

Wastewater plant, Headspace or Purge and trap (method 502-2 or 524), Ambient air control (PAMS and TO14)



Selected by US EPA



1996



2006



2010-C212

2010

Chromatotec® is specialised in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt).
Please visit our website for more details.

Benzo(a)pyrene
Naphthalene
Styrene
BTEX
CCL4
Tri-methylbenzene
FLUORENE
Gaseous PAHs

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Analysis of up to 67 compounds from C6 to more than C20: VOCs, SVOCs, halogen compounds (TO14), PAMS and PAHs.

Description:

The airmoVOC C6-C20+ is based on airmoVOC Mcerts certified and USEPA selected. It is a gas chromatograph for analysis and monitoring of trace and ultra trace amounts of VOCs from PAMS, TO14, TO15, and SVOCs like linear alkanes up to N-Pentacosane or gaseous PAHs from Naphthalene to Benzo(a)pyrene in standard with FID detector.

Miniaturization, sensitivity, mobility and flexibility are its main features. Everything from the sample port up to the data storage is integrated in a 19" rack 5U:

- Uninterrupted sampling with pre-concentration on 1 absorbent tube
- Gas chromatograph with 0.2 mm ID metallic capillary column and programmable temperature gradient oven and pressure / flowcontrol of the carrier gas by piezo-valve

Principle:

- MFC for sampling controlled by Vistachrom to adapt sampling flow from the software
- Heated injection valve
- Automatic sampling with inbuilt heated line and concentration using an absorbent trap
- Thermo desorption from the trap and direct injection into a metallic capillary column regulated by a temperature gradient up to 350°C. The H₂ pressure (carrier gas) at the column head is controlled by a piezo valve.
- The detection of all compounds eluting from the column is performed by a FID detector.

Key points:

- Heated sampling line up to heated valve in the GC
- The following gaseous PAHs can be analyzed: Naphthalene (C10), Me-Naphtalene, 1-Me-Naphtalene, Acenaphtene, Acenaphtylene, Flourene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluorath, Benzo(k)fluorath and Benzo(a)pyrene (C20)
- Linear alkanes from C6 DimethylButane to C25 N-Pentacosane
- No condensation part for C6 to C20+

VISTACHROM® software:

The software developed by Chromatotec® allows:

- Remote monitoring
- Full traceability through archiving of results and QC
- Set up and control of threshold alarms
- Export of data MODBUS / 4-20mA / 0-10V

The software allows the calculation of retention time, area, mass or concentration profiles.

Options:

- Det QMS for online GC MS monitoring
- MODBUS / JBUS or MGS1 communication protocol
- Analog output 4-20mA or 0-10V or alarms
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers
- Multiplexer: up to 32 streams
- Purge module to extract VOC from water for online VOC in water analysis
- External multipoint calibration and zero with CALIB MFC, XXXCYL MFC, airmoCAL 200 MFC

Product technical specifications:

C6 to C20+ analysis:

- C6 (Hexane, Dimethylbutane) to C20+ (Benzo(a)pyrene and N-Pentacosane)

Detection limit:

- Benzene: 5 ppt or 0.0164 µg/m³
- Naphthalene: 10 ppt or 0.05 µg/m³

Detection range:

- Benzene: 0.1 to 380 µg/m³
- Naphthalene: 0.05 to 400 µg/m³

Relative Standard Deviation:

- < 0.3 % over 48h (RT)
- < 3 % over 48 h (Conc.)

Base Line: Zero drift:

- < 2%

Linearity:

- R² > 0.99 on all compounds

Supervisor:

- Full result storage (data and chromatogram)
- Embedded computer Windows® based with LCD display
- 128 GB of Hardware storage on SSD memory
- 4 USB Connecting Port
- Two RS-232 ports
- Display: 10" TFT Color LCD

Results:

- Data storage

Cycle time:

- 30 min to 120 min (depending on application)

Gas supply:

- H₂ (FID and carrier gas): 30 mL/min (inlet 4 bars; 1/16" double ferrule)
- Air (FID): 180 mL/min (inlet 4 bars ; 1/8" double ferrule)
- Sample inlet (vacuum pump) 1/4" double ferrule
- Pneumatic valve 90ml/commutation

Operation Temperature:

- Room with air conditioning: 20 to 30°C

Sample volume:

- Up to 2200 mL (programmable)

Power supply:

- Main: 230 V / 115 V or 50 Hz / 60 Hz
- Battery: 24 V (option)

Electrical consumption:

- Mean: 300 VA, Peak 460 VA

Dimensions and weight:

- Rack: 19" - (5U)
- Height: 222 mm
- Width: 482 mm
- Depth: 600 mm
- Net Weight: 22 kg



To order:

airmoVOC C6-C20+
5U inbuilt computer

Model:

A22022

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

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