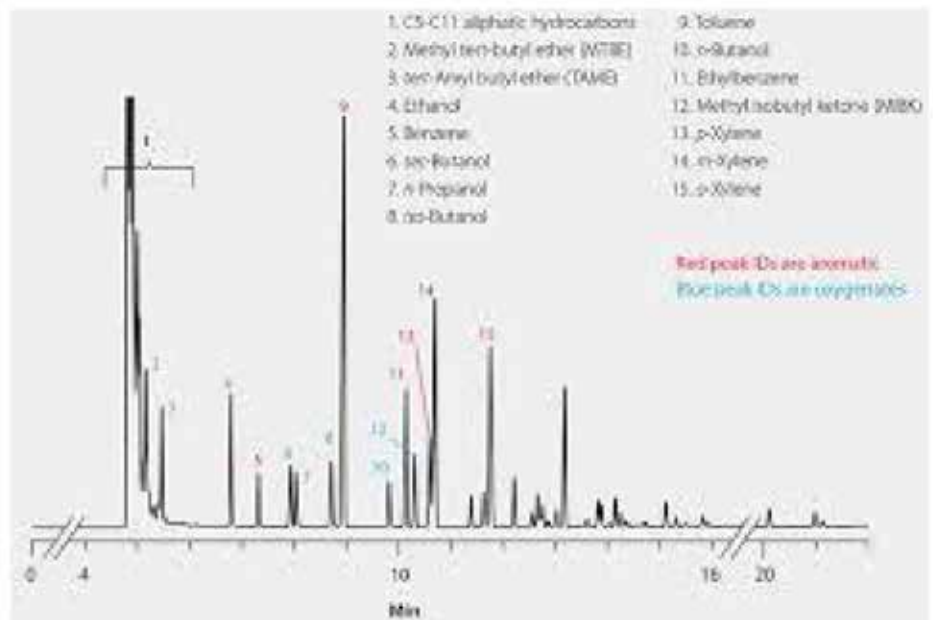


# GC-9979i

## Gas Chromatography



## ►► System Capability

- Assembly simultaneously: 3 inlets+3 detectors(FID, TCD, ECD, FPD and NPD)
- Carrier gas control: pressure/flow regulator
- 6 channels independ temperature control
- Controllable by PC

## ►► Column Oven

- Column oven dimension: 260×250×150mm
- Temp. control range: RT+6°C~399°C(0.1°C increment)
- Programming temp.-ramp : 8 steps
- Temp. ramp speed: 0.1~40°C≤1 minute(0.1°C increment)
- Fast cool down speed: 200~100°C≤3.5 minutes
- Temp. accuracy: ±0.1°C
- Max run time: 999.99 minutes

## ►► Inlets

- Split capillary, split/splitless capillary, packed
- Max temperature: 400°C

## ►► Detectors

Detector	Max Operating temp.	Limit of detection	Baseline Noise	Baseline drift (after 2hrs stabilization)	Linear dynamic range
FID	400°C	$\leq 5.0 \times 10^{-12}$ g/s (N-C16)	$\leq 2 \times 10^{-13}$ A	$5 \times 10^{-13}$ A/30 min	$\geq 10^7$
TCD	400°C	$\geq 8000$ mV.ml/mg (N-C16)	$\leq 20$ uV	$\leq 100$ uV/30min	$\geq 10^4$
ECD	350°C	$\leq 1 \times 10^{-13}$ g/ml ( $\gamma$ -666)	$\leq 20$ uV	$\leq 50$ uV/30min	$\geq 10^4$
FPD	400°C	S: $\leq 5.0 \times 10^{-11}$ g/s P: $\leq 1.4 \times 10^{-12}$ g/s	$\leq 2 \times 10^{-11}$ A	$\leq 4 \times 10^{-11}$ A/30min	S: $\geq 10^2$ P: $\geq 10^3$
NPD	400°C	N: $\leq 1 \times 10^{-12}$ g/s (Azobenzene) P: $\leq 5 \times 10^{-13}$ g/s (Malathion)	$\leq 4 \times 10^{-13}$ A	$2 \times 10^{-12}$ A/30min	N: $\geq 10^3$ P: $\geq 10^3$

## ▶▶ Autosampler

Syringe spec	1, 5, 10, 25, 50, 100, 250, 500(μl)
Sampling vial	19 sample+2 solvent +1 wast=22
Sampling times per sample	0~99
Max interval	999minutes
Min sampling volume	0.1μl
Max sampling volume	250μl
Selection	1~20
Max sampling inlet	1
Max washing times	99
Max pumping times	99
Viscosity delay	0~60s
Pre-sampling and Post-sampling retention time	0~120s
Sampling needle speed	Fast, low
Extract, sampling speed	Fast, low
Control method	Interval self-control and signal counter-control

## ▶▶ 9979i Workstation

- **Counter-Control:**

Can set up all parameters used in the analysis through workstation, and monitor real time information of detector flow.

- **Comprehensive Quantitative Method:**

Area normalization, external standard method, internal/multi-internal standard method, index analysis and grouping calculation.

## ▶▶ Manual, automatic valve and valve switch



- Heating preservation valve box is available
- Manual and automatic valve selectable
- Customization is available
- One-time injection, all component analysis for complicated gas mixture analysts