Typical applications:

- aromatics
- benzene
- butane
- cumene
- diesel fuel
- ethane
- ethylene
- fuel gas
- gasoline
- hydrogen
- inert gases
- isomerization feedstocks
- kerosene
- LPG
- MTBE
- naphtha
- natural gas
- octane
- olefins
- paraffinic hydrocarbons
- propane
- propylene
- refinery gases
- reformer feedstocks
- styrene
- toluene
- xylene

The 9600 Series Analyzers have been **designed with your application requirements in mind.** For example, they solve trace contaminant detection problems in the following areas:

- **protecting expensive noble metal catalysts**
- **identifying impurities in feedstocks**
- **assessing product quality**
- **testing for scrubber breakthrough**
- **checking product specifications**
- **prevention of corrosion and embrittlement of containment vessels and pipelines**
- **odorant analysis**
- **documenting regulatory and contractual compliance**

We can provide the engineering assistance necessary to meet your unique analysis needs....

NORTH AMERICA

HEAD OFFICE
C.I.Analytics
2085 Industrial Blvd., Chambly
Quebec, Canada, J3L 4C5
Phone: 450-658-4965
Fax: 450-658-3428
e-mail: cianalytics@cianalytics.ca

HOUSTON OFFICE
C.I.Analytics
10700 Rockley Road, Houston
Texas, USA
77099
Phone: 281-953-1313
Fax: 281-359-0431

www.cianalytics.com

Chromatography Industrial Inc.

C.I.Analytics

9600L™

With " Multi-Element " Option, 9600L may be modified to detect following trace contaminants.

Ammonia (NH_3)
Arsine (AsH_3)
Chlorine (Cl_2)
Hydrogen Chloride (HCl)
Hydrogen Cyanide (HCN)
Hydrogen Fluoride (HF)
Hydrogen Sulfide (H_2S)
Nitrogen Dioxide (NO_2)
Phosgene ($COCl_2$)
Phosphine (PH_3)
Sulfur dioxide (SO_2)

Species & Total Sulfur Analyses. Model 9600L

C.I.Analytics

Optional 14" VGA Monitor

Optional Keyboard Drawer

Optional Autoinjector

The Model 9600L Laboratory Analyzer

Analysis results are available in minutes from the Model 9600L which detects and measures trace contaminant **concentrations as low as 10 ppb** in light hydrocarbon liquids and gases. The 9600L is based on **ASTM-approved methodology** and features user-friendly, **Windows® based software** and an integrated design which provides GC oven, reactor cpu and detector all in one convenient package. Full-color graphing of analysis results eliminates guesswork and onboard regeneration extends reaction tube life avoiding tube replacement. Reactor temperatures as hot as 1350° C are achievable, ensuring **100% conversion** of sulfur compounds for detection as hydrogen sulfide.

A gas chromatograph oven is included at no additional charge, and provides **speciation of sulfur compounds** for quantification: **CS_2, COS, H_2S, DMS, DMDS, ethyl- and methyl- mercaptan,** etc. Chromatograms are displayed on the optional VGA monitor. Other optional features of the Model 9600L include:

- **Liquid Vaporizing Station**
- **Model 9610 Autoinjector**
- **Keyboard Drawer**
- **Mounting Arm for VGA Monitor**

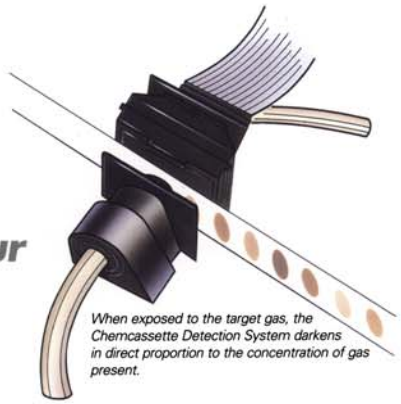
Optional Liquid Vaporizing System

The Model 9610 Autoinjector

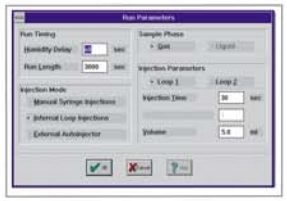
When the need is to analyze liquid phase samples for total sulfur at extremely low concentrations, call on the Model 9610 Autoinjector. It makes **automatic, repeat injections** of small volumes of liquids - freeing the operator to concentrate on other important tasks at hand. The 9610's precision injection rate also helps control hydrogen starvation, a condition which can cause coking. An external-loop injection valve enables the user to install the sample loop of choice. The Autoinjector is perfect for analyzing samples of gasoline, kerosene, naphtha, diesel fuel, cumene, thiophene, and many others.

9600L

Now you can protect your product, process and your bottom line.

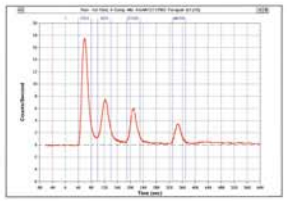


When exposed to the target gas, the Chemcassette Detection System darkens in direct proportion to the concentration of gas present.



Easy-to-use Windows software operates all aspects of instrument operation.

All temperature setpoints and other operating parameters are programmed through the keyboard and displayed in a clear format.



Analysis results are displayed in graphical form in full color.

Onboard diagnostics make for easy troubleshooting and instrument maintenance.