

## Industrial Hygiene Lab Organic Laboratory Services For Air Quality



Clark Laboratories is AIHA accredited for organics analysis, providing analytical services to:

- Refineries
- Power plants
- Processing plants
- Manufacturing facilities
- Mining, Steel, Aluminum, and Chemical industries

We provide routine analysis including, but not limited to:

- Organic solvents
- PCB's
- Formaldehyde
- Polynuclear aromatic hydrocarbons (PAH's)
- Ketones
- Amines
- Alcohols
- Isocyanates

We routinely perform screens for unknown organics by utilizing GC/MS, which is a useful tool for indoor air quality studies.

Samples are prepared and analyzed according to NIOSH and OSHA methodology utilizing:

- Gas Chromatography (GC)
- Gas Chromatography Mass Spectrometry (GC/MS)
- Fourier Transform Infrared Spectrometry (FTIR)
- High Performance Liquid Chromatography (HPLC)

**Examples of analysis:**

**Formaldehyde** is analyzed using NIOSH 2016. Formaldehyde, a colorless, pungent smelling gas, is used in manufacturing processes and is a by-product of the combustion process.

Elevated exposures can cause:

- Respiratory ailments
- May be linked in nasal and lung cancer

**Polynuclear aromatic hydrocarbons (PAH's)** can be analyzed using OSHA 58 or NIOSH 5506. PAH's are a group of chemicals that are formed during the incomplete burning of:

- Coal
- Oil
- Gas
- Wood
- Garbage
- Other organic substances

In general, they are colorless, white, or pale yellow-green solids, with a faint, pleasant odor. Some of the components in PAH's are considered to be carcinogenic.

**Methylene Chloride** is analyzed by NIOSH 1005. This volatile, colorless liquid has a chloroform-like odor and is used in many different industries including:

- Paint stripping
- Polyurethane foam manufacturing
- Cleaning
- Degreasing

Over-exposure can cause:

- Increased risk of developing cancer
- Adverse effects on the
  - Heart
  - Central nervous system
  - Liver
- Skin or Eye irritation

### Sampling media

Clark Labs can supply all of the media needed for your sampling requirements including:

- Charcoal tubes
- Passive monitors
- XAD tubes
- Tedlar bags
- Silica gel tubes

For more information on these or any other industrial hygiene laboratory services, please contact us by phone at 412-387-1001, by fax at 412-387-1025, or on the web at [www.clarklabslc.com](http://www.clarklabslc.com) and click on IH Lab.