

Instructions for: WP PAHs- GC (Cat # PT-PAHGC-WP)

STANDARD DESCRIPTION

- The WP PAHs- GC standard is provided in a flame sealed ampule that contains approximately 2.1 mL of concentrate.
- The WP PAHs- GC standard is packaged in acetone.
- Store the standard in the unopened ampule refrigerated (at ~4°C).

ADDITIONAL INFORMATION

- The standard has been provided as a concentrate that must be diluted prior to analysis.
- The standard has been designed and manufactured in compliance with NELAC/EPA criteria. As such, each lot of the WP PAHs- GC standard will contain a minimum of 80% of the total number of NELAC Analytes listed on the Data Reporting Sheets and in these instructions.
- Refer to “Reporting Instructions” section of this booklet for guidance on reporting results for analytes that you do not detect.
- The standard should be prepared and analyzed as soon as possible after dilution.

STANDARD PREPARATION, ANALYSIS and STORAGE

1. For best results, the PT standard should be stored refrigerated and then brought to room temperature (near 20°C) when used.
2. Add approximately 990 mL of organic free deionized water to a 1000 mL Class A volumetric flask.
3. Carefully open the ampule by snapping off the top at the narrow part of the neck.
4. Transfer exactly 1.0 mL of the PT standard concentrate to the flask using a gas tight syringe and delivering the aliquot below the surface of the water.
5. Bring the volumetric flask to volume with organic-free deionized water.
6. Mix the solution by inverting the volumetric flask a minimum of three times.
7. The standard is now ready for preparation and analysis per your routine method(s).s).
8. The sample should be analyzed as soon as possible after dilution,
9. Report all results in µg/L per the reporting instructions contained in this booklet.
10. Store the diluted standard and any remaining concentrate refrigerated (at ~4°C).

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Water Pollution Proficiency Testing Concentration Ranges and PTRLs

Definitions:

PTRL

NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRLs shown. (REF: NELAC PT FOT Tables)

NA

Not Applicable (NA) has been applied to analytes where a PTRL is not applicable and to state specific analytes that have not had a PTRL determined by the applicable accrediting agency.

PAHs - GC (PT-PAHGC-WP)

NELAC Code	Analyte	Units	Concentration Range	PTRL
5500	Acenaphthene	µg/L	10.0 - 200	5.60
5505	Acenaphthylene	µg/L	10.0 - 200	3.00
5555	Anthracene	µg/L	10.0 - 200	4.90
5575	Benzo(a)anthracene	µg/L	10.0 - 200	3.90
5585	Benzo(b)fluoranthene	µg/L	20.0 - 125	5.80
5600	Benzo(k)fluoranthene	µg/L	25.0 - 200	5.00
5590	Benzo(g,h,i)perylene	µg/L	20.0 - 200	2.90
5580	Benzo(a)pyrene	µg/L	20.0 - 160	6.40
5855	Chrysene	µg/L	10.0 - 200	5.20
5895	Dibenzo(a,h)anthracene	µg/L	20.0 - 100	4.90
6265	Fluoranthene	µg/L	30.0 - 190	14.0
6270	Fluorene	µg/L	30.0 - 190	10.0
6315	Indeno(1,2,3-cd)pyrene	µg/L	30.0 - 125	4.30
5005	Naphthalene	µg/L	30.0 - 190	10.0
6615	Phenanthrene	µg/L	30.0 - 140	15.0
6665	Pyrene	µg/L	30.0 - 200	9.60