

Instructions for: WP Volatiles GC (Cat # PT-VOAGC-WP)

STANDARD DESCRIPTION

- The WP Volatiles GC standard is provided in a flame sealed ampule that contains approximately 1.5 mL of concentrate.
- The WP Volatiles GC standard is packaged in methanol.
- 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, all of the NELAC Accreditation and Experimental Analytes listed on the Data Reporting Sheets and in these instructions will be included in every lot.
- Due to the nature of volatile analytes, the standard must be 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. Bring a 100 mL Class A volumetric flask to volume with volatile-free deionized water.
3. Carefully open the ampule by snapping off the top at the narrow part of the neck.
4. Transfer exactly 50.0 µL (micro liters) of the PT concentrate to the flask using a gas-tight syringe and delivering the aliquot below the surface of the water.
5. Mix the solution by inverting the volumetric flask a minimum of three times.
6. The standard is now ready for preparation and analysis per your routine method(s).s).
7. The sample should be analyzed as soon as possible after dilution,
8. Report all results in µg/L per the reporting instructions contained in this booklet.
9. 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.

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NELAC Code	Analyte	Units	Concentration Range	PTRL
4375	Benzene	µg/L	8.00 - 120	4.60
4475	Chlorobenzene	µg/L	10.0 - 120	7.10
4610	1,2 Dichlorobenzene	µg/L	8.00 - 100	4.90
4615	1,3 Dichlorobenzene	µg/L	9.00 - 125	5.20
4620	1,4 Dichlorobenzene	µg/L	8.00 - 115	4.90
4765	Ethylbenzene	µg/L	9.00 - 100	5.80
5000	Methyl tert-butyl ether (MTBE)	µg/L	15.0 - 150	9.00
5005	Naphthalene	µg/L	30.0 - 190	10.0
5140	Toluene	µg/L	7.00 - 100	4.90
5260	Xylenes, total	µg/L	20.0 - 300	10.0
Additional State Specific Analytes				
4900	Isopropylbenzene	µg/L	10.0 - 300	NA
5210	1,2,4-Trimethylbenzene	µg/L	20.0 - 75.0	NA
5215	1,3,5-Trimethylbenzene	µg/L	20.0 - 75.0	NA