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Instructions for:
WS Regulated Volatiles (Cat # PT-RVOA-WS)

STANDARD DESCRIPTION

- The WS Regulated Volatiles standard is provided in a flame sealed ampule that contains approximately 1.5 mL of concentrate.
- The WS Regulated Volatiles 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 with NELAC/EPA criteria. As such, each lot of the WS Regulated Volatiles standard will contain a minimum of 80% of the total number of NELAC Accreditation Analytes listed on the Data Reporting Sheets and in these instructions. NOTE: Per state regulations, vinyl chloride will be included in every lot of WS Regulated Volatiles.
- Refer to "Reporting Instructions" section of this booklet for guidance on reporting results for analytes that you do not detect.
- 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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Certificate # 2427.01

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Water Supply 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.

Regulated Volatiles (PT-RVOA-WS)

NELAC Code	Analyte	Units	Concentration Range	PTRL
4375	Benzene	µg/L	2.00 - 20.0	1.20
4455	Carbon Tetrachloride	µg/L	2.00 - 20.0	1.20
4475	Chlorobenzene	µg/L	2.00 - 20.0	1.20
4610	1,2-Dichlorobenzene	µg/L	2.00 - 20.0	1.20
4620	1,4-Dichlorobenzene	µg/L	2.00 - 20.0	1.20
4635	1,2-Dichloroethane	µg/L	2.00 - 20.0	1.20
4640	1,1-Dichloroethylene	µg/L	2.00 - 20.0	1.20
4645	cis-1,2-Dichloroethylene	µg/L	2.00 - 20.0	1.20
4700	trans-1,2-Dichloroethylene	µg/L	2.00 - 20.0	1.20
4975	Dichloromethane (Methylene Chloride)	µg/L	2.00 - 20.0	1.20
4655	1,2-Dichloropropane	µg/L	2.00 - 20.0	1.20
4765	Ethylbenzene	µg/L	2.00 - 20.0	1.20
5100	Styrene	µg/L	2.00 - 20.0	1.20
5115	Tetrachloroethylene	µg/L	2.00 - 20.0	1.20
5140	Toluene	µg/L	2.00 - 20.0	1.20
5155	1,2,4-Trichlorobenzene	µg/L	2.00 - 20.0	1.20
5160	1,1,1-Trichloroethane	µg/L	2.00 - 20.0	1.20
5165	1,1,2-Trichloroethane	µg/L	2.00 - 20.0	1.20
5170	Trichloroethylene	µg/L	2.00 - 20.0	1.20
5235	Vinyl Chloride	µg/L	2.00 - 50.0	1.20
5260	Total Xylenes	µg/L	2.00 - 50.0	1.20