

Instructions for: **Soil Volatiles-GC (Cat # PT-VOAGC-SOIL)**

SCOPE AND APPLICATION

Wibby Environmental's Soil Volatiles Proficiency Testing Standard is designed to be used with all USEPA Methods. You should be familiar with the method(s) before analyzing the standard. If you have any questions about the use of these standards, please contact Wibby Environmental Customer Service at 1-866-WibbyPT (866-942-2978).

SAMPLE PREPARATION AND ANALYSIS

1. For best results, the PT standard should be refrigerated and then brought to room temperature (near 20°C) when used.
2. The SOIL/HW Volatiles - GC standard includes two separate containers; a VOA vial containing Blank Soil Matrix and a 2 ml flame-sealed ampule containing the analytes of interest. The solvent for the Volatiles concentrate is methanol.
3. Open the Blank Soil Matrix vial and transfer 5 g of the matrix into your sparger cell.
4. Carefully open the ampule containing the Volatiles concentrate by snapping off the top at the narrow part of the neck.
5. Transfer exactly 50 µL (micro liters) of the PT concentrate onto the Blank Soil Matrix in the sparger cell using a gas tight syringe. Add the spike below the surface of the matrix.
6. Add 5 ml of volatile free deionized water to the sparger cell containing the Blank Solid Matrix and PT concentrate.
7. The standard is now ready for analysis per the selected method(s).

REPORTING RESULTS

1. Report all results using the Data Reporting Sheets enclosed with your standards.
2. For the purposes of reporting results, the percent moisture of the Volatile standard is 0% and the sample weight is 5.0 g.
3. Report results to three significant figures in µg/kg.
4. Report all results on line at www.wibby.com. Click on the "Online data entry link" and follow the instructions to enter your results. As an alternative, you may submit your results using the Data Reporting Sheets enclosed with your standards by Fax to 866-283-0269.
5. All results must be received by Wibby Environmental prior to the study closing date shown on the Data Reporting Sheets.

SAFETY

These standards are designed for use by laboratory professionals who are familiar with handling environmental reference materials as well as hazardous materials. If you have any questions about the safe handling of these standards or require a Material Safety Data Sheet (MSDS,) please contact Wibby Environmental at 1-866-WibbyPT (866-942-2978).

QUESTIONS?

If you have any questions regarding these standards or reporting requirements, please call Wibby Environmental at 1-866-WibbyPT (866-942-2978).

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Soil / Hazardous Waste PT 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.

Volatiles - GC (PT-VOAGC-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
4375	Benzene	µg/kg	20.0 - 200	10.0
4475	Chlorobenzene	µg/kg	20.0 - 200	10.0
4610	1,2-Dichlorobenzene	µg/kg	20.0 - 200	8.90
4615	1,3-Dichlorobenzene	µg/kg	20.0 - 200	5.10
4620	1,4-Dichlorobenzene	µg/kg	20.0 - 200	7.00
4765	Ethylbenzene	µg/kg	20.0 - 200	9.40
5000	Methyl-tert-butyl ether (MTBE)	µg/kg	20.0 - 200	7.80
5005	Naphthalene	µg/kg	40.0 - 200	6.00
5140	Toluene	µg/kg	20.0 - 200	11.0
5260	Xylenes, total	µg/kg	40.0 - 400	18.0
Additional State Specific Analytes				
4900	Isopropylbenzene	µg/kg	40.0 - 200	10.0
5210	1,2,4-Trimethylbenzene	µg/kg	20.0 - 200	NA
5215	1,3,5-Trimethylbenzene	µg/kg	20.0 - 200	NA