

Instructions for: WP Base/Neutrals (Cat # PT-BN-WP)

STANDARD DESCRIPTION

- The WP Base/Neutrals standard is provided as a concentrate in a flame sealed ampule.
- The WP Base/Neutrals 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 Base/Neutrals standards will contain a minimum of 60% of the total number of NELAC Accreditation and Experimental 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).

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.

Base Neutrals (PT-BN-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
5595	Benzidine	µg/L	200 - 1000	20.0
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
5660	4-Bromophenyl-phenylether	µg/L	20.0 - 200	8.10
5670	Butyl benzyl phthalate	µg/L	50.0 - 200	5.00
5760	bis(2-Chloroethoxy)methane	µg/L	10.0 - 200	3.60
5765	bis(2-Chloroethyl)ether	µg/L	10.0 - 200	4.80
5780	bis(2-Chloroisopropyl) ether	µg/L	30.0 - 200	9.60
5795	2-Chloronaphthalene	µg/L	20.0 - 200	5.40
5825	4-Chlorophenyl-phenylether	µg/L	25.0 - 200	9.90
5855	Chrysene	µg/L	10.0 - 200	5.20
5895	Dibenzo(a,h)anthracene	µg/L	20.0 - 100	4.90
5905	Dibenzofuran	µg/L	30.0 - 125	11.0
5925	Di-n-butylphthalate	µg/L	40.0 - 180	14.0
4610	1,2-Dichlorobenzene	µg/L	30.0 - 150	3.00
4615	1,3-Dichlorobenzene	µg/L	30.0 - 150	4.50
4620	1,4-Dichlorobenzene	µg/L	30.0 - 150	3.00
5945	3,3'-Dichlorobenzidine	µg/L	60.0 - 200	10.0
6070	Diethyl phthalate	µg/L	65.0 - 170	10.0
6135	Dimethyl phthalate	µg/L	100 - 180	10.0
6185	2,4-Dinitrotoluene	µg/L	20.0 - 190	5.30
6190	2,6-Dinitrotoluene	µg/L	20.0 - 190	6.70
6200	Di-n-octylphthalate	µg/L	40.0 - 190	14.0
6065	bis(2-ethylhexyl) phthalate	µg/L	20.0 - 200	6.60
6265	Fluoranthene	µg/L	30.0 - 190	14.0
6270	Fluorene	µg/L	30.0 - 190	10.0
6275	Hexachlorobenzene	µg/L	20.0 - 190	7.70
4835	Hexachlorobutadiene	µg/L	50.0 - 180	5.00
6285	Hexachlorocyclopentadiene	µg/L	100 - 225	10.0
4840	Hexachloroethane	µg/L	50.0 - 190	5.00
6315	Indeno(1,2,3-cd)pyrene	µg/L	30.0 - 125	4.30
6320	Isophorone	µg/L	30.0 - 140	13.0
6385	2-Methylnaphthalene	µg/L	30.0 - 190	3.50
5005	Naphthalene	µg/L	30.0 - 190	10.0
5015	Nitrobenzene	µg/L	20.0 - 190	7.20

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Base Neutrals (PT-BN-WP) cont'd

NELAC Code	Analyte	Units	Concentration Range	PTRL
6530	N-Nitrosodimethylamine	µg/L	75.0 - 200	7.50
6535	N-Nitrosodiphenylamine	µg/L	30.0 - 200	6.40
6545	N-Nitroso-di-n-propylamine	µg/L	30.0 - 140	4.80
6615	Phenanthrene	µg/L	30.0 - 140	15.0
6665	Pyrene	µg/L	30.0 - 200	9.60
5155	1,2,4-Trichlorobenzene	µg/L	35.0 - 180	5.00
Additional State Specific Analytes				
5545	Aniline	µg/L	10.0 - 200	NA
5630	Benzyl alcohol	µg/L	50.0 - 200	NA
5680	Carbazole	µg/L	10.0 - 200	NA
5745	4-Chloroaniline	µg/L	50.0 - 200	NA
5790	1-Chloronaphthalene	µg/L	10.0 - 200	NA
4740	p-Dioxane	µg/L	10.0 - 200	NA
6380	1-Methylnaphthalene	µg/L	10.0 - 200	NA
6460	2-Nitroaniline	µg/L	10.0 - 200	NA
6465	3-Nitroaniline	µg/L	10.0 - 200	NA
6470	4-Nitroaniline	µg/L	10.0 - 200	NA
6525	N-Nitrosodiethylamine	µg/L	10.0 - 200	NA
6590	Pentachlorobenzene	µg/L	10.0 - 200	NA
5095	Pyridine	µg/L	10.0 - 200	NA
6715	1,2,4,5-Tetrachlorobenzene	µg/L	10.0 - 200	NA
5145	o-Toluidine	µg/L	10.0 - 200	NA