

## Instructions for: **WP Explosives (Cat # PT-EXP-WP)**

### **STANDARD DESCRIPTION**

- The WP Explosives standard is provided in a flame sealed ampule that contains approximately 2.1 mL of concentrate.
- The WP Explosives standard is packaged in acetonitrile.
- 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 Explosives standards will contain a minimum of 80% of the total number of NELAC 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.

### Explosives (PT-EXP-WP)

NELAC Code	Analyte	Units	Concentration Range	PTRL
<b>Additional State Specific Analytes</b>				
9303	2-Amino-4,6-dinitrotoluene	µg/L	1.00 - 20.0	0.550
9306	4-Amino-2,6-dinitrotoluene	µg/L	1.00 - 20.0	0.550
9327	1-Chloro-2,4-dinitrobenzene	µg/L	1.00 - 20.0	NA
9330	1-Chloro-4-nitrobenzene	µg/L	1.00 - 20.0	NA
9333	4-Chloro-3-nitrotoluene	µg/L	1.00 - 20.0	NA
9366	3,5-Dichloronitrobenzene	µg/L	1.00 - 20.0	NA
9381	Dinitramine	µg/L	1.00 - 20.0	NA
6150	3,5-Dinitroaniline	µg/L	1.00 - 20.0	NA
6160	1,3-Dinitrobenzene	µg/L	1.00 - 20.0	0.550
6165	1,4-Dinitrobenzene	µg/L	1.00 - 20.0	NA
6185	2,4-Dinitrotoluene	µg/L	1.00 - 20.0	0.550
6190	2,6-Dinitrotoluene	µg/L	1.00 - 20.0	0.550
9522	HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine)	µg/L	1.00 - 20.0	0.550
9504	1,2-Naphthoquinone	µg/L	1.00 - 20.0	NA
6420	1,4-Naphthoquinone	µg/L	1.00 - 20.0	NA
5015	Nitrobenzene	µg/L	1.00 - 20.0	0.550
6485	Nitroglycerin	µg/L	1.00 - 20.0	NA
9507	2-Nitrotoluene	µg/L	1.00 - 20.0	0.550
9510	3-Nitrotoluene	µg/L	1.00 - 20.0	0.550
9513	4-Nitrotoluene	µg/L	1.00 - 20.0	0.550
6600	Pentachloronitrobenzene	µg/L	1.00 - 20.0	NA
9558	Pentaerythritoltetranitrate	µg/L	1.00 - 20.0	NA
9432	RDX (Hexahydro-1,3,5-trinitro-1,3,5-triazine)	µg/L	1.00 - 20.0	0.550
9624	2,3,4,5-Tetrachloronitrobenzene	µg/L	1.00 - 20.0	NA
6415	Tetryl (Methyl-2,4,6-trinitrophenylnitramine)	µg/L	1.00 - 20.0	0.550
9645	2,4,6-Trichloronitrobenzene	µg/L	1.00 - 20.0	NA
8295	Trifluralin (Treflan)	µg/L	1.00 - 20.0	NA
6885	1,3,5-Trinitrobenzene	µg/L	1.00 - 20.0	0.550
9651	2,4,6-Trinitrotoluene	µg/L	1.00 - 20.0	0.550