

**Instructions for:
WP Sulfide (cat # PT-S2-WP)**

STANDARD DESCRIPTION

- The WP Sulfide standard is provided in a vial that contains approximately 21 mL of concentrate.
- The WP Sulfide standard is preserved with NaOH and zinc acetate.
- Store the standard in the unopened vial refrigerated (at ~ 4°C).

ADDITIONAL INFORMATION

- The standard has been provided as a concentrate that must be diluted prior to analysis.
- The WP Sulfide standard is preserved with NaOH and zinc acetate. The zinc acetate combines with the sulfide present to form zinc sulfide, which is a precipitate. Prior to removing an aliquot for analysis, vigorously shake the vial to ensure a representative aliquot is taken.
- Due to the nature of sulfide, after dilution the standard should be analyzed as soon as possible.

STANDARD PREPARATION, ANALYSIS and STORAGE

1. For best results, the PT standard should be refrigerated and then brought to room temperature (near 20°C) when used.
2. Add approximately 900 mL of ASTM Type 1 water to a 1000 mL class A volumetric flask.
3. Shake the standard vial and then transfer exactly 10.0 mL of the PT standard concentrate to the flask using a class A volumetric pipette.
4. Bring the flask to volume with ASTM Type 1 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 the selected method(s).
7. The sample should be analyzed as soon as possible after dilution,
8. Report all results in mg/L per the reporting instructions contained in this booklet.
9. Store the diluted standard and any remaining concentrate refrigerated (at ~ 4°C).

CONCENTRATION RANGE and PTRL

- After preparation per these instructions, the standard will contain Sulfide at a certified Concentration within the range shown.
- The NELAC Proficiency Testing Reporting Limit (PTRL) is provided as guidance when analyzing NELAC PT standards. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRL shown.

Analyte	Units	Concentration Range	PTRL
Sulfide	mg/L	1.00 - 10.0	0.100