



Instructions for Catalog # 489

HEM/SGT-HEM

Revision 100713

Description:

- This standard is packaged in a 5 mL flame-sealed ampule containing approximately 5 mL of standard concentrate.
- This standard concentrate is manufactured from hexadecane and stearic acid in acetone.
- The standard concentrate should be stored at approximately 20-25°C.
- This standard will contain Hexane Extractable Materials (HEM) and Silica-Gel Treated HEM in the ranges specified on the data reporting form.

Before you begin:

- This standard has been prepared as a concentrate and must be diluted prior to analysis.
- Allow this concentrate to equilibrate to ambient temperature prior to removing aliquots for analysis.
- The standard should be extracted and analyzed as soon as possible after the concentrate has been diluted.
- This substrate is manufactured in an acetone matrix (which is volatile). Therefore, the HEM/SGT-HEM standard supplied in concentrate form must be diluted immediately after opening to avoid concentrating the HEM substrate as a result of matrix volatilization.
- This standard has been designed for use with USEPA method 1664. Please note: Infrared detection is not appropriate for this standard.

Instructions:

1. Shake the Washington TPH in Water concentrate well before withdrawing an aliquot. If a precipitate is evident, gently warm the vial in warm tap water and mix until precipitate is no longer visible.
2. Carefully snap the top off of the Washington TPH in Water ampule.
3. Using a clean, dry class A pipet or calibrated glass syringe, volumetrically transfer 2.0 mL of concentrate into a 1 liter separatory flask or 1 liter sample bottle containing 1000 mL of deionized water or deionized water containing preservative (HCl or H₂SO₄). Note: assume a final volume of 1000 mL in your final concentration calculation.
4. The sample is now ready for extraction and analysis per your normal procedures. If you are using a solid phase extraction (SPE) technique, please reference your SPE equipment manufacturer instructions for proper rinsing procedures of sample bottles and caps.
5. Report your results as mg/L for the diluted sample.

Safety:

ERA products may be hazardous and are intended for use by professional laboratory personnel trained in the competent handling of such materials. Responsibility for the safe use of these products rests entirely with the buyer and/or user. Material Safety Data Sheets (MSDS) for all ERA products are available by calling 1-800-372-0122.