



Instructions for Catalog # 1010  
Air and Emissions Semivolatiles on PUF  
Revision 071907

Description:

- This standard is packaged in two 2 mL flame-sealed ampules containing approximately 2 mL of each standard concentrate and a jar containing one polyurethane foam (PUF) sorbent (XAD-2) combination tube.
- These concentrates are not preserved.
- The solvent for these concentrates is Methanol.
- These concentrates should be stored at  $4\pm 2^{\circ}\text{C}$ .
- The PUF sorbent combination tube should be stored at room temperature and protected from UV light.
- The prepared standard will contain a subset of the analytes listed on the data reporting form in the range of 10 to 225  $\mu\text{g}/\text{sample}$  (200 – 1,000  $\mu\text{g}/\text{sample}$  for Benzidine).

Before you begin:

- This standard has been prepared as a concentrate intended for spiking onto the supplied PUF and must be prepared prior to analysis.
- The PUF sorbent combination is contained in an open ended sampling tube. Because of the porous nature of the PUF, the spiking solution containing the analytes of interest will run through the PUF upon application. Therefore, while spiking the PUF sorbent combination you must make sure all the spiking volume is transferred to the extraction apparatus. For best results, ERA suggests to place the PUF sorbent combination tube into the extraction apparatus during spiking.
- This standard should be analyzed as soon as possible after the sample is prepared using the instruction.

Instructions:

1. Take the PUF sorbent combination tube out of the container and place the PUF sorbent combination tube in your extraction apparatus.
2. Carefully snap the top off of the Base/Neutrals on PUF and the Acids on PUF ampules.
3. Using a clean, dry, class A pipet or syringe, transfer 1.0 mL of each of the concentrates onto the PUF sorbent material.
4. Extract and analyze the PUF sorbent material following your normal procedures.
5. Report your results as  $\mu\text{g}/\text{sample}$  for the prepared 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.