



Instructions for Catalog # 1101 Air and Emissions Volatiles on Sorbent

Revision 090119

Description:

- This standard is packaged in a 2 mL flame-sealed ampule containing approximately 2 mL of standard concentrate.
- This concentrate is not preserved.
- The solvent for this concentrate is Methanol.
- The concentrate should be stored at $4\pm 2^{\circ}\text{C}$.
- This product is intended to be used as a quality control check of the entire analytical process for the analytes/matrix included in the standard.
- The dilution instructions below represent the minimum suggested sample size for this product. Using a smaller sample size may invalidate the assigned value and/or uncertainty shown on the certificate of analysis.
- The certified values apply to the diluted sample after following the stated dilution instructions.

Helpful Hints:

- This standard has been prepared as a concentrate and must be prepared prior to analysis.
- When performing purge and trap analysis, there is a possibility of false positive results for some compounds (bromomethane, chloromethane and others) resulting from thermal decomposition of analytes or trap material, and/or degradation from contaminated transfer lines or traps.
- The dilution instructions presented below involve loading a liquid standard directly onto the sorbent tube. In some instances, introduction of too much Methanol in the analytical system may cause chromatographic interferences. ERA recommends purging the solvent from the tube after loading, if sorbent tube is capable of retaining analytes of interest. If this is not possible, adding a smaller volume of spike mix is appropriate. Results need to be calculated in terms of the dilution instructions provided below.
- As the prepared standard is not stable, it must be analyzed immediately after the concentrate is diluted.

Instructions:

1. Take a sorbent tube of your choice and place it near your desorption apparatus.
2. Carefully snap the top off of the Volatiles on Sorbent ampule.
3. Using a ten-microliter syringe, transfer 5.0 μL of the concentrate, into the sorbent portion of the tube.
4. Immediately place the spiked sorbent tube into your desorption apparatus and analyze following your normal procedures.

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. Safety Data Sheets (SDS) for all ERA products are available through our website www.eraqc.com.