



Instructions for Catalog # 597  
WatR™ Pollution 1,4-Dioxane  
Revision 050919

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  $4\pm 2^{\circ}\text{C}$ .
- The diluted standard will contain all of the analytes listed 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.
- As the diluted standard is not stable, it must be analyzed **immediately** after the concentrate is diluted.
- This standard is intended to accommodate multiple approaches to the analysis of this compound. Two sets of instructions are presented below to produce two different final volumes. Both dilution schemes result in the same final analyte concentration. Select dilution scheme most appropriate for your analytical method.

Instructions:

Low Sample Volume

1. Add 100 mL of organic free, deionized water to a clean 100 mL class A volumetric flask.
2. Carefully snap the top off the 1,4-Dioxane ampule.
3. Using a 25  $\mu\text{L}$  gastight syringe, transfer 10.0  $\mu\text{L}$  of the concentrate below the surface of the water in the flask.
4. Cap the flask and mix by inverting two or three times.
5. Immediately analyze the diluted sample by your normal procedures.
6. Report your results as  $\mu\text{g/L}$  for the diluted sample.

High Sample Volume

1. Add 100-200 mL of organic free, deionized water to a clean 1000 mL class A volumetric flask.
2. Carefully snap the top off the 1,4-Dioxane ampule.
3. Using a 250  $\mu\text{L}$  gastight syringe, transfer 100  $\mu\text{L}$  of the concentrate below the surface of the water in the flask and bring to final volume.
4. Cap the flask and mix by inverting two or three times.
5. Immediately analyze the diluted sample by your normal procedures.
6. Report your results as  $\mu\text{g/L}$  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.