



Instructions for Catalog # 402 WatR™ Pollution 1,4-Dioxane

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 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 μL gastight syringe, transfer 10.0 μL 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.

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 μL gastight syringe, transfer 100 μL 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.

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.