# Instructions for Catalog # 640
# Gasoline Range Organics (GRO) in Water

Revision 112211

## 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±2°C.
- The diluted standard will contain all or a subset 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.
- This standard is not compliant with the NELAC concentration ranges for the BTEX analytes. If you require a NELAC-compliant sample for these analytes, you must use WP Volatiles (# 830) or BTEX in Water (# 643).
- As the diluted standard is not stable, it must be analyzed **immediately** after the concentrate is diluted.

## Instructions:

Solvent extraction and analysis:

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 of the Gasoline Range Organics (GRO) in Water ampule.
3. Using a clean, dry, class A pipet or a syringe, transfer 1.0 mL of the concentrate below the surface of the water in the flask.
4. Dilute the flask to final volume with organic free, deionized water.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.
7. Report your results as µg/L for the diluted sample.

Purge and Trap or Headspace analysis:

1. Add 100 mL of organic free, deionized water to a clean 100 mL class A volumetric flask.
2. Carefully snap the top off of the Gasoline Range Organics (GRO) in Water ampule.
3. Using a 100 µL syringe, transfer 100 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 transfer the diluted standard to the instrument and analyze.
6. Report your results as µg/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.