



Instructions for Catalog # 1142

Air and Emissions Nitrogen Oxide in Impinger Solution

Revision 030420

Description:

- This standard is packaged in a 15 mL screw-top vial containing approximately 14 mL of standard concentrate.
- This concentrate is not preserved.
- The concentrate must be stored at room temperature.
- 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.
- This standard should be analyzed as soon as possible after the concentrate is diluted.
- When calculating final results, assume a dry gas sample volume of 1 dscm.

Instructions:

1. Add 100-200 mL of deionized water, 1.4 mL of sulfuric acid, and 3 mL of 3% hydrogen peroxide to a clean 1000 mL class A volumetric flask.
2. Shake the Nitrogen Oxide in Impinger Solution vial prior to opening.
3. Using a clean, dry, class A pipet, volumetrically pipet 5.0 mL of the concentrate into the 1000 mL volumetric flask.
4. Dilute the flask to final volume with deionized water.
5. Cap the flask and mix well.
6. 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.