



Instructions for Catalog # 1042 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.
- The diluted standard will contain Nitrogen Oxide as NO₂ in the range 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 should be analyzed as soon as possible after the concentrate is diluted.
- Be sure to report your results as Nitrogen Oxide as NO₂.
- When calculating 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.
7. Report your results as mg/dscm 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. Safety Data Sheets (SDS) for all ERA products are available through our website www.eraqc.com