



Instructions for Catalog # 1040-1 Air and Emissions Hydrogen Halides in Impinger Solution

Revision 103019

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 can be stored at room temperature.
- 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.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

Instructions:

1. Add 100-200 mL of 0.1N sulfuric acid to a clean 1000 mL class A volumetric flask.
2. Shake the Hydrogen Halides 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 0.1 N sulfuric acid.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.
7. Report your results as per the instructions in step 12.10 of Method 26A or step 12.6 of Method 26. Assume $V_{m(\text{std})}$ to be 1.0. Report your results as Hydrogen Bromide (not Br^-), Hydrogen Chloride (not Cl^-), and Hydrogen Fluoride (not F^-). Report Total Halides as the composite of the three individual halides. Report your results as mg/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.



Instructions for Catalog # 1040-2
Air and Emissions Halogens in Impinger Solution
Revision 030512

Description:

- This standard is packaged in a 15 mL screw top vial containing approximately 14 mL of standard concentrate.
- This concentrate is preserved with approximately 0.1N sodium hydroxide.
- The concentrate can be stored at room temperature.
- 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.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

Instructions:

1. Add 100-200 mL of 0.1 N sodium hydroxide to a clean 1000 mL class A volumetric flask.
2. Shake the Halogens 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 0.1 N sodium hydroxide.
5. Cap the flask and mix well.
6. Immediately analyze the diluted sample by your normal procedures.
7. You **MUST** report your results as per the instructions in step 12.10 of Method 26A or step 12.6 of Method 26. NOTE that the equations in these steps do not instruct you to correct your results for the halogens. Assume $V_{m(std)}$ to be 1.0. Report Total Halogens as the composite of the two individual halogens. Report your results as mg/L for the diluted sample.

Safety:

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