



## Instructions for Catalog # 502QR Water Pollution Total Cyanide

Revision 020122

### 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 0.2% (w/v) sodium hydroxide.
- The concentrate can be stored at room temperature.
- The diluted standard will contain total, amenable/available cyanide 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.
- Cyanide is present in a complex form (requiring distillation) and also contains an “available/amenable to chlorination” component.
- This standard should be analyzed as soon as possible after the concentrate is diluted.

### Instructions:

1. Add 100-200 mL of deionized water and approximately 1 to 2 mL of 50% sodium hydroxide to a clean 1000 mL class A volumetric flask.
2. Shake the Cyanide 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/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. Safety Data Sheets (SDS) for all ERA products are available through our website [www.eraqc.com](http://www.eraqc.com).