

Ethanolamines/Glycol Ethers

Tier 3 Procedure

Section Number: 665
Issue Number: 1.0 **Author:** Mike Buhler
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Title: Running a pH Analysis on the Cooling Tower
Reference: Orion

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665. Running a pH Analysis on the Cooling Tower

1.0 Objective:

- 1.1 The purpose of this procedure is to provide a written guide when performing a pH analysis using the Orion pH meter- Model #420A.

2.0 Safety:

- 2.1 Safety glasses are required at all times while handling chemicals in the lab.

3.0 Responsibility:

- 3.1 It is the responsibility of the Lab Technician to ensure the equipment is maintained in working condition.
- 3.2 It is the responsibility of the Lab Analyst performing the analysis to insure this procedure is followed in a safe and environmentally sound manner

4.0 Procedure:

- 4.1 Press the power button on the panel to turn on the meter.
- 4.2 Press the mode button to select the pH mode indicated by the arrow displayed on the screen.
- 4.3 Remove the probe from the solution and clean with deionized water.
- 4.4 Place the probe in a 4pH buffer solution.
- 4.5 Press the 2ND button.
- 4.6 Press the Cal button. "Ready" should be displayed on the screen at this step.
- 4.7 Press the yes button. "P1" should be displayed at this step.
- 4.8 Remove the probe from the solution and clean with deionized water.

- 4.9 Place the probe in a 7pH buffer solution.
- 4.10 Press the 2ND button.
- 4.11 Press the Cal button. "Ready" should be displayed on the screen at this step.
- 4.12 Press the yes button. "P2" should be displayed at this step.
- 4.13 Remove the probe from the solution and clean with deionized water.
- 4.14 Place the probe in a 10pH buffer solution.
- 4.15 Press the 2ND button.
- 4.16 Press the Cal button. "Ready" should be displayed on the screen at this step.
- 4.17 Press the yes button. "P3" should be displayed at this step.
- 4.18 Remove the probe from the solution and clean with deionized water.
- 4.19 Place probe in sample to be analyzed and press measure.
- 4.20 Remove the probe from the solution and clean with deionized water and leave probe submerged in a #4 buffer solution.

5.0 Revisions: