Ethanolamines/Glycol Ethers
Tier 3 Procedure

Section Number:	660	
Issue Number:	1.0	
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Title:	Running Acidities for Glycol Ether Samples	
References:	ASTM Method # D-1613-85	

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660. Running Acidities for Glycol Ether Samples

1.0 Objective:

1.1 The objective of this procedure is to provide a guide for running acidities for Glycol Ether samples in a safe and environmentally sound manner.

2.0 Responsibility:

2.1 It is the responsibility of the lab technician to provide safe and accurate means to perform this test.

2.2 It is the responsibility of the individual performing this task to follow the steps to complete the analysis.

3.0 Special Notation:

3.1 Rubber gloves are recommended to provide minimum contact with personnel but not required to perform this task.

3.2 Caution should be taken not to apply unnecessary pressure to the flex tubing causing it to break the seal on the NAOH solution container resulting in possible eye injury.

4.0 Procedure:

4.1 Fill a 250 milliliter flask with 50 millimeters of deionized water.

4.2 Add 3 drops of the phenolphthalein indicator solution.

4.3 Tritate the solution with .01 NAOH (Sodium Hydroxide) solution to the first perceptible pink color.

4.4 Add 50 milliliters of sample to the solution.

4.5 Titrate again with .01 NAOH to the first perceptible pink color originally obtained.

4.6 Calculate your results using the following formula.

V--Millimeters of NAOH Solution
N--Normality of NAOH (.01)
D--Specific Gravity of Sample

$V \times N \times 0.12 / D$