



Aqua Solutions, Inc.  
Ph: 281-479-2569  
Fax: 281-479-2790  
P.O. Box 70  
Deer Park, TX 77536  
Website: [www.aquasolutions.org](http://www.aquasolutions.org)

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**Aqua Solutions, Inc.**  
**6913 Highway 225**  
**Deer Park, TX, 77536**  
**281/479-2569**  
**Certificate of Analysis / QC Results**  
**Customer PO # :**

<b>Packaged Product:</b> VUL249F ETHYLENEDIAMINE DIHYDROCHLORIDE 1 MOLAR			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 04/27/23			
Tester AFRE			
Recorded 04/27/23			
<b>CALCULATED MOLARITY</b>	1.000 MOL/L	0.995 - 1.005	1.000
Sample ID			
Tested 04/27/23			
Tester AFRE			
Recorded 04/27/23			
<b>Actual Density</b>	1.04497 GM/ML	1.04344 - 1.04650	1.04491
Sample ID			
Tested 04/27/23			
Tester AFRE			
Recorded 04/27/23			
<b>APPEARANCE AND COLOR</b>	CLEAR TO PALE YELLOW LIQUID APPEARANCE		PASS
Sample ID			
Tested 04/27/23			
Tester AFRE			
Recorded 04/27/23			
<b>INSTRUMENTS USED DURING PREPARATION</b>	INSTRUMENT		M100,VF12-87
Sample ID			
Tested 04/27/23			
Tester AFRE			
Recorded 04/27/23			
<b>EXPIRATION DATE</b>	MM/DD/YYYY MM/DD/YYYY		04/30/24
Sample ID			
Tested 04/27/23			
Tester AFRE			
Recorded 04/27/23			
<b>Lot #</b>	3042128		
<b>Made</b>	04/20/23		



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This is to certify that the product listed above has been prepared according to the agreed upon formulation. The solutions producer has a Quality Management System which governs each step of the manufacturing process to insure the production of a consistent product. Traceability from the producer's lot numbers to the original manufacturer's lot number is maintained. Certificates of Analysis for the raw materials used to prepare this product are available upon request.

The weights and/or volumes used to prepare this product are N.I.S.T. Traceable. All balances used in the preparation of product are calibrated daily against N.I.S.T. Traceable weights. The balances are maintained and serviced on a regular basis by an outside certified company. All volumetric glassware used is N.I.S.T. Traceable and certified as meeting Class A specifications.

Unless otherwise agreed to, all chemicals used in the preparation of this product are Reagent ACS grade.

**Quality Manager**