

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

<b>Packaged Product:</b> 8638 SODIUM HYDROXIDE 0.313 NORMAL			
Test	Target/UOM	Range	Result
<b>PREPARED TO FORMULATION ON</b>	YES		YES
<b>FILE</b>	YES		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			
<b>SAMPLE COLLECTION &amp; HANDLING</b>	YES		YES
<b>PER LAB040</b>	YES		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			
<b>DATE OF SAMPLING FOR TEST</b>	MM/DD/YYYY		03/01/23
<b>PURPOSES</b>	MM/DD/YYYY		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			
<b>AMBIENT TEMPERATURE DURING</b>	25.0	10.0 - 35.0	23.5
<b>SAMPLING DEGC</b>	DEG C		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			
<b>DATE OF TESTING OF SAMPLE</b>	MM/DD/YYYY		03/01/23
	MM/DD/YYYY		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			
<b>AMBIENT TEST TEMPERATURE</b>	20.0	15.0 - 30.0	20.7
<b>DEG C</b>	DEG C		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			
<b>NORMALITY TO 4 DEC PLACES</b>	0.3130	0.3125 - 0.3135	0.3129
	EQUIV/LITER		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			
<b>QCSP7: STANDARDIZATION OF</b>	YES		YES
<b>AQUEOUS BASES</b>	METHOD		
Sample ID			
Tested 03/01/23			
Tester CCOA			
Recorded 03/01/23			

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<b>N.I.S.T. Traceable to SRM 84</b>	YES	YES
	YES	
Sample ID		
Tested 03/01/23		
Tester CCOA		
Recorded 03/01/23		
<b>APPEARANCE AND COLOR</b>	<b>CLEAR LIQUID APPEARANCE</b>	<b>PASS</b>
Sample ID		
Tested 03/01/23		
Tester CCOA		
Recorded 03/01/23		
<b>INSTRUMENTS USED DURING PREPARATION</b>	<b>INSTRUMENT</b>	<b>M87,T-71,BID-00488,PID-M91</b>
Sample ID		
Tested 03/01/23		
Tester CCOA		
Recorded 03/01/23		
<b>EXPIRATION DATE</b>	<b>MM/DD/YY</b>	<b>03/30/25</b>
	<b>MM/DD/YYYY</b>	
Sample ID		
Tested 03/01/23		
Tester CCOA		
Recorded 03/01/23		
<b>SHELF LIFE OF PRODUCT</b>	<b>SHELF LIFE TIME</b>	<b>2 YEARS</b>
Sample ID		
Tested 03/01/23		
Tester CCOA		
Recorded 03/01/23		
<b>Actual Density</b>	<b>1.01211</b>	<b>1.01199 - 1.01224</b>
	<b>GM/ML</b>	<b>1.01216</b>
Sample ID		
Tested 03/01/23		
Tester CCOA		
Recorded 03/01/23		
<b>Lot #</b>	<b>3010949</b>	
<b>Made</b>	<b>03/01/23</b>	

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.



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)

Page: 3

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

**Quality Manager**