

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME: AE1-CTY 3.2.Z-PR-DOCK-DES-ODC - 60693795-1719206

AECOM

605 3rd Avenue

29th Floor

New York, NY - 10158

Phone No: 212-973-2900

ORDER ID: Q3434

ATTENTION: Rob Forstner





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Cover Page

Order ID: Q3434

Project ID: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Client: **AECOM**

Lab Sample Number

Client Sample Number

Q3434-01 PR132-WC1-20251022 Q3434-02 PR132-WC2-20251022 TB

Q3434-03

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: 11/3/2025 Date:

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

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284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

AECOM

Project Name: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Project # N/A Order ID # Q3434

Test Name: Corrosivity, Flash Point, Ignitability, pH, Reactive Cyanide, Reactive

Sulfide, TPH

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 10/22/2025.

1 Water sample was received on 10/22/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Flash Point, Ignitability, pH, Reactive Cyanide, Reactive Sulfide, TPH. This data package contains results for Corrosivity, Flash Point, Ignitability, pH, Reactive Cyanide, Reactive Sulfide, TPH.

C. Analytical Techniques:

The analysis of Flash Point was based on method 1010B, The analysis of Ignitability was based on method 1030, The analysis of TPH was based on method 1664A, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034, The analysis of pH was based on method 9040C, The analysis of Corrosivity was based on method 9045D.

D. QA/ QC Samples:

The Holding Times were met for all samples except for PR132-WC1-20251022 of Corrosivity and for PR132-WC2-20251022 of pH as samples were receive out of holding time.

The Blank Spike met requirements for all compounds.

The Duplicate analysis met criteria for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

As per method 1664A, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD were not performed for this project.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).									
U	Indicates the analyte was analyzed for, but not detected.									
ND	Indicates the analyte was analyzed for, but not detected									
E	Indicates the reported value is estimated because of the presence of interference									
M	Indicates Duplicate injection precision not met.									
N	Indicates the spiked sample recovery is not within control limits.									
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).									
*	Indicates that the duplicate analysis is not within control limits.									
+	Indicates the correlation coefficient for the MSA is less than 0.995.									
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.									
M	Method qualifiers "P" for ICP instrument "PM" for ICP when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed									

Q Indicates the LCS did not meet the control limits requirements

instrument for that specific analysis.

Indicates the analyte's concentration exceeds the calibrated range of the

H Sample Analysis Out Of Hold Time

OR

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ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDE	R ID: Q3434 MATR	IX: Soil/Water			
METH	OD: 1010B,1030,1664A,9012B,9034,9040C,9045D,				
1.	Blank Contamination - If yes, list compounds and concentrations in each	ı blank:	NA	NO ✓	YES
2.	Matrix Spike Duplicate Recoveries Met Criteria				✓
	If not met, list those compounds and their recoveries which fall outside trange.	the acceptable			
	The Blank Spike met requirements for all compounds.				
3.	Sample Duplicate Analysis Met QC Criteria				✓
	If not met, list those compounds and their recoveries which fall outside trange.	the acceptable			
4.	Digestion Holding Time Met			✓	
	If not met, list number of days exceeded for each sample:				
	The Holding Times were met for all samples except for PR132-WC1-20 Corrosivity and for PR132-WC2-20251022 of pH as samples were received holding time.				
ADDIT	IONAL COMMENTS:				
As per r	method 1664A, MS/MSD is required to be performed with the sample anal	lysis. However, La	ıb did no	ot receive	e
sufficier	nt volume to perform the MS/MSD therefore MS/MSD were not performe	d for this project.			
QA RE	VIEW	Date			

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3434

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u>√</u> <u>√</u> <u>√</u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	' ' ' <u>'</u> <u>'</u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI Date: 11/03/2025

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LAB CHRONICLE

OrderID: Q3434 **OrderDate:** 10/22/2025 1:40:00 PM

 Client:
 AECOM

 Project:
 AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Contact: Rob Forstner Location: D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3434-01	PR132-WC1-2025102 2	SOIL			10/22/25 10:18			10/22/25
	-		Corrosivity	9045D	10.10		10/22/25 15:44	
			Ignitability	1030			10/24/25 09:50	
			Reactive Cyanide	9012B		10/24/25	10/24/25 14:37	
			Reactive Sulfide	9034		10/24/25	10/24/25 13:33	
Q3434-02	PR132-WC2-2025102 2	Water			10/22/25 10:30			10/22/25
	2		Flash Point	1010B	10.30		10/23/25 09:30	
			рН	9040C			10/23/25 08:50	
			Reactive Cyanide	9012B		10/24/25	10/24/25 14:37	
			Reactive Sulfide	9034		10/24/25	10/24/25 13:23	
			ТРН	1664A			10/27/25 10:30	

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SAMPLE DATA

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789 8900,

Fax: 908 789 8922

Report of Analysis

Client: AECOM

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Client Sample ID: PR132-WC1-20251022

Lab Sample ID: Q3434-01

Date Collected: 10/22/25 10:18

Date Received: 10/22/25 SDG No.: Q3434

Matrix: SOIL

% Solid: 57.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	8.62	Н	1	0	0	pН		10/22/25 15:44	9045D
Ignitability	NO		1	0	0	oC		10/24/25 09:50	1030
Reactive Cyanide	0.049	U	1	0.0083	0.049	mg/Kg	10/24/25 12:15	10/24/25 14:37	9012B
Reactive Sulfide	3.17	J	1	0.20	10.0	mg/Kg	10/24/25 11:15	10/24/25 13:33	9034

Comments: pH result reported at temperature 20.1 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Report of Analysis

Client: AECOM

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Client Sample ID: PR132-WC2-20251022

Lab Sample ID: Q3434-02

Date Collected: 10/22/25 10:30

0

Date Received: 10/22/25 SDG No.: Q3434

Matrix: Water

% Solid:

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Flash Point	>212		1	0	0	o F		10/23/25 09:30	1010B
pH	7.77	Н	1	0	0	pН		10/23/25 08:50	9040C
Reactive Cyanide	0.0050	U	1	0.00096	0.0050	mg/L	10/24/25 12:15	10/24/25 14:37	9012B
Reactive Sulfide	1.00	U	1	0.43	1.00	mg/L	10/24/25 11:15	10/24/25 13:23	9034
TPH	3.40	J	1	0.29	5.00	mg/L		10/27/25 10:30	1664A

Comments: Other method reference for flash point: Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34, pH result reported at temperature

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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QC RESULT SUMMARY



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Initial and Continuing Calibration Verification

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **RunNo.:** LB137618

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Corrosivity	ICV	рН	7.00	7	100	90-110	10/22/2025
Sample ID: Corrosivity	CCV1	рН	2.01	2.00	101	90-110	10/22/2025
Sample ID: Corrosivity	CCV2	рН	12.02	12.00	100	90-110	10/22/2025

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Initial and Continuing Calibration Verification

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **RunNo.:** LB137621

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV	Нд	7.00	7	100	90-110	10/23/2025
Sample ID:	CCV1	Нд	2.01	2.00	101	90-110	10/23/2025
Sample ID:	CCV2	рН	12.02	12.00	100	90-110	10/23/2025

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Initial and Continuing Calibration Verification

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **RunNo.:** LB137627

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Flash Point	ICV	o F	82.7	81	102	78-84	10/23/2025

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Initial and Continuing Calibration Verification

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **RunNo.:** LB137639

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Reactive	ICV1 Cyanide	mg/L	0.096	0.099	97	85-115	10/24/2025
Sample ID: Reactive	CCV1 Cyanide	mg/L	0.24	0.25	96	90-110	10/24/2025
Sample ID: Reactive	CCV2 Cyanide	mg/L	0.24	0.25	96	90-110	10/24/2025
Sample ID: Reactive	CCV3 Cyanide	mg/L	0.25	0.25	100	90-110	10/24/2025

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Initial and Continuing Calibration Blank Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **RunNo.:** LB137639

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/24/2025
Sample ID: CCB1 Reactive Cyanide	mg/L	0.0017	0.0025	J	0.00096	0.005	10/24/2025
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/24/2025
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	10/24/2025

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Preparation Blank Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB1376	51BL mg/L	< 2.5000	2.5000	U	0.29	5.0	10/27/2025
Sample ID:	PB1702	41BL						
Reactive	Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	10/24/2025
Sample ID:	PB1702	44BL						
Reactive	Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	10/24/2025
Sample ID:	PB1702	45BL						
Reactive	Sulfide	mg/L	< 0.5000	0.5000	U	0.43	1	10/24/2025
Sample ID:	PB1702	48BL						
Reactive	Cyanide	mg/L	0.0014	0.0025	J	0.00096	0.005	10/24/2025

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Duplicate Sample Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **Sample ID:** LB137651BS

Client ID: LB137651BSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
ТРН	mg/L	+/-18	16.7		17.0		1	1.78		10/27/2025	

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Duplicate Sample Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **Sample ID:** Q3427-01

Client ID: TP-8DUP Percent Solids for Spike Sample: 90.3

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Ignitability	оC	+/-20	NO		NO		1	0		10/24/2025	

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Duplicate Sample Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **Sample ID:** Q3427-04

Client ID: TP-8DUP Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity Reactive Cyanide	pH mg/Kg	+/-20 +/-20	6.20 0.0083	U	6.22 0.0083	U	1 1	0.32 0		10/22/2025 10/24/2025

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Duplicate Sample Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **Sample ID:** Q3434-01

Client ID: PR132-WC1-20251022DUP Percent Solids for Spike Sample: 57.9

	** •	Acceptance Limit	Sample Result	Conc. Oualifier	Duplicate Result	Conc. Oualifier	Dilution	RPD/ AD	Qual	Analysis	
Analyte	Units	Limit	Kesuit	Quaimer	Resuit	Qualifier	Factor	AD	Quai	Date	-
Reactive Sulfide	mg/Kg	+/-20	3.17	J	3.17	J	1	0		10/24/2025	

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Duplicate Sample Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **Sample ID:** Q3434-02

Client ID: PR132-WC2-20251022DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
pН	pН	+/-20	7.77		7.79		1	0.26		10/23/2025
Flash Point	o F	+/-2	>212.0		>212.0		1	0		10/23/2025
Reactive Cyanide	mg/L	+/-20	0.00096	U	0.00096	U	1	0		10/24/2025
Reactive Sulfide	mg/L	+/-20	0.43	U	0.43	U	1	0		10/24/2025

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Laboratory Control Sample Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **Run No.:** LB137651

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137651BS								
ТРН		ma/I	20.0	16.7		84	1	78_114	10/27/2025

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 $284 \; Sheffield \; Street, \; Mountainside, \; New \; Jersey \; 07092, \; Phone: \; 908 \; 789 \; 8900, \\$

Fax: 908 789 8922

Laboratory Control Sample Summary

Client: AECOM SDG No.: Q3434

Project: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206 **Run No.:** LB137651

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB137651BSD								
TPH		mg/L	20.0	17.0		85	1	78-114	10/27/2025

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RAW DATA

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Analytical Summary Report

Analysis Method: 9045D Analyst By : jignesh

Parameter: Corrosivity Supervisor Review By : Iwona

Run Number: LB137618 **Slope :** 98.6

BalanceID: WC SC-7 pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	w3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/-0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	10/22/2025	15:10
2	CAL2	1	Water	NA	NA	20.2	7.01	10/22/2025	15:11
3	CAL3	1	Water	NA	NA	20.3	10.02	10/22/2025	15:15
4	ICV	1	Water	NA	NA	20.1	7.00	10/22/2025	15:20
5	CCV1	1	Water	NA	NA	20.2	2.01	10/22/2025	15:22
6	Q3427-04	1	Solid	20.02	20	20.8	6.20	10/22/2025	15:35
7	Q3427-04DUP	1	Solid	20.03	20	20.9	6.22	10/22/2025	15:37
8	Q3434-01	1	Solid	20.02	20	20.1	8.62	10/22/2025	15:44
9	CCV2	1	Water	NA	NA	20.2	12.02	10/22/2025	15:45

Q3434-GENCHEM 29 of 126

Reviewed By:Iwona On:10/23/2025 10:32:23 AM Inst Id :WC PH METER-1

Page 1 of 1

Date/Time (U()2/1/5

Raw Sample Relinquished by: Raw Sample Received by:

Raw Sample Relinquished by:

Bate/Time (0(12/1/5 151.00 Raw Sample Received by:

8197618	Date: 10-22-2025 12:38:42	Raw Sample Storage Collect Date Method Location		D41 10/21/2025 9045D	100000000	U/ZZ/ZUZ5 9045D
	Department: Wet-Chemistry	Customer		PSEG03	AECO02	
WORKLIST(Hardcopy Internal Chain)	Department :	Preservative		Cool 4 deg C	Cool 4 deg C	
WORKLIST(F	WorkList ID: 192613	Matrix Test	: · · · · · · · · · · · · · · · · · · ·	Solid Corrosivity	Solid Corrosivity	
	corrsovity q3427	Customer Sample	TP-8		PR132-WC1-20251022	
Q3434-0	WorkList Name:	Sample M	Q3427-04		Q3434-01	



Analytical Summary Report

Aliance TECHNICAL GROUP

Analysis Method: 9040C Analyst By : jignesh

Parameter: pH Supervisor Review By : Iwona

Run Number: LB137621 **Slope :** 98.4

pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER, COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/-0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.02	10/23/2025	08:35
2	CAL2	1	Water	NA	NA	20.2	7.01	10/23/2025	08:36
3	CAL3	1	Water	NA	NA	20.2	10.02	10/23/2025	08:37
4	ICV	1	Water	NA	NA	20.3	7.00	10/23/2025	08:39
5	CCV1	1	Water	NA	NA	20.3	2.01	10/23/2025	08:40
6	Q3434-02	1	Water	NA	NA	20.7	7.77	10/23/2025	08:50
7	Q3434-02DUP	1	Water	NA	NA	20.3	7.79	10/23/2025	08:52
8	CCV2	1	Water	NA	NA	20.3	12.02	10/23/2025	08:55

Q3434-GENCHEM 31 of 126

NB 134621

WORKLIST(Hardcopy Internal Chain)

Date: 10-23-2025 08:18:10 Collect Date Method 10/22/2025 9040C Raw Sample Location Storage **D41** Customer AEC002 Department: Wet-Chemistry Cool 4 deg C Preservative WorkList ID: 192628 Test 듄 Matrix Water PR132-WC2-20251022 **Customer Sample** MorkList Name:
Sample Q3434-02 N

Date/Time 10 12 1/3

Reviewed By:Iwona On:10/23/2025 10:32:14 AM Inst Id :WC PH METER-1

13:00

Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1

Raw Sample Relinquished by:

Raw Sample Received by:

PH W Q3434





Analytical Summary Report

Analysis Method: 1010B Reviewed By: rubina

Parameter: Flash Point Supervisor Review By: Iwona

Run Number: LB137627 Ambient Barometric Pressure (mmHg): 755.00

Thermometer ID: Flash Point Barometric Scale ID: 0511064

Reagent/Standard	Lot/Log #
p-xylene (ICV)	W3242

Seq	LabID	True Value °F	DL	Initial Sample °C	Celsius °C	Result °F	Final Result °F	Anal Date	Anal Time
1	ICV	81	1	9	28.00	82.4	82.7	10/23/2025	09:00
2	Q3434-02		1	13	100.00	>212.0	>212.0	10/23/2025	09:30
3	Q3434-02DUP		1	13	100.00	>212.0	>212.0	10/23/2025	10:35

Result = (Celsius * 1.8) + 32

Final Result = Result + (760 - Ambient Barometric Pressure) * 0.06

Q3434-GENCHEM 33 of 126

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Reviewed By:lwona On:10/23/2025 4:19:07 PM Inst Id :IGN-1 LB :LB137627

12 (ca) C/

1012312025

Date/Time

Raw Sample Relinquished by:

Raw Sample Received by:

Page 1 of 1

NA 10(23/2025 Raw Sample Relinquished by: Raw Sample Received by:

WORKLIST (Hardcopy Internal Chain)

Department: WorkList ID: 192645

Preservative

Test

Matrix

Customer Sample

Sample

Wet-Chemistry

Customer

Date: 10-23-2025 08:15:27 Raw Sample

Collect Date Method

Storage Location 10/22/2025 1010B

D41

AECO02

Cool 4 deg C

Flash Point

Water

PR132-WC2-20251022

Q3434-02

Lb 137627

WorkList Name: Q3434-GENCHEM

fp-10-23.

Date/Time

Reviewed By:Iwona On:10/27/2025 11:49:31 AM Inst Id :Konelab 20 LB :LB137639 LB:LB137639 LB:LB13769 LB:LB1376 LB

10

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : ____RM ____ Instrument ID : Konelab

10/24/2025 14:53

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	95.875	0.0	0.083	
ICB1	0.929	0.0	0.001	
CCV1	242.157	0.0	0.210	
CCB1	1.670	0.0	0.002	
PB170248BL	1.425	0.0	0.001	
Q3434-02	0.658	0.0	0.001	
Q3434-02DUP	0.632	0.0	0.001	
PB170241BL	0.691	0.0	0.001	
Q3427-04	0.741	0.0	0.001	
Q3427-04DUP	0.819	0.0	0.001	
Q3434-01	0.798	0.0	0.001	
Q3439-04	0.829	0.0	0.001	
Q3439-08	0.692	0.0	0.001	
Q3440-04	0.661	0.0	0.001	
CCV2	244.758	0.0	0.212	
CCB2	0.932	0.0	0.001	
Q3449-06	0.817	0.0	0.001	
Q3451-04	0.711	0.0	0.001	
Q3451~08	0.548	0.0	0.001	
Q3452-04	0.614	0.0	0.001	
CCV3	245.709	0.0	0.213	
CCB3	0.812	0.0	0.001	
N	22			
Mean	38.340			
SD	86.1300			
	55.1500			

224.65

Q3434-GENCHEM

CV%

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

10/24/2025 10:33

Test Total CN

Accepted

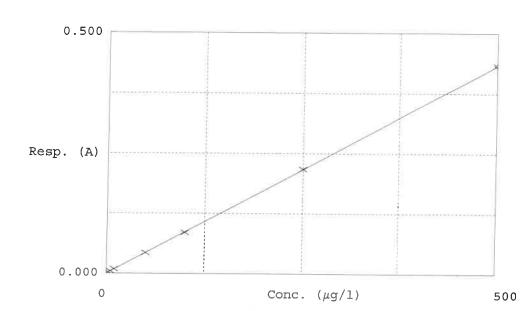
10/24/2025 10:32

Factor Bias

1156

Coeff. of det 0.999979

Errors



~	Calibrator	Response	Calc. con.	Conc.	ic Errors
1 2 3 4 5 6 7	0.0PPBCN 5.0PPBCN 10PPBCN 50PPBCN 100PPBCN 250PPBCN 500PPBCN	0.000 0.005 0.009 0.043 0.085 0.217 0.433	0.4210 5.3168 10.3413 49.7338 98.3173 251.0332 499.8365	0.0000 5.0000 10.0000 50.0000 100.0000 250.0000 500.0000	6.3 3.4 -0.5 -1.7 0.4 0.0

10/24/2025 RM

Q3434-GENCHEM

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Aquakem v. 7.2AQ1

Results from time period:

Fri Oct 24 14:29:30 2025

Fri Oct 24 14:51:24 2025

111 000 24 14.0	71.24 2020						
Sample Id	Sam/Ctr	/c/ Test shor	t r Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	Α	Total CN	Р	0.421	µg/l	10/24/2025 10:32:07	
5.0PPBCN	Α	Total CN	Р	5.3168	µg/l	10/24/2025 10:32:08	
10PPBCN	Α	Total CN	Р	10.3413	µg/l	10/24/2025 10:32:09	
50PPBCN	Α	Total CN	Р	49.7338	µg/l	10/24/2025 10:32:10	
100PPBCN	Α	Total CN	Р	98.3173	µg/l	10/24/2025 10:32:11	
250PPBCN	Α	Total CN	Р	251.0332	µg/l	10/24/2025 10:32:12	
500PPBCN	Α	Total CN	Р	499.8365	µg/l	10/24/2025 10:32:13	
ICV1	S	Total CN	Р	95.8752	μg/l	10/24/2025 14:29:31	
ICB1	S	Total CN	Р	0.9289	µg/l	10/24/2025 14:29:32	
CCV1	S	Total CN	Р	242.1566	µg/l	10/24/2025 14:29:35	
CCB1	S	Total CN	Р	1.6704	µg/l	10/24/2025 14:29:36	
PB170248BL	S	Total CN	Р	1.4249	µg/l	10/24/2025 14:29:39	
Q3434-02	S	Total CN	Р	0.6582	µg/l	10/24/2025 14:37:05	
Q3434-02DUP	S	Total CN	Р	0.6321	µg/l	10/24/2025 14:37:07	
PB170241BL	S	Total CN	Р	0.6912	µg/l	10/24/2025 14:37:08	
Q3427-04	S	Total CN	P	0.741	µg/l	10/24/2025 14:37:10	
Q3427-04DUP	S	Total CN	Р	0.8189	µg/l	10/24/2025 14:37:13	
Q3434-01	S	Total CN	Р	0.7981	µg/l	10/24/2025 14:37:14	
Q3439-04	S	Total CN	Р	0.8291	µg/l	10/24/2025 14:37:15	
Q3439-08	S	Total CN	Р	0.6918	µg/l	10/24/2025 14:44:37	
Q3440-04	S	Total CN	Р	0.6607	ug/l	10/24/2025 14:44:38	
CCV2	S	Total CN	Р	244.758 μ	ıg/l	10/24/2025 14:44:42	
CCB2	S	Total CN	Р	0.9325 µ	ıg/l	10/24/2025 14:44:45	
Q3449-06	S	Total CN	Р	0.8173 բ	ıg/l	10/24/2025 14:44:46	
Q3451-04	S	Total CN	Р	0.7107 µ	ıg/l	10/24/2025 14:44:47	
Q3451-08	S	Total CN	Р	0.5481 µ	ıg/l	10/24/2025 14:51:16	
	S	Total CN	Р	0.6139 μ	ıg/l	10/24/2025 14:51:17	
	S	Total CN	P	245.7085 μ	ıg/l	10/24/2025 14:51:22	
CCB3	S	Total CN	P	0.8119 µ	ıg/l	10/24/2025 14:51:24	

Q3434-GENCHEM **37 of 126**





Analytical Summary Report

Analysis Method: 1030 Reviewed By: Eman

Parameter: Ignitability Supervisor Review By: Iwona

Run Number: LB137640

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q3427-01	TP-8	1	Solid	NO	0.00	10/24/2025	09:27
2	Q3427-01DUP	TP-8DUP	1	Solid	NO	0.00	10/24/2025	09:35
3	Q3427-04	TP-8	1	Solid	NO	0.00	10/24/2025	09:43
4	Q3434-01	PR132-WC1-20251022	1	Solid	NO	0.00	10/24/2025	09:50
5	Q3439-01	TP-9	1	Solid	NO	0.00	10/24/2025	09:57
6	Q3439-04	TP-9	1	Solid	NO	0.00	10/24/2025	10:05
7	Q3439-05	TP-10	1	Solid	NO	0.00	10/24/2025	10:12
8	Q3439-08	TP-10	1	Solid	NO	0.00	10/24/2025	10:20
9	Q3440-01	JB-2	1	Solid	NO	0.00	10/24/2025	10:27
10	Q3440-04	JB-2	1	Solid	NO	0.00	10/24/2025	10:35
11	Q3446-01	SB-14	1	Solid	YES	0.69	10/24/2025	10:42
12	Q3446-02	SB-15	1	Solid	NO	0.00	10/24/2025	10:50
13	Q3446-03	SB-16	1	Solid	NO	0.00	10/24/2025	10:57
14	Q3446-04	SB-17	1	Solid	NO	0.00	10/24/2025	11:05
15	Q3446-05	SB-18	1	Solid	NO	0.00	10/24/2025	11:12
16	Q3446-06	SB-19	1	Solid	NO	0.00	10/24/2025	11:20
17	Q3446-07	SB-20	1	Solid	NO	0.00	10/24/2025	11:27
18	Q3446-08	SB-21	1	Solid	NO	0.00	10/24/2025	11:35

Burning Rate = Length(mm)

Total Time(sec)

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Q3434-GENCHEM

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2

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16137890

WORKLIST(Hardcopy Internal Chain)

WorkList Name :	IGN-102425	WorkList ID :	ID: 192656	Department :	Wet-Chemistry	9		0.000
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location		ect Date Method
Q3427-01	TP-8				Section 200			
10700		Solid	Ignitability	Cool 4 deg C	PSEG03	D41	10/21/2025	1030
U3427-04	TP-8	Solid	Ignitability	Cool 4 dea C	DAECOS	200	202	2001
Q3434-01	PR132-WC1-20251022	Solid	lanitability	0 20 7 1000	20210	140	10/21/2025	1030
Q3439-01	TP-9	Filod	() ()	Cool 4 ueg C	AECO02	D41	10/22/2025	1030
Q3439-04	TP-0		ignitability	Cool 4 deg C	PSEG03	D41	10/22/2025	1030
03439-05	TD 40	DIIOS	Ignitability	Cool 4 deg C	PSEG03	D41	10/22/2025	1030
03430 00		Solid	Ignitability	Cool 4 deg C	PSEG03	D41	10/23/2025	1030
00-60-00	18-10	Solid	Ignitability	Cool 4 dea C	PSEC03	25		
Q3440-01	JB-2	Solid	lanitability	0.000	25002	1.40	10/23/2025	1030
Q3440-04	JB-2	73.00		Cool 4 deg C	PSEG03	D41	10/22/2025	1030
03448.04		Dilloc	ignitability	Cool 4 deg C	PSEG03	D41	10/22/2025	1030
	SB-14	Solid	Ignitability	Cool 4 deg C	PSEG03	D34	10/09/0005	7007
Q3446-02	SB-15	Solid	Ignitability	Cool 4 dea C	100		10/23/2020	1030
Q3446-03	SB-16	Solid	lonitabiliby		P3EG03	D31	10/23/2025	1030
Q3446-04	SB-17		famous .	Coal 4 deg C	PSEG03	D31	10/23/2025	1030
03446 or	:	Solid	Ignitability	Cool 4 deg C	PSEG03	D31	10/23/2025	1030
C2440-02	SB-18	Solid	Ignitability	Cool 4 deg C	PSEG03	D34		
Q3446-06	SB-19	Solid	lanitahility	0 - 1 - 1		3	10/23/2025	1030
Q3446-07	SB-20	7	in the second se	Cool 4 deg C	PSEG03	D31	10/23/2025	1030
Q3446-08	SB-24		gnitability	Cool 4 deg C	PSEG03	D31	10/23/2025	1030
	12-00	Solid	Ignitability	Cool 4 deg C	PSEG03	D31	10/23/2025	1030
							200000000000000000000000000000000000000	200

FM WC 10 24 25 12,00 Raw Sample Received by: M. Cell C. Raw Sample Relinquished by: Date/Time

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J856

Raw Sample Relinquished by:

WorkList Name: IGN-102425

Date/Time 10 24 25 Raw Sample Received by:



Analysis Method: 9034

Parameter: Reactive Sulfide

Run Number: LB137644

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

Constant: 16000

Normality1: 0.025

Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE, 0.025N, 4LITRE	W3248
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Volume (mL)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff.	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB170245BL		1	50	50	2.00	0.00	1.92	1.92	0.08	0.00	0.00	10/24/2025	13:20
2	Q3434-02		1	50	50	2.00	0.00	1.88	1.88	0.12	0.04	0.32	10/24/2025	13:23
3	Q3434-02DUP		1	50	50	2.00	0.00	1.88	1.88	0.12	0.04	0.32	10/24/2025	13:26

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

Analysis Method: 9034

Parameter: Reactive Sulfide

Run Number: LB137645

ANALYST: rubina

SUPERVISOR REVIEW BY: Iwona

Constant: 16000

Normality1: 0.025

Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE, 0.025N, 4LITRE	W3248
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB170244BL		1	5.00	50	2.00	0.00	1.92	1.92	0.08	0.00	0.00	10/24/2025	13:30
2	Q3434-01		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	10/24/2025	13:33
3	Q3434-01DUP		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	10/24/2025	13:36
4	Q3439-04		1	5.01	50	2.00	0.00	1.86	1.86	0.14	0.06	4.79	10/24/2025	13:38
5	Q3439-08		1	5.06	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	10/24/2025	13:40
6	Q3440-04		1	5.04	50	2.00	0.00	1.88	1.88	0.12	0.04	3.17	10/24/2025	13:43
7	Q3449-06		1	5.01	50	2.00	0.00	1.90	1.90	0.10	0.02	1.60	10/24/2025	13:46

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume



Extraction and Analytical Summary Report

Analysis Method: 1664A

Test: $\overline{\text{TPH}}$

Run Number: LB137651

Analysis Date: 10/27/2025

BalanceID: WC SC-5

OvenID: EXT OVEN-3

ANALYST: jignesh

REVIEWED BY: Iwona

Extraction Date: 10/27/2025

Extration IN Time: 09:00

Extration OUT Time: $\overline{09:35}$

Thermometer ID: EXT OVEN#3

Dish #	Lab ID	Client ID	Matrix	рH	Sample Vol (ml)	Final Volume (ml)	Empty Dish Weight (g)	Final Empty Dish Weight(g)	Silica Gel Weight(g)	Weight After Drying(g)	Final Weight After Drying(g)	Change Weight (g)	Result in ppm
1	LB137651BL	LB137651BL	WATER	1.3	1000	100	2.4416	2.4416	3.01	2.4417	2.4417	0.0001	0.1
2	LB137651BS	LB137651BS	WATER	1.3	1000	100	3.1258	3.1258	3.02	3.1425	3.1425	0.0167	16.7
3	LB137651BSD	LB137651BSD	WATER	1.3	1000	100	2.7013	2.7013	3.03	2.7183	2.7183	0.0170	17
4	Q3428-01	Grab	WATER	1.6	1000	100	3.0527	3.0527	3.05	3.0589	3.0589	0.0062	6.2
5	Q3434-02	PR132-WC2-20251022	WATER	1.3	1000	100	3.0375	3.0375	3.02	3.0409	3.0409	0.0034	3.4
6	Q3455-01	MH-10242025	WATER	1.6	1000	100	3.0349	3.0349	3.04	3.0792	3.0792	0.0443	44.3

Q3434-GENCHEM **42 of 126**

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QC Batch# LB137651

Test: TPH

Analysis Date: 10/27/2025

Chemicals Used:

Chemical Name	Chemical Lot #
HEXANE	W3240
pH Paper 0-14	М6069
Sodium Sulfate	EP2655
1:1 HCL	WP115016
Silica Gel	W3246
Sand	N/A

Standards Used:

Standard Name	Amount Used	Standard Lot #
LCSW	5.00 ML	WP115017
LCSWD	5.00 ML	WP115018
MS/MSD	N/A	N/A

BALANCE CALIBRATION / OVEN Dessicator Data

Analytical Balance ID # : WC SC-6

Before Analysis

0.0020 gram Balance: 0.0018 (0.0018-0.0022) In OVEN TEMP1 : 71 °C Dessicator Time In1 : 11:26

1.0000 gram Balance: 1.0004 (0.9950-1.0050) In Time1: 10:30

Bal Check Time: 09:10 Out OVEN TEMP1: 71 °C Dessicator Time Out1: 12:10

Out Time1: 11:25

After Analysis

0.0020 gram Balance: 0.0019 (0.0018-0.0022) In OVEN TEMP2 : 70 °C Dessicator Time In2 : 13:26

1.0000 gram Balance: 1.0005 (0.9950-1.0050) In Time2: 12:47

Bal Check Time: 14:02 Out OVEN TEMP2: 71 °C Dessicator Time Out2: 14:00

Out Time2: 13:25

Reviewed By:Iwona On:10/28/2025 10:55:05 AM Inst Id :WC SC-3 LB :LB137651

Date: 10-27-2025 07:53:22

Collect Date Method

Raw Sample

Storage

Customer

Preservative

Test

Matrix

Customer Sample

Location

1664A

10/22/2025

10/24/2025 1664A

10/22/2025 1664A

J13 D41 **D31**

ARAM01 AECO02 EUR003

Conc H2SO4 to pH < 2 Conc H2SO4 to pH < 2 Conc H2SO4 to pH < 2

표 TPH TPH

Water Water Water

PR132-WC2-20251022

Q3434-02 C

Grab

Q3428-01

MH-10242025

8

Q3455-01

(3/KE) SM

WorkList ID: 192684

WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry

Date/Time (0) 14125 Raw Sample Received by:

Raw Sample Relinquished by:

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01:18

Raw Sample Relinquished by:

(A/4/1) Raw Sample Received by: 44 of 126

tph q3455



Soil/Sludge Reactive Cyanide Preparation Sheet

PB170241

10

SOP	TD:	M9012B-Total.	Amenable	and Doactive
JUF	ID.	MOUTED-IOLAI,	Amenable	and keactive

Cyanide-21 SDG No: N/A

Start Digest Date: 10/24/2025 Time: 12:15 Temp: N/A Matrix: SOIL **End Digest Date:** 10/24/2025 Time: 13:45 Temp: N/A

Pippete ID: N/A

Balance ID: WC SC-7

Hood ID: HOOD#1 Digestion tube ID: M5595 **Block Thermometer ID:** N/A

Block ID: MC-1,MC-2 Filter paper ID: N/A RM **Prep Technician Signature:**

Weigh By: RM pH Meter ID: N/A 12 **Supervisor Signature:**

Standared Name	MLS USED	STD REF. # FROM LOG	
PBS003	50.0ML	W3112	
N/A	N/A	N/A	

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time Prepped Sample Relinquished By/Location	Received By/Location
10/24/2025 13:55 RM (WE)	RHWG
Preparation Group	Analysis Group



Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Pre
PB170241BL	PBS241	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3427-04DUP	TP-8DUP	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3427-04	TP-8	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3434-01	PR132-WC1-20251022	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3439-04	TP-9	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3439-08	TP-10	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3440-04	JB-2	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
23449-06	CF-620-COMP-41	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
(3451-04	TP-11	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
3451-08	TP-12	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
3452-04	JB-1	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A

Q3434-GENCHEM **46 of 126**

WORKLIST (Hardcopy Internal Chain)

WorkList Name :	RCN-10-24-	WorkList ID:	ID: 192668	Department :	Distillation	í		
						Date:	: 10-24-2025 10:23:19	10:23:19
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	ethod
Q3427-04	TP-8	7,100	:					
		DIIOS	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	40/04/2005	1
Q3434-01	PR132-WC1-20251022	Solid	Reactive Cvanide	Cash A Jacob			10/2 1/2023 9012B	1ZB
Q3439-04	TP-9	1 2		Cool 4 deg C	AECO02	D41	10/22/2025 9012B	12B
00,000		Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D41	10/22/2025 00425	200
43439-08	TP-10	Solid	Reactive Cvanide	0 - 1 7			10/22/2023 90	128
Q3440-04	.IB_2		opundo organi	Cool 4 deg C	PSEG03	D41	10/23/2025 9012B	12B
	2-00	Solid	Reactive Cyanide	Cool 4 den C	Derroo			
Q3449-06	CF-620-COMP-41	Filos	Doodfan O	S S S S S S S S S S S S S S S S S S S	13EG03	D41	10/22/2025 9012B	12B
03451.04	77 44		iseacuive Cyanide	Cool 4 deg C	PSEG03	D21	10/23/2025 an	9012B
10-10-10-1	F-11	Solid	Reactive Cvanide	Cool 1 dea C				
Q3451-08	TP-12			o fian + noo	PSEG03	D31	10/23/2025 90	9012B
	1	Solid	Reactive Cyanide	Cool 4 dea C	DOECOS			
Q3452-04	JB-1	Filos	Document of the confidence of		1 3E 303	UST	10/23/2025 9012B	12B
			reactive Cyanide	Cool 4 deg C	PSEG03	D31	10/24/2025 9012R	12B
							>>	7

Date/Time (C/24/2025 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

WorkList Name: RCN-10-24-

szorluzjos

Date/Time

Raw Sample Relinquished by: Raw Sample Received by:



PB170244

SOP ID:

M9030B-Sulfide-13

SDG No:

N/A

Start Digest Date: 10/24/2025

Time: 11:15

Temp: N/A

Matrix:

SOIL WC

End Digest Date: 10/24/2025

Time: 12:45

Temp: N/A

Pippete ID:

Balance ID: **Hood ID:**

WC SC-7 HOOD#2

Digestion tube ID: M5595

Block Thermometer ID: N/A

Block ID:

WC-DIST-BLOCK-1

Filter paper ID: N/A

Prep Technician Signature: RM

Weigh By:

RM

pH Meter ID: N/A

Supervisor Signature:

10/24/2025 Ry

Standared Name	MLS USED	STD REF. # FROM LOG		
PBS003	50.0ML	W3112		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP114311
FORMALDEHYDE	2.0ML	W3220
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time Prepped Sample Relinquished By/Location **Received By/Location Preparation Group** Analysis Group 48 of 126



Soil/Sludge Reactive Sulfide Preparation Sheet

PB170244

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170244BL	PBS244	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3434-01DUP	PR132-WC1-20251022DUP	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3434-01	PR132-WC1-20251022	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3439-04	TP-9	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3439-08	TP-10	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3440-04	JB-2	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3449-06	CF-620-COMP-41	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A

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WORKLIST (Hardcopy Internal Chain)

WorkList Name :	RSUL SOIL-	WorkList ID:	ID: 192679	Department: Distillation	Distillation	Ċ	40.07.00	,
						Š	Date: 10-24-2025 10:21:46	25 10:Z1:4 [
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
03434_04								
TO-LOTOS	FK132-WC1-20251022	Solid	Reactive Sulfide	Cool 4 dea C	AECOOS	250		
Q3439-04	TP-9	1		ò	70002	1	10/22/2025 9034	9034
		Dilos	Reactive Sulfide	Cool 4 deg C	PSFG03	24	40000	
Q3439-08	TP-10	7:140	:		200	5	10/22/2025 9034	9034
		Dilloc	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	10/00/00/01	3
Q3440-04	JB-2	Silo				5	10/23/2025 9034	9034
		2000	reactive Sulfide	Cool 4 deg C	PSEG03	D41	10/22/2028 0034	7000
Q3449-06	CF-620-COMP-41	Solid	Reactive Sulfide	0 1 1 1			10/25/2023	90.24
				Cool 4 deg C	PSEG03	D21	10/23/2025 9034	9034

Date/Time 10/2012025 Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1

Date/Time 10/24 (2025

Raw Sample Relinquished by: Raw Sample Received by:



Water Reactive Sulfide Preparation Sheet



SOP ID:

M9030B-Sulfide-13

SDG No:

N/A

WC

Start Digest Date: 10/24/2025

Time: 11:15

Matrix:

WATER

End Digest Date: 10/24/2025

Time: 12:45

Temp: N/A

Pippete ID:

Balance ID: N/A

Hood ID:

HOOD#2

Digestion tube ID: M5595

Block Thermometer ID: N/A

Block ID:

WC-DIST-BLOCK-1

Filter paper ID: N/A

Prep Technician Signature:

Weigh By:

N/A

pH Meter ID: N/A

Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG		
PBW	50.0ML	W3112		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		
N/A	N/A	N/A		

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP114311
ORMALDEHYDE	2.0ML	W3220
I/A	N/A	N/A
I/A	N/A	N/A
/A	N/A	N/A
'A	N/A	N/A
'A	N/A	N/A
/A	N/A	N/A
/A	N/A	N/A
'A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time Prepped Sample Relinquished By/Location Received By/Location **Preparation Group Analysis Group**

10/24/2025 R14

Q3434-GENCHEM

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Water Reactive Sulfide Preparation Sheet

PB170245

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170245BL	PB170245BL	50	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3434-02DUP	PR132-WC2-20251022DUP	50	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3434-02	PR132-WC2-20251022	50	50	N/A	N/A	N/A	N/A	N/A	N/A

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WORKLIST (Hardcopy Internal Chain)

Date: 10-24-2025 08:21:30	Raw Sample Storage Collect Date Method Location		10/22/2025 9034	
Distillation	Rav Customer Sto Loc		AECO02 D41	
Department: Distillation	Preservative		Cool 4 deg C	
WorkList ID: 192678	Matrix Test	Motor Care and American	water Reactive Sulfide	
RSL WATER	Customer Sample	PR132-WC2-20251022	110000000000000000000000000000000000000	
WorkList Name: RSL WATER	Sample	Q3434-02		

Date/Time 10/24/2015 Raw Sample Relinquished by: Raw Sample Received by:

Page 1 of 1

10.35

201741701

Date/Time

Raw Sample Relinquished by: Raw Sample Received by:



Water Reactive Cyanide Preparation Sheet

PB170248

SOP ID: M9012B-Total, Amenable and Reactive Cyanide-21

SDG No: N/A

Matrix: WATER

 Start Digest Date:
 10/24/2025
 Time:
 12:15
 Temp:
 N/A

 End Digest Date:
 10/24/2025
 Time:
 13:45
 Temp:
 N/A

Pippete ID: N/A

Balance ID: N/A

Hood ID: HOOD#1

Digestion tube ID: M5595 Block Thermometer ID: N/A

Block ID: MC-1,MC-2

Filter paper ID: N/A

Prep Technician Signature:

Weigh By: N/A pH Meter ID: N/A Supervisor Signature:

Standared Name	MLS USED	STD REF. # FROM LOG	
PBW	50.0ML	W3112	
N/A	N/A	N/A	_
N/A	N/A	N/A	
N/A	N/A	N/A	
N/A	N/A	N/A	

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Comment	

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time		Prepped Sample Relinquished By/Location	Received By/Location	
0/74/2025	13.55	RM W9	RIYWE	
		Preparation Group	Analysis Group	



Water Reactive Cyanide Preparation Sheet

PB170248

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170248BL	PBW248	50	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3434-02DUP	PR132-WC2-20251022DUP	50	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3434-02	PR132-WC2-20251022	50	50	N/A	N/A	N/A	N/A	N/A	N/A

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WORKLIST(Hardcopy Internal Chain)

Date: 10-24-2025 08:23:11	Method		9012B
: 10-24-20	Collect Date Method		10/22/2025 9012B
Date	Raw Sample Storage Location		D41
Distillation	Customer		AECO02 D41
Department: Distillation	Preservative		Cool 4 deg C
192667	Test	Fire Constant	neactive Cyanide
WorkList ID	Matrix	Water D	
RCN-WATER-	Customer Sample	PR132-WC2-20251022	
WorkList Name: RCN-WATER-	Sample	Q3434-02	

Raw Sample Relinquished by: Raw Sample Received by: Date/Time

Page 1 of 1

Date/Time (c/2u/2c)

Raw Sample Relinquished by: Raw Sample Received by:



Instrument ID:

WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137618

Review By	jign	esh	Review On	10/23/2025 9:33:40 AM		
Supervise By	lwo	na	Supervise On	10/23/2025 10:32:23 AM		
SubDirectory	LB′	137618	Test	Corrosivity		
STD. NAME	STD. NAME STD REF.#					
ICAL Standard		N/A				
ICV Standard		N/A				
CCV Standard		N/A				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		W3178,W3093,W3191,W3217,W3161,W3200				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/22/25 15:10		Jignesh	ок
2	CAL2	CAL2	CAL	10/22/25 15:11		Jignesh	ок
3	CAL3	CAL3	CAL	10/22/25 15:15		Jignesh	ОК
4	ICV	ICV	ICV	10/22/25 15:20		Jignesh	ОК
5	CCV1	CCV1	CCV	10/22/25 15:22		Jignesh	ок
6	Q3427-04	TP-8	SAM	10/22/25 15:35		Jignesh	ОК
7	Q3427-04DUP	TP-8DUP	DUP	10/22/25 15:37		Jignesh	ОК
8	Q3434-01	PR132-WC1-2025102	SAM	10/22/25 15:44		Jignesh	ОК
9	CCV2	CCV2	CCV	10/22/25 15:45		Jignesh	ок

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Instrument ID:

WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137621

Review By	jignesh	Review On	10/23/2025 9:37:00 AM			
Supervise By	Iwona	Supervise On	10/23/2025 10:32:14 AM			
SubDirectory	LB137621	Test	рН			
STD. NAME	STD REF.#					
ICAL Standard	N/A	N/A				
ICV Standard	N/A					
CCV Standard	N/A	N/A				
ICSA Standard	N/A					
CRI Standard	N/A	N/A				
LCS Standard	N/A	N/A				
Chk Standard	W3178,W3	W3178,W3093,W3191,W3217,W3161,W3200				

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	10/23/25 08:35		jignesh	ОК
2	CAL2	CAL2	CAL	10/23/25 08:36		jignesh	ОК
3	CAL3	CAL3	CAL	10/23/25 08:37		jignesh	ОК
4	ICV	ICV	ICV	10/23/25 08:39		jignesh	ОК
5	CCV1	CCV1	CCV	10/23/25 08:40		jignesh	ОК
6	Q3434-02	PR132-WC2-2025102	SAM	10/23/25 08:50		jignesh	ОК
7	Q3434-02DUP	PR132-WC2-2025102	DUP	10/23/25 08:52		jignesh	ОК
8	CCV2	CCV2	CCV	10/23/25 08:55		jignesh	ОК

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 $284 \; Sheffield \; Street, \; Mountainside, \; New \; Jersey \; 07092, \; Phone \; : \; 908 \; 789 \; 8900, \\$

Fax: 908 789 8922

Instrument ID: IGN-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB137627

Review By	rub	ina	Review On	10/23/2025 2:29:52 PM
Supervise By	lwo	ona	Supervise On	10/23/2025 4:19:07 PM
SubDirectory	LB	137627	Test	Flash Point
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		W3242		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	ICV	ICV	ICV	10/23/25 09:00		rubina	ок
2	Q3434-02	PR132-WC2-2025102	SAM	10/23/25 09:30		rubina	ок
3	Q3434-02DUP	PR132-WC2-2025102	DUP	10/23/25 10:35		rubina	ок

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB137639

Review By	view By rubina		Review On	10/27/2025 11:40:17 AM		
Supervise By	lwc	ona	Supervise On	10/27/2025 11:49:31 AM		
SubDirectory	LB	137639	Test	Reactive Cyanide		
STD. NAME STD REF.#						
ICAL Standard	ICAL Standard WP115305,WP115306,WP115307,W			15310,WP115311		
ICV Standard		WP115312				
CCV Standard		WP115306				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard	S Standard N/A					
Chk Standard WP115157,WP114324,WP115313			WP115313			

					_		L
Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/24/25 10:32		rubina	ок
2	5.0PPBCN	5.0PPBCN	CAL2	10/24/25 10:32		rubina	ок
3	10PPBCN	10PPBCN	CAL3	10/24/25 10:32		rubina	ок
4	50PPBCN	50PPBCN	CAL4	10/24/25 10:32		rubina	ОК
5	100PPBCN	100PPBCN	CAL5	10/24/25 10:32		rubina	ОК
6	250PPBCN	250PPBCN	CAL6	10/24/25 10:32		rubina	ОК
7	500PPBCN	500PPBCN	CAL7	10/24/25 10:32		rubina	ОК
8	ICV1	ICV1	ICV	10/24/25 14:29		rubina	ОК
9	ICB1	ICB1	ICB	10/24/25 14:29		rubina	ОК
10	CCV1	CCV1	CCV	10/24/25 14:29		rubina	ОК
11	CCB1	CCB1	ССВ	10/24/25 14:29		rubina	ОК
12	PB170248BL	PB170248BL	MB	10/24/25 14:29		rubina	ОК
13	Q3434-02	PR132-WC2-2025102	SAM	10/24/25 14:37		rubina	ок
14	Q3434-02DUP	PR132-WC2-2025102	DUP	10/24/25 14:37		rubina	ок
15	PB170241BL	PB170241BL	MB	10/24/25 14:37		rubina	ок
16	Q3427-04	TP-8	SAM	10/24/25 14:37		rubina	ок
17	Q3427-04DUP	DUP TP-8DUP		10/24/25 14:37		rubina	ок
18	Q3434-01	PR132-WC1-2025102	SAM	10/24/25 14:37		rubina	ОК

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Instrument ID: KC

KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB137639

Review By	rub	pina	Review On	10/27/2025 11:40:17 AM
Supervise By	lwc	ona	Supervise On	10/27/2025 11:49:31 AM
SubDirectory	LB	137639	Test	Reactive Cyanide
STD. NAME STD REF.#				
ICAL Standard WP115305,WP115306,		WP115305,WP115306,	WP115307,WP115308,WP115309,WP1	15310,WP115311
ICV Standard		WP115312		
CCV Standard		WP115306		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard N/A				
Chk Standard WP115157,WP114324,WP115313			WP115313	

19	Q3439-04	TP-9	SAM	10/24/25 14:37	rubina	ОК
20	Q3439-08	TP-10	SAM	10/24/25 14:44	rubina	ОК
21	Q3440-04	JB-2	SAM	10/24/25 14:44	rubina	ок
22	CCV2	CCV2	CCV	10/24/25 14:44	rubina	ОК
23	CCB2	CCB2	ССВ	10/24/25 14:44	rubina	ОК
24	Q3449-06	CF-620-COMP-41	SAM	10/24/25 14:44	rubina	ОК
25	Q3451-04	TP-11	SAM	10/24/25 14:44	rubina	ОК
26	Q3451-08	TP-12	SAM	10/24/25 14:51	rubina	ОК
27	Q3452-04	JB-1	SAM	10/24/25 14:51	rubina	ок
28	CCV3	CCV3	CCV	10/24/25 14:51	rubina	ОК
29	CCB3	CCB3	ССВ	10/24/25 14:51	rubina	ОК

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Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB137640

Review By	Eman		Review On	10/24/2025 3:32:52 PM
Supervise By	lwo	ona	Supervise On	10/24/2025 3:36:13 PM
SubDirectory	LB	137640	Test	Ignitability
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q3427-01	TP-8	SAM	10/24/25 09:27		Eman	ок
2	Q3427-01DUP	TP-8DUP	DUP	10/24/25 09:35		Eman	ОК
3	Q3427-04 TP-8		SAM	10/24/25 09:43		Eman	ок
4	Q3434-01	PR132-WC1-2025102	SAM	10/24/25 09:50		Eman	ок
5	Q3439-01	TP-9	SAM	10/24/25 09:57		Eman	ок
6	Q3439-04	TP-9	SAM	10/24/25 10:05		Eman	ок
7	Q3439-05	TP-10	SAM	10/24/25 10:12		Eman	ок
8	Q3439-08	TP-10	SAM	10/24/25 10:20		Eman	ок
9	Q3440-01	JB-2	SAM	10/24/25 10:27		Eman	ок
10	Q3440-04	JB-2	SAM	10/24/25 10:35		Eman	ок
11	Q3446-01	SB-14	SAM	10/24/25 10:42		Eman	ок
12	Q3446-02	SB-15	SAM	10/24/25 10:50		Eman	ок
13	Q3446-03	SB-16	SAM	10/24/25 10:57		Eman	ок
14	Q3446-04	SB-17	SAM	10/24/25 11:05		Eman	ок
15	Q3446-05	SB-18	SAM	10/24/25 11:12		Eman	ок
16	Q3446-06	SB-19	SAM	10/24/25 11:20		Eman	ок
17	Q3446-07	SB-20	SAM	10/24/25 11:27		Eman	ок
18	Q3446-08	SB-21	SAM	10/24/25 11:35		Eman	ок

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 $284 \; Sheffield \; Street, \; Mountainside, \; New \; Jersey \; 07092, \; Phone \; : \; 908 \; 789 \; 8900, \\$

Fax: 908 789 8922

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB137644

Review By	rubina		Review On	10/24/2025 4:06:25 PM
Supervise By	Iwona		Supervise On	10/24/2025 4:06:58 PM
SubDirectory	LB137	'644	Test	Reactive Sulfide
STD. NAME	S	TD REF.#		
ICAL Standard	N/A	A		
ICV Standard	N/A	A		
CCV Standard	N/A	A		
ICSA Standard	N/A	A		
CRI Standard	N/A	A		
LCS Standard	N/	'A		
Chk Standard	W	3248,W3213,W3149		

Sr#	Sampleld	ClientID	QcType	Date	Comment	Operator	Status
1	PB170245BL	PB170245BL	MB	10/24/25 13:20		rubina	ок
2	Q3434-02	PR132-WC2-2025102	SAM	10/24/25 13:23		rubina	ок
3	Q3434-02DUP	PR132-WC2-2025102	DUP	10/24/25 13:26		rubina	ок

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Instrument ID:

TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB137645

Review By	rubina		Review On	10/24/2025 4:06:07 PM
Supervise By	lwo	ona	Supervise On	10/24/2025 4:06:49 PM
SubDirectory	LB	137645	Test	Reactive Sulfide
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		W3248,W3213,W3149		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB170244BL	PB170244BL	MB	10/24/25 13:30		rubina	ОК
2	Q3434-01	PR132-WC1-2025102	SAM	10/24/25 13:33		rubina	OK
3	Q3434-01DUP	PR132-WC1-2025102	DUP	10/24/25 13:36		rubina	ОК
4	Q3439-04	TP-9	SAM	10/24/25 13:38		rubina	OK
5	Q3439-08	TP-10	SAM	10/24/25 13:40		rubina	OK
6	Q3440-04	JB-2	SAM	10/24/25 13:43		rubina	ОК
7	Q3449-06	CF-620-COMP-41	SAM	10/24/25 13:46		rubina	OK

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Fax: 908 789 8922

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QCBatch ID # LB137651

Review By	jign	nesh	Review On	10/27/2025 10:03:35 AM	
Supervise By	lwc	ona	Supervise On	10/28/2025 10:55:05 AM	
SubDirectory	LB	137651	Test	TPH	
STD. NAME STD REF.#					
ICAL Standard		N/A			
ICV Standard		N/A			
CCV Standard		N/A			
ICSA Standard		N/A			
CRI Standard		N/A			
LCS Standard	ndard N/A				
Chk Standard W3240,M6069,EP2655,WP115016,W3246,N/A,WP115017,WP11501				115018,N/A	

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB137651BL	LB137651BL	MB	10/27/25 10:30		jignesh	OK
2	LB137651BS	LB137651BS	LCS	10/27/25 10:30		jignesh	ОК
3	LB137651BSD	LB137651BSD	LCSD	10/27/25 10:30		jignesh	OK
4	Q3428-01	Grab	SAM	10/27/25 10:30		jignesh	OK
5	Q3434-02	PR132-WC2-2025102	SAM	10/27/25 10:30		jignesh	OK
6	Q3455-01	MH-10242025	SAM	10/27/25 10:30		jignesh	OK

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Prep Standard - Chemical Standard Summary

Order ID: Q3434

Test: Corrosivity, Flash Point, Ignitability, Percent Solids, pH, Reactive Cyanide, Reactive Sulfide, TPH

Prepbatch ID: PB170241,PB170244,PB170245,PB170248,

Sequence ID/Qc Batch ID: LB137618,LB137621,LB137627,LB137639,LB137640,LB137644,LB137645,LB137651,

Standard ID:

EP2655,WP113836,WP113838,WP114311,WP114324,WP115016,WP115017,WP115018,WP115157,WP115304,WP115305,WP115306,WP115307,WP115308,WP115309,WP115310,WP115311,WP115312,WP115313,

Chemical ID:

E3875, E3972, M6069, M6151, W2668, W2817, W2871, W2926, W3009, W3019, W3082, W3093, W3112, W3113, W3139, W3149, W3161, W3178, W3191, W3200, W3203, W3213, W3214, W3217, W3220, W3224, W3240, W3242, W3246, W3248, W3240, W3240, W3242, W3240, W3244, W3240, W32440, W32440,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Riteshkumar Patel
3923	Baked Sodium Sulfate	EP2655	10/24/2025	01/28/2026	RUPESHKUMA R SHAH	Extraction_SC ALE 2	None	10/24/2025
FROM	4000.00000gram of E3875 = Final C	uantity: 400	0.000 gram		1	(EX-SC-2)		10/24/2025

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
11	Sodium hydroxide absorbing solution 0.25 N	<u>WP113836</u>	07/08/2025	12/31/2025	Rubina Mughal	WETCHEM_S CALE 8 (WC	None	07/08/2025
					<u> </u>	sc-7)		0170072020

FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L

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Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3371	Cyanide LCS Spike Solution, 5PPM	<u>WP113838</u>	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	07/08/2025
FROM	1.00000ml of W3224 + 199.0000ml	of WP11383	36 = Final Qເ	antity: 200.000) ml		(WC)	

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
160	0.5M ZINC ACETATE	WP114311	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_S	WETCHEM_F	-
						CALE_8 (WC	IPETTE_3	08/19/2025
		•	•		•	SC-7)	(WC)	

FROM 0.88900L of W3112 + 1.00000ml of M6151 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml

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Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
607	PYRIDINE-BARBITURIC ACID	<u>WP114324</u>	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_S CALE 5 (WC	Glass Pipette-A	08/19/2025
FROM	145.00000ml of W3112 + 15.00000a	ram of W320)3 + 15.00000	l)ml of M6151 +	75.00000ml of	SC-5) W3019 = Final	Quantity: 250.	

<u>om</u> 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
229	1:1 HCL	WP115016	10/02/2025	02/17/2026	Jignesh Parikh	None	None	10/02/2025

FROM 500.00000ml of M6151 + 500.00000ml of W3112 = Final Quantity: 1.000 L

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Recipe NA	AME	NO.	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	ScaleID	PipetteID	Supervised By
			10/02/2025			WETCHEM_S		Iwona Zarych
						CALE_7 (WC		10/02/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarvch
3374	1664A QCS spiking solution-SS	<u>WP115018</u>	10/02/2025	04/02/2026	"	WETCHEM_S CALE_7 (WC	None	10/02/2025

FROM 1000.00000ml of E3972 + 4.00000gram of W3009 + 4.00000gram of W3082 = Final Quantity: 1000.000 ml

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Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
539	CN BUFFER	WP115157	10/10/2025	12/03/2025	Rubina Mughal	WETCHEM_S	None	,
						CALE_8 (WC		10/14/2025
FROM	138.00000gram of W2668 + 862.000	00ml of W3	112 = Final C	uantity: 1000.0	000 ml	SC-7)		

<u>FROM</u>	138.00000gram of w2668 + 862.00000ml of w3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3456	Cyanide Intermediate Working Std, 5PPM	<u>WP115304</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3 (WC)	10/24/2025

FROM 0.25000ml of W3214 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
4	Calibation standard 500 ppb	WP115305	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	10/24/2025
FROM	45.00000ml of WP113836 + 5.00000ml of WP115304 = Final Quantity: 50.000 ml							

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3761	Calibration-CCV CN Standard 250 ppb	<u>WP115306</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	10/24/2025

FROM 2.50000ml of WP115304 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe				Expiration	<u>Prepared</u>			Supervised By	
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych	
6	Calibration Standard 100 ppb	WP115307	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P	•	
							IPETTE_3	10/24/2025	
FROM	1.00000ml of WP115304 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml								

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarvch
7	Calibration Standard 50 ppb	<u>WP115308</u>	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	10/24/2025

FROM 0.50000ml of WP115304 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	Ву	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
8	Calibration Standard 10 ppb	WP115309	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_F	
							IPETTE_3	10/24/2025
FROM	1.00000ml of WP115305 + 49.00000	ml of WP11	3836 = Final	Quantity: 50.00	00 ml		(WC)	

	<u>ME</u>	<u>NO.</u>	Prep Date	Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
9 Calibrat	ibration Standard 5 ppb	WP115310	10/24/2025	10/25/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	,

FROM 0.50000ml of WP115305 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
167	0 ppb CN calibration std	WP115311	10/24/2025	10/25/2025	Rubina Mughal	None	None	·
								10/24/2025
FROM	50.00000ml of WP113836 = Final Q	uantitv: 50.0	00 ml		_			

2168 RCN ICV STD, 100 PPB WP115312 10/24/2025 10/25/2025 Rubina Mughal None WETCHEM_F IPETTE_3 10/24/2025	Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarvch
	2168	RCN ICV STD, 100 PPB	WP115312	10/24/2025	10/25/2025	Rubina Mughal	None	_	,

FROM 1.00000ml of WP113838 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe <u>ID</u> 1582	NAME Chloramine T solution, 0.014M	<u>NO.</u> WP115313	Prep Date 10/24/2025		Prepared By Rubina Mughal	CALE_5 (WC	Supervised By Iwona Zarych 10/24/2025
FROM	0.08000gram of W3139 + 20.00000n	nl of W3112	= Final Quan	ntity: 20.000 ml		SC-5)	

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140440 / TEST PAPERS,PH,0-2.5,.2SENSI, 100PK	80A0441	02/29/2028	09/03/2024 / jignesh	08/19/2024 / Jaswal	M6069
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U20E006	04/02/2026	04/02/2021 / apatel	04/02/2021 / apatel	W2817

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	0000266903	05/04/2027	09/07/2021 / apatel	08/26/2021 / apatel	W2871
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J4296-1 / ZINC ACETATE,DIHYD,CRYS,AC S,500G	383058	07/05/2027	07/05/2022 / ketankumar	07/05/2022 / ketankumar	W2926
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	H223-57 / Hexadecane, 99.0%	SHBP8192	02/27/2028	02/27/2023 / lwona	02/27/2023 / Iwona	W3009
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	A12244 / Stearic acid, 98%, 100 g	U23E020	02/26/2029	02/26/2024 / Iwona	02/26/2024 / Iwona	W3082
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / lwona	04/11/2025 / Iwona	W3200
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / lwona	04/21/2025 / Iwona	W3203
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	MK25A21527	01/20/2029	05/21/2025 / lwona	05/21/2025 / Iwona	W3213
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1505H73	11/30/2025	05/21/2025 / Iwona	05/21/2025 / Iwona	W3214
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / lwona	W3217

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	MKCW7614	12/31/2026	06/26/2025 / Iwona	06/26/2025 / Iwona	W3220
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45060288	12/24/2025	07/07/2025 / Iwona	07/07/2025 / Iwona	W3224
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/30/2026	09/15/2025 / JIGNESH	09/12/2025 / JIGNESH	W3240
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	TCX0014-500ML / p-xylene	WZWEH-WU	10/03/2029	10/06/2025 / rubina	10/03/2025 / Iwona	W3242
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	04667-2.5 / Silica Gel (60-200 mesh), 2.5 KG	072154301	10/03/2030	10/03/2025 / Iwona	10/03/2025 / Iwona	W3246
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LIT RE	250904J	02/28/2027	10/03/2025 / Iwona	10/03/2025 / Iwona	W3248

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Material No.: H223-57

Batch No.: 0000266903 Manufactured Date: 2020/05/05 Retest Date: 2027/05/04

Revision No: 1

Certificate of Analysis

Test	Specification	Result
Assay (CH3(CH2)14CH3) (by GC)	>= 99.0 %	99.3
Infrared Spectrum	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC



Thermo Fisher

W 2817 pec. 04/02/2021

Product Specification

Product Name:

Stearic acid, 98%, Thermo Scientific Chemicals

Catalog Number:

A12244.14

CAS Number:

57-11-4

Molecular Formula:

C18H36O2

Molecular Weight:

284.48

InChl Key:

QIQXTHQIDYTFRH-UHFFFAOYSA-N

SMILES:

CCCCCCCCCCCCC(O)=O

Synonym:

stearic acid acide stearique hydrofol acid 1855 hydrofol acid 1655 industrene 5016

stearic acid, ion(1-) (8CI) glycon TP glycon DP acidum stearinicul hydrofol acid 150

Product Specification

Appearance (Color):

White

Form:

Crystals or powder or crystalline powder or flakes or waxy solid

Assay (Silylated GC):

≥97.5%

Melting Point (clear melt):

67.0-74.0?C

Date Of Print:

11/30/2023

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.

Q3434-GENCHEM

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W3009 Lec. 2/27/2023

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

CH₃(CH₂)₁₄CH₃

12

Hexadecane - ReagentPlus®, 99%

Product Number:

H6703

Batch Number:

SHBP8192

Brand:

SIAL

CAS Number:

544-76-3

MDL Number:

MFCD00008998

Formula:

Formula Weight:

C16H34

226.44 g/mol

Quality Release Date:

04 AUG 2022

Test	Specification	Result	
Appearance (Color)	Colorless or White	Colorless	
Appearance (Form)	Liquid or Solid	Liquid	
Infrared Spectrum	Conforms to Structure	Conforms	
Refractive index at 20 ° C	1.432 - 1.436	1.435	
Purity (GC)	> 98.5 %	99.3 %	
Color Test	_ ≤ 20 APHA	< 5 APHA	

Larry Coers, Director **Quality Control**

Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



W3019 lec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

C5H5N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	> 99.75 %	99.99 %
Nater (by Karl Fischer)	_ < 0.003 %	0.002 %
Residue on Evaporation	_ < 0.0005 %	< 0.0001 %

Larry Coers, Director **Quality Control**

Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MÉXICO **GP 64070** TEL+52 81 13 52 57 57 www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

MAY/23/2024

LOT NUMBER:

417203

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na₂SO₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (CI)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
	COMMENTS	mms, apot sobusio — patho s factorio i vingri doc.

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Q3434-GENCHEM

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Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result	
Assay ((CH ₃) ₂ CO) (by GC, corrected forwater)	>= 99.4 %	99.8 %	
Color (APHA)	<= 10	5	
Residue after Evaporation	<= 1.0 ppm	0.2 ppm	
Substances Reducing Permanganate	Passes Test	Passes Test	
Titrable Acid (µeq/g)	<= 0.3	0.2	
Titrable Base (µeq/g)	<= 0.6	<0.1	
Water (H2O)	<= 0.5 %	0.2 %	
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1	
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1	

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

Jurak Jamie Croak

Director Quality Operations, Bioscience Production

Arminen Bankananan Kansantala 117



Product information

Product

pH-Fix 0.3-2.3

REF

92180

LOT

80A0441

Expiration date:

29.02.2028

Date of examination:

23.01.2024

Gradation:

pH 0.3-0.7-1.0-1.3-1.6-1.9-2.3

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.

www.mn-net.com

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US Tel.: +1 888 321 62 24 sales-us@mn-net.com

FR Tel.: +33 388 68 22 68 sales-fr@mn-net.com





M 6151

R-> 1/15/25

Material No.: 9530-33

Batch No.: 22G2862015 Manufactured Date: 2022-06-15

Retest Date: 2027-06-14

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	
ACS - Color (APHA)	50.3 - 58.0 % ≤ 10	37.9 %
ACS – Residue after Ignition		5
ACS - Specific Gravity at 60°/60°F	≤ 3 ppm	< 1 ppm
ACS – Bromide (Br)	1.185 - 1.192	1.191
ACS - Extractable Organic Substances	≤ 0.005 %	< 0.005 %
ACS - Free Chlorine (as Cl ₂)	≤ 5 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.5 ppm
Sulfate (SO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfite (SO ₃)	≤ 0.5 ppm	< 0.3 ppm
Ammonium (NH ₄)	≤ 0.8 ppm	0.3 ppm
Trace Impurities - Arsenic (As)	≤ 3 ppm	< 1 ppm
Trace Impurities – Aluminum (AI)	≤ 0.010 ppm	< 0.003 ppm
Arsenic and Antimony (as As)	≤ 10.0 ppb	1.3 ppb
Trace Impurities - Barium (Ba)	≤ 5.0 ppb	< 3.0 ppb
	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	
	• •	6 ррв

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





Material No.: 9530-33 Batch No.: 22G2862015

Trace Impurities – Lead (Pb)	Test	Specification	Result
Trace Impurities – Lithium (Li) ≤ 1.0 ppb < 0.2 ppb Trace Impurities – Magnesium (Mg) ≤ 10.0 ppb 2.9 ppb Trace Impurities – Manganese (Mn) ≤ 1.0 ppb < 0.4 ppb Trace Impurities – Mercury (Hg) ≤ 0.5 ppb 0.1 ppb Trace Impurities – Molybdenum (Mo) ≤ 10.0 ppb < 3.0 ppb Trace Impurities – Nickel (Ni) ≤ 4.0 ppb < 0.3 ppb Trace Impurities – Nickel (Ni) ≤ 1.0 ppb 0.8 ppb Trace Impurities – Niobium (Nb) ≤ 1.0 ppb 0.8 ppb Trace Impurities – Potassium (K) ≤ 9.0 ppb < 2.0 ppb Trace Impurities – Selenium (Se), For Information Only Trace Impurities – Silicon (Si) ≤ 100.0 ppb 1.0 ppb Trace Impurities – Silicon (Si) ≤ 1.0 ppb 0.5 ppb Trace Impurities – Sodium (Na) ≤ 100.0 ppb 2.3 ppb Trace Impurities – Sodium (Na) ≤ 10.0 ppb 1.6 ppb Trace Impurities – Tantalum (Ta) ≤ 1.0 ppb 1.6 ppb Trace Impurities – Tantalum (Ti) ≤ 5.0 ppb 4.0 ppb Trace Impurities – Titanium (Ti) ≤ 5.0 ppb 1.5 ppb Trace Impurities – Titanium (Ti) ≤ 1.0 ppb 1.5 ppb Trace Impurities – Titanium (Ti) ≤ 5.0 ppb 0.2 ppb Trace Impurities – Titanium (Ti) ≤ 5.0 ppb 0.8 ppb	Trace Impurities – Lead (Pb)	≤ 1.0 ppb	
Trace Impurities - Magnesium (Mg) ≤ 10.0 ppb 2.9 ppb Trace Impurities - Manganese (Mn) ≤ 1.0 ppb < 0.4 ppb Trace Impurities - Mercury (Hg) ≤ 0.5 ppb 0.1 ppb Trace Impurities - Molybdenum (Mo) ≤ 10.0 ppb < 3.0 ppb Trace Impurities - Nickel (Ni) ≤ 4.0 ppb < 0.3 ppb Trace Impurities - Nickel (Ni) ≤ 1.0 ppb 0.8 ppb Trace Impurities - Potassium (K) ≤ 9.0 ppb < 2.0 ppb Trace Impurities - Selenium (Se), For Information Only Trace Impurities - Selenium (Se), For Information Only Trace Impurities - Silicon (Si) ≤ 100.0 ppb < 10.0 ppb Trace Impurities - Silver (Ag) ≤ 1.0 ppb 0.5 ppb Trace Impurities - Sodium (Na) ≤ 100.0 ppb 2.3 ppb Trace Impurities - Sodium (Na) ≤ 10.0 ppb 0.5 ppb Trace Impurities - Tantalum (Ta) ≤ 1.0 ppb 1.6 ppb Trace Impurities - Tantalum (Ti) ≤ 5.0 ppb 4.0 ppb Trace Impurities - Tin (Sn) ≤ 5.0 ppb 4.0 ppb Trace Impurities - Titanium (Ti) ≤ 1.0 ppb 1.5 ppb Trace Impurities - Titanium (Ti) ≤ 1.0 ppb 0.2 ppb Trace Impurities - Titanium (Ti) ≤ 1.0 ppb 0.2 ppb Trace Impurities - Titanium (Ti) ≤ 5.0 ppb 0.8 ppb	Trace Impurities - Lithium (Li)	≤ 1.0 ppb	• •
Trace Impurities - Manganese (Mn) ≤ 1.0 ppb < 0.4 ppb	Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	• •
Trace Impurities - Mercury (Hg) ≤ 0.5 ppb 0.1 ppb Trace Impurities - Molybdenum (Mo) ≤ 10.0 ppb < 3.0 ppb	Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	
Trace Impurities - Molybdenum (Mo) ≤ 10.0 ppb < 3.0 ppb Trace Impurities - Nickel (Ni) ≤ 4.0 ppb < 0.3 ppb Trace Impurities - Niobium (Nb) ≤ 1.0 ppb	Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	
Trace Impurities - Nickel (Ni) ≤ 4.0 ppb < 0.3 ppb Trace Impurities - Niobium (Nb) ≤ 1.0 ppb	Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	
Trace Impurities - Niobium (Nb) ≤ 1.0 ppb 0.8 ppb Trace Impurities - Potassium (K) ≤ 9.0 ppb < 2.0 ppb Trace Impurities - Selenium (Se), For Information Only Trace Impurities - Silicon (Si) ≤ 100.0 ppb < 10.0 ppb Trace Impurities - Silver (Ag) ≤ 1.0 ppb 0.5 ppb Trace Impurities - Sodium (Na) ≤ 100.0 ppb 2.3 ppb Trace Impurities - Strontium (Sr) ≤ 1.0 ppb 2.3 ppb Trace Impurities - Strontium (Sr) ≤ 1.0 ppb 4.0 ppb Trace Impurities - Tantalum (Ta) ≤ 1.0 ppb 1.6 ppb Trace Impurities - Thallium (Tl) ≤ 5.0 ppb 4.0 ppb Trace Impurities - Tin (Sn) 5.0 ppb 1.5 ppb Trace Impurities - Titanium (Ti) 5.0 ppb 5.0 ppb 6.2 ppb Trace Impurities - Titanium (Ti) 5.0 ppb 6.2 ppb Trace Impurities - Vanadium (V) 5.0 ppb 6.8 ppb Trace Impurities - Zirconium (Zr) 5.0 ppb 6.8 ppb	Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	•
Trace Impurities - Potassium (K) ≤ 9.0 ppb < 2.0 ppb	Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	
Trace Impurities – Selenium (Se), For Information Only Trace Impurities – Silicon (Si) ≤ 100.0 ppb < 10.0 ppb 7 race Impurities – Silver (Ag) Trace Impurities – Sodium (Na) Trace Impurities – Sodium (Na) 5 100.0 ppb 2.3 ppb 7 race Impurities – Strontium (Sr) 7 race Impurities – Tantalum (Ta) Trace Impurities – Thallium (Tl) 5 1.0 ppb 6 2.0 ppb 7 race Impurities – Tin (Sn) 7 race Impurities – Titanium (Ti) 7 race Impurities – Titanium (Ti) 7 race Impurities – Vanadium (V) 7 race Impurities – Zinc (Zn) 7 race Impurities – Zirconium (Zz) 7 race Impurities – Zirconium (Zz) 7 race Impurities – Zirconium (Zz)	Trace Impurities - Potassium (K)	≤ 9.0 ppb	
Trace Impurities - Silicon (Si) ≤ 100.0 ppb < 10.0 ppb	Trace Impurities – Selenium (Se), For Information Only		
Trace Impurities - Silver (Ag) ≤ 1.0 ppb 0.5 ppb Trace Impurities - Sodium (Na) ≤ 100.0 ppb 2.3 ppb Trace Impurities - Strontium (Sr) ≤ 1.0 ppb < 0.2 ppb	Trace Impurities - Silicon (Si)	≤ 100.0 ppb	
Trace Impurities - Sodium (Na) ≤ 100.0 ppb 2.3 ppb Trace Impurities - Strontium (Sr) ≤ 1.0 ppb < 0.2 ppb	Trace Impurities - Silver (Ag)	≤ 1.0 ppb	
Trace Impurities - Strontium (Sr) ≤ 1.0 ppb < 0.2 ppb	Trace Impurities – Sodium (Na)	≤ 100.0 ppb	
Trace Impurities - Tantalum (Ta) ≤ 1.0 ppb 1.6 ppb Trace Impurities - Thallium (Tl) ≤ 5.0 ppb < 2.0 ppb	Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	
Trace Impurities – Thallium (TI) $\leq 5.0 \text{ ppb}$ $< 2.0 \text{ ppb}$ Trace Impurities – Tin (Sn) $\leq 5.0 \text{ ppb}$ 4.0 ppb Trace Impurities – Titanium (Ti) $\leq 1.0 \text{ ppb}$ 1.5 ppb Trace Impurities – Vanadium (V) $\leq 1.0 \text{ ppb}$ $< 0.2 \text{ ppb}$ Trace Impurities – Zinc (Zn) $\leq 5.0 \text{ ppb}$ 0.8 ppb	Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	* *
Trace Impurities - Tin (Sn) ≤ 5.0 ppb 4.0 ppb Trace Impurities - Titanium (Ti) ≤ 1.0 ppb 1.5 ppb Trace Impurities - Vanadium (V) ≤ 1.0 ppb < 0.2 ppb	Trace Impurities - Thallium (TI)	≤ 5.0 ppb	
Trace Impurities - Titanium (Ti) ≤ 1.0 ppb 1.5 ppb Trace Impurities - Vanadium (V) ≤ 1.0 ppb < 0.2 ppb	Trace Impurities - Tin (Sn)	≤ 5.0 ppb	• •
Trace Impurities – Vanadium (V) ≤ 1.0 ppb < 0.2 ppb Trace Impurities – Zinc (Zn) ≤ 5.0 ppb 0.8 ppb Trace Impurities – Zirconium (Zr)	Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	
Trace Impurities – Zinc (Zn) ≤ 5.0 ppb Trace Impurities – Zirconium (Zr)	Trace Impurities - Vanadium (V)	≤ 1.0 ppb	
Trace Impurities - Zirconium (Zr)	Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	
	Trace Impurities - Zirconium (Zr)		

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent For Trace Metal Analysis





Material No.: 9530-33 Batch No.: 22G2862015

Test Specification Result

For Laboratory, Research, or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications Storage Condition: Store below 25 °C.

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC



Sodium Phosphate, Monobasic, Monohydrate, Crystal BAKER ANALYZED® A.C.S. Reagent



(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05 Batch No.: 0000225799

Manufactured Date: 2018/12/05 Retest Date: 2025/12/03

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Specification	Result
98.0 - 102.0 %	99.5
4.1 - 4.5	4.3
<= 0.01 %	< 0.01
<= 5 ppm	< 5
<= 0.003 %	< 0.003
<= 0.005 %	<0.005
<= 0.01 %	< 0.01
<= 0.001 %	< 0.001
<= 0.001 %	< 0.001
	98.0 - 102.0 % 4.1 - 4.5 <= 0.01 % <= 5 ppm <= 0.003 % <= 0.005 % <= 0.01 % <= 0.01 %

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: IN

Packaging Site: Paris Mfg Ctr & DC



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3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA:

techserv@sial.com

02926 0pen 715/22 peleiral 015/22 Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

Zinc acetate dihydrate - ACS reagent, ≥98%

Product Number:

383058

Batch Number:

MKCQ9159

Brand:

SIGALD

CAS Number:

5970-45-6

MDL Number:

MFCD00066961

Formula:

C4H6O4Zn · 2H2O

Formula Weight:

219.51 g/mol

Quality Release Date:

06 JAN 2022

H₃C O Zn²· 2H₂O

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystal or Chunk(s)	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter	< 0.005 %	0.003 %
Calcium (Ca)	< 0.005 %	0.003 %
Chloride (CI)	< 5 ppm	< 5 ppm
Iron (Fe)	< 5 ppm	< 5 ppm
Potassium (K)	< 0.01 %	0.00 %
Magnesium (Mg)	< 0.005 %	0.003 %
Sodium (Na)	< 0.05 %	0.03 %
Lead (Pb)	< 0.002 %	< 0.001 %
pH	6.0 - 7.0	6.1
Sulfate (SO4)	< 0.005 %	< 0.005 %
Complexometric EDTA	98.0 - 101.0 %	100.3 %
Meets ACS Requirements	Meets Requirements	Meets Requirements

Larry Coers, Director Quality Control Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

W3082 Received on 2/26/2026 by IZ

Product No.: A12244

Product: Stearic acid, 98%

Lot No.: U23E020

Appearance White flakes

Assay 98.7 %

This document has been electronically generated and does not require a signature.

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Q3434-GENCHEM **94 of 126**



1490 Lammers Pike Batesville, IN 47006 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4401F99

Product Number: 1551

Manufacture Date: JAN 08, 2024

Expiration Date: DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ± 0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05 .

5 10 15 20 25 30 35 40 45 50 7.12 pН 7.09 7.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference	
Commercial Buffer Solutions	ASTM (D 1293 B)	
Buffer A	ASTM (D 5464)	
Buffer A	ASTM (D 5128)	

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

1551-1 4 L natural poly	Shelf Life (Unopened Container)
	24 months
1551-1CT 4 L Cubitainer®	24 months
1551-2.5 10 L Cubitainer®	24 months
1551-5 20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 4401F99 Product Number: 1551 Page 1 of 2

Q3434-GENCHEM 95 of 126

Paul Brandon

Paul Brandon (01/08/2024)

Production Manager

This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3

Lot Number: 4401F99

Product Number: 1551

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Q3434-GENCHEM



12/14/2022

12/31/2025

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Manufacture Date:

Expiration Date:

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed: 02/15/2023

Page 1 of 2

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12



Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

Pellets

Spec Set: 0583ACS

Manufacture Date: 12/14/2022 Expiration Date: 12/31/2025

Storage: Room Temperature

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed:

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02/15/2023

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Q3434-GENCHEM

age 2 or 2



W3139 Received on 9/9/24 by IZ

Product No.: A12044

Product: Chloramine-T trihydrate, 98%

Lot No.: 10239484

Appearance: White powder Melting Point: 166°C(dec)
Assay (Iodometric titration): 100.5% Identification (FTIR): Conforms

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Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62 Product Number: 8000 Manufacture Date: AUG 28, 2024

Expiration Date: AUG 2026

This product is Mercury-free.

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Starch, soluble	9005-84-9	ACS	
Salicylic Acid	69-72-7	ACS	

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue	Passed
	(Iodine present)	

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-C1 B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-C1 C)
Starch Indicator	EPA (345.1)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 4408P62 Product Number: 8000 Page 1 of 2

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Paul Brandon (08/28/2024)

Production Manager

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Version: 1.3 Lot Number: 4408P62 Product Number: 8000 Page 2 of 2

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Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 Product Number: 1493

Manufacture Date: NOV 11, 2024

Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ±0.05.

25 30 35 40 45 50 1.93 1.98 1.98 2.00 2.01 2.03 2.03 2.04 2.04 pН

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Potassium Chloride	7447-40-7	ACS	
Hydrochloric Acid	7647-01-0	ACS	

Test	Specification	\mathbf{Result}	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 1 of 2

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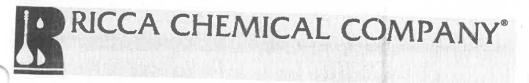
Jose Pena (11/11/2024) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2411E26 Product Number: 1493 Page 2 of 2

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Certificate of Analysis

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 2411A93

Product Number: 1501

Manufacture Date: NOV 04, 2024

Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST Traceable pH value is certified to ± 0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05 .

5 10 15 20 25 30 35 45 pH 50 4.00 4.00 4.00 4.00 4.004.00 4.01 4.024.03 4.04 4.06

CASH	
THE RESERVE OF THE PARTY OF THE	Grade
7732-18-5	ACS/ASTM/USP/EP
877-24-7	Buffer
Proprietary	Commercial
Proprietary	Purified
	Proprietary

Test	and the same of th		
	Specification	Result	
Appearance	Red liquid	Passed	*Not a certified value
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.008	2.22	

pH at 25°C (Method: SQCP027, SQCP033)	Je dica value	Uncertainty	NIST SRM#
	4.008	0.02	185i, 186-I-g, 186-II-g
Specification	Refere		150 1 6, 100 H g
Commun. 1.179.000	TOTAL PROPERTY AND INCIDENT	ance	

Commercial Buffer Solutions	Reference Reference	1 2 E
Buffer B	ASTM (D 1293 B)	
BIITIAT R	· · · · · · · · · · · · · · · · · · ·	31.01
pH measurements were performed in our Posemeles City, MD L.	ASTM (D 5128)	

in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batcl: records document raw material traceability and production and testing

Part Number	Size / Package Type	
1501-16		Shelf Life (Unopened Container)
1501-2.5	500 mL natural poly	24 months
1501-5	10 L Cubitainer®	24 months
Recommended Storage: 15°C	20 L Cubitainer® 30°C (59°F - 86°F)	24 months

Version: 1.3

Lot Number: 2411A93

Product Number: 1501

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CCA CHEMICAL COMPANY 93191

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Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 2410F80

Product Number: 1601

Manufacture Date: OCT 09, 2024

Expiration Date: MAR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ± 0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05 .

20 25 30 pΗ 35 10.31 10.23 40 50 10.1710.11 10.05 10.00 9.95 9.91 9.87

Name		0.07	
Water	CAS#	Grade	
Sodium Carbonate	7732-18-5	ACS/ASTM/USP/EP	
Sodium Bicarbonate	497-19-8	ACS	
Sodium Hydrovida	144-55-8	ACS	
Preservative	-010 10 2	Keagent.	
Blue Dye	Proprieta	1884 F F F F F F F F F F F F F F F F F F	
——————————————————————————————————————	Proprietary	11-18 k 11 (Att A 22) — 111 (A	Service of the service

Test			PER HOUSE DE NAMES AND ASSESSMENT
Appearance	Specification	Result	
Test	Blue liquid	Passed	*Not a certified value
	Certified Value	Uncertainty	
pH at 25°C (Method: SQCP027, SQCP033)	10.009	THE RESERVE THE PROPERTY AND ADDRESS OF THE PERSON OF THE	NIST SRM#
Specification		0.02	186-I-g, 186-II-g, 191d

Specification		100 1 g, 100-11-g, 191d
Commercial D. 66 G.	Reference	
Ruffer C	ASTM (D 1293 B)	
Buffer C	ASTM (D 5464)	
pH measurements were performed in our Pocomolo City, MD 1	ACTIVION FLOOR	

were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing

Part Number		and testing
1601-1	Size / Package Type	Shelf Life (Unopened Container)
1601-16	4 L natural poly 500 mL natural poly	10
1601-1CT 1601-2.5	500 mL natural poly 4 L Cubitainer®	18 months
2001 2.0	10 L Cubitainer®	18 months
1601-32 1601-5	1 L natural poly 20 L Cubitainer®	18 months
ersion: 1.3	20 L Cubitainer®	10 months
2.0	Lot Number: 2410E00	Fig. 1

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

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Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2504F20 Product Number: 1615

Manufacture Date: APR 08, 2025

Expiration Date: SEP 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C 15 20 25 30 35 40 pH 12.35 12.17 11.99 11.78 11.62 11.46

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Potassium Chloride	7447-40-7	ACS	
Sodium Hydroxide	1310-73-2	Reagent (from ACS)	

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.009	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 2504F20 Product Number: 1615 Page 1 of 2

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Jose Pena (04/08/2025) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2504F20 Product Number: 1615 Page 2 of 2

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3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Barbituric acid - ReagentPlus®, 99%

Product Name:

Product Number: 185698 Batch Number: WXBF3271V Brand: SIAL

CAS Number: 67-52-7 Formula: C4H4N2O3 Formula Weight: 128,09 g/mol Quality Release Date: 16 MAY 2024

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Test	Specification	Result	
Appearance (Colour)	White to Off-White	White	
Appearance (Form)	Pow der	Pow der	
Infrared spectrum	Conforms to Structure	Conforms	
Purity (Titration by NaOH)	98.5 - 101.5 %	100.4 %	
GC (area %)	> 98 %	100 %	
VPCT	_		



Kang Chen Quality Manager Wuxi, China CN

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Version Number: 1

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W3213 Deceived on 5/21/25 6y 12 Certificate of Analysis

0.0268

Material

Material Description

Lot

Expires end of

Molecular mass

Last Quality Control

Date of manufacture

Made in

Normality, N

Manufacturer Source Batch

Additional infomation

BDHVBDH7206-1

IODINE SOLUTION 0.025N

25A2461008

2029-Jan-20

0

2025-Jan-24

2025-Jan-21

United States

MK25A21527

0.0200 - 0.0300

CharacteristicsSpecificationsMeasured valuesPrepared to formulation on fileConfirmedConfirmedAppearancePasses TestPasses Test

Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Michelle Bales - Sr. Manager Quality Assurance Avantor Performance Materials, LLC

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user

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Certificate of Analysis

Cyanide Standard, 1000 ppm CN

Lot Number: 1505H73 Product Number: 2543

Manufacture Date: MAY 08, 2025

Expiration Date: NOV 2025

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225% (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade	
Water	7732-18-5	ACS/ASTM/USP/EP	
Potassium Cyanide	151-50-8	ACS	
Sodium Hydroxide	1310-73-2	Reagent (from ACS)	

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Version: 1.3 Lot Number: 1505H73 Product Number: 2543 Page 1 of 2

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Ernest Mahan (05/08/2025)

Plant Manager

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Version: 1.3 Lot Number: 1505H73 Product Number: 2543 Page 2 of 2

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Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2504D34 Product Number: 1551

Manufacture Date: APR 03, 2025

Expiration Date: MAR 2027

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ±0.05.

15 20 30 35 45 50 7.12 7.09 7.06 7.04 7.02 7.00 6.99 6.98 6.98 6.97 6.97 pН

Name	CAS#	Grade		
Water	7732-18-5	ACS/ASTM/USP/EP		
Sodium Phosphate Dibasic	sphate Dibasic 7558-79-4 ACS			
Potassium Dihydrogen Phosphate	7778-77-0	ACS		
Preservative	Proprietary			
Yellow Dye	Proprietary			
Sodium Hydroxide	1310-73-2	Reagent (from ACS)		

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.
Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: $15^{\circ}\text{C} - 30^{\circ}\text{C} (59^{\circ}\text{F} - 86^{\circ}\text{F})$

Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 1 of 2

Q3434-GENCHEM 112 of 126

Jose Pena (04/03/2025) Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Version: 1.3 Lot Number: 2504D34 Product Number: 1551 Page 2 of 2

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3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Formaldehyde solution - ACS reagent, 37 wt. % in H2O, contains 10-15% Methanol as stabilizer (to prevent

polymerization)

Product Name:

Product Number: 252549

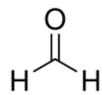
Batch Number: MKCW7614

Brand: SIAL

MDL Number: MFCD00003274

Quality Release Date: 05 DEC 2024

Recommended Retest Date: DEC 2026



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Titration by H2SO4	36.5 - 38.0 %	36.6 %
Residue on ignition (Ash)	< 0.005 %	0.004 %
Color Test	< 10 APHA	5 APHA
Chloride (CI)	< 5 ppm	< 5 ppm
Iron (Fe)	< 5 ppm	< 1 ppm
Heavy Metals	< 5 ppm	2 ppm
by ICP-OES		
Sulfate (SO4)	< = 0.002%	< = 0.002%
Titratable Acid (meq/g)	≤ 0.006	< 0.006
Note	Confirmed	Conforms
Stabilized with 10% to 15% Methanol		
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period		
2 Years		

Larry Coers, Director Quality Control Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Version Number: 2 Q3434-GENCHEM

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Part of TCP Analytical Group

Jackson's Pointe Commerce Park- Building 1000 1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: LC13545 Manufacture Date: June 25, 2025

Lot Number: 45060288 Expiration Date: December 24, 2025

Test	Specification	Result	
Appearance (clarity)	clear solution	clear solution	
Appearance (color)	colorless	colorless	
Concentration (CN)	0.990 - 1.010mg/mL	1.000mg/mL	
Concentration (CN)	990 - 1,010ppm	1,000ppm	
Traceable to NIST SRM	Report	999b	

Intended Use - Product is intended for use in manufacturing procedures and laboratory procedures and protocols.

Storage Information - Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.

Instructions for Handling and Use - Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.

Preparation - All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

S	uffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Si	ize	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL



n-Hexane 95% **ULTRA RESI-ANALYZED** For Organic Residue Analysis





Cavantor"

Normal otilisizode

Sertin

Material No.: 9262-03 Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date:2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	4
Assay (Total Saturated Collsomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

For Laboratory, Research, or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Director Quality Operations, Bioscience Production



Chemical Name: p-Xylene

W3242 Received on 10/3/25 by IZ

Certificate of Analysis

10/06/2025(JST

 ${\tt TOKYO\ CHEMICAL\ INDUSTRY\ CO., LTD.}$

T-PLUS Nihonbashi-Kodemmacho

min. 99.0 %

16-12 Nihonbashi-kodemmacho, Chuo-ku, Tokyo 103-0001, Japa

Product Number: X0014 CAS RN: 106-42-3	Lot: WZWEH		
		1	_
Tests	Results	Specifications	S
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid	

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.

99.7 %

The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA

Purity(GC)

Tel: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 E-mail: Sales-US@TClchemicals.com

Tahuyi Nihich

Takuya Nishioka

Quality Assurance Department Manager

Q3434-GENCHEM 117 of 126

Certificate of Analysis

Product information

Product:

Silica 60, 0.063 - 0.200 mm

REF:

815330.25

LOT:

072154301

Technical data

Material:

Synthethic amorphus silica (irregular shaped)

Description:

White powder

Parameter	Specifications	Resul
Specific surface (m²/g, N2 adsorption):	450 - 550	537
Particle size distribution (screen analysis):	< 63 µm max. 5 %	0.3
	> 200 µm max. 5 %	0.1
pH value :	6.0 - 7.5	7
Water content (%) :	< 7	3.6
Pore volume (mL/g, N2 adsorption):	0.65 - 0.85	0.82
Mean pore size (A. N2 adsorption)	50 - 70	60

Expiry

This product has no stated expiration date or shelf life.

We recommend to use the product within a time period of 5 years after date of QC release. This time period is valid only if the product is stored under dry and frost-free conditions. After 5 years we recommend retesting the adsorbent to make sure that the expected performance is still given.

Confirmation

Hereby we confirm, that the above mentioned product has successfully passed our quality control system in accordance with ISO 9001 and meets the specific quality criteria.

This document has been produced electronically and is valid without a signature.

Date of measurement: 16.02.2023 22:00

118 of 126 Q3434-GENCHEM

1841 Broad Street Pocomoke City, MD 21851 http://www.riccachemical.com 1-888-GO-RICCA

customerservice@riccachemical.com

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 250904J Product Number: 7900

Manufacture Date: SEP 03, 2025

Expiration Date: FEB 2027

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	_
Assay (vs. Potassium Iodate/Starch)	$0.02499 \text{-} 0.02501 \text{ N} \text{ at } 20^{\circ}\text{C}$	0.02501 N at 20°C	136

Specification	Reference	
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)	
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl B)	
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)	
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)	
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)	
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)	

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-32	1 L natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Version: 1.3 Lot Number: 250904J Product Number: 7900 Page 1 of 2

Q3434-GENCHEM 119 of 126

Jose Pena (09/0;

Jose Pena (09/03/2025) Operations Manager

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Version: 1.3 Lot Number: 250904J Product Number: 7900 Page 2 of 2

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PERCENT SOLID

Supervisor: Iwona Analyst: jignesh

Date: 10/23/2025

OVENTEMP IN Celsius(°C): 107

Time IN: 17:15

In Date: 10/22/2025

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104

Time OUT: 08:15

Out Date: 10/23/2025

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4

Thermometer ID: % SOLID-OVEN

QC: LB1376	14	,			·			
Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
Q3419-01	PR-132-S16-015094-2025 1021	1	1.15	11.01	12.16	7.14	54.4	
Q3419-02	Q3419-01MS	2	1.15	11.01	12.16	7.14	54.4	
Q3419-03	Q3419-01MSD	3	1.15	11.01	12.16	7.14	54.4	
Q3419-04	PR-132-S16-119133-2025 1021	4	1.16	10.07	11.23	6.37	51.7	
Q3419-05	PR-132-S16-094119-2025 1021	5	1.19	11.07	12.26	6.38	46.9	
Q3422-01	PR132-S15-000008-20251 017	6	1.18	11.02	12.2	7.58	58.1	
Q3424-01	PR132-DP3-20251021	7	1.15	10.36	11.51	5.91	45.9	
Q3424-02	PR132-S11-010080-20251 021	8	1.12	10.72	11.84	6.49	50.1	
Q3424-03	PR132-S14-00094-202510 21	9	1.14	11.34	12.48	6.82	50.1	
Q3427-01	TP-8	10	1.11	10.77	11.88	10.84	90.3	
Q3427-02	TP-8-EPH	11	1.18	10.97	12.15	10.98	89.3	
Q3427-03	TP-8-VOC	12	1.19	10.26	11.45	10.52	90.9	
Q3429-01	40309	13	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3429-02	40310	14	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3430-01	BUR-25-0095	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3431-01	EO-02-10222025	16	1.11	10.55	11.66	10.64	90.3	
Q3431-02	EO-02-10222025-E2	17	1.17	10.59	11.76	10.59	89.0	
Q3434-01	PR132-WC1-20251022	18	1.13	10.43	11.56	7.17	57.9	

% Solid = (C-A) * 100 (B-A)

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WORKLIST(Hardcopy Internal Chain)

	10-22-2025 09:03:13	Method		Chemitech -SO	Chemtech CO	Chemtech - 0	Chemtech -SO	Chemtech _ SO	de d	Or Ingelliger	Chemiech -50	Chemtech -SO	Chemtech -SO	Chemtech -So	Chemtech -SO	Chemtech -SO					
		Collect Date	40/24/2005	- 10				10	1	- 1		- 1	- 1		- 1	- 1	- 1	- 1	- 1	10/22/2025	10/22/2025 (
412+61 A	Date:	Raw Sample Storage Location	D44	D41	D41	D41	D41	D41	D31	D31	5 5	3 3	240	5 5	£ 5	20 0		List.	D41	D41	D41
	Wet-Chemistry	Customer	AECO02	AECO02	AECO02	AECO02	AECO02	AECO02	AECO02	AECO02	AECO02	PSEG03	PSEG03	PSEG03	PSEG03	PSEG03	000000000000000000000000000000000000000	200000	135603	PSEG05	AECO02
WORKLIST(Hardcopy Internal Chain)	Department: We	Preservative	Cool 4 deg C	Cool 4 deg C	Cool 4 deg C	Cool 4 deg C	Cool 4 deg C	Cool 4 deg C	Cool 4 deg C	Cool 4 deg C	Cool 4 dea C	Cool 4 dea C	Cool 4 dea C	Cool 4 dea C	Cool 4 dea C	Cool 4 dea C	Cool 4 dea C) 2000 C	2000	Cool 4 deg C	Cool 4 deg C
WORKLIST(Hard	: 192597	Test	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids	Percent Solids		Percent Solids
	WorkList ID :	Matrix	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid		Solid
	%1-102225	Customer Sample	PR-132-S16-015094-20251021	Q3419-01MS	Q3419-01MSD	PR-132-S16-119133-20251021	PR-132-S16-094119-20251021	PR132-S15-000008-20251017	PR132-DP3-20251021	PR132-S11-010080-20251021	PR132-S14-00094-20251021	TP-8	TP-8-EPH	TP-8-VOC	40309	40310	BUR-25-0095	EO-02-10222025	EO-02-10222025-E2	PR132-WC1-20251022	11102-11011-20101022
Q3434-0	WorkList Name:	Sample	Q3419-01	Q3419-02	Q3419-03	Q3419-04	Q3419-05	Q3422-01	Q3424-01	Q3424-02	Q3424-03	Q3427-01	Q3427-02	Q3427-03	Q3429-01	Q3429-02	Q3430-01	Q3431-01	Q3431-02	Q3434-01	
Q3434-0	SENCH	HEM																			-1

Date/Time (0(24)25

Date/Time 10/22/25 151,000

Raw Sample Relinquished by:

1425

Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 • Fax (908) 789-8922 www.chemtech.net

ALLIANCE PROJEC	OT NO.
QUOTE NO.	03439
COC Number 20	15120

TECHNICAL			-		OI IENE D	20 1507 15		TION	EV W			-	-	OI IEI				
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COMPANY: ALLOM		PROJE	CT.	MAV	E Por	+ RIC	hmo	nd	132		BILLT	10: A	ec(OM PO#:				
ADDRESS: 6053rd	Ave		PROJECT NO.: 60693795 OCATION: Staten 181 ADDRESS:															
	STATE: NY ZIP: [0]38		PROJECT MANAGER: Rob Forstner CITY										STA	ΓE:	:ZIP:			
ATTENTION: Robert F	_ ·				t. Fors					m		NTION:	Rab	For	etne	PHO		1
					1			0011	1: 0		ATTE	VIIOIV.	1	101,		ALYSIS		<u> </u>
PHONE: 212-377-872	UND INFORMATION	PHONE	N.		DELIVE	FA	_	MOLTA	14 5								"	
FAX (RUSH)	DAYS* DAYS* DAYS*	Leve	l 1 (Re l 2 (Re l 3 (Re aw Dat	esults (esults - esults - ta)	Only)	_evel 4 (QC	+ Full F	law Data	a) P (3)	20/3.	5000 2002 4	SERVA		- 10°	08	20	/	
ALLIANCE				IPLE		APLE	LES				PRE	SERVA	IIVES		T			OMMENTS ifv Preservatives
OAMBI E	PROJECT MPLE IDENTIFICATION	SAMPLE MATRIX	COMP	GRAB TH	DATE	TIME	OF BOTTLES	1	2	3	4	5	6	7.	8	9	A-HCI B-HN03 C-H2SO4	D-NaOH E-ICE F-OTHER
1. PR137~1	NC1-20281022	S		X	16/22	10:18	9	X	X	X	X	X	X			Ť	0 112304	T OTTIET
The second secon	NC2-20281022	A		7	10/22		-	X	×	X	X	X	X	X				
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4.	2.9				1													
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7.																		
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	DATE/TIME:) 416 RECEIVED BY: 0-22-25 3.				Page	of		CLIEN	ī: 🛚	Hand D	elivered	<u> </u>	ther					t Complete NO



Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
, ,	
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312



284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789 8900,

Fax: 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID: Q3434

AECO02

Order Date: 10/22/2025 1:40:00 PM

Project Mgr:

Client Name: AECOM

Project Name: AE1-CTY 3.2.Z-PR-DOCK

Report Type: NYS ASP

Client Contact: Rob Forstner

Receive DateTime: 10/22/2025 2:16:00 PM

EDD Type: EQUIS

Invoice Name: AECOM
Invoice Contact: Rob Forstner

Purchase Order:

Hard Copy Date:

Date Signoff:

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q3434-01	PR132-WC1-20251022	Solid	10/22/2025	10:18						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q3434-02	PR132-WC2-20251022	Water	10/22/2025	10:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q3434-03	ТВ	Water	10/22/2025	10:00						
					VOC-TCLVOA-10		8260D	10 Bus. Days		

Relinguished By;

Date / Time:

Received By:

Date / Time : [

II.

Storage Area: VOA Refridgerator Room

Rep 45