

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
OR	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

LAB CHRONICLE

OrderID:	Q1944	OrderDate:	5/2/2025 11:13:00 AM
Client:	METEM A GE POWER Business	Project:	Tank Farm - Acid Analysis
Contact:	Sundas Pervez	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1944-01	MELTED-RUBBER-SAMPLE	SOIL			05/02/25 12:00			05/02/25
			pH	9045D			05/02/25 15:50	
			Phenolics	9065		05/05/25	05/06/25 11:38	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/05/25	05/05/25 15:12	
Q1944-01DL	MELTED-RUBBER-SAMPLEDL	SOIL			05/02/25 00:00			05/02/25
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		05/05/25	05/05/25 15:46	
Q1944-02	CITY-WATER	Water			05/01/25 12:00			05/02/25
			Acidity	SM2310 B			05/05/25 14:45	
			pH	9040C			05/02/25 16:00	
			Alkalinity	SM2320 B			05/05/25 12:37	
			Ammonia	SM4500-NH3		05/05/25	05/05/25 12:06	
			Phenolics	9065		05/05/25	05/06/25 11:39	

LAB CHRONICLE

TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/05/25	05/05/25 15:01
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Q1944-03	CHILLER-WATER	Water	05/01/25 12:00	05/02/25
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Acidity	SM2310 B		05/05/25 15:02
pH	9040C		05/02/25 16:15
Alkalinity	SM2320 B		05/05/25 13:10
Ammonia	SM4500-NH3	05/05/25	05/05/25 12:06
Phenolics	9065	05/05/25	05/06/25 11:39
TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/05/25	05/05/25 15:12

Q1944-03DL	CHILLER-WATERDL	WATER	05/01/25 00:00	05/02/25
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TKN	SM4500-N Org C-11 plus NH3 B plus G-11	05/05/25	05/05/25 15:46
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SAMPLE DATA

Report of Analysis

Client:	METEM A GE POWER Business	Date Collected:	05/02/25 12:00
Project:	Tank Farm - Acid Analysis	Date Received:	05/02/25
Client Sample ID:	MELTED-RUBBER-SAMPLE	SDG No.:	Q1944
Lab Sample ID:	Q1944-01	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	3.88	H	1	0	0	pH		05/02/25 15:50	9045D
Phenolics	1.10	J	1	0.20	5.00	mg/Kg	05/05/25 12:45	05/06/25 11:38	9065
TKN	5050	OR	1	18.8	50.0	mg/Kg	05/05/25 09:20	05/05/25 15:12	SM4500-N Org C-11 plus NH3 B plus G-11

Comments: pH result reported at temperature 23.7 °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

Report of Analysis

Client:	METEM A GE POWER Business	Date Collected:	05/02/25 00:00
Project:	Tank Farm - Acid Analysis	Date Received:	05/02/25
Client Sample ID:	MELTED-RUBBER-SAMPLEDL	SDG No.:	Q1944
Lab Sample ID:	Q1944-01DL	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
TKN	4390	D	10	188	500	mg/Kg	05/05/25 09:20	05/05/25 15:46	SM4500-N Org C-11 plus NH3 B plus G-11

Comments: _____

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

Report of Analysis

Client:	METEM A GE POWER Business	Date Collected:	05/01/25 12:00
Project:	Tank Farm - Acid Analysis	Date Received:	05/02/25
Client Sample ID:	CITY-WATER	SDG No.:	Q1944
Lab Sample ID:	Q1944-02	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Acidity	4.00	U	1	4.00	10.0	mg/L		05/05/25 14:45	SM2310 B
Alkalinity	178		1	1.00	2.00	mg/L		05/05/25 12:37	SM 2320 B-11
Ammonia as N	0.040	J	1	0.030	0.10	mg/L	05/05/25 08:45	05/05/25 12:06	SM 4500-NH3 B plus G-11
pH	7.65	H	1	0	0	pH		05/02/25 16:00	9040C
Phenolics	0.015	U	1	0.015	0.050	mg/L	05/05/25 14:10	05/06/25 11:39	9065
TKN	0.11	J	1	0.11	0.50	mg/L	05/05/25 09:20	05/05/25 15:01	SM4500-N Org C-11 plus NH3 B plus G-11

Comments: The acidity to pH 8.31=4.00 mg CaCO3/L, The alkalinity to pH 4.38=178 mg CaCO3/L, pH result reported at temperature 23.6 °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

Report of Analysis

Client:	METEM A GE POWER Business	Date Collected:	05/01/25 12:00
Project:	Tank Farm - Acid Analysis	Date Received:	05/02/25
Client Sample ID:	CHILLER-WATER	SDG No.:	Q1944
Lab Sample ID:	Q1944-03	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Acidity	62.0		1	4.00	10.0	mg/L		05/05/25 15:02	SM2310 B
Alkalinity	5650		1	1.00	2.00	mg/L		05/05/25 13:10	SM 2320 B-11
Ammonia as N	0.20		1	0.030	0.10	mg/L	05/05/25 08:45	05/05/25 12:06	SM 4500-NH3 B plus G-11
pH	8.99	H	1	0	0	pH		05/02/25 16:15	9040C
Phenolics	0.015	U	1	0.015	0.050	mg/L	05/05/25 14:10	05/06/25 11:39	9065
TKN	12.5	OR	1	0.11	0.50	mg/L	05/05/25 09:20	05/05/25 15:12	SM4500-N Org C-11 plus NH3 B plus G-11

Comments: The acidity to pH 8.26=62.0 mg CaCO3/L, The alkalinity to pH 4.46=5650 mg CaCO3/L, pH result reported at temperature 24.1 °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

Report of Analysis

Client:	METEM A GE POWER Business	Date Collected:	05/01/25 00:00
Project:	Tank Farm - Acid Analysis	Date Received:	05/02/25
Client Sample ID:	CHILLER-WATERDL	SDG No.:	Q1944
Lab Sample ID:	Q1944-03DL	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TKN	12.3	D	2	0.22	1.00	mg/L	05/05/25 09:20	05/05/25 15:46	SM4500-N Org C-11 plus NH3 B plus G-11

Comments: _____

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



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135647

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.01	7	100	90-110	05/02/2025
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	05/02/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	05/02/2025

Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135648

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
pH		pH	7.01	7	100	90-110	05/02/2025
Sample ID:	CCV1						
pH		pH	2.01	2.00	101	90-110	05/02/2025
Sample ID:	CCV2						
pH		pH	12.02	12.00	100	90-110	05/02/2025

Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135665

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Ammonia as N	mg/L	0.95	1	95	90-110	05/05/2025
Sample ID: CCV1 Ammonia as N	mg/L	0.96	1	96	90-110	05/05/2025
Sample ID: CCV2 Ammonia as N	mg/L	0.98	1	98	90-110	05/05/2025
Sample ID: CCV3 Ammonia as N	mg/L	0.99	1	99	90-110	05/05/2025
Sample ID: CCV4 Ammonia as N	mg/L	0.98	1	98	90-110	05/05/2025

Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135671

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TKN	mg/L	4.8	5	96	90-110	05/05/2025
Sample ID: CCV1 TKN	mg/L	4.9	5	98	90-110	05/05/2025
Sample ID: CCV2 TKN	mg/L	5	5	100	90-110	05/05/2025
Sample ID: CCV3 TKN	mg/L	5	5	100	90-110	05/05/2025
Sample ID: CCV4 TKN	mg/L	4.8	5	96	90-110	05/05/2025

Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135673

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV1						
Phenolics		mg/L	0.94	1	94	90-110	05/05/2025
Sample ID:	CCV1						
Phenolics		mg/L	1.1	1	110	90-110	05/05/2025
Sample ID:	CCV2						
Phenolics		mg/L	1.2	1	120	90-110	05/05/2025

Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135681

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Phenolics	mg/L	0.93	1	93	90-110	05/06/2025
Sample ID: CCV1 Phenolics	mg/L	0.93	1	93	90-110	05/06/2025
Sample ID: CCV2 Phenolics	mg/L	0.95	1	95	90-110	05/06/2025

Initial and Continuing Calibration Verification

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135681

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
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Initial and Continuing Calibration Blank Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135665

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Ammonia as N	mg/L	0.034	0.0500	J	0.030	0.1	05/05/2025
Sample ID: CCB1 Ammonia as N	mg/L	0.036	0.0500	J	0.030	0.1	05/05/2025
Sample ID: CCB2 Ammonia as N	mg/L	0.039	0.0500	J	0.030	0.1	05/05/2025
Sample ID: CCB3 Ammonia as N	mg/L	0.043	0.0500	J	0.030	0.1	05/05/2025
Sample ID: CCB4 Ammonia as N	mg/L	< 0.0500	0.0500	U	0.030	0.1	05/05/2025

Initial and Continuing Calibration Blank Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135671

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TKN	mg/L	0.13	0.2500	J	0.11	0.5	05/05/2025
Sample ID: CCB1 TKN	mg/L	0.12	0.2500	J	0.11	0.5	05/05/2025
Sample ID: CCB2 TKN	mg/L	0.21	0.2500	J	0.11	0.5	05/05/2025
Sample ID: CCB3 TKN	mg/L	0.13	0.2500	J	0.11	0.5	05/05/2025
Sample ID: CCB4 TKN	mg/L	0.12	0.2500	J	0.11	0.5	05/05/2025

Initial and Continuing Calibration Blank Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135673

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/05/2025
Sample ID: CCB1 Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/05/2025
Sample ID: CCB2 Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/05/2025

Initial and Continuing Calibration Blank Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135681

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/06/2025
Sample ID: CCB1 Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/06/2025
Sample ID: CCB2 Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/06/2025

Initial and Continuing Calibration Blank Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

RunNo.: LB135681

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
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Preparation Blank Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB135663BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/05/2025
Sample ID: LB135664BLW							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	05/05/2025
Sample ID: LB135667BL							
Acidity	mg/L	< 5.0000	5.0000	U	4	10	05/05/2025
Sample ID: PB167844BL							
Ammonia as N	mg/L	0.038	0.0500	J	0.03	0.1	05/05/2025
Sample ID: PB167845BL							
Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/05/2025
Phenolics	mg/L	< 0.0250	0.0250	U	0.015	0.05	05/06/2025
Sample ID: PB167846BL							
Phenolics	mg/Kg	< 1.2500	1.2500	U	0.1	2.5	05/05/2025
Phenolics	mg/Kg	< 1.2500	1.2500	U	0.1	2.5	05/06/2025
Sample ID: PB167849BL							
TKN	mg/L	0.13	0.2500	J	0.11	0.5	05/05/2025
Sample ID: PB167856BL							
TKN	mg/Kg	< 12.5000	12.5000	U	9.4	25	05/05/2025

Matrix Spike Summary

Client:	METEM A GE POWER Business	SDG No.:	Q1944
Project:	Tank Farm - Acid Analysis	Sample ID:	Q1930-01
Client ID:	WATER-TREATMENT-DISCHARGEMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	2.90	OR	2.30	OR	1	1	60	*	05/05/2025

Matrix Spike Summary

Client:	METEM A GE POWER Business	SDG No.:	Q1944
Project:	Tank Farm - Acid Analysis	Sample ID:	Q1930-01
Client ID:	WATER-TREATMENT-DISCHARGEMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/L	75-125	3.20	OR	2.30	OR	1	1	90		05/05/2025

Matrix Spike Summary

Client:	METEM A GE POWER Business	SDG No.:	Q1944
Project:	Tank Farm - Acid Analysis	Sample ID:	Q1944-02
Client ID:	CITY-WATERMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TKN	mg/L	75-125	4.50		0.11	J	5	1	88		05/05/2025

Matrix Spike Summary

Client:	METEM A GE POWER Business	SDG No.:	Q1944
Project:	Tank Farm - Acid Analysis	Sample ID:	Q1944-02
Client ID:	CITY-WATERMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TKN	mg/L	75-125	4.70		0.11	J	5	1	92		05/05/2025

Matrix Spike Summary

Client:	METEM A GE POWER Business	SDG No.:	Q1944
Project:	Tank Farm - Acid Analysis	Sample ID:	Q1944-03
Client ID:	CHILLER-WATERMS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phenolics	mg/L	75-125	1.40		0.015	U	1	1	140	*	05/05/2025
Phenolics	mg/L	75-125	1.10		0.015	U	1	1	110		05/06/2025

Matrix Spike Summary

Client:	METEM A GE POWER Business	SDG No.:	Q1944
Project:	Tank Farm - Acid Analysis	Sample ID:	Q1944-03
Client ID:	CHILLER-WATERMSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Phenolics	mg/L	75-125	1.30		0.015	U	1	1	130	*	05/05/2025
Phenolics	mg/L	75-125	1.10		0.015	U	1	1	110		05/06/2025

Duplicate Sample Summary

Client: METEM A GE POWER Business	SDG No.: Q1944
Project: Tank Farm - Acid Analysis	Sample ID: Q1930-01
Client ID: WATER-TREATMENT-DISCHARGEDUP	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
Ammonia as N	mg/L	+/-20	2.30	OR	2.20	OR	1	4		05/05/2025
Ammonia as N	mg/L	+/-20	2.40	D	2.50	D	2	4		05/05/2025

Duplicate Sample Summary

Client: METEM A GE POWER Business	SDG No.: Q1944
Project: Tank Farm - Acid Analysis	Sample ID: Q1930-01
Client ID: WATER-TREATMENT-DISCHARGEMSD	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
Ammonia as N	mg/L	+/-20	2.90	OR	3.20	OR	1	10		05/05/2025

Duplicate Sample Summary

Client: METEM A GE POWER Business	SDG No.: Q1944
Project: Tank Farm - Acid Analysis	Sample ID: Q1944-02
Client ID: CITY-WATERDUP	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
pH	pH	+/-20	7.65		7.66		1	0.13		05/02/2025
Alkalinity	mg/L	+/-20	178		179		1	1		05/05/2025
Acidity	mg/L	+/-10	4.00	U	4.00	U	1	0		05/05/2025
TKN	mg/L	+/-20	0.11	J	0.11	J	1	0		05/05/2025

Duplicate Sample Summary

Client:	METEM A GE POWER Business	SDG No.:	Q1944
Project:	Tank Farm - Acid Analysis	Sample ID:	Q1944-02
Client ID:	CITY-WATERMSD	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
TKN	mg/L	+/-20	4.50		4.70		1	4		05/05/2025

Duplicate Sample Summary

Client: METEM A GE POWER Business	SDG No.: Q1944
Project: Tank Farm - Acid Analysis	Sample ID: Q1944-03
Client ID: CHILLER-WATERDUP	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
Alkalinity	mg/L	+/-20	5650		5680		1	1		05/05/2025
Phenolics	mg/L	+/-20	0.015	U	0.015	U	1	0		05/05/2025
Phenolics	mg/L	+/-20	0.015	U	0.015	U	1	0		05/06/2025

Duplicate Sample Summary

Client: METEM A GE POWER Business	SDG No.: Q1944
Project: Tank Farm - Acid Analysis	Sample ID: Q1944-03
Client ID: CHILLER-WATERMSD	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
Phenolics	mg/L	+/-20	1.40		1.30		1	7		05/05/2025
Phenolics	mg/L	+/-20	1.10		1.10		1	0		05/06/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135663

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135663BSW							
Alkalinity	mg/L	50	43.7		87	1	80-120	05/05/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135664

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135664BSW							
Alkalinity	mg/L	2500	2320		93	1	80-120	05/05/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135667

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB135667BS							
Acidity	mg/L	-50	-57.2		114	1	80-120	05/05/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135665

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167844BS							
Ammonia as N	mg/L	1	0.96		96	1	90-110	05/05/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135681

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167845BS							
Phenolics	mg/L	1	0.92		92	1	80-120	05/06/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135681

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167846BS							
Phenolics	mg/Kg	50	47.5		95	1	80-120	05/06/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135671

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167849BS							
TKN	mg/L	5	5.00		100	1	90-110	05/05/2025

Laboratory Control Sample Summary

Client: METEM A GE POWER Business

SDG No.: Q1944

Project: Tank Farm - Acid Analysis

Run No.: LB135671

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB167856BS							
TKN	mg/Kg	250	245		98	1	90-110	05/05/2025



RAW DATA

Analytical Summary Report

Analysis Method: 9045D

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB135647

Slope : 99.2

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	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

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

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

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	05/02/2025	15:25
2	CAL2	1	Water	NA	NA	20.2	7.00	05/02/2025	15:26
3	CAL3	1	Water	NA	NA	20.2	10.02	05/02/2025	15:30
4	ICV	1	Water	NA	NA	20.3	7.01	05/02/2025	15:35
5	CCV1	1	Water	NA	NA	20.2	2.01	05/02/2025	15:40
6	Q1944-01	1	Solid	5.00	10	23.7	3.88	05/02/2025	15:50
7	CCV2	1	Water	NA	NA	20.2	12.02	05/02/2025	15:51

135647

WORKLIST(Hardcopy Internal Chain)

WorkList Name : PH S Q1944

WorkList ID : 189291

Department : Wet-Chemistry

Date : 05-02-2025 15:15:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1944-01	MELTED-RUBBER-SAMPLE	Solid	pH	Cool 4 deg C	METE01	L41	05/02/2025	9045D

Date/Time 05/02/25 15:20
Raw Sample Received by: YD Gull
Raw Sample Relinquished by: SLD met-di's

Date/Time 05/02/25 17:30
Raw Sample Received by: SLD met-di's
Raw Sample Relinquished by: SLD met-di's

Analytical Summary Report

Analysis Method: 9040C

Analyst By : jignesh

Parameter: pH

Supervisor Review By : Iwona

Run Number: LB135648

Slope : 99.2

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	W3071
Buffer Solution, PH2 (500ml)	W3161
Buffer Solution, PH12 (500ml)	W3072

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

True Value of CCV1 = 2.00 Control Limits[+/- 0.1].

True Value of CCV2 = 12.00 Control Limits[+/- 0.1].

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	05/02/2025	15:25
2	CAL2	1	Water	NA	NA	20.2	7.00	05/02/2025	15:26
3	CAL3	1	Water	NA	NA	20.2	10.02	05/02/2025	15:30
4	ICV	1	Water	NA	NA	20.3	7.01	05/02/2025	15:35
5	CCV1	1	Water	NA	NA	20.2	2.01	05/02/2025	15:40
6	Q1944-02	1	Water	NA	NA	23.6	7.65	05/02/2025	16:00
7	Q1944-02DUP	1	Water	NA	NA	23.7	7.66	05/02/2025	16:02
8	Q1944-03	1	Water	NA	NA	24.1	8.99	05/02/2025	16:15
9	CCV2	1	Water	NA	NA	20.3	12.02	05/02/2025	16:20

WORKLIST(Hardcopy Internal Chain)

UB 135648

WorkList Name : PH W Q1944 WorkList ID : 189292 Department : Wet-Chemistry Date : 05-02-2025 15:16:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1944-02	B CITY-WATER	Water	pH	Cool 4 deg C	METE01	L41	05/01/2025	9040C
Q1944-03	B CHILLER-WATER	Water	pH	Cool 4 deg C	METE01	L41	05/01/2025	9040C

Date/Time 05/02/25 15:20
Raw Sample Received by: SPULLY
Raw Sample Relinquished by: SPULLY

Date/Time 05/02/25 17:30
Raw Sample Received by: SPULLY
Raw Sample Relinquished by: SPULLY

TitriSoft Report

Ident	Amount	DateTime	Alkalinity	Final pH (sample)	Initial pH (sample)	slope	offset
LB135663BLW	100	05/05/2025 12:20	0.00	3.97	3.98	101.2	6.92
LB135663BSW	100	05/05/2025 12:25	43.68	4.46	8.74	101.2	6.92
Q1944-02	50	05/05/2025 12:37	178.44	4.38	7.49	101.2	6.92
Q1944-02DUP	50	05/05/2025 12:42	179.08	4.40	7.48	101.2	6.92

TitriSoft Report

Ident	Amount	DateTime	Alkalinity	Final pH (sample)	Initial pH (sample)	slope	offset
LB135664BLW	50	05/05/2025 12:56	0.00	3.97	3.98	101.2	6.92
LB135664BSW	50	05/05/2025 13:02	2324.60	4.34	10.12	101.2	6.92
Q1944-03	50	05/05/2025 13:10	5652.70	4.46	9.02	101.2	6.92
Q1944-03DUP	50	05/05/2025 13:18	5678.30	4.42	9.03	101.2	6.92

LB135665

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

5/5/2025 12:41

Test: Ammonia-N

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.955	0.0	0.191	
ICB1	0.034	0.0	0.019	
CCV1	0.964	0.0	0.193	
CCB1	0.036	0.0	0.020	
RL CHECK	0.115	0.0	0.035	
PB167844BL	0.038	0.0	0.020	
PB167844BS	0.958	0.0	0.192	
Q1930-01	2.253	0.0	0.433	Test limit high
Q1930-01DUP	2.222	0.0	0.427	Test limit high
Q1930-01MS	2.949	0.0	0.563	Test limit high
Q1930-01MSD	3.159	0.0	0.602	Test limit high
Q1934-01	0.324	0.0	0.073	
Q1934-02	0.508	0.0	0.108	
Q1941-01	10.381	0.0	1.948	Test limit high
CCV2	0.978	0.0	0.195	
CCB2	0.039	0.0	0.020	
Q1944-02	0.040	0.0	0.021	
Q1944-03	0.200	0.0	0.050	
Q1949-01	0.279	0.0	0.065	
Q1949-04	1.913	0.0	0.370	
CCV3	0.987	0.0	0.197	
CCB3	0.043	0.0	0.021	
Q1930-01DLX2	1.198	0.0	0.236	
Q1930-01DUPDLX2	1.239	0.0	0.244	
Q1941-01DLX10	0.934	0.0	0.187	
CCV4	0.975	0.0	0.195	
CCB4	0.023	0.0	0.017	
N	27			
Mean	1.250			
SD	2.0374			
CV%	163.02			

115% (50-150)
05/05/2025
RM

Aquakem v. 7.2AQ1

Results from time period:

Mon May 05 10:36:33 2025

Mon May 05 12:36:25 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	Ammonia-† P		0.0223	mg/l	5/5/2025 10:36:33	
0.1PPM	A	Ammonia-† P		0.1077	mg/l	5/5/2025 10:36:34	
0.2PPM	A	Ammonia-† P		0.1975	mg/l	5/5/2025 10:36:35	
0.4PPM	A	Ammonia-† P		0.3948	mg/l	5/5/2025 10:36:36	
1.0PPM	A	Ammonia-† P		0.991	mg/l	5/5/2025 10:36:37	
1.3PPM	A	Ammonia-† P		1.2771	mg/l	5/5/2025 10:36:38	
2.0PPM	A	Ammonia-† P		2.0429	mg/l	5/5/2025 10:36:39	
ICV1	S	Ammonia-† P		0.9546	mg/l	5/5/2025 11:44:51	
ICB1	S	Ammonia-† P		0.0339	mg/l	5/5/2025 11:44:54	
CCV1	S	Ammonia-† P		0.9638	mg/l	5/5/2025 11:44:56	
CCB1	S	Ammonia-† P		0.036	mg/l	5/5/2025 11:44:58	
RL CHECK	S	Ammonia-† P		0.1153	mg/l	5/5/2025 11:45:02	
PB167844BL	S	Ammonia-† P		0.0384	mg/l	5/5/2025 11:55:35	
PB167844BS	S	Ammonia-† P		0.9582	mg/l	5/5/2025 11:55:37	
Q1930-01	S	Ammonia-† P		2.2526	mg/l	5/5/2025 11:55:40	
Q1930-01DUP	S	Ammonia-† P		2.2222	mg/l	5/5/2025 11:55:42	
Q1930-01MS	S	Ammonia-† P		2.9495	mg/l	5/5/2025 11:55:43	
Q1930-01MSD	S	Ammonia-† P		3.1591	mg/l	5/5/2025 11:55:44	
Q1934-01	S	Ammonia-† P		0.3236	mg/l	5/5/2025 12:06:17	
Q1934-02	S	Ammonia-† P		0.5084	mg/l	5/5/2025 12:06:18	
Q1941-01	S	Ammonia-† P		10.381	mg/l	5/5/2025 12:06:19	
CCV2	S	Ammonia-† P		0.9783	mg/l	5/5/2025 12:06:20	
CCB2	S	Ammonia-† P		0.0385	mg/l	5/5/2025 12:06:23	
Q1944-02	S	Ammonia-† P		0.0404	mg/l	5/5/2025 12:06:24	
Q1944-03	S	Ammonia-† P		0.2005	mg/l	5/5/2025 12:06:25	
Q1949-01	S	Ammonia-† P		0.279	mg/l	5/5/2025 12:06:26	
Q1949-04	S	Ammonia-† P		1.9134	mg/l	5/5/2025 12:06:27	
CCV3	S	Ammonia-† P		0.9867	mg/l	5/5/2025 12:06:28	
CCB3	S	Ammonia-† P		0.0429	mg/l	5/5/2025 12:11:48	
Q1930-01DLX2	S	Ammonia-† P		1.1978	mg/l	5/5/2025 12:36:17	
Q1930-01DUPDLX2	S	Ammonia-† P		1.2395	mg/l	5/5/2025 12:36:18	
Q1941-01DLX10	S	Ammonia-† P		0.934	mg/l	5/5/2025 12:36:20	
CCV4	S	Ammonia-† P		0.9752	mg/l	5/5/2025 12:36:22	
CCB4	S	Ammonia-† P		0.0227	mg/l	5/5/2025 12:36:25	

Calibration results

Aquakem 7.2AQ1

Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

5/5/2025 10:48

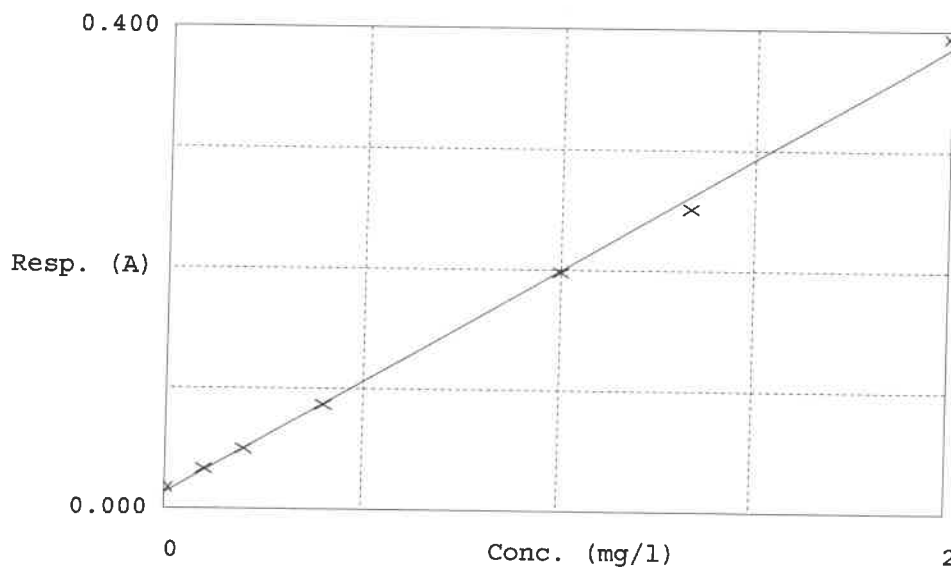
Test Ammonia-N

Accepted 5/5/2025 10:48

Factor 5.366
Bias 0.013

Coeff. of det. 0.998321

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.017	0.0223	0.0000	
2	NH3-2PPM	0.033	0.1077	0.1000	7.7
3	NH3-2PPM	0.050	0.1975	0.2000	-1.3
4	NH3-2PPM	0.087	0.3948	0.4000	-1.3
5	NH3-2PPM	0.198	0.9910	1.0000	-0.9
6	NH3-2PPM	0.251	1.2771	1.3333	-1.8
7	NH3-2PPM	0.394	2.0429	2.0000	2.1

05/05/2025
RM

Analytical Summary Report

Analysis Method: SM2310 B
Parameter: Acidity
Run Number: LB135667
Normality1 (T1): 0.02

Reviewed By: jignesh
Supervisor Review By: Iwona
Constant: 50,000
Normality2 (T2): 0.02
pH Meter ID: WC pH meter-1

Reagent/Standard	Lot/Log #
0.02N NaOH FOR ACIDITY	WP112847
Acidity LCSW -50 ppm	WP112954
Hydrogen Peroxide, 30% 1 gal	M6125
TEST PAPER, POT.IOD-STRCH, PK100, CS12	W3155
SULFURIC ACID, 0.02N, 4L	W3150

Seq	LabID	ClientID	TV (mg/L)	DL	Sample Vol (mL)	Residual Chlorine	Initial pH	T1 (mL)	Adj pH	T2 (mL)	End Point pH	Result (mg/L)	Anal Date	Anal Time
1	LB135667BL	LB135667BL		1	50.00	NEGATIVE	5.15	5.00	3.47	5.00	8.28	0.00	05/05/2025	14:30
2	LB135667BS	LB135667BS	-50	1	50.00	NEGATIVE	8.97	5.00	3.62	2.14	8.34	-57.20	05/05/2025	14:38
3	Q1944-02	CITY-WATER		1	50.00	NEGATIVE	8.14	10.00	3.37	7.46	8.31	-50.80	05/05/2025	14:45
4	Q1944-02DUP	CITY-WATERDUP		1	50.00	NEGATIVE	8.13	10.00	3.40	7.42	8.22	-51.60	05/05/2025	14:53
5	Q1944-03	CHILLER-WATER		1	10.00	NEGATIVE	9.03	60.00	3.44	60.62	8.26	62.00	05/05/2025	15:02

T1 = Titrant1 (H2SO4)

T2 = Titrant2 (NaOH)

Result = ((T2 * Normality2) - (T1 * Normality1)) * Constant / Sample Vol

WORKLIST(Hardcopy Internal Chain)

WorkList Name : acidity-050525 WorkList ID : 189304 Department : Wet-Chemistry Date : 05-05-2025 09:41:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1944-02	CITY-WATER	Water	Acidity	Cool 4 deg C	METE01	L41	05/01/2025	SM2310 B
Q1944-03	CHILLER-WATER	Water	Acidity	Cool 4 deg C	METE01	L41	05/01/2025	SM2310 B

Date/Time 05/05/25 12:10
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 05/05/25 15:10
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

LB135671

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC
 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

5/5/2025 15:50

Test: TKN-NH3

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	4.795	0.0	0.949	
ICB1	0.130	0.0	0.022	
CCV1	4.912	0.0	0.973	
CCB1	0.123	0.0	0.021	
RL CHECK	0.536	0.0	0.103	
PB167849BL	0.129	0.0	0.022	
PB167849BS	4.977	0.0	0.985	
Q1944-02	0.114	0.0	0.019	
Q1944-02DUP	0.112	0.0	0.019	
Q1944-02MS	4.495	0.0	0.890	
Q1944-02MSD	4.709	0.0	0.932	
Q1944-03	12.464	0.0	2.473	Test limit high
PB167856BL	0.128	0.0	0.022	
OB167856BS	4.908	0.0	0.972	
CCV2	4.985	0.0	0.987	
CCB2	0.207	0.0	0.037	
Q1944-01	50.530	0.0	10.038	Abs. high, Init abs., Tes
CCV3	5.017	0.0	0.993	
CCB3	0.130	0.0	0.022	
Q1944-03DLX2	6.161	0.0	1.221	
Q1944-01DLX10	4.387	0.0	0.868	
CCV4	4.814	0.0	0.953	
CCB4	0.118	0.0	0.020	

107% (50-150)

05/05/2025
 RM

N 23
 Mean 5.169
 SD 10.3647
 CV% 200.53

Aquakem v. 7.2AQ1

Results from time period:

Mon May 05 13:22:20 2025

Mon May 05 15:46:23 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPM	A	TKN-NH3	P	0.1276	mg/l	5/5/2025 13:22:20	
0.5PPM	A	TKN-NH3	P	0.5367	mg/l	5/5/2025 13:22:21	
1.0PPM	A	TKN-NH3	P	0.9831	mg/l	5/5/2025 13:22:22	
2.5PPM	A	TKN-NH3	P	2.5187	mg/l	5/5/2025 13:22:23	
5.0PPM	A	TKN-NH3	P	4.7952	mg/l	5/5/2025 13:22:24	
6.7PPM	A	TKN-NH3	P	6.4901	mg/l	5/5/2025 13:22:25	
10.0PPM	A	TKN-NH3	P	10.2153	mg/l	5/5/2025 13:22:26	
ICV1	S	TKN-NH3	P	4.7948	mg/l	5/5/2025 14:51:03	
ICB1	S	TKN-NH3	P	0.1297	mg/l	5/5/2025 14:51:05	
CCV1	S	TKN-NH3	P	4.9124	mg/l	5/5/2025 14:51:07	
CCB1	S	TKN-NH3	P	0.1233	mg/l	5/5/2025 14:51:10	
RL CHECK	S	TKN-NH3	P	0.5356	mg/l	5/5/2025 14:51:13	
PB167849BL	S	TKN-NH3	P	0.1291	mg/l	5/5/2025 15:01:47	
PB167849BS	S	TKN-NH3	P	4.9773	mg/l	5/5/2025 15:01:49	
Q1944-02	S	TKN-NH3	P	0.1139	mg/l	5/5/2025 15:01:52	
Q1944-02DUP	S	TKN-NH3	P	0.1118	mg/l	5/5/2025 15:01:54	
Q1944-02MS	S	TKN-NH3	P	4.4948	mg/l	5/5/2025 15:01:57	
Q1944-02MSD	S	TKN-NH3	P	4.7089	mg/l	5/5/2025 15:01:58	
Q1944-03	S	TKN-NH3	P	12.4637	mg/l	5/5/2025 15:12:29	
PB167856BL	S	TKN-NH3	P	0.1279	mg/l	5/5/2025 15:12:32	
OB167856BS	S	TKN-NH3	P	4.9079	mg/l	5/5/2025 15:12:34	
CCV2	S	TKN-NH3	P	4.9848	mg/l	5/5/2025 15:12:37	
CCB2	S	TKN-NH3	P	0.2068	mg/l	5/5/2025 15:12:39	
Q1944-01	S	TKN-NH3	P	50.5302	mg/l	5/5/2025 15:12:40	
CCV3	S	TKN-NH3	P	5.0166	mg/l	5/5/2025 15:19:44	
CCB3	S	TKN-NH3	P	0.13	mg/l	5/5/2025 15:19:48	
Q1944-03DLX2	S	TKN-NH3	P	6.1607	mg/l	5/5/2025 15:46:12	
Q1944-01DLX10	S	TKN-NH3	P	4.3874	mg/l	5/5/2025 15:46:14	
CCV4	S	TKN-NH3	P	4.8143	mg/l	5/5/2025 15:46:21	
CCB4	S	TKN-NH3	P	0.1183	mg/l	5/5/2025 15:46:23	

Calibration results

Aquakem 7.2AQ1

Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RH Instrument ID : Konelab

5/5/2025 13:46

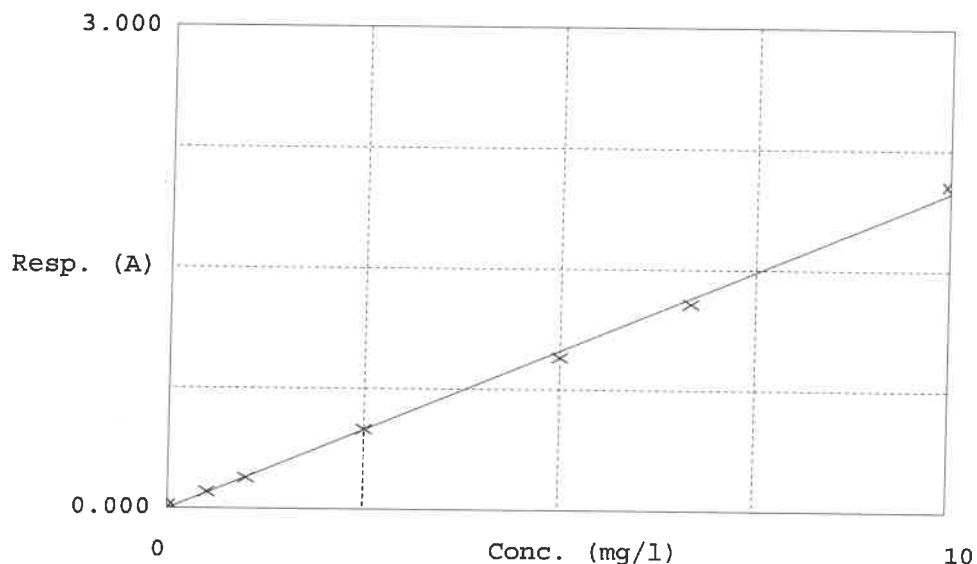
Test TKN-NH3

Accepted 5/5/2025 13:46

Factor 5.032
Bias -0.004

Coeff. of det. 0.998340

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.022	0.1276	0.0000	-
2	TKN-10	0.103	0.5367	0.5000	-7.3
3	TKN-10	0.192	0.9831	1.0000	-1.7
4	TKN-10	0.497	2.5187	2.5000	0.7
5	TKN-10	0.949	4.7952	5.0000	-4.1
6	TKN-10	1.286	6.4901	6.6667	-3.1
7	TKN-10	2.026	10.2153	10.0000	2.2

05/05/2025
RH

LB13567

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

5/5/2025 17:04

Test: Phenolics-

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.943	0.0	0.081	
ICB1	-0.026	0.0	0.008	
CCV1	1.127	0.0	0.095	
CCB1	-0.029	0.0	0.008	
PB167846BL	-0.028	0.0	0.008	
PB167846BS	0.953	0.0	0.082	
Q1944-01	0.005	0.0	0.010	
PB167845BL	-0.022	0.0	0.008	
PB167845BS	0.938	0.0	0.081	
Q1944-02	-0.015	0.0	0.009	
Q1944-03	-0.027	0.0	0.008	
Q1944-03DUP	-0.029	0.0	0.008	
Q1944-03MS	1.351	0.0	0.112	
Q1944-03MSD	1.331	0.0	0.110	
CCV2	1.167	0.0	0.098	
CCB2	-0.011	0.0	0.009	
N	16			
Mean	0.477			
SD	0.5929			
CV%	124.36			

Aquakem v. 7.2AQ1

Results from time period:

Mon May 05 16:19:26 2025

Mon May 05 17:02:48 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.00PPM	A	Phenolics-	P	-0.0094	mg/l	5/5/2025 16:19:26	
0.05PPM	A	Phenolics-	P	0.0536	mg/l	5/5/2025 16:19:27	
0.1PPM	A	Phenolics-	P	0.0906	mg/l	5/5/2025 16:19:28	
0.25PPM	A	Phenolics-	P	0.2546	mg/l	5/5/2025 16:19:29	
0.50PPM	A	Phenolics-	P	0.5146	mg/l	5/5/2025 16:19:30	
1.0PPM	A	Phenolics-	P	0.9996	mg/l	5/5/2025 16:19:31	
2.0PPM	A	Phenolics-	P	1.9963	mg/l	5/5/2025 16:19:32	
ICV1	S	Phenolics-	P	0.9427	mg/l	5/5/2025 16:47:20	
ICB1	S	Phenolics-	P	-0.0264	mg/l	5/5/2025 16:47:23	
CCV1	S	Phenolics-	P	1.1265	mg/l	5/5/2025 16:47:25	
CCB1	S	Phenolics-	P	-0.0291	mg/l	5/5/2025 16:47:26	
PB167846BL	S	Phenolics-	P	-0.028	mg/l	5/5/2025 16:47:29	
PB167846BS	S	Phenolics-	P	0.9533	mg/l	5/5/2025 16:47:31	
Q1944-01	S	Phenolics-	P	0.0052	mg/l	5/5/2025 16:57:22	
PB167845BL	S	Phenolics-	P	-0.0219	mg/l	5/5/2025 16:57:23	
PB167845BS	S	Phenolics-	P	0.9377	mg/l	5/5/2025 16:57:25	
Q1944-02	S	Phenolics-	P	-0.015	mg/l	5/5/2025 16:57:27	
Q1944-03	S	Phenolics-	P	-0.0265	mg/l	5/5/2025 16:57:29	
Q1944-03DUP	S	Phenolics-	P	-0.0289	mg/l	5/5/2025 16:57:31	
Q1944-03MS	S	Phenolics-	P	1.3514	mg/l	5/5/2025 16:57:33	
Q1944-03MSD	S	Phenolics-	P	1.331	mg/l	5/5/2025 17:02:44	
CCV2	S	Phenolics-	P	1.1666	mg/l	5/5/2025 17:02:45	
CCB2	S	Phenolics-	P	-0.0106	mg/l	5/5/2025 17:02:47	

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

5/5/2025 16:22

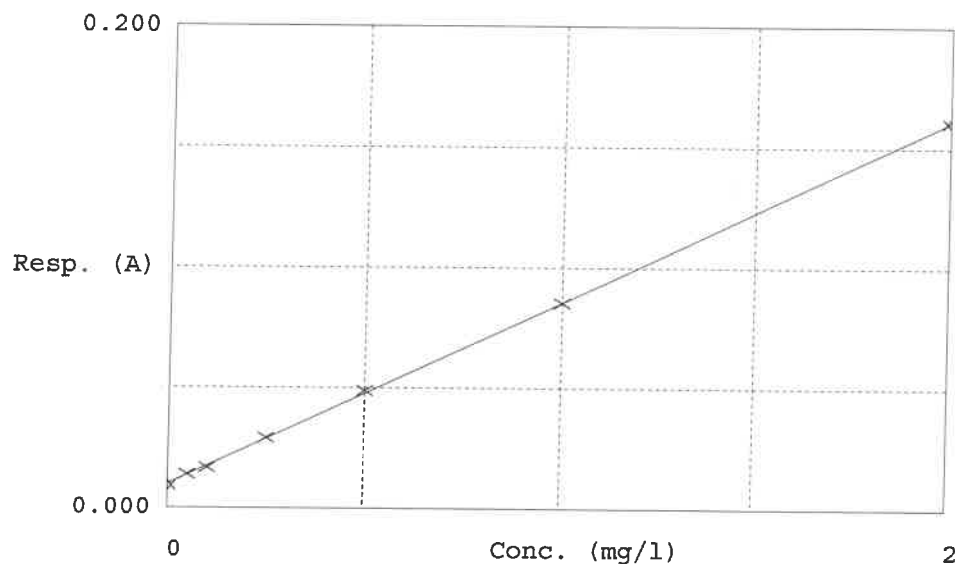
Test Phenolics-

Accepted 5/5/2025 16:22

Factor 13.25
Bias 0.010

Coeff. of det. 0.999861

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.009	-0.0094	0.0000	
2	Phenol-2	0.014	0.0536	0.0500	7.2
3	Phenol-2	0.017	0.0906	0.1000	-9.2
4	Phenol-2	0.029	0.2546	0.2500	1.8
5	Phenol-2	0.049	0.5146	0.5000	2.9
6	Phenol-2	0.085	0.9996	1.0000	0.0
7	Phenol-2	0.161	1.9963	2.0000	-0.2

05/05/2025
RM

LB1356

Test results

Aquakem 7.2AQ1

Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

5/6/2025 12:02

Test: Phenolics-

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	0.927	0.0	0.081	
ICB1	-0.015	0.0	0.009	
CCV1	0.931	0.0	0.081	
CCB1	-0.014	0.0	0.009	
PB167846BL	-0.012	0.0	0.009	
PB167846BS	0.951	0.0	0.083	
Q1944-01	0.011	0.0	0.011	
PB167845BL	-0.015	0.0	0.009	
PB167845BS	0.925	0.0	0.081	
Q1944-02	-0.004	0.0	0.010	
Q1944-03	-0.016	0.0	0.009	
Q1944-03DUP	-0.018	0.0	0.009	
Q1944-03MS	1.104	0.0	0.095	
Q1944-03MSD	1.111	0.0	0.095	
CCV2	0.948	0.0	0.083	
CCB2	-0.003	0.0	0.010	
N	16			
Mean	0.426			
SD	0.5124			
CV%	120.38			

Aquakem v. 7.2AQ1

Results from time period:

Tue May 06 11:00:42 2025

Tue May 06 12:00:55 2025

Sample Id	Sam/Ctr/c	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.00PPM	A	Phenolics-	P	-0.0069	mg/l	5/6/2025 11:00:42	
0.05PPM	A	Phenolics-	P	0.0532	mg/l	5/6/2025 11:00:43	
0.1PPM	A	Phenolics-	P	0.109	mg/l	5/6/2025 11:00:44	
0.25PPM	A	Phenolics-	P	0.2675	mg/l	5/6/2025 11:00:45	
0.50PPM	A	Phenolics-	P	0.4891	mg/l	5/6/2025 11:00:46	
1.0PPM	A	Phenolics-	P	0.9761	mg/l	5/6/2025 11:00:47	
2.0PPM	A	Phenolics-	P	2.0119	mg/l	5/6/2025 11:00:48	
ICV1	S	Phenolics-	P	0.9271	mg/l	5/6/2025 11:28:57	
ICB1	S	Phenolics-	P	-0.0151	mg/l	5/6/2025 11:28:59	
CCV1	S	Phenolics-	P	0.931	mg/l	5/6/2025 11:29:02	
CCB1	S	Phenolics-	P	-0.014	mg/l	5/6/2025 11:29:04	
PB167846BL	S	Phenolics-	P	-0.0118	mg/l	5/6/2025 11:29:06	
PB167846BS	S	Phenolics-	P	0.9509	mg/l	5/6/2025 11:29:07	
Q1944-01	S	Phenolics-	P	0.0109	mg/l	5/6/2025 11:38:59	
PB167845BL	S	Phenolics-	P	-0.0145	mg/l	5/6/2025 11:39:00	
PB167845BS	S	Phenolics-	P	0.9246	mg/l	5/6/2025 11:39:02	
Q1944-02	S	Phenolics-	P	-0.0043	mg/l	5/6/2025 11:39:04	
Q1944-03	S	Phenolics-	P	-0.0163	mg/l	5/6/2025 11:39:05	
Q1944-03DUP	S	Phenolics-	P	-0.0177	mg/l	5/6/2025 11:39:07	
Q1944-03MS	S	Phenolics-	P	1.1038	mg/l	5/6/2025 12:00:49	
Q1944-03MSD	S	Phenolics-	P	1.1109	mg/l	5/6/2025 12:00:50	
CCV2	S	Phenolics-	P	0.9476	mg/l	5/6/2025 12:00:53	
CCB2	S	Phenolics-	P	-0.0027	mg/l	5/6/2025 12:00:55	

Calibration results

Aquakem 7.2AQ1

Page: 1

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM

Instrument ID : Konelab

5/6/2025 11:02

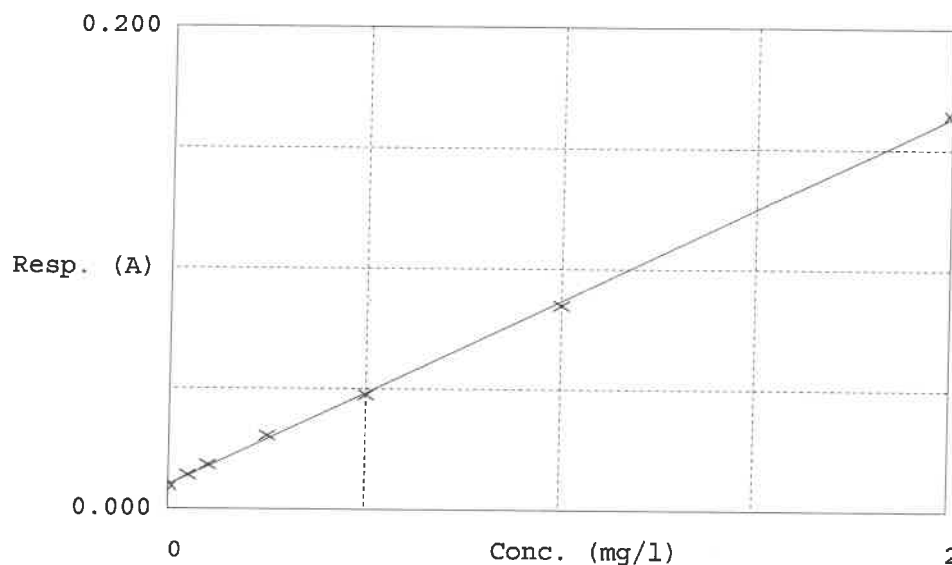
Test Phenolics-

Accepted 5/6/2025 11:02

Factor 13.04
Bias 0.010

Coeff. of det. 0.999596

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.00PPM	0.009	-0.0069	0.0000	-
2	Phenol-2	0.014	0.0532	0.0500	6.4
3	Phenol-2	0.018	0.1090	0.1000	9.0
4	Phenol-2	0.030	0.2675	0.2500	7.0
5	Phenol-2	0.047	0.4891	0.5000	-2.2
6	Phenol-2	0.085	0.9761	1.0000	-2.4
7	Phenol-2	0.164	2.0119	2.0000	0.6

05/06/2025
RM

SOP ID : MSM4500-NH3 B,G-Ammonia-17

SDG No : N/A

Matrix : WATER

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : N/A

Start Digest Date: 05/05/2025 Time : 08:45 Temp : 150 °C

End Digest Date: 05/05/2025 Time : 09:45 Temp : 160 °C

D batch 05/05/2025 10:05 150 °C
05/05/2025 11:05 160 °C

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

Prep Technician Signature: RH

pH Meter ID : N/A

Supervisor Signature: 12

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP112614
MS/MSD SPIKE SOL.	1.0ML	WP112613
PBW	50.0ML	W3112
RL CHECK	0.1ML	WP112613
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
BORATE BUFFER	2.5ML	WP111325
NAOH 6N	1.0ML-5.0ML	WP111318
H2SO4 0.04N	5.0ML	WP112828
pH strip-Ammonia	N/A	W3133
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604. Due to bad matrix and client history 1ML was taken as an initial volume for Q1941-01

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/05/2025 11:30	RH (WC)	RH (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167844BL	PB167844BL	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
PB167844BS	LCS844	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1930-01DUP	WATER-TREATMENT-DISCHAR GEDUP	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1930-01MS	WATER-TREATMENT-DISCHAR GEMS	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1930-01MSD	WATER-TREATMENT-DISCHAR GEMSD	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1930-01	WATER-TREATMENT-DISCHAR GE	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1934-01	001-WILLETS-PT-BLVD(APR)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1934-02	002-35TH-AVE(APR)	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1941-01	EFFLUENT	1	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1944-02	CITY-WATER	50	50	<2	N/A	Negative	N/A	AFTER ADDING 6N NAOH PH IS 9.5	N/A
Q1944-03	CHILLER-WATER	50	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1949-01	001-WILLETS-PT-BLVD(MAY)	50	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1949-04	002-35TH-AVE(MAY)	50	50	<2	N/A	Negative	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : AMMOla w-5-5

WorkList ID : 189313

Department : Distillation

Date : 05-05-2025 08:08:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1930-01	WATER-TREATMENT-DISCHAI	Water	Ammonia	Conc H2SO4 to pH < 2	VERI01	L41	05/01/2025	SM4500-NH3
Q1934-01	001-WILLETS-PT-BLVD(APR)	Water	Ammonia	Conc H2SO4 to pH < 2	TULL01	L61	04/10/2025	SM4500-NH3
Q1934-02	002-35TH-AVE(APR)	Water	Ammonia	Conc H2SO4 to pH < 2	TULL01	L61	04/10/2025	SM4500-NH3
Q1941-01	EFFLUENT	Water	Ammonia	Conc H2SO4 to pH < 2	HOLL01	L41	05/01/2025	SM4500-NH3
Q1944-02	CITY-WATER	Water	Ammonia	Cool 4 deg C	METE01	L41	05/01/2025	SM4500-NH3
Q1944-03	CHILLER-WATER	Water	Ammonia	Cool 4 deg C	METE01	L41	05/01/2025	SM4500-NH3
Q1949-01	001-WILLETS-PT-BLVD(MAY)	Water	Ammonia	Conc H2SO4 to pH < 2	TULL01	L21	05/01/2025	SM4500-NH3
Q1949-04	002-35TH-AVE(MAY)	Water	Ammonia	Conc H2SO4 to pH < 2	TULL01	L21	05/01/2025	SM4500-NH3

Date/Time 05/05/2025 08:15
 Raw Sample Received by: RH wcy
 Raw Sample Relinquished by: edd wcy

Date/Time 05/05/2025 14:20
 Raw Sample Received by: edd wcy
 Raw Sample Relinquished by: RH wcy

SOP ID : M420.1 & 9065-Phenolics-13

SDG No : N/A

Start Digest Date: 05/05/2025 Time : 14:10 Temp : 150 °C

Matrix : WATER

End Digest Date: 05/05/2025 Time : 15:10 Temp : 160 °C

Pipette ID : WC

Balance ID : N/A

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: 12

Standardized Name	MLS USED	STD REF. # FROM LOG
LCSW	1.0ML	WP112726
MS/MSD SPIKE SOL.	1.0ML	WP112725
PBW	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
pH Paper 0-14	N/A	W3140
CONC H2SO4	N/A	M6041
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/05/2025 15:20	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167845BL	PBW845	50	50	<2	N/A	N/A	N/A	N/A	N/A
PB167845BS	LCS845	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1944-02	CITY-WATER	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1944-03	CHILLER-WATER	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1944-03DUP	CHILLER-WATERDUP	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1944-03MS	CHILLER-WATERMS	50	50	<2	N/A	N/A	N/A	N/A	N/A
Q1944-03MSD	CHILLER-WATERMSD	50	50	<2	N/A	N/A	N/A	N/A	N/A

SOP ID : M420.1 & 9065-Phenolics-13

SDG No : N/A

Start Digest Date: 05/05/2025 Time : 12:45 Temp : 150 °C

Matrix : SOIL

End Digest Date: 05/05/2025 Time : 13:45 Temp : 158 °C

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#2

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

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: 12

Standard Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	W112726
PBS003	50.0ML	W3112
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
pH Paper 0-14	N/A	W3140
CONC H2SO4	N/A	M6041
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

Due to limited volume DUP, MS and MSD were not performed.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/05/2025 13:55	RM cwc	RM cwc
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167846BL	PBS846	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167846BS	LCS846	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1944-01	MELTED-RUBBER-SAMPLE	0.50	50	N/A	N/A	N/A	N/A	N/A	N/A

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Start Digest Date: 05/05/2025 Time : 09:20 Temp : 380 °C

Matrix : WATER

End Digest Date: 05/05/2025 Time : 10:50 Temp : 385 °C

Pipette ID : WC

Start Distillation Date: 05/05/2025 Time : 11:20 Temp : 150 °C

Balance ID : N/A

End Distillation Date: 05/05/2025 Time : 12:20 Temp : 160 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

Block ID : WC-DIST-BLOCK-1

Filter paper ID : N/A

Prep Technician Signature: RM

Weigh By : N/A

pH Meter ID : N/A

Supervisor Signature: R

Standardized Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP112942
TKN CCV STD	50.0ML	WP112943
TKN ICV STD	50.0ML	WP112944
TKN LCS STD	50.0ML	WP112945
MS/MSD SPIKE SOL.	0.25ML	WP112611

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP111319
TKN DISTILLATION BUFFER	10.0ML	WP112079
H2SO4 0.04N	5.0ML	WP112828
pH Paper 0-14	N/A	W3140
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

RL CHECK 10ML FROM WP112943 ,ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/05/2025 12:30	RM (WC)	RM (WC)
05/05/2026 13:55	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167849BL	PBW849	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
PB167849BS	LCS849	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1944-02DUP	CITY-WATERDUP	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1944-02MS	CITY-WATERMS	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1944-02MSD	CITY-WATERMSD	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1944-02	CITY-WATER	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A
Q1944-03	CHILLER-WATER	50	50	<2	N/A	N/A	N/A	PH AFTER ADDING DIST BUFFER>11	N/A

SOP ID : MSM4500-N Org C-TKN-11

SDG No : N/A

Start Digest Date: 05/05/2025 Time : 09:20 Temp : 385 °C

Matrix : SOIL

End Digest Date: 05/05/2025 Time : 10:50 Temp : 380 °C

Pipette ID : WC

Start Distillation Date: 05/05/2025 Time : 12:45 Temp : 150 °C

Balance ID : WC SC-7

End Distillation Date: 05/05/2025 Time : 13:45 Temp : 158 °C

Hood ID : HOOD#2&3

Digestion tube ID : M5595

Block Thermometer ID : Therm#2(2179)

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: 17

Standard Name	MLS USED	STD REF. # FROM LOG
TKN CAL STD	50.0ML	WP112942
TKN CCV STD	50.0ML	WP112943
TKN ICV STD	50.0ML	WP112944
TKN LCS STD	50.0ML	WP112945
RL CHECK	N/A	AS PER PB167849

Chemical Used	ML/SAMPLE USED	Lot Number
TKN DIGESTION FLUID	10.0ML	WP111319
TKN DISTILLATION BUFFER	10.0ML	WP112903
H2SO4 0.04N	5.0ML	WP112828
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL GLASSWEAR ARE STEAMED OUT AND THERE WERE NO TRACE OF AMMONIA USING NESLER REAGENT WP111604. Due to limited volume DUP, MS and MSD were not performed.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
05/05/2025 1355	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB167856BL	PBS856	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB167856BS	LCS856	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q1944-01	MELTED-RUBBER-SAMPLE	0.5	50	N/A	N/A	N/A	N/A	N/A	N/A

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135647

Review By	jignesh	Review On	5/2/2025 4:26:05 PM
Supervise By	Iwona	Supervise On	5/5/2025 9:33:32 AM
SubDirectory	LB135647	Test	pH
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,W3071,W3161,W3072		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/02/25 15:25		Jignesh	OK
2	CAL2	CAL2	CAL	05/02/25 15:26		Jignesh	OK
3	CAL3	CAL3	CAL	05/02/25 15:30		Jignesh	OK
4	ICV	ICV	ICV	05/02/25 15:35		Jignesh	OK
5	CCV1	CCV1	CCV	05/02/25 15:40		Jignesh	OK
6	Q1944-01	MELTED-RUBBER-S	SAM	05/02/25 15:50		Jignesh	OK
7	CCV2	CCV2	CCV	05/02/25 15:51		Jignesh	OK

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB135648

Review By	jignesh	Review On	5/2/2025 4:32:03 PM
Supervise By	Iwona	Supervise On	5/5/2025 9:33:19 AM
SubDirectory	LB135648	Test	pH
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,W3071,W3161,W3072		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	05/02/25 15:25		jignesh	OK
2	CAL2	CAL2	CAL	05/02/25 15:26		jignesh	OK
3	CAL3	CAL3	CAL	05/02/25 15:30		jignesh	OK
4	ICV	ICV	ICV	05/02/25 15:35		jignesh	OK
5	CCV1	CCV1	CCV	05/02/25 15:40		jignesh	OK
6	Q1944-02	CITY-WATER	SAM	05/02/25 16:00		jignesh	OK
7	Q1944-02DUP	CITY-WATERDUP	DUP	05/02/25 16:02		jignesh	OK
8	Q1944-03	CHILLER-WATER	SAM	05/02/25 16:15		jignesh	OK
9	CCV2	CCV2	CCV	05/02/25 16:20		jignesh	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB135663

Review By	rubina	Review On	5/6/2025 11:50:43 AM
Supervise By	Iwona	Supervise On	5/6/2025 11:52:19 AM
SubDirectory	LB135663	Test	Alkalinity
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	WP112954		
Chk Standard	W3071,W3178,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135663BLW	LB135663BLW	MB	05/05/25 12:20	pH=3.97	Iwona	OK
2	LB135663BSW	LB135663BSW	LCS	05/05/25 12:25	pH=4.46	Iwona	OK
3	Q1944-02	CITY-WATER	SAM	05/05/25 12:37	pH=4.38	Iwona	OK
4	Q1944-02DUP	CITY-WATERDUP	DUP	05/05/25 12:42	pH=4.40	Iwona	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB135664

Review By	rubina	Review On	5/6/2025 11:50:52 AM
Supervise By	Iwona	Supervise On	5/6/2025 11:52:27 AM
SubDirectory	LB135664	Test	Alkalinity
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	WP112954		
Chk Standard	W3071,W3178,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135664BLW	LB135664BLW	MB	05/05/25 12:56	pH=3.97	Iwona	OK
2	LB135664BSW	LB135664BSW	LCS	05/05/25 13:02	pH=4.34	Iwona	OK
3	Q1944-03	CHILLER-WATER	SAM	05/05/25 13:10	pH=4.46	Iwona	OK
4	Q1944-03DUP	CHILLER-WATERDUP	DUP	05/05/25 13:18	pH=4.42	Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135665

Review By	rubina	Review On	5/5/2025 2:45:01 PM
Supervise By	Iwona	Supervise On	5/5/2025 4:40:09 PM
SubDirectory	LB135665	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP112946		
ICV Standard	WP112948		
CCV Standard	WP112947		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112614		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	05/05/25 10:36		rubina	OK
2	0.1PPM	0.1PPM	CAL2	05/05/25 10:36		rubina	OK
3	0.2PPM	0.2PPM	CAL3	05/05/25 10:36		rubina	OK
4	0.4PPM	0.4PPM	CAL4	05/05/25 10:36		rubina	OK
5	1.0PPM	1.0PPM	CAL5	05/05/25 10:36		rubina	OK
6	1.3PPM	1.3PPM	CAL6	05/05/25 10:36		rubina	OK
7	2.0PPM	2.0PPM	CAL7	05/05/25 10:36		rubina	OK
8	ICV1	ICV1	ICV	05/05/25 11:44		rubina	OK
9	ICB1	ICB1	ICB	05/05/25 11:44		rubina	OK
10	CCV1	CCV1	CCV	05/05/25 11:44		rubina	OK
11	CCB1	CCB1	CCB	05/05/25 11:44		rubina	OK
12	RL	RL	SAM	05/05/25 11:45		rubina	OK
13	PB167844BL	PB167844BL	MB	05/05/25 11:55		rubina	OK
14	PB167844BS	PB167844BS	LCS	05/05/25 11:55		rubina	OK
15	Q1930-01	WATER-TREATMENT	SAM	05/05/25 11:55	NH3 is High	rubina	Dilution
16	Q1930-01DUP	WATER-TREATMENT	DUP	05/05/25 11:55	NH3 is High	rubina	Dilution
17	Q1930-01MS	WATER-TREATMENT	MS	05/05/25 11:55		rubina	OK
18	Q1930-01MSD	WATER-TREATMENT	MSD	05/05/25 11:55		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135665

Review By	rubina	Review On	5/5/2025 2:45:01 PM
Supervise By	Iwona	Supervise On	5/5/2025 4:40:09 PM
SubDirectory	LB135665	Test	Ammonia
STD. NAME	STD REF.#		
ICAL Standard	WP112946		
ICV Standard	WP112948		
CCV Standard	WP112947		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112614		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

19	Q1934-01	001-WILLETS-PT-BLV	SAM	05/05/25 12:06		rubina	OK
20	Q1934-02	002-35TH-AVE(APR)	SAM	05/05/25 12:06		rubina	OK
21	Q1941-01	EFFLUENT	SAM	05/05/25 12:06	NH3 is High	rubina	Dilution
22	CCV2	CCV2	CCV	05/05/25 12:06		rubina	OK
23	CCB2	CCB2	CCB	05/05/25 12:06		rubina	OK
24	Q1944-02	CITY-WATER	SAM	05/05/25 12:06		rubina	OK
25	Q1944-03	CHILLER-WATER	SAM	05/05/25 12:06		rubina	OK
26	Q1949-01	001-WILLETS-PT-BLV	SAM	05/05/25 12:06		rubina	OK
27	Q1949-04	002-35TH-AVE(MAY)	SAM	05/05/25 12:06		rubina	OK
28	CCV3	CCV3	CCV	05/05/25 12:06		rubina	OK
29	CCB3	CCB3	CCB	05/05/25 12:11		rubina	OK
30	Q1930-01DL	WATER-TREATMENT	SAM	05/05/25 12:36	2x For NH3	rubina	Confirms
31	Q1930-01DUPDL	WATER-TREATMENT	DUP	05/05/25 12:36	2x For NH3	rubina	Confirms
32	Q1941-01DL	EFFLUENTDL	SAM	05/05/25 12:36	10X For NH3	rubina	Confirms
33	CCV4	CCV4	CCV	05/05/25 12:36		rubina	OK
34	CCB4	CCB4	CCB	05/05/25 12:36		rubina	OK

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB135667

Review By	jignesh	Review On	5/5/2025 4:07:25 PM
Supervise By	Iwona	Supervise On	5/5/2025 4:08:50 PM
SubDirectory	LB135667	Test	Acidity
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	WP112847,WP112954,M6125,W3155,W3150		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB135667BL	LB135667BL	MB	05/05/25 14:30		Iwona	OK
2	LB135667BS	LB135667BS	LCS	05/05/25 14:38		Iwona	OK
3	Q1944-02	CITY-WATER	SAM	05/05/25 14:45		Iwona	OK
4	Q1944-02DUP	CITY-WATERDUP	DUP	05/05/25 14:53		Iwona	OK
5	Q1944-03	CHILLER-WATER	SAM	05/05/25 15:02		Iwona	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135671

Review By	rubina	Review On	5/6/2025 10:41:18 AM
Supervise By	Iwona	Supervise On	5/6/2025 11:50:54 AM
SubDirectory	LB135671	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP112942		
ICV Standard	WP112944		
CCV Standard	WP112943		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112945		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	05/05/25 13:22		rubina	OK
2	0.5PPM	0.5PPM	CAL2	05/05/25 13:22		rubina	OK
3	1.0PPM	1.0PPM	CAL3	05/05/25 13:22		rubina	OK
4	2.5PPM	2.5PPM	CAL4	05/05/25 13:22		rubina	OK
5	5.0PPM	5.0PPM	CAL5	05/05/25 13:22		rubina	OK
6	6.7PPM	6.7PPM	CAL6	05/05/25 13:22		rubina	OK
7	10.0PPM	10.0PPM	CAL7	05/05/25 13:22		rubina	OK
8	ICV1	ICV1	ICV	05/05/25 14:51		rubina	OK
9	ICB1	ICB1	ICB	05/05/25 14:51		rubina	OK
10	CCV1	CCV1	CCV	05/05/25 14:51		rubina	OK
11	CCB1	CCB1	CCB	05/05/25 14:51		rubina	OK
12	RL	RL	SAM	05/05/25 14:51		rubina	OK
13	PB167849BL	PB167849BL	MB	05/05/25 15:01		rubina	OK
14	PB167849BS	PB167849BS	LCS	05/05/25 15:01		rubina	OK
15	Q1944-02	CITY-WATER	SAM	05/05/25 15:01		rubina	OK
16	Q1944-02DUP	CITY-WATERDUP	DUP	05/05/25 15:01		rubina	OK
17	Q1944-02MS	CITY-WATERMS	MS	05/05/25 15:01		rubina	OK
18	Q1944-02MSD	CITY-WATERMSD	MSD	05/05/25 15:01		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135671

Review By	rubina	Review On	5/6/2025 10:41:18 AM
Supervise By	Iwona	Supervise On	5/6/2025 11:50:54 AM
SubDirectory	LB135671	Test	TKN
STD. NAME	STD REF.#		
ICAL Standard	WP112942		
ICV Standard	WP112944		
CCV Standard	WP112943		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112945		
Chk Standard	WP112897,WP111745,WP111385,WP111660		

19	Q1944-03	CHILLER-WATER	SAM	05/05/25 15:12	TKN High	rubina	Dilution
20	PB167856BL	PB167856BL	MB	05/05/25 15:12		rubina	OK
21	PB167856BS	PB167856BS	LCS	05/05/25 15:12		rubina	OK
22	CCV2	CCV2	CCV	05/05/25 15:12		rubina	OK
23	CCB2	CCB2	CCB	05/05/25 15:12		rubina	OK
24	Q1944-01	MELTED-RUBBER-S	SAM	05/05/25 15:12	TKN High	rubina	Dilution
25	CCV3	CCV3	CCV	05/05/25 15:19		rubina	OK
26	CCB3	CCB3	CCB	05/05/25 15:19		rubina	OK
27	Q1944-03DL	CHILLER-WATERDL	SAM	05/05/25 15:46	2X For TKN	rubina	Confirms
28	Q1944-01DL	MELTED-RUBBER-S	SAM	05/05/25 15:46	10X For TKN	rubina	Confirms
29	CCV4	CCV4	CCV	05/05/25 15:46		rubina	OK
30	CCB4	CCB4	CCB	05/05/25 15:46		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135673

Review By	rubina	Review On	5/6/2025 11:51:23 AM
Supervise By	Iwona	Supervise On	5/6/2025 11:52:11 AM
SubDirectory	LB135673	Test	Phenolics
STD. NAME	STD REF.#		
ICAL Standard	WP112949		
ICV Standard	WP112951		
CCV Standard	WP112950		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112726		
Chk Standard	WP112609,WP112610,WP112952		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	0.00PPM	0.00PPM	CAL1	05/05/25 16:19		rubina	OK
2	0.05PPM	0.05PPM	CAL2	05/05/25 16:19		rubina	OK
3	0.1PPM	0.1PPM	CAL3	05/05/25 16:19		rubina	OK
4	0.25PPM	0.25PPM	CAL4	05/05/25 16:19		rubina	OK
5	0.50PPM	0.50PPM	CAL5	05/05/25 16:19		rubina	OK
6	1.0PPM	1.0PPM	CAL6	05/05/25 16:19		rubina	OK
7	2.0PPM	2.0PPM	CAL7	05/05/25 16:19		rubina	OK
8	ICV1	ICV1	ICV	05/05/25 16:47		rubina	OK
9	ICB1	ICB1	ICB	05/05/25 16:47		rubina	OK
10	CCV1	CCV1	CCV	05/05/25 16:47		rubina	OK
11	CCB1	CCB1	CCB	05/05/25 16:47		rubina	OK
12	PB167846BL	PB167846BL	MB	05/05/25 16:47	use for fax	rubina	OK
13	PB167846BS	PB167846BS	LCS	05/05/25 16:47	use for fax	rubina	OK
14	Q1944-01	MELTED-RUBBER-SA	SAM	05/05/25 16:57	use for fax	rubina	OK
15	PB167845BL	PB167845BL	MB	05/05/25 16:57	use for fax	rubina	OK
16	PB167845BS	PB167845BS	LCS	05/05/25 16:57	use for fax	rubina	OK
17	Q1944-02	CITY-WATER	SAM	05/05/25 16:57	use for fax	rubina	OK
18	Q1944-03	CHILLER-WATER	SAM	05/05/25 16:57	use for fax	rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135673

Review By	rubina	Review On	5/6/2025 11:51:23 AM
Supervise By	Iwona	Supervise On	5/6/2025 11:52:11 AM
SubDirectory	LB135673	Test	Phenolics
STD. NAME	STD REF.#		
ICAL Standard	WP112949		
ICV Standard	WP112951		
CCV Standard	WP112950		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112726		
Chk Standard	WP112609,WP112610,WP112952		

19	Q1944-03DUP	CHILLER-WATERDUP	DUP	05/05/25 16:57	use for fax	rubina	OK
20	Q1944-03MS	CHILLER-WATERMS	MS	05/05/25 16:57	use for fax	rubina	OK
21	Q1944-03MSD	CHILLER-WATERMS	MSD	05/05/25 17:02	use for fax	rubina	OK
22	CCV2	CCV2	CCV	05/05/25 17:02	Fail	rubina	OK
23	CCB2	CCB2	CCB	05/05/25 17:02		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135681

Review By	rubina	Review On	5/6/2025 1:15:53 PM
Supervise By	Iwona	Supervise On	5/6/2025 2:33:31 PM
SubDirectory	LB135681	Test	Phenolics
STD. NAME	STD REF.#		
ICAL Standard	WP112960		
ICV Standard	WP112962		
CCV Standard	WP112961		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112726		
Chk Standard	WP112609,WP112610,WP112963		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.00PPM	0.00PPM	CAL1	05/06/25 11:00		rubina	OK
2	0.05PPM	0.05PPM	CAL2	05/06/25 11:00		rubina	OK
3	0.1PPM	0.1PPM	CAL3	05/06/25 11:00		rubina	OK
4	0.25PPM	0.25PPM	CAL4	05/06/25 11:00		rubina	OK
5	0.50PPM	0.50PPM	CAL5	05/06/25 11:00		rubina	OK
6	1.0PPM	1.0PPM	CAL6	05/06/25 11:00		rubina	OK
7	2.0PPM	2.0PPM	CAL7	05/06/25 11:00		rubina	OK
8	ICV1	ICV1	ICV	05/06/25 11:28		rubina	OK
9	ICB1	ICB1	ICB	05/06/25 11:28		rubina	OK
10	CCV1	CCV1	CCV	05/06/25 11:29		rubina	OK
11	CCB1	CCB1	CCB	05/06/25 11:29		rubina	OK
12	PB167846BL	PB167846BL	MB	05/06/25 11:29		rubina	OK
13	PB167846BS	PB167846BS	LCS	05/06/25 11:29		rubina	OK
14	Q1944-01	MELTED-RUBBER-S	SAM	05/06/25 11:38		rubina	OK
15	PB167845BL	PB167845BL	MB	05/06/25 11:39		rubina	OK
16	PB167845BS	PB167845BS	LCS	05/06/25 11:39		rubina	OK
17	Q1944-02	CITY-WATER	SAM	05/06/25 11:39		rubina	OK
18	Q1944-03	CHILLER-WATER	SAM	05/06/25 11:39		rubina	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB135681

Review By	rubina	Review On	5/6/2025 1:15:53 PM
Supervise By	Iwona	Supervise On	5/6/2025 2:33:31 PM
SubDirectory	LB135681	Test	Phenolics
STD. NAME	STD REF.#		
ICAL Standard	WP112960		
ICV Standard	WP112962		
CCV Standard	WP112961		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP112726		
Chk Standard	WP112609,WP112610,WP112963		

19	Q1944-03DUP	CHILLER-WATERDUP	DUP	05/06/25 11:39		rubina	OK
20	Q1944-03MS	CHILLER-WATERMS	MS	05/06/25 12:00		rubina	OK
21	Q1944-03MSD	CHILLER-WATERMS	MSD	05/06/25 12:00		rubina	OK
22	CCV2	CCV2	CCV	05/06/25 12:00		rubina	OK
23	CCB2	CCB2	CCB	05/06/25 12:00		rubina	OK

Prep Standard - Chemical Standard Summary

Order ID : Q1944

Test : Acidity,Alkalinity,Ammonia,Percent Solids,pH,Phenolics,TKN

Prepbatch ID : PB167844,PB167845,PB167846,PB167849,PB167856,

Sequence ID/Qc Batch ID: LB135647,LB135648,LB135663,LB135664,LB135665,LB135667,LB135671,LB135681,

Standard ID :

WP111317,WP111318,WP111319,WP111325,WP111385,WP111660,WP111745,WP111833,WP111834,WP112079,WP112609,WP112610,WP112611,WP112612,WP112613,WP112614,WP112725,WP112726,WP112828,WP112846,WP112847,WP112897,WP112903,WP112942,WP112943,WP112944,WP112945,WP112946,WP112947,WP112948,WP112953,WP112954,WP112960,WP112961,WP112962,WP112963,

Chemical ID :

AS PER

PB167849,M6041,M6125,W112726,W2211,W2663,W2666,W2697,W2700,W2858,W2983,W3058,W3071,W3072,W3093,W3112,W3113,W3132,W3133,W3140,W3141,W3148,W3150,W3155,W3161,W3168,W3174,W3176,W3178,W3191,W3195,W3196,W3206,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1796	NaOH, 0.1N	WP111317	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WC SC-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u>	4.00000gram of W3113 + 996.00000ml of W3112 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1471	NaOH Solution, 6N	WP111318	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_7 (WCS-6)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 240.00000gram of W3113 + 760.00000ml of W3112 = Final Quantity: 1000.000 ml								

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1494	BORATE BUFFER	WP111325	01/09/2025	07/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 01/09/2025
<u>FROM</u> 100.00000L of W3112 + 9.50000gram of W2700 + 88.00000ml of WP111317 = Final Quantity: 100.000 L								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
290	Phenol reagent for Ammonia	WP111385	01/13/2025	07/13/2025	Rubina Mughal	WETCHEM_SCALE_8 (WC SC-7)	None	Iwona Zarych 01/13/2025
<u>FROM</u> 3.20000gram of W3113 + 8.30000gram of W2858 + 88.80000ml of W3112 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
635	EDTA BUFFER FOR AMMONIA	WP111660	01/28/2025	07/28/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 01/28/2025
<u>FROM</u> 5.50000gram of W3113 + 50.00000gram of W3132 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
289	Sodium Hypochlorite for Ammonia	WP111745	02/03/2025	07/31/2025	Rubina Mughal	None	None	Iwona Zarych
								02/03/2025

FROM 50.00000ml of W3112 + 50.00000ml of W3174 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1903	Phenol stock std, 1000PPM	WP111833	02/07/2025	08/07/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych
								02/07/2025

FROM 1.00000gram of W2663 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1338	TKN DISTILLING BUFFER	WP112079	02/27/2025	08/27/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 02/27/2025
<u>FROM</u> 0.47500L of W3112 + 25.00000gram of W3148 + 500.00000gram of W3113 = Final Quantity: 1.000 L								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
672	ammonia buffer for phenol	WP112609	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 04/07/2025
<u>FROM</u> 143.00000ml of W3141 + 19.60000gram of W3195 + 90.10000ml of W3112 = Final Quantity: 250.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1935	Potassium ferricyanide solution-phenol	WP112610	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 04/07/2025
<u>FROM</u> 8.00000gram of W2211 + 92.00000ml of W3112 = Final Quantity: 100.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
153	Ammonia Stock Std. (1000 ppm)	WP112611	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<u>FROM</u> 3.81900gram of W3196 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1895	Ammonia Stock Std, 1000PPM-SS	WP112612	04/07/2025	10/07/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC SC-7)	None	Iwona Zarych 04/07/2025
<u>FROM</u>	3.81900gram of W3195 + 996.18100ml of W3112 = Final Quantity: 1000.000 ml							

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1322	Ammonia Intermediate Std, 50PPM	WP112613	04/07/2025	05/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/07/2025
FROM 95.00000ml of W3112 + 5.00000ml of WP112611 = Final Quantity: 100.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1639	Ammonia Intermediate Std-Second source, 50PPM	WP112614	04/07/2025	05/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/07/2025
FROM 95.00000ml of W3112 + 5.00000ml of WP112612 = Final Quantity: 100.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1478	Phenol Intermediate Std - 50PPM	WP112725	04/16/2025	05/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/18/2025
FROM 47.50000ml of W3112 + 2.50000ml of WP111833 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1635	Phenol Intermediate Std Second Source-50PPM	WP112726	04/16/2025	05/16/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 04/18/2025
FROM 47.50000ml of W3112 + 2.50000ml of WP111834 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1597	0.04 N H2SO4	WP112828	04/25/2025	10/25/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 1.00000ml of M6041 + 999.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3896	0.1N NaOH for Acidity	WP112846	04/25/2025	10/25/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC-5)	None	Jignesh Parikh
<u>FROM</u> 4.00000gram of W3113 + 997.00000ml of W3112 = Final Quantity: 1000.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1527	0.02N NaOH FOR ACIDITY	WP112847	04/25/2025	10/25/2025	Iwona Zarych	None	None	Jignesh Parikh
								04/28/2025

FROM 0.80000L of W3112 + 200.00000ml of WP112846 = Final Quantity: 1.000 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
740	sodium nitroferrocyanide for ammonia	WP112897	04/30/2025	05/30/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych
								05/01/2025

FROM 0.05000gram of W2666 + 99.95000ml of W3112 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
190	HEX CHROME PHOSPHATE BUFFER	WP112903	05/01/2025	11/01/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCS-7)	None	Iwona Zarych 05/01/2025
<u>FROM</u> 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = Final Quantity: 1.000 L								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
295	TKN Calibration Std (10 ppm)	WP112942	05/05/2025	05/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 49.50000ml of W3112 + 0.50000ml of WP112611 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
297	TKN CCV STD 5 ppm	WP112943	05/05/2025	10/07/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/05/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112611 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
296	TKN ICV STD 5 ppm	WP112944	05/05/2025	05/12/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	Iwona Zarych 05/05/2025
FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
298	TKN LCS STD 5 ppm	WP112945	05/05/2025	05/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 49.75000ml of W3112 + 0.25000ml of WP112612 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
275	Ammonia Calibration Std. (2 ppm)	WP112946	05/05/2025	05/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/05/2025
<u>FROM</u> 48.00000ml of W3112 + 2.00000ml of WP112613 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
285	Ammonia CCV Std. (1 ppm)	WP112947	05/05/2025	05/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/05/2025
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP112613 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
286	Ammonia ICV Std. (1 ppm)	WP112948	05/05/2025	05/06/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 05/05/2025
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP112614 = Final Quantity: 50.000 ml								

Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3407	Acidity-Alkalinity Stock Std(-+2500PPM)	WP112953	05/05/2025	05/12/2025	Iwona Zarych	WETCHEM_SCALE_5 (WC SC-5)	None	Jignesh Parikh 05/06/2025

FROM 0.62500gram of W3058 + 249.40000ml of W3112 = Final Quantity: 250.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3390	Acidity LCSW -50 ppm	WP112954	05/05/2025	05/12/2025	Iwona Zarych	None	Glass Pipette-A	Jignesh Parikh 05/06/2025

FROM 196.00000ml of W3112 + 4.00000ml of WP112953 = Final Quantity: 200.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1633	Phenol Calibration Std, 2PPM	WP112960	05/06/2025	05/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
(WC) FROM 48.00000ml of W3112 + 2.00000ml of WP112725 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1634	Phenol CCV Std, 1PPM	WP112961	05/06/2025	05/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<u>FROM</u> 49.00000ml of W3112 + 1.00000ml of WP112725 = Final Quantity: 50.000 ml								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1636	Phenol ICV Std, 1PPM	WP112962	05/06/2025	05/07/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
FROM 49.00000ml of W3112 + 1.00000ml of WP112726 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
506	4-AMINOANTIPYRINE	WP112963	05/06/2025	05/07/2025	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	Glass Pipette-A	Iwona Zarych 05/06/2025
<u>FROM</u> 0.40000gram of W3176 + 20.00000ml of W3112 = Final Quantity: 20.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1403 / Hydrogen Peroxide, 30% 1 gal	820803	05/25/2025	11/26/2024 / Eman	11/22/2024 / Eman	M6125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	97062-260 / POTASSIUM FERRICYANIDE ACS GRADE 500G	1136C335	03/01/2027	03/01/2017 / apatel	02/28/2017 / apatel	W2211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	2HD0179	01/27/2030	01/27/2020 / apatel	01/27/2020 / apatel	W2663

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	87683 / Sodium Nitroferricyanide 250g	W12F013	02/10/2030	02/10/2020 / apatel	02/10/2020 / apatel	W2666

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	0330-500G / Cupric Sulfate Pentahydrate	CPECG2635	04/23/2025	04/23/2020 / apatel	04/23/2020 / apatel	W2697

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3568-1 / Sodium Borate, 500 gms	2019111354	04/23/2025	04/23/2020 / apatel	03/11/2020 / apatel	W2700

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P1060-10 / PHENOL, ACS, 500G	M13H048	01/07/2026	07/07/2021 / apatel	07/07/2021 / apatel	W2858

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3278-5 / Potassium Sulfate, 2.5 Kgs	SLCM9788	11/21/2027	11/21/2022 / lwona	11/21/2022 / lwona	W2983

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	2023012653	10/19/2028	09/03/2024 / jignesh	10/19/2023 / lwona	W3058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	4308H30	07/31/2025	01/02/2024 / JIGNESH	12/06/2023 / lwona	W3071

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2310P21	04/30/2025	01/02/2024 / JIGNESH	12/07/2023 / lwona	W3072

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	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

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 / lwona	07/03/2024 / lwona	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 / lwona	07/08/2024 / lwona	W3113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC05050-1 / EDTA, disodium salt, dihydrate 1 lb	2ND0156	07/10/2026	07/26/2024 / lwona	07/26/2024 / lwona	W3132

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140476 / Test Paper,PH Short Range 9.0/10.0	L23	08/22/2029	08/22/2024 / lwona	08/22/2024 / lwona	W3133

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D0142	09/17/2029	09/17/2024 / lwona	09/17/2024 / lwona	W3140

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9721-3 / Ammonium Hydroxide, 2.5 L	431110	11/30/2025	09/18/2024 / lwona	09/18/2024 / lwona	W3141

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3946-1 / Sodium Thiosulfate Pentahydrate, 500 gms	MKCW3077	07/31/2029	10/07/2024 / lwona	10/07/2024 / lwona	W3148

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL74050-8 / SULFURIC ACID, 0.02N, 4L	235420	03/31/2029	11/04/2024 / lwona	11/04/2024 / lwona	W3150

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140730 / TEST PAPER,POT.IOD-STRCH,P K100,CS12	14-860	12/02/2029	12/02/2024 / lwona	12/02/2024 / lwona	W3155

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 / lwona	12/09/2024 / lwona	W3161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / lwona	01/03/2025 / lwona	W3168

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9416-1 / Sodium Hypochlorite 500 ml	2501J28	07/31/2025	01/24/2025 / lwona	01/24/2025 / lwona	W3174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JA630-5 / 4-aminoantipyrine, 100 gm	50107308	07/31/2028	01/24/2025 / lwona	01/24/2025 / lwona	W3176

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

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 #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	24L0356561	08/31/2027	03/19/2025 / lwona	03/19/2025 / lwona	W3195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	MKCV1009	09/30/2026	03/19/2025 / lwona	03/19/2025 / lwona	W3196

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / lwona	04/29/2025 / lwona	W3206



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AMRESCO LLC

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Email: info@amresco-inc.com

CERTIFICATE OF QUALITY / CERTIFICATE OF ANALYSIS

Potassium Ferricyanide

Code: 0713

Chemical Formula:	K ₃ Fe(CN) ₆	Manufacture Date:	(batch specific)
Molecular Weight:	329.25	Expiration/Reassay Date:	(batch specific)
CAS #:	13746-66-2		
Appearance:		Storage:	
Dark orange crystals		Grade:	ACS GRADE

Additional Information

TEST	SPECIFICATION	DISPOSITION
Chloride	<= 0.01 %	PASS
Ferro Compounds	<= 0.05 %	PASS
Insolubles	<= 0.005 %	PASS
Purity	>= 99.0 %	PASS
Sulfate	<= 0.01 %	PASS

Spec Set: 0713ACS

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

Product meets analytical specifications of the grades listed.

Internal ID #: 269

Signature: _____

Title:

Date Printed:

03/09/2016

Page 1 of 1



Certificate Of Analysis

Item Number	P1060	Lot Number	2HD0179
Item	Phenol, Loose Crystal, Reagent, ACS		
CAS Number	108-95-2		
Molecular Formula	C ₆ H ₆ O	Molecular Weight	94.11

Test	Specification		Result
	min	max	
ASSAY (C ₆ H ₅ OH)	99.0 %		100.02 %
FREEZING POINT (DRY)	40.5 C		40.5°C
CLARITY OF SOLUTION	TO PASS TEST		PASSES TEST
RESIDUE AFTER EVAPORATION		0.05 %	<0.05 %
WATER		0.5 %	0.0087 %
DATE OF MANUFACTURE			06-MAR-2018

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



Certificate Of Analysis Results Certified by

Ibad Tirmizi
Director of Quality
Spectrum Chemical Mfg. Corp.

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

W2858 Received by AP on 07/07/2021

Product No.: 33213
Product: Phenol, ACS, 99+%, stab.
Lot No.: M13H048

Test	Limits	Results
Assay	99.0 % min	99.8 %
Freezing point	40.5°C min	40.5 °C
Clarity of solution	To pass test	Passes
Residue after evaporation	0.05 % max	< 0.05 %
Water	0.5 % max	0.2 %

Retest date: January 7, 2026

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W2666 Recived on 02/10/2020 by AP

Product No.: 87683

Product: Sodium pentacyanonitrosylferrate(III) dihydrate, ACS,
99.0-102.0%

Lot No.: W12F013

Test	Limits	Results
Assay	99.0 - 102.0 %	99.67 %
Insoluble	0.01 % max	0.0079 %
Chloride	0.02 % max	Not detected
Sulfate	To pass test	Passes test
Aqueous solubility	To pass test	Passes test
Limit on Ferricyanide	To pass test	Passes test
Limit on Ferrocyanide	To pass test	Passes test

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W3071
Rec 12/6/23

Certificate of Analysis 12

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

Lot Number: 4308H30

Product Number: 1551

Manufacture Date: AUG 09, 2023

Expiration Date: JUL 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.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	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	Reagent

Test	Specification	Result
Appearance	Yellow liquid	Passed

*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.002	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.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
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)



Paul Brandon (08/09/2023)

Production Manager

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Contents of Certificates and Labels."

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~~112778~~ W2983
Rec. 11/21/22 12

Certificate of Analysis

Product Name:

Potassium sulfate - ReagentPlus®, ≥99.0%

Product Number:

P0772

Batch Number:

SLCM9788

Brand:

SIGALD

CAS Number:

7778-80-5

MDL Number:

MFCD00011388

Formula:

K₂O₄S

Formula Weight:

174.26 g/mol

Quality Release Date:

03 MAR 2022

K₂SO₄

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
10 g plus 150 mL, H ₂ O		
Titration with NaOH	≥ 99.0 %	99.2 %



Brian Dulle, Supervisor

Quality Assurance

St. Louis, Missouri 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.



Certificate Of Analysis



W 3058

Re. 10/19/23 12

Date of Release: 1/27/2023

Name: **Sodium Carbonate, Anhydrous**

Powder, ACS

Item No: **SX0395 All Sizes**

Lot / Batch No: **2023012653**

Country of Origin: **India**

Item	Specifications	Analysis
Assay (calculated on dried substance)	99.5% min.	100.2%
Calcium (Ca)	0.03% max.	0.004%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Powder	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.01% max.	0.003%
Iron (Fe)	5 ppm max.	<5 ppm
Loss on heating at 285C	1.0% max.	0.1%
Magnesium (Mg)	0.005% max.	0.0008%
Phosphate (PO ₄)	0.001% max.	<0.001%
Potassium (K)	0.005% max.	0.003%
Silica (SiO ₂)	0.005% max.	<0.005%
Sulfur compounds (as SO ₄)	0.003% max.	<0.003%

Joe Schoellkopf

Quality Control Manager

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EMD Millipore Corporation

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W 3072
REC. 12/01/23
12

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C**Lot Number: 2310P21****Product Number: 1615****Manufacture Date: OCT 24, 2023****Expiration Date: APR 2025**

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

Test	Specification	Result
Appearance	Colorless liquid	Passed

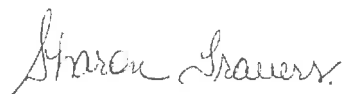
*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.005	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
1615-32	1 L natural poly	18 months
1615-5	20 L Cubitainer®	18 months

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



Sharon Travers (10/24/2023)

Operations Manager

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Certificate Of Analysis



Date of Release: 11/14/2019

W2700 Recived by AP on 3/11/2020

Name: **Sodium Borate, Decahydrate**

ACS

Item No: **SX0355 All Sizes**

Lot / Batch No: **2019111354**

Country of Origin: **India**

Item	Specifications	Analysis
Assay (Na ₂ B ₄ O ₇ • 10H ₂ O)	99.5 - 105.0%	101.7%
Calcium (Ca)	0.005% max.	0.003%
Chloride (Cl)	0.001% max.	<0.001%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy Metals (as Pb)	0.001% max.	<0.001%
Insoluble Matter	0.005% max.	0.002%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.01 M solution at 25C	9.15 - 9.20	9.17
Phosphate (PO ₄)	0.001% max.	<0.001%
Sulfate (SO ₄)	0.005% max.	<0.005%

Joe Schoellkopf

Quality Control Manager

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EMD Millipore Corporation

400 Summit Drive
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Allan Chemical Corporation

235 Margaret King Avenue
Ringwood NJ 07456

Telephone: 973-962-4014
Fax: 973-962-6820
E-Mail: allanchem@allanchem.com

ATTN: ALLAN CHEMICAL - QC DEPT.
DATE: September 20, 2021
P.O. #: 14410
PART #: N/A
LOT #: CPECG2635

W2697

CERTIFICATE OF ANALYSIS CUPRIC SULFATE CRYSTAL – ACS GRADE

<u>ASSAY:</u>	102.0 %
<u>LEAD:</u>	< 0.0001 %
<u>NITROGEN COMPOUNDS:</u>	< 0.001 %
<u>ZINC:</u>	< 0.0001 %
<u>INSOLUBLE MATTER:</u>	< 0.001 %
<u>CHLORIDE:</u>	< 0.001 %
<u>CHROMIUM:</u>	< 0.00002 %
<u>IRON:</u>	0.0003 %
<u>NICKEL:</u>	< 0.0001 %
<u>CADMIUM:</u>	< 0.0001 %
<u>MANGANESE:</u>	< 0.0001 %
<u>CALCIUM:</u>	< 0.005 %
<u>POTASSIUM:</u>	< 0.001 %
<u>SODIUM:</u>	< 0.001 %

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



M 6041-4b
MS

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium



Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

M612 S

Receive → 11/22/24

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

Office and Plant
299 Cedar Lane
Fairless Hills, PA 19030

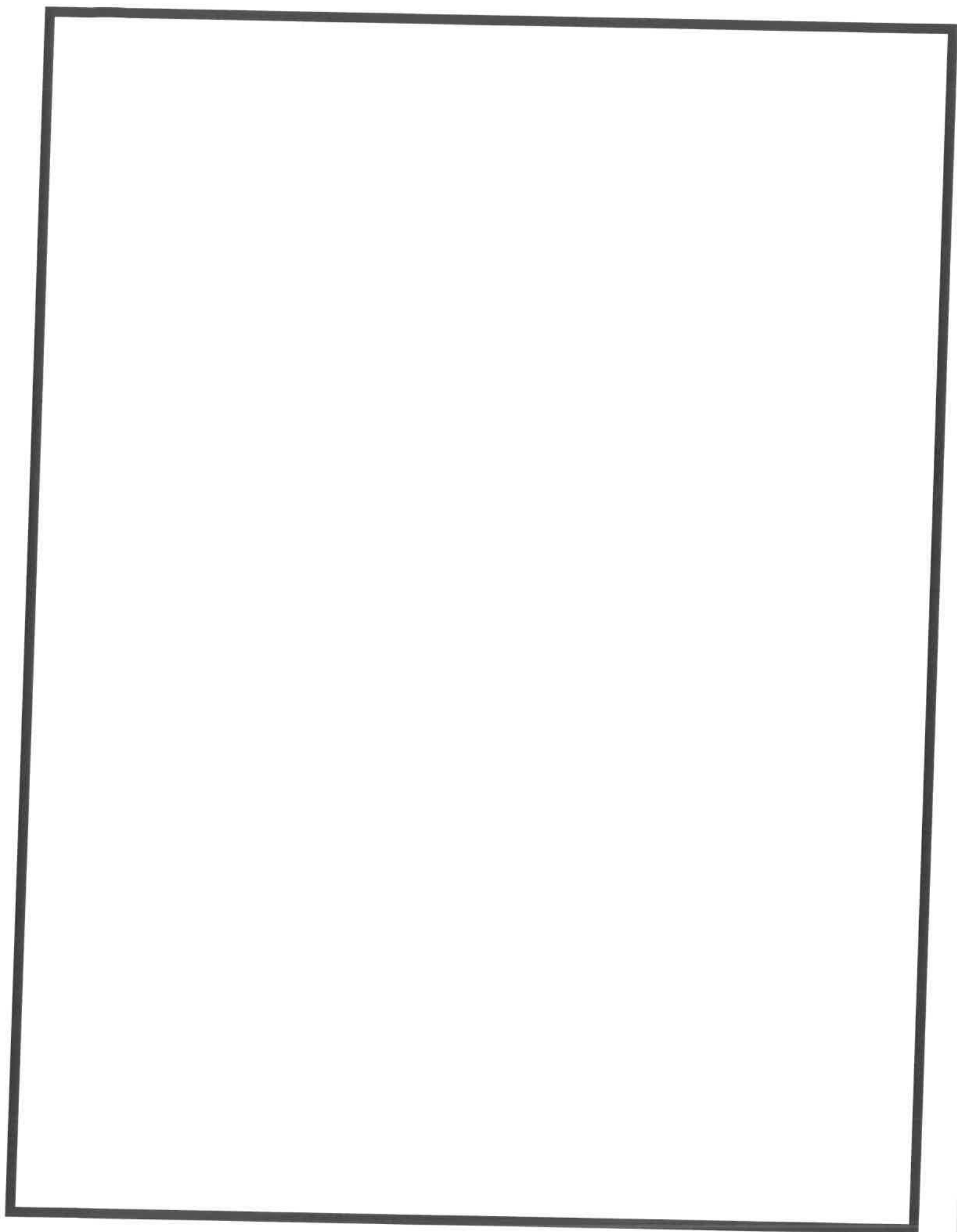
Phone: 215-295-5006
Fax: 215-295-0781

Hydrogen Peroxide 30%, ACS Reagent Grade

SPECIFICATION

MAXIMUM LIMITS

Appearance	Colorless and free from suspended matter or sediment
Assay	29-32%
Color (APHA)	10
Residue after Evaporation	0.002%
Titratable Acid	0.0006 meq/g
Chloride (Cl)	3 ppm
Nitrate (NO ₃)	2 ppm
Phosphate	2 ppm
Sulfate (SO ₄)	5 ppm
Ammonium (NH ₄)	5 ppm
Heavy Metals (as Pb)	1 ppm
Iron (Fe)	0.5 ppm



**RICCA CHEMICAL COMPANY®**

1490 Lammers Pike

Batesville, IN 47006

<http://www.riccachemical.com>

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customerservice@riccachemical.com

Certificate of Analysis

W3093
004121
04/03/2024
16

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.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	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.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	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)



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

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



Certificate of Analysis



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

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

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

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.



Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

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

Storage: Room Temperature

Pellets

Spec Set: 0583ACS

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.

Item Number	ED150	Lot Number	2ND0156
Item	Edetate Disodium, Dihydrate, USP	CAS Number	6381-92-6
Molecular Formula	$C_{10}H_{14}N_2Na_2O_8 \cdot 2H_2O$	Molecular Weight	372.24

TEST	SPECIFICATION		RESULT
	MIN	MAX	
ASSAY (DRIED BASIS)	99.0	101.0 %	99.5 %
pH OF A 5% SOLUTION @ 25°C	4.0	6.0	4.6
LOSS ON DRYING	8.7	11.4 %	8.90 %
CALCIUM (Ca)	NO PRECIPITATE IS FORMED		NO PRECIPITATE IS FORMED
ELEMENTAL IMPURITIES:			.
NICKEL (Ni)	AS REPORTED		<0.3 ppm
CHROMIUM (Cr)	AS REPORTED		<0.3 ppm
NITRILOTRIACETIC ACID[n[(HOCOCH ₂) ₃ N]		0.1 %	<0.10 %
IDENTIFICATION A	MATCHES REFERENCE		MATCHES REFERENCE
IDENTIFICATION B	RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION		RED COLOR IS DISCHARGED, LEAVING A YELLOWISH SOLUTION
IDENTIFICATION C	MEETS THE REQUIREMENTS FOR SODIUM		MEETS THE REQUIREMENTS FOR SODIUM
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			10-JUL-2026
DATE OF MANUFACTURE			11-JUL-2023
APPEARANCE			WHITE CRYSTALLINE POWDER
RESIDUAL SOLVENTS		AS REPORTED	NO RESIDUAL SOLVENTS PRESENT
MONOGRAPH EDITION			USP 2024

Certificate of Analysis Results Entered By:

CACEVEDO
Charmian Acevedo
22-MAY-24 08:12:30

Certificate of Analysis Results Approved By:

GHERRERA
Genaro Herrera
22-MAY-24 12:32:01

Spectrum Chemical Mfg Corp
755 Jersey Avenue
New Brunswick 08901 NJ



All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.

CORCO CHEMICAL CORPORATION

Manufacturers of ACS Reagents and Semiconductor Grade Chemicals

W3141 Rec on 9/18/24 by IZ

CERTIFICATE OF ANALYSIS

Date: 11/10/2023

Lot No. 431110

Ammonium Hydroxide, ACS

Reagent Grade

<u>TEST</u>	<u>MAXIMUM LIMITS</u>	<u>RESULT</u>
Appearance	Colorless and free from Suspended matter or sediment	Pass
Assay	28-30%	29.85%
Residue after ignition	0.002%	.0005%
Carbon Dioxide (CO ₂)	0.002%	.0001%
Chloride	0.5 ppm	<.2 ppm
Phosphate (PO ₄)	2 ppm	< 1 ppm
Total Sulfur (as SO ₄)	2 ppm	< 1 ppm
Heavy Metals (as Pb)	0.5 ppm	< .05 ppm
Iron (Fe)	0.2 ppm	< .02 ppm
Sub. Red. Permanganate	Passes Test	Pass
Nitrate (NO ₃)	2 ppm	< 1 ppm
Specific Gravity @ 60 Degrees	0.896- 0.902	Pass

Date of MFG: 11/2023

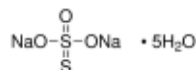
Retest Date: 11/2025

Certificate of Analysis

Product Name:

Sodium thiosulfate pentahydrate - ACS reagent, ≥99.5%

Product Number: 217247
Batch Number: MKCW3077
Brand: SIGALD
CAS Number: 10102-17-7
MDL Number: MFCD00149186
Formula: Na₂O₃S₂ · 5H₂O
Formula Weight: 248.18 g/mol
Quality Release Date: 12 JUL 2024
Recommended Retest Date: JUL 2029



Test	Specification	Result
Appearance (Color)	Colorless or White	White
Appearance (Form)	Powder or Crystals or Pellets	Crystals
ICP Major Analysis	Confirmed	Confirmed
Confirms Sodium and Sulfur Components		
Titration by Iodine	99.5 - 101.0 %	100.2 %
pH	6.0 - 8.4	6.1
c = 5%; Water; At 25 Deg C		
Insoluble Matter	≤ 0.005 %	< 0.001 %
c = 10%; Water		
Nitrogen Compounds	≤ 0.002 %	< 0.002 %
Sulfate & Sulfite (as SO ₄)	≤ 0.1 %	< 0.1 %
Sulfide	Pass	Pass
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
5 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.



Certificate of Analysis

ThermoFisher
SCIENTIFIC

Certificate of Analysis

1 Reagent Lane

Fair Lawn, NJ 07410

201.796.7100 tel

201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	SA226	Quality Test / Release Date	03/18/2024
Lot Number	235420		
Description	SULFURIC ACID, 0.02N, CERTIFIED		
Country of Origin	United States	Suggested Retest Date	Mar/2029

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
COLOR	APHA	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
NORMALITY		Inclusive Between 0.0198 - 0.0202	0.0200
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	SRM 84I



Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



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.

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

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	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)



Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.



Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K ₂ HPO ₄
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %
CUSTOMER PART # BDH9266-500G		

Internal ID #: 793

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

Certificate of Analysis

Sodium Hypochlorite Solution, 5% available Chlorine

Lot Number: 2501J28**Product Number:** 7495.5**Manufacture Date:** JAN 17, 2025**Expiration Date:** JUL 2025

This solution is subject to slow decomposition upon exposure to air. Keep container tightly capped. Refrigeration may improve stability.
When used in the Phenate method for Ammonia, APHA recommends replacing this solution about every 2 months.

Name	CAS#	Grade
Water	7732-18-5	Commercial
Sodium Hypochlorite	7681-52-9	Commercial

Test	Specification	Result	NIST SRM#
Appearance	Colorless to greenish-yellow liquid	Passed	
Assay (vs. Sodium Thiosulfate/Starch)	4.75-5.25 % (w/w) Cl ₂	5.17 % (w/w) Cl ₂	136

Specification	Reference
Sodium Hypochlorite, 5%	APHA (4500-NH3 F)
Sodium Hypochlorite	ASTM (D 4785)

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)
7495.5-1	4 L black poly	6 months
7495.5-16	500 mL amber poly	6 months
7495.5-32	1 L amber poly	6 months
7495.5-8	250 mL amber poly	6 months

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

Jose Pena (01/17/2025)
Operations Manager

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Certificate of Analysis

Catalog Number 212760
Product Description 4-Aminoantipyrine, 97%
CAS Number 83-07-8

Lot Number 50107308

Test Results

	<u>Specifications</u>	<u>Results</u>
Assay	≥97.0% min	99.61%
Appearance	Light yellow to tan fine crystals	Conforms
Identification	To pass test	Passes test
Melting Point	107-109°C	107.5-108.6°C
Sensitivity to phenol	To pass test	Passes test
Residue after Ignition	≤0.10%	0.09%
Loss on drying	≤0.5%	0.08%
Clarity of solution (1g/20ml water)	Clear solution	Clear solution
Clarity of solution (1g/20ml EtOH)	Clear solution	Clear solution
Suggested retest date	July 2028	

This certificate of analysis has been electronically generated and is valid without a signature.

BEANTOWN CHEMICAL CORPORATION, 9 SAGAMORE PARK ROAD, HUDSON NH 03051

WWW.BEANTOWNCHEM.COM TOLL FREE: 1-844-891-6306 EMAIL: TECHNICAL@BEANTOWNCHEM.COM

**RICCA CHEMICAL COMPANY®**

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Pocomoke City, MD 21851
<http://www.riccachemical.com>
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

031758 58

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.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	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	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	
Buffer B	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	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)
1501-16	500 mL natural poly	24 months
1501-2.5	10 L Cubitainer®	24 months
1501-5	20 L Cubitainer®	24 months

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



RICCA CHEMICAL COMPANY®

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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.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result
Appearance	Blue liquid	Passed

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.009	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	
Buffer C	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
	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)
1601-1	4 L natural poly	18 months
1601-16	500 mL natural poly	18 months
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-32	1 L natural poly	18 months
1601-5	20 L Cubitainer®	18 months

Version: 1.3

Lot Number: 2410F80

Product Number: 1601

Page 1 of 2

Certificate of Analysis



Material	BDH9208-500G
Material Description	BDH AMMONIUM CHLORIDE ACS 500G
Grade	U S P REAGENT (ACS GRADE)
Batch	24L0356561
Reassay Date	08/31/2027
CAS Number	12125-02-9
Molecular Formula	NH ₄ Cl
Molecular Mass	53.49
Date of Manufacture	08/01/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	White granular powder	White granular powder
Calcium	<= 0.001 %	0.001 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0002 %
Insolubles	<= 0.005 %	0.001 %
Iron	<= 0.0002 %	<0.0002 %
Magnesium	<= 0.0005 %	0.0001 %
pH (5%, Water) @25C	4.5 - 5.5	4.8
Phosphate	<= 0.0002 %	<0.0002 %
Purity	>= 99.5 %	99.8 %
Residue on Ignition	<= 0.01 %	0.003 %
Sulfate	<= 0.002 %	<0.002 %
Extra Description:	Meets Reagent Specifications for testing USP/NF monographs	

Internal ID #: 710

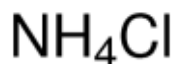
Signature	Additional Information
We certify that this batch conforms to the specifications listed above. This document has been electronically produced and is valid without a signature. Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

W3196 Received on 03/19/2025 by IZ

Certificate of Analysis

Product Name:

Ammonium chloride - ACS reagent, ≥99.5%



Product Number: 213330
Batch Number: MKCV1009
Brand: SIGALD
CAS Number: 12125-02-9
MDL Number: MFCD00011420
Formula: H4ClN
Formula Weight: 53.49 g/mol
Quality Release Date: 23 OCT 2023
Recommended Retest Date: SEP 2026

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Titration by AgNO ₃	≥ 99.5 %	100.2 %
pH	4.5 - 5.5	4.9
@ 25 Deg c (5% Solution)		
Insoluble Matter	≤ 0.005 %	0.001 %
10%, H ₂ O		
Residue on ignition (Ash)	≤ 0.01 %	< 0.01 %
Calcium (Ca)	≤ 0.001 %	< 0.001 %
Magnesium (Mg)	≤ 5 ppm	1 ppm
Heavy Metals	≤ 5 ppm	< 1 ppm
by ICP		
Iron (Fe)	≤ 2 ppm	< 1 ppm
Phosphate (PO ₄)	≤ 2 ppm	< 2 ppm
Sulfate (SO ₄)	≤ 0.002 %	< 0.002 %
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period	-----	-----
3 Years		



Larry Coers, Director

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.



Certificate of Analysis

Product Number: 213330
Batch Number: MKCV1009

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.

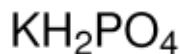


Certificate of Analysis

Product Name:

Potassium phosphate monobasic - ACS reagent, ≥99.0%

Product Number: P0662
Batch Number: MKCX1379
Brand: SIGALD
CAS Number: 7778-77-0
MDL Number: MFCD00011401
Formula: H₂KO₄P
Formula Weight: 136.09 g/mol
Quality Release Date: 27 JAN 2025
Recommended Retest Date: JAN 2029



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying	≤ 0.2 %	< 0.1 %
At 105°C		
pH	4.1 - 4.5	4.5
(c = 5%, 25 deg C)		
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO ₄)	≤ 0.003 %	< 0.003 %
Heavy Metals	≤ 0.001 %	< 0.001 %
by ICP		
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period	-----	-----
4 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.





PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 05/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135646

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
Q1913-01	WC-12-S-202504	1	1.18	10.32	11.5	9.49	80.5	
Q1913-03	WC-13-S-202504	2	1.19	10.37	11.56	9.83	83.3	
Q1936-01	SMALL-PILE-A	33	1.15	9.94	11.09	10.18	90.8	
Q1936-02	SMALL-PILE-A	34	1.17	9.94	11.11	10.22	91.0	
Q1936-03	SMALL-PILE-B	35	1.18	10.39	11.57	10.93	93.8	
Q1936-04	SMALL-PILE-B	36	1.18	9.88	11.06	10.44	93.7	
Q1936-05	SMALL-PILE-C	37	1.15	10.03	11.18	10.9	97.2	
Q1936-06	SMALL-PILE-C	38	1.15	10.25	11.4	11.01	96.2	
Q1936-07	SMALL-PILE-D	39	1.16	10.41	11.57	10.97	94.2	
Q1936-08	SMALL-PILE-D	40	1.18	9.96	11.14	10.55	94.1	
Q1937-01	LARGE-PILE-A	41	1.15	10.13	11.28	10.7	94.3	
Q1937-02	LARGE-PILE-A	42	1.18	9.58	10.76	10.2	94.2	
Q1937-03	LARGE-PILE-B	43	1.15	10.03	11.18	10.82	96.4	
Q1937-04	LARGE-PILE-B	44	1.17	10.04	11.21	10.72	95.1	
Q1937-05	LARGE-PILE-C	45	1.16	10.19	11.35	10.83	94.9	
Q1937-06	LARGE-PILE-C	46	1.19	10.06	11.25	10.63	93.8	
Q1937-07	LARGE-PILE-D	47	1.18	10.33	11.51	10.95	94.6	
Q1937-08	LARGE-PILE-D	48	1.17	9.75	10.92	10.33	93.9	
Q1937-09	LARGE-PILE-E	49	1.16	10.14	11.3	10.52	92.3	
Q1937-10	LARGE-PILE-E	50	1.18	10.30	11.48	10.76	93.0	
Q1937-11	LARGE-PILE-F	51	1.18	10.48	11.66	10.58	89.7	
Q1937-12	LARGE-PILE-F	52	1.18	10.25	11.43	10.44	90.3	
Q1938-01	LOWER-WALL-PILE-A	53	1.15	10.33	11.48	10.77	93.1	
Q1938-02	LOWER-WALL-PILE-A	54	1.17	10.50	11.67	10.71	90.9	
Q1938-03	LOWER-WALL-PILE-B	55	1.14	10.15	11.29	10.94	96.6	
Q1938-04	LOWER-WALL-PILE-B	56	1.18	9.90	11.08	10.68	96.0	
Q1938-05	LOWER-WALL-PILE-C	57	1.17	10.23	11.4	11.07	96.8	
Q1938-06	LOWER-WALL-PILE-C	58	1.12	9.82	10.94	10.7	97.6	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/02/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 05/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135646

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
Q1938-07	LOWER-WALL-PILE-D	59	1.19	10.01	11.2	10.7	95.0	
Q1938-08	LOWER-WALL-PILE-D	60	1.17	10.23	11.4	10.86	94.7	
Q1942-05	SVOC-GPC-BLANK	3	1.00	1.00	2.00	2.00	100.0	
Q1942-06	PEST-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1942-07	PEST-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1942-08	PCB-GPC-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1942-09	PCB-GPC-BLANK-SPIKE	7	1.00	1.00	2.00	2.00	100.0	
Q1942-10	SVOC-GPC2-BLANK	8	1.00	1.00	2.00	2.00	100.0	
Q1942-11	PEST-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1942-12	PEST-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1942-13	PCB-GPC2-BLANK	11	1.00	1.00	2.00	2.00	100.0	
Q1942-14	PCB-GCP2-BLANK-SPIKE	12	1.00	1.00	2.00	2.00	100.0	
Q1944-01	MELTED-RUBBER-SAMPLE	13	1.00	1.00	2.00	2.00	100.0	MELTED-RUBBER-SAMPLE
Q1946-01	BB-CONCRETE	14	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1946-02	BB-CONCRETE	15	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1947-01	MH-P	16	1.18	10.19	11.37	9.28	79.5	
Q1947-02	MH-P-EPH	17	1.15	10.84	11.99	10.64	87.5	
Q1947-03	MH-P-VOC	18	1.16	10.71	11.87	10.5	87.2	
Q1947-05	MH-O	19	1.14	10.59	11.73	10.52	88.6	
Q1947-06	MH-O-EPH	20	1.12	10.00	11.12	9.91	87.9	
Q1947-07	MH-O-VOC	21	1.17	10.00	11.17	9.95	87.8	
Q1951-01	MH-KK	22	1.18	10.40	11.58	10.01	84.9	
Q1951-02	MH-KK-EPH	23	1.16	10.29	11.45	9.91	85.0	
Q1951-03	MH-KK-VOC	24	1.17	10.25	11.42	9.86	84.8	
Q1952-01	CLEAN-FILL	25	1.18	10.49	11.67	8.98	74.4	
Q1952-02	CLEAN-FILL-E2	26	1.13	10.10	11.23	8.47	72.7	
Q1953-01	AUD-25-0075	27	1.00	1.00	2.00	2.00	100.0	pile
Q1953-02	AUD-25-0076	28	1.00	1.00	2.00	2.00	100.0	pile



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
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Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 05/03/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135646

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
Q1953-03	AUD-25-0077	29	1.00	1.00	2.00	2.00	100.0	oilc
Q1954-01	BC260874-1-1	30	1.00	1.00	2.00	2.00	100.0	oilc
Q1954-02	BC260874-1-2	31	1.00	1.00	2.00	2.00	100.0	oilc
Q1955-01	LAW-25-0066	32	1.00	1.00	2.00	2.00	100.0	stone sample, 100 % solids

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

173546

WorkList Name : %1-050225

WorkList ID : 189289

Department : Wet-Chemistry

Date : 05-02-2025 14:36:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1913-01	WC-12-S-202504	Solid	Percent Solids	Cool 4 deg C	AECO02	L21	04/29/2025	Chemtech -SO
Q1913-03	WC-13-S-202504	Solid	Percent Solids	Cool 4 deg C	AECO02	L21	04/29/2025	Chemtech -SO
Q1936-01	SMALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-02	SMALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-03	SMALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-04	SMALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-05	SMALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-06	SMALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-07	SMALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1936-08	SMALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L51	05/01/2025	Chemtech -SO
Q1937-01	LARGE-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-02	LARGE-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-03	LARGE-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-04	LARGE-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-05	LARGE-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-06	LARGE-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-07	LARGE-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-08	LARGE-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-09	LARGE-PILE-E	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-10	LARGE-PILE-E	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1937-11	LARGE-PILE-F	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO

Date/Time 05/02/25 15:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 05/02/25 17:10

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

1725546

WorkList Name : %1-050225

WorkList ID : 189289

Department : Wet-Chemistry

Date : 05-02-2025 14:36:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1937-12	LARGE-PILE-F	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-01	LOWER-WALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-02	LOWER-WALL-PILE-A	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-03	LOWER-WALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-04	LOWER-WALL-PILE-B	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-05	LOWER-WALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-06	LOWER-WALL-PILE-C	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-07	LOWER-WALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1938-08	LOWER-WALL-PILE-D	Solid	Percent Solids	Cool 4 deg C	SAXT01	L41	05/01/2025	Chemtech -SO
Q1942-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	05/01/2025	Chemtech -SO
Q1942-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1942-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	L41	04/25/2025	Chemtech -SO
Q1944-01	MELTED-RUBBER-SAMPLE	Solid	Percent Solids	Cool 4 deg C	METE01	L41	05/02/2025	Chemtech -SO
Q1946-01	BB-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO

Date/Time 05/02/25 15:10

Raw Sample Received by: *Se Lee*

Raw Sample Relinquished by: *Se Lee*

Date/Time 05/02/25

Raw Sample Received by: *Se Lee*

Raw Sample Relinquished by: *Se Lee*

WORKLIST(Hardcopy Internal Chain)

8/23/25

WorkList Name : %1-050225

WorkList ID : 189289

Department : Wet-Chemistry

Date : 05-02-2025 14:36:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1946-02	BB-CONCRETE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-01	MH-P	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-02	MH-P-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-03	MH-P-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-05	MH-O	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-06	MH-O-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1947-07	MH-O-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1951-01	MH-KK	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1951-02	MH-KK-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/02/2025	Chemtech -SO
Q1951-03	MH-KK-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/02/2025	Chemtech -SO
Q1952-01	CLEAN-FILL	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/02/2025	Chemtech -SO
Q1952-02	CLEAN-FILL-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/02/2025	Chemtech -SO
Q1953-01	AUD-25-0075	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/02/2025	Chemtech -SO
Q1953-02	AUD-25-0076	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1953-03	AUD-25-0077	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1954-01	BC260874-1-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1954-02	BC260874-1-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO
Q1955-01	LAW-25-0066	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/02/2025	Chemtech -SO

Date/Time 05/02/25 15:10

Raw Sample Received by: 88 WOC,

Raw Sample Relinquished by: 88 WOC,

Date/Time 05/02/25

Raw Sample Received by: 88 WOC,

Raw Sample Relinquished by: 88 WOC,



SHIPPING DOCUMENTS

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488