

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

8900, Fax: 908 789 8922

# **Prep Standard - Chemical Standard Summary**

Order ID :	Q1157
Test :	Residual Chlorine,Turbidity
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB134371,LB134384,
	3,WP111544,WP111558,WP111559,WP111560,WP111561,WP111562,WP111563,WP111564,WP1 P111567,WP111568,WP111569,WP111570,WP111571,WP111572,WP111573,WP111574,
<b>Chemical ID :</b> W3078,W3081,W311:	2,W3116,W3130,W3131,W3147,



# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1167	hydrazine sulfate solution 1	<u>WP111542</u>	01/22/2025	02/22/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC		01/28/2025
FROM 1.00000gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml								0.11-01-01-0

<u>ROM</u>	1.00000 gram of W3078 + 99.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
1843	HEXAMETHYLENETETRAMINE SOLUTION 1	<u>WP111543</u>	01/22/2025	02/22/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC		01/28/2025

10.00000gram of W3081 + 90.00000ml of W3112 = Final Quantity: 100.000 ml **FROM** 





# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1102	Formazin turbidity 400 NTU suspension	<u>WP111544</u>	01/22/2025	02/22/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC	None	01/28/2025
						SC-5)		

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3713	Turbidity Calibration std, 0NTU	WP111558	01/23/2025	01/24/2025	Niha Farheen	None	None	·
					Shaik			01/28/2025

**FROM** 100.00000ml of W3112 = Final Quantity: 100.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3718	Turbidity Calibration std, 40NTU	<u>WP111559</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	Glass Pipette-A	01/28/2025

<b>FROM</b>	90.00000ml of W3112 + 10.00000ml of WP111544	= Final Quantity: 100.000 ml
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Recipe	NAME	NO	D D	Expiration	<u>Prepared</u>	0 1 - 10	Discotte ID	Supervised By
<u>ID</u> 3720	NAME Turbidity Calibration std, 1NTU	NO. WP111560	<b>Prep Date</b> 01/23/2025		By Niha Farheen	<u>ScaleID</u> None	PipetteID Glass	Iwona Zarych
					Shaik		Pipette-A	01/28/2025

**FROM** 97.50000ml of W3112 + 2.50000ml of WP111559 = Final Quantity: 100.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3722	Turbidity Calibration std, 5NTU	<u>WP111561</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	Glass Pipette-A	01/28/2025

FROM	87.50000ml of W3112 + 12.50000ml of WP111559 = Final Quantity: 100.000 ml
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Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarvch
3807	Turbidity Calibration - CCV std, 10 NTU	<u>WP111562</u>	01/23/2025	02/22/2025	Niha Farheen Shaik	None	Glass Pipette-A	01/28/2025

**FROM** 97.50000ml of W3112 + 2.50000ml of WP111544 = Final Quantity: 100.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
3714	Turbidity Calibration std, 20NTU	<u>WP111563</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	Glass Pipette-A	01/28/2025

<b>FROM</b>	95.00000ml of W3112 + 5.00000ml of WP111544 = Final Quantity: 100.000 ml
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Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3443	Residual chlorine std, Intermediate 10PPM	<u>WP111564</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	Glass Pipette-A	01/28/2025

**FROM** 42.75000ml of W3112 + 7.25000ml of W3130 = Final Quantity: 50.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3444	Residual chlorine std, Intermediate-SS 10PPM	<u>WP111565</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	Glass Pipette-A	01/28/2025

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3710	Chlorine Calibration std, 0.0ppm	WP111566	01/23/2025	01/24/2025	Niha Farheen	None	None	
					Shaik			01/28/2025

**FROM** 50.00000ml of W3112 = Final Quantity: 50.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3707	Chlorine Calibration std, 0.1ppm	<u>WP111567</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	01/28/2025
	(WC)							

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3708	Chlorine Calibration std, 0.2ppm	WP111568	01/23/2025	01/24/2025	Niha Farheen	None	WETCHEM_F	
					Shaik		IPETTE_3	01/28/2025

**FROM** 49.00000ml of W3112 + 1.00000ml of WP111564 = Final Quantity: 50.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

3709 Chlorine Calibration std, 0.8ppm WP111569 01/23/2025 01/24/2025 Niha Farheen Shaik None None 01/28/2025	E	Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
		3709	Chlorine Calibration std, 0.8ppm	<u>WP111569</u>	01/23/2025	01/24/2025		None	None	01/28/2025

<b>FROM</b>	46.00000ml of W3112 + 4.00000ml of WP111564 = Final Quantity: 50.000 ml
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Recipe				<b>Expiration</b>	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3711	Chlorine Calibration std, 1.6ppm	WP111570	01/23/2025	01/24/2025	Niha Farheen	None	None	
					Shaik			01/28/2025

**FROM** 42.00000ml of W3112 + 8.00000ml of WP111564 = Final Quantity: 50.000 ml



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# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3799	Residual Chlorine Calibration and CCV std, 0.4PPM	<u>WP111571</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	None	01/28/2025

<b>FROM</b>	96.00000ml of W3112 + 4.00000ml of WP111564 = Final Quantity: 100.000 ml
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Recipe				<b>Expiration</b>	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3452		<u>WP111572</u>	01/23/2025	01/24/2025	Niha Farheen	None	None	
	0.4PPM				Shaik			01/28/2025

**FROM** 48.00000ml of W3112 + 2.00000ml of WP111565 = Final Quantity: 50.000 ml





# Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
1998	TURBIDITY LOD STD, 0.5NTU	<u>WP111573</u>	01/23/2025	01/24/2025	Niha Farheen Shaik	None	Glass Pipette-A	01/28/2025

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
3739	Turbidity LOQ std, 1.0NTU	WP111574	01/23/2025	01/24/2025	Niha Farheen	None	Glass	·
					Shaik		Pipette-A	01/28/2025

**FROM** 10.00000ml of W3116 + 90.00000ml of W3112 = Final Quantity: 100.000 ml



# **CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2177-1 / Hydrazine sulfate, 500 gms	BCCK9980	10/13/2028	01/26/2024 / Iwona	01/26/2024 / Iwona	W3078
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA36462-36 / hexamethylenetetramine	M02K021	01/02/2027	02/26/2024 / Iwona	02/26/2024 / Iwona	W3081
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 / Iwona	W3112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	2659949 / 10 NTU Standard 500 ml	A4151	05/30/2026	07/12/2024 / Iwona	07/12/2024 / Iwona	W3116
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4144	01/31/2026	07/25/2024 / lwona	07/25/2024 / Iwona	W3130
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
HACH	14268-10 / Chlorine Std, Pk of 16	A4166	02/28/2026	07/25/2024 / Iwona	07/25/2024 / Iwona	W3131



# **CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
HACH	14064-99 / Total Chlorine Powder Pillows	A4230	08/31/2029	10/01/2024 / Iwona	10/01/2024 / Iwona	W3147

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA:

techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Name:

Certificate of Analysis

NH2NH2 . H2SO4

Hydrazine sulfate salt - ACS reagent, ≥99.0%

**Product Number:** 

216046

BCCK9980

Batch Number: Brand:

SIAL

CAS Number:

Formula:

10034-93-2

Formula Weight:

H4N2 · H2SO4

Quality Release Date:

130,12 g/mol 13 OCT 2023

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals or Chunk(s)	Crystals
Redox Titration With Iodine	≥ 99.0 %	99.4 %
Residue on Ignition	< 0.05 %	0.01 %
Infrared Spectrum	Conforms to Structure	Conforms
Meets ACS Requirements	Corresponds to Requirements	Corresponds
ACS Specifications Heavy Metals <= 0.002 % (as Pb), Insoluble Matter <= 0.005 % (C= 6.67%,	Corresponds to Requirements	Corresponds
H2O)		
Iron (Fe)	10 mg/kg	< 10 mg/kg
Chloride (CI)	≤ 50 mg/kg	< 50 mg/kg

Dr. R. Serry

Dr.Reinhold Schwenninger Quality Assurance Buchs, Switzerland CH



# Certificate of Analysis

### W3081 Recieved on 02/26/2024 by IZ

Product No.: 036462

Product: Hexamethylenetetramine, ACS, 99+%

Appearance

Lot No.: M02K021

Limits	Results
99.0 % min	100.7 %
2.0 % max	0.2 %
	99.0 % min

White solid

Heavy metals (as Pb) 0.001 % max < 0.001 %

Residue after ignition 0.1 % max < 0.1 %

Retest Date: January 2, 2027

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# Certificate of Analysis List For request number 2018129

Catalog	Lot	Related	Relate	ed
Number	Number	Catalog	Lot	
Entered	Entered	Number	Code	Description
2659949	4151	N/A	N/A	StablCal sup TS sup Standard, 10 NTU

Total Enclosures: 1

#### **HACH COMPANY**

LOT NUMBER: A4151



P.O.Box 389 Loveland, CO 80539 (970) 669-3050

# Certificate of Analysis

Page 1

DATE OF ANALYSIS:

COMMODITY: StablCal|sup|TS|sup Standard, 10 NTU

COMMODITY NUMBER: 2659949 MANUFACTURE DATE:

6/7/2024

6/4/2024

**TEST SPECIFICATIONS RESULTS** 

9.5 to 10.5 NTU Turbidity 9.99 NTU

The expiration date is May 2026

Formazin and StablCal® solutions provided by Hach are not NIST traceable because the NIST does not carry turbidity standards. However, the use of Formazin and StablCal® as used in Hach method 8195 are accepted by the EPA as a primary standard to be used in the calibration of turbidity instruments.

Certified by

Scott Als Analytical Services Chemist



#### An ISO 9001 Certified Company

# Certificate of Analysis

**PRODUCT:** Chlorine Solution Ampule 50-75 mg/l

PRODUCT NUMBER: 1426810 LOT NUMBER: A4144

**MANUFACTURE DATE:** 05/28/2024 **DATE OF ANALYSIS:** 05/30/2024

TEST	SPECIFICATIONS	RESULTS
Standard Deviation for the ampules sampled	0 to 0.4 mg/L	0.10 mg/L
Mean Chlorine Concentration ampules sampled.	50 to 75 mg/L	60.9 mg/L

The expiration date is Jan 2026

Certified by: Scottals



## An ISO 9001 Certified Company

# Certificate of Analysis

**PRODUCT:** Chlorine Solution Ampule 50-75 mg/l

PRODUCT NUMBER: 1426810 LOT NUMBER: A4166

**MANUFACTURE DATE:** 06/24/2024 **DATE OF ANALYSIS:** 06/25/2024

TEST	SPECIFICATIONS	RESULTS
Standard Deviation for the ampules sampled	0 to 0.4 mg/L	0.10 mg/L
Mean Chlorine Concentration ampules sampled.	50 to 75 mg/L	61.9 mg/L

The expiration date is Feb 2026

Certified by: Scottals



#### An ISO 9001 Certified Company

# Certificate of Analysis

**PRODUCT:** DPD Total Chlorine Reagent

PRODUCT NUMBER: 1406499 LOT NUMBER: A4230

**MANUFACTURE DATE:** 08/27/2024 **DATE OF ANALYSIS:** 08/28/2024

TEST	SPECIFICATIONS	RESULTS
Percent Recovery for a 2.5 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	95.7 %
pH of reagent in 50 mL of DI water.	6.2 to 6.5	6.40
Percent Recovery for a 5.0 ppm Standard. Chlorine concentration determined using DPD compared to the actual concentration.	93 to 107 %	96.2 %
Hardness Blank: 1000 ppm as Calcium Carbonate Hardness standard vs DI water measured at 530 nm in 1 cm cells.	0 to 0.009 abs	0.0020 abs

The expiration date is Aug 2029

Certified by: Scottals