

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

8900, Fax: 908 789 8922

# **Prep Standard - Chemical Standard Summary**

Order ID :	Q3528
Test :	COD,TSS
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB137760,LB137774,
	3,WP114654,WP114655,WP114656,WP114657,WP114658,WP114659,WP114661,WP115434,WP /P115437,WP115438,WP115439,WP115440,
Chemical ID: W3112,W3169,W321	9,W3230,



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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  Jignesh Parikh
2456	COD Stock std, 1000ppm	WP114652	09/08/2025	09/15/2025	lwona Zarych	WETCHEM_S	None	Ü
						CALE_5 (WC		09/11/2025
EDOM	SC-3)							

	FROM	0.08500gram of W3219 +	100.00000ml of W3112	= Final Quantity: 100.000 mi
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Recipe				<b>Expiration</b>	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
2457	COD Stock std-SS, 1000ppm	WP114653	09/08/2025	09/15/2025	,	WETCHEM_S	None	
						CALE_5 (WC		09/11/2025

**FROM** 0.08500gram of W3169 + 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>PipetteID</u>	Supervised By  Jignesh Parikh
139	COD calibration std. 0 ppm	WP114654	09/08/2025	09/15/2025	Iwona Zarych	None	None	3
								09/11/2025

<b>FROM</b> 10.00000ml of W311	2 = Final Quantity: 10.000 ml
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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jignesh Parikh
138	COD calibration std. 10 ppm	<u>WP114655</u>	09/08/2025	09/15/2025	lwona Zarych	None	WETCHEM_P IPETTE_3	09/11/2025

**FROM** 9.90000ml of W3112 + 0.10000ml of WP114652 = Final Quantity: 10.000 ml



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## Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	By	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
137	COD calibration std. 50 ppm	WP114656	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F	
							IPETTE_3	09/11/2025
FROM 9.50000ml of W3112 + 0.50000ml of WP114652 = Final Quantity: 10.000 ml								

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>	Jignesh Parikh
4161	COD calibration std. 75 ppm	WP114657	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F	,
							IPETTE_3	09/11/2025

**FROM** 9.25000ml of W3112 + 0.75000ml of WP114652 = Final Quantity: 10.000 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>PipetteID</u>	Supervised By  Jignesh Parikh
136	COD calibration std. 100 ppm	WP114658	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE 3	
							I	09/11/2025

<b>FROM</b>	9.00000ml of W3112 + 1.00000ml of WP114652 = Final Quantity: 10.000 ml
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Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh
135	COD calibration std. 150 ppm	WP114659	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F	,
							IPETTE_3	09/11/2025

**FROM** 8.50000ml of W3112 + 1.50000ml of WP114652 = Final Quantity: 10.000 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  Jignesh Parikh
2459	COD ICV-LCS std, 50ppm	WP114661	09/08/2025	09/15/2025	Iwona Zarych	None	WETCHEM_F IPETTE 3	
FROM	0.50000ml of W2442 + 0.50000ml of	MD444052	- Final Over	tit 40 000			(WC)	09/11/2025

<u>FROM</u>	9.50000ml of W3112 + 0.50000ml of WP114653 = Final Quantity: 10.000 ml
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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
2456	COD Stock std, 1000ppm	WP115434	11/04/2025	11/11/2025	Eman Mughal	WETCHEM_S	None	-
						CALE_5 (WC		11/05/2025

**FROM** 0.08500gram of W3169 + 100.00000ml of W3112 = Final Quantity: 100.000 ml



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## Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipettelD	Supervised By	
2457	COD Stock std-SS, 1000ppm		11/04/2025			WETCHEM_S		Iwona Zarych	
						CALE_5 (WC		11/05/2025	
FDOM	SC-3)								

<u>FROM</u>	0.08500gram of W3219 + 10	00.00000ml of W3112	= Final Quantity: 100.000 ml

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
3580	COD LOD std, 5ppm	WP115436	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_F	•
							IPETTE_3	11/05/2025

**FROM** 49.75000ml of W3112 + 0.25000ml of WP115434 = Final Quantity: 50.000 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>PipetteID</u>	Supervised By Iwona Zarych	
2069	COD LOQ std, 10.0PPM	WP115437	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_F IPETTE_3	,	
EDOM	(WC)								

FROM	49.500001111 01 775 112 +	0.500001111 01 WP 115435	

Recipe				<b>Expiration</b>	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
2458	COD CCV std, 50ppm	WP115438	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_F	
							IPETTE_3	11/05/2025

**FROM** 9.50000ml of W3112 + 0.50000ml of WP115434 = Final Quantity: 10.000 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>PipetteID</u>	Supervised By Iwona Zarych	
2459	COD ICV-LCS std, 50ppm	WP115439	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_F IPETTE_3	,	
FROM	(WC)								

<u>FROM</u>	9.50000mi of $W3112 + 0.50000mi$ of $WP115435 = Final Quantity: 10.000 mi$	

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>	lwona Zarych
4162	RL CHECK	WP115440	11/04/2025	11/11/2025	Eman Mughal	None	WETCHEM_F	
							IPETTE_3	11/05/2025

**FROM** 9.90000ml of W3112 + 0.10000ml of WP115434 = Final Quantity: 10.000 ml



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## **CHEMICAL RECEIPT LOG BOOK**

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 #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500	24H0956262	04/28/2026	01/03/2025 / Iwona	01/03/2025 / lwona	W3169
	gms					

ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
43-500 / Potassium drogen Phthalate, 500 s	2025040493	06/30/2030	06/26/2025 / Iwona	06/26/2025 / Iwona	W3219
t	3-500 / Potassium rogen Phthalate, 500	3-500 / Potassium 2025040493 rogen Phthalate, 500	Lot #   Date	Lot #   Date   Opened By	Lot #   Date   Opened By   Received By

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Environmental Express LTD	B1010 / COD Digestion Vials Low Level 0-150Mg/L	5GE0517	05/31/2030	10/03/2025 / Iwona	07/11/2025 / Iwona	W3230



# Certificate of Analysis

BDH9260-500G

BDH POTASS HYDRGN PHTHLTE 500G

ACS GRADE

 Batch
 24H0956262

 Reassay Date
 04/28/2026

 CAS Number
 877-24-7

Molecular Formula HOOCC6H4COOK

Molecular Mass 204.22

Date of Manufacture 04/29/2023

Storage Room Temperature

Characteristics	Specifications	Measured Values	
Appearance	White crystals.	White crystals.	
Assay (dried basis)	99.95 - 100.05 %	99.98 %	
Chlorine Compounds	<= 0.003 %	<0.003 %	
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm	
Insoluble Matter	<= 0.005 %	0.003 %	
Iron	<= 5 ppm	<5 ppm	
pH (0.05M, Water) @25C	4.00 - 4.02	4.00	
Sodium	<= 0.005 %	<0.005 %	
Sulfur Compounds	<= 0.002 %	<0.002 %	

Internal ID #: 322

Material

Grade

**Material Description** 

#### 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.

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

Date Printed: 08/09/2024

# Certificate Of Analysis



Date of Release: 4/8/2025

Name: Potassium Hydrogen Phthalate

ACS

Item No: **PX1476 All Sizes**Lot / Batch No: **2025040493**Country of Origin: **USA** 

Item	Specifications	Analysis
Assay (Dried Basis)	99.95-100.05%	99.98%
Chlorine compounds (as Cl)	0.003% max.	<0.003%
Color	White	Passes Test
Form	Crystals	Passes Test
Heavy metals (by ICP-OES)	5 ppm max.	<5 ppm
Insoluble Matter	0.005% max.	<0.005%
Iron (Fe)	5 ppm max.	<5 ppm
pH of a 0.05m solution @ 25.0C	4.00-4.02	4.00
Sodium (Na)	0.005% max.	<0.005%
Sulfur compounds (as S)	0.002% max.	<0.002%

Joe Schoellkopff

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Quality Control Manager

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

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

**EMD Millipore Corporation** 

400 Summit Drive Burlington, MA 01803 U.S.A.

Form number: 00005624CA, Rev. 2.0

W 3228 W 3229 W 3230 Rec. on 7/11/25 by 12



2345A Charleston Regional Charleston, South Carolina 29492 environmentalexpress.com +1 843.881.6560

May 12, 2025

#### **CERTIFICATE OF ANALYSIS**

Environmental Express certifies that the following COD Reagent Vials have been rigorously checked against NIST Traceable standards and also compared for conformance to another major brand name product. Environmental Express COD Vial performance is evaluated using bench top spectrophotometers. Acceptance guidelines are strict and ensure dependable, quality results.

Environmental Express further certifies that the COD products listed below are recognized by the United States Environmental Protection Agency (USEPA) as equivalent to an approved Water Pollutant Testing Procedure for COD (Federal Register, Vol. 45, No. 78, Monday, April 20<sup>th</sup>, 1980, page 26811) and as such can be used for National Pollution Discharge Elimination System (NPDES) reporting.

Cat. No.Lot No.Product DescriptionExpiration DateB10105GE0517COD Reagent Vials,<br/>0 - 150 ppmMay-30