

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

8900, Fax: 908 789 8922

### **Prep Standard - Chemical Standard Summary**

Order ID :	P5290
Test :	Percent Solids,TOC
Prepbatch ID :	
Sequence ID/Qc Bat	ch ID: LB134031,
Standard ID : WP109217,WP1092 <sup>-</sup> 111112,	8,WP109225,WP110662,WP110663,WP110664,WP110665,WP110666,WP110667,WP111111,WP
Chemical ID : W2784,W2860,W311	1,W3112,



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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  Mohan Bera	
2050	CALE_5 (WC   IPETTE_3   08/16/2024								
FROM 5.00000ml of W2860 + 8.51200gram of W3111 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml									

Recipe				<b>Expiration</b>	<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>	Mohan Bera
2051	TOC STOCK STD-SS, 4000PPM	WP109218	08/07/2024	02/07/2025	Iwona Zarych	WETCHEM_S	WETCHEM_F	
						CALE_5 (WC	IPETTE_3	08/16/2024

FROM 5.00000ml of W2860 + 8.51200gram of W2784 + 990.00000ml of W3112 = Final Quantity: 1000.000 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  Mohan Bera
2435	1:1 PHOSPHORIC ACID FOR TOC SOILS	WP109225	08/07/2024	02/07/2025	lwona Zarych	None	WETCHEM_F IPETTE_3	08/16/2024
	50 00000 L (MO000 - 50 00000 L	5340440	E: 10 ::				(WC)	

**FROM** 50.00000ml of W2860 + 50.00000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
712	TOC SOIL cal 250ppm	<u>WP110662</u>	11/12/2024	11/19/2024	Niha Farheen Shaik	None	None	11/14/2024

**FROM** 15.00000ml of W3112 + 1.00000ml of WP109217 = Final Quantity: 16.000 ml





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#### Wet Chemistry STANDARD PREPARATION LOG

710 TOC SOIL cal 500ppm WP110663 11/12/2024 11/19/2024 Niha Farheen Shaik None None 11/14/2024	Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
	710	TOC SOIL cal 500ppm	<u>WP110663</u>	11/12/2024	11/19/2024		None	None	,

FROM	14.00000ml of W3112 + 2.00000ml of WP109217 = Final Quantity: 16.000 ml
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Recipe				Expiration	Prepared			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
3544	TOC SOIL Cal- CCV 1000PPM	WP110664	11/12/2024	11/19/2024	Niha Farheen	None	None	
					Shaik			11/14/2024

**FROM** 15.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 20.000 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
713	TOC SOIL cal 2000ppm	<u>WP110665</u>	11/12/2024	11/19/2024	Niha Farheen Shaik	None	None	11/14/2024

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
2819	TOC ICV-LCSS, 1000PPM	WP110666	11/12/2024	11/19/2024	Niha Farheen	None	None	
					Shaik			11/14/2024

**FROM** 15.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 20.000 ml



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#### Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
304	TOC CAL 0.00ppm	<u>WP110667</u>	11/12/2024	11/19/2024	Niha Farheen Shaik	None	None	11/14/2024

<b>FROM</b> 100.00000ml of W311:	! = Final Quantity: 100.000 m	٦l
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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
3544	TOC SOIL Cal- CCV 1000PPM	WP111111	12/17/2024	12/24/2024	Niha Farheen	None	None	
					Shaik			12/18/2024

**FROM** 15.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 20.000 ml





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#### Wet Chemistry STANDARD PREPARATION LOG

Recipe <u>ID</u> 2819	NAME TOC ICV-LCSS, 1000PPM	NO. WP111112	Prep Date 12/17/2024	Expiration Date 12/24/2024	Prepared By  Niha Farheen Shaik	ScaleID None	PipetteID None	Supervised By Iwona Zarych 12/18/2024
FROM	15.00000ml of W3112 + 5.00000ml o	f WP109218	3 = Final Qua	ntity: 20.000 r	nl			



#### **CHEMICAL RECEIPT LOG BOOK**

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 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
243-500 / Potassium ydrogen Phthalate, 500 ns	24A1956910	01/18/2025	06/26/2024 / Iwona	06/26/2024 / Iwona	W3111
y	43-500 / Potassium drogen Phthalate, 500	43-500 / Potassium 24A1956910 drogen Phthalate, 500	ItemCode / ItemName         Lot #         Date           43-500 / Potassium         24A1956910         01/18/2025           drogen Phthalate, 500         01/18/2025	Lot #   Date   Opened By	ItemCode / ItemName         Lot #         Date         Opened By         Received By           43-500 / Potassium drogen Phthalate, 500         24A1956910         01/18/2025         06/26/2024 / Iwona         06/26/2024 / Iwona

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Phosphoric Acid BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)



Material No.: 0260-03 Batch No.: 0000278313 Manufactured Date: 2021/02/01

Retest Date: 2026/01/31

Revision No: 2

## Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H3PO4) (by acidimetry)	85.0 - 87.0 %	85.8
Calcium (Ca)	<= 0.002 <b>%</b>	< 0.001
Color (APHA)	<= 10	5
Insoluble Matter	<= 0.001 %	< 0.001
ACS – Magnesium (Mg)	<= 0.002 %	< 0.002
Sulfate (SO4)	<= 12 ppm	< 4
Volatile Acids (as CH₃COOH)	<= 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	<= 3 ppm	< 1
Nitrate (NO3)	<= 5 ppm	< 2
Trace Impurities - Antimony (Sb)	<= 20.000 ppm	0.007
Trace Impurities – Arsenic (As)	<= 0.500 ppm	< 0.001
Trace Impurities – Iron (Fe)	<= 10.000 ppm	< 1.000
Heavy Metals (as Pb)	<= 8 ppm	< 3
Frace Impurities – Manganese (Mn)	<= 0.500 ppm	0.005
Trace Impurities – Potassium (K)	<= 40.000 ppm	< 0.001
Trace Impurities – Sodium (Na)	<= 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use

Exceeds A.C.S. Specifications

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC





## 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 – 0120632

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	P243	Quality Test / Release Date	06/19/2020				
Lot Number	201089	•					
Description	POTASSIUM HYDROGEN PHTHALATE,ACIDIMETRIC STANDARD, A.C.S.						
Country of Origin	Spain	Suggested Retest Date	Jun/2025				
Chemical Origin	Organic - non animal						
BSE/TSE Comment		No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.					

N/A	N/A					
Result Name	Units	Specifications	Test Value			
APPEARANCE		REPORT	WHITE CRYSTALS			
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03			
CHLORINE COMPOUNDS	%	<= 0.003	<0.003			
HEAVY METALS (as Pb)	ppm	<= 5	<5			
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST			
INSOLUBLE MATTER	%	<= 0.005	<0.005			
IRON (Fe)	ppm	<= 5	<5			
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00			
SODIUM (Na)	%	<= 0.005	<0.005			
SULFUR COMPOUNDS	%	<= 0.002	<0.002%			
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a			
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L			

Julian Burton

Julian Burton - Quality Control Manager - Fair Lawn

<sup>\*</sup>Based on suggested storage condition.



# **Certificate of Analysis**

01/19/2022

01/18/2025

## POTASSIUM HYDROGEN PHTHALATE

Material: N983

Grade: ACS GRADE Batch Number: 24A1956910

Chemical Formula: HOOCC6H4COOK

Molecular Weight: 204.22

CAS #: 877-24-7

Appearance: Storage: Room Temperature

White crystals.

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Assay (dried basis)	99.95 - 100.05 %	99.97 %	PASS
Chlorine Compounds	<= 0.003 %	<0.003 %	PASS
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm	PASS
Insoluble Matter	<= 0.005 %	0.003 %	PASS
Iron	<= 5 ppm	<5 ppm	PASS
pH (0.05M, Water) @25C	4.00 - 4.02	4.00	PASS
Sodium	<= 0.005 %	<0.005 %	PASS
Sulfur Compounds	<= 0.002 %	<0.002 %	PASS

Manufacture Date:

Reassay Date:

Spec Set: N983ACS

Internal ID #: 710

Signature Additional Information

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid

without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon

VWR Chemicals, LLC.

28600 Fountain Parkway, Solon OH 44139 USA

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

Product meets analytical specifications of the grades listed.