

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID :	Q1777
Test :	Percent Solids,TOC
Prepbatch ID :	
Sequence ID/Qc Bat	cch ID: LB135427,
Standard ID : WP111436,WP11143112698,	7,WP112403,WP112404,WP112405,WP112406,WP112407,WP112408,WP112446,WP112697,WP
Chemical ID : W2784,W2860,W311	12 W3160
VV2704,VV2000,VV311	12,000109,



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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		
2050	TOC STOCK STD, 4000PPM	<u>WP111436</u>	01/15/2025	07/15/2025	Niha Farheen Shaik	CALE_5 (WC	IPETTE_3	01/16/2025		
FROM	SC-5) (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
2051	TOC STOCK STD-SS, 4000PPM	WP111437	01/15/2025	06/30/2025	Niha Farheen	WETCHEM_S	WETCHEM_F	
					Shaik	CALE_5 (WC	IPETTE_3	01/16/2025

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	NAME	<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>WP112403</u>	03/14/2025	03/21/2025	Niha Farheen Shaik	None	None	03/20/2025

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>	lwona Zarych
712	TOC SOIL cal 250ppm	WP112404	03/14/2025	03/21/2025	Niha Farheen	None	WETCHEM_F	1
					Shaik		IPETTE_3	03/20/2025

FROM 15.00000ml of W3112 + 1.00000ml of WP111436 = Final Quantity: 16.000 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	
710	TOC SOIL cal 500ppm	<u>WP112405</u>	03/14/2025	03/21/2025	Niha Farheen Shaik	None	WETCHEM_F IPETTE_3	03/20/2025	
	(WC)								

<u>FROM</u>	14.00000ml of W3112 + 2.00000ml of WP111436 = Final Quantity: 16.000 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>	Iwona Zarych
3544	TOC SOIL Cal- CCV 1000PPM	WP112406	03/14/2025	03/21/2025	Niha Farheen	None	Glass	·
					Shaik		Pipette-A	03/20/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 20.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

Recipe			<u>Expiration</u>	<u>Prepared</u>	0 1 10	D: ((ID	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
713 TOC SOIL cal 2	000ppm <u>WP112407</u>	03/14/2025	03/21/2025	Niha Farheen	None	Glass	
				Shaik		Pipette-A	03/20/2025

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2819			03/14/2025		Niha Farheen Shaik	None	Glass Pipette-A	lwona Zarych 03/20/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111437 = Final Quantity: 20.000 ml



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Wet Chemistry STANDARD PREPARATION LOG

613 Phosphoric acid reagent WP112446 03/25/2025 09/25/2025 Niha Farheen Shaik None None 03/26/2025	Reci ID	e NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
	613	Phosphoric acid reagent	<u>WP112446</u>	03/25/2025	09/25/2025		None	None	,

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>	Jignesh Parikh
3544	TOC SOIL Cal- CCV 1000PPM	WP112697	04/14/2025	04/21/2025	Iwona Zarych	None	Glass	-
							Pipette-A	04/16/2025

FROM 15.00000ml of W3112 + 5.00000ml of WP111436 = Final Quantity: 20.000 ml





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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 2819	NAME TOC ICV-LCSS, 1000PPM	NO. WP112698	Prep Date 04/14/2025	Expiration Date 04/21/2025	Prepared By Iwona Zarych	<u>ScaleID</u> None	PipetteID Glass Pipette-A	Supervised By Jignesh Parikh 04/16/2025
FROM	15.00000ml of W3112 + 5.00000ml o	f WP111437	' = Final Qua	ntity: 20.000 m	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

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24H0956262	04/28/2026	01/03/2025 / Iwona	01/03/2025 / Iwona	W3169

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 %	< 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
Trace 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	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			
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

^{*}Based on suggested storage condition.



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