

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order	ID :	Q3015

Test: VOCGC Group 1

Prepbatch ID: PB170012,

Sequence ID/Qc Batch ID: PQ100725,

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PP24775, PP24777, PP24778, PP24779, PP24970, PP24971, PP24972, PP24973, PP24974, PP24975, PP24976, PP24977, PP24983, PP24984, P

Chemical ID:

E3974,M4459,P12214,P13235,P13891,V14625,W3112,





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2263	EDB-DBCP 2 PPM Stock Solution	PP24775	08/05/2025	01/29/2026	Yogesh Patel	None	None	08/19/2025
								00/10/2020

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2517	EDB-DBCP 100 PPB Working Solution	<u>PP24777</u>	08/05/2025	01/29/2026	Yogesh Patel	None	None	08/19/2025

FROM 9.50000ml of V14625 + 0.50000ml of PP24775 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2264	EDB-DBCP 2 PPM Stock Solution 2nd Source	<u>PP24778</u>	08/05/2025	01/29/2026	Yogesh Patel	None	None	08/19/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2518	EDB-DBCP 100 PPB Working Sol. 2nd Source	<u>PP24779</u>	08/05/2025	01/29/2026	Yogesh Patel	None	None	08/19/2025

FROM 9.50000ml of V14625 + 0.50000ml of PP24778 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2269	M8011-504.1 0.5 PPB STD	PP24970	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM	35.00000ml of W3112 + 0.17500ml of PP24777	= Final Quantity: 35.000 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>	Abdul Mirza
2270	M8011-504.1 0.25 PPB STD	PP24971	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM 35.00000ml of W3112 + 0.08750ml of PP24777 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2271	M8011-504.1 0.1 PPB STD	PP24972	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM	35.00000ml of W3112 + 0.03500ml of PP24777	= Final Quantity: 35.000 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>	Abdul Mirza
2272	M8011-504.1 0.05 PPB STD	PP24973	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM 35.00000ml of W3112 + 0.01750ml of PP24777 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2273	M8011-504.1 0.025 PPB STD	PP24974	10/07/2025	01/29/2026	Yogesh Patel	None	None	40/40/0005
								10/10/2025

FROM	35.00000ml of W3112 + 0.00880ml of PP24777	= Final Quantity: 35.000 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>	Abdul Mirza
2274	M8011-504.1 0.1 PPB ICV STD	PP24975	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM 35.00000ml of W3112 + 0.03500ml of PP24779 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
2519	M8011-504.1 0.1 PPB CCC	PP24976	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM	35.00000ml of W3112 + 0.03500ml of PP24777 = Final Quantity: 35.000 ml	ĺ
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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>	Abdul Mirza
2519	M8011-504.1 0.1 PPB CCC	PP24977	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM 35.00000ml of W3112 + 0.03500ml of PP24777 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

3653 M8011-504.1 LOD 0.025 PPB P24983 10/07/2025 01/29/2026 Yogesh Patel None None	<u>F</u>	Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Abdul Mirza
		3653	M8011-504.1 LOD 0.025 PPB	PP24983	10/07/2025	01/29/2026	Yogesh Patel	None	None	10/10/2025

FROM 35.00000ml of W3112 + 0.00880ml of PP24777 = Final Quantity: 35.000 ml

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>	Abdul Mirza
3759	M8011-504.1 LOQ 0.025 PPB	PP24984	10/07/2025	01/29/2026	Yogesh Patel	None	None	
								10/10/2025

FROM 35.00000ml of W3112 + 0.00880ml of PP24777 = Final Quantity: 35.000 ml



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362006	04/10/2027	09/26/2025 / Riteshkumar	09/26/2025 / Riteshkumar	E3974
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000237721	04/13/2026	10/03/2022 / Ankita	10/30/2019 / AMANDEEP	M4459
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30239 / 504.1 Calibration Mix (3 components)	A0170154	01/29/2026	07/30/2024 / Ankita	11/28/2022 / Ankita	P12214
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30272 / 1,2-Dibromoethane	A0183330	03/31/2027	08/05/2025 / yogesh	02/02/2024 / Ankita	P13235
	Standard, 2000 ug/ml					
Supplier	·	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier Restek	Standard, 2000 ug/ml	Lot # A0217030				
	ItemCode / ItemName 30270 / 1,2-Dibromo-3-Chloropropa		Date	Opened By 08/05/2025 /	Received By 02/03/2025 /	Lot #



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 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis





Material No.: 9077-02

Batch No.: 2310762004

Manufactured Date: 2023-08-11 Expiration Date: 2026-08-10

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrablė Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use Performance Tested for Use in EPA Methods 500 Series for Drinking Water 600 Series for Wastewater 846 for Solid Waste

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein

Sodium Chloride, Crystal BAKER ANALYZED® A.C.S. Reagent





From M4452 to M4459

Received on - 10/30/2019 Received by -: AK

Material No.: 3624-05

Batch No.: 0000237721

Manufactured Date: 2019/04/15

Retest Date: 2026/04/13

Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	>= 99.0 %	100.3
pH of 5% Solution at 25℃	5.0 - 9.0	6.0
ACS – Insoluble Matter	<= 0.005 %	< 0.001
lodide (I)	<= 0.002 %	< 0.002
Bromide (Br)	<= 0.01 %	< 0.01
Chlorate and Nitrate (as NO3)	<= 0.003 %	< 0.001
ACS – Phosphate (PO ₄)	<= 5 ppm	< 5
Sulfate (SO ₄)	<= 0.004 %	< 0.004
Barium (Ba)	Passes Test	PT
ACS – Heavy Metals (as Pb)	<= 5 ppm	< 5
Iron (Fe)	<= 2 ppm	< 2
Calcium (Ca)	<= 0.002 %	< 0.001
Magnesium (Mg)	<= 0.001 %	< 0.001
Potassium (K)	<= 0.005 %	0.002

For Laboratory, Research or Manufacturing Use

Meets Reagent Specifications for testing USP/NF monographs

Country of Origin:

US

Packaging Site:

Paris Mfg Ctr & DC



n-Hexane 95% ULTRA RESI-ANALYZED For Organic Residue Analysis



Material No.: 9262-03

Batch No.: 25C0362006

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	<= 5	4
Assay (Total Saturated Collsomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Water (by KF, coulometric)	<= 0.05 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3974





Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL











Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Lot No.: A0183330

30272 Catalog No.:

1,2-Dibromoethane Standard Description:

1,2-Dibromoethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size:

0°C or colder ×1mL Pkg Amt: Storage: March 31, 2027

Expiration Date:

Ship: Ambient

Ø VALUE TIFIED œ ш ပ

Elution Order	Compound	puno	Grav. Conc. (weight/volume)	Expanded Unce (95% C.L.; K=2)	Expanded Uncertainty (95% C.L.; K=2)	A. V.	
1	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCBZ7221)	2,016.0 μg/mL	+/- 18.7477 +/- 113.9782 +/- 116.6017	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed	

P&T Methanol CAS# Solvent:

67-56-1 99% Purity

42/20/20 p13233

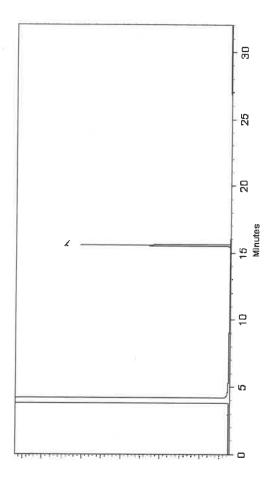
Column: 105m x 0.53mm x 3.0µm Rtx-502.2 (cat.#10910)

hydrogen-constant pressure 11.0 psl. Carrier Gas:

Temp. Program: 40°C (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

Inj. Temp: 200°C Det. Temp: 250°C

Det. Type:



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

25-Mar-2022 Date Mixed:

Balance: 1127510105

30-Mar-2022 Date Passed:

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397



Bellefonte, PA 16823-8812 Fax: 1-814-353-1309 Tel: 1-814-353-1300 110 Benner Circle

Certificate of Analysis

chromatographic plus

www.restek.com

CERTIFIED REFERENCE MATERIAL







FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed

Lot No.: A0217030

30270 Catalog No.:

1,2-Dibromo-3-chloropropane Standard Description:

1,2-Dibromo-3-Chloropropane 2000µg/mL, P&T Methanol, 1mL/ampul

2 mL Container Size:

< 1 mL Pkg Amt:

September 30, 2029 **Expiration Date:**

0°C or colder Ambient Ship: Storage:

VALUE CERTIFIED

Expanded Uncertainty * (95% C.L.; K=2)	+/- 114.3500
Grav. Conc. (weight/volume)	2,018.8 µg/mL
Purity	%86
# Fot	FBL01
CAS#	96-12-8
Compound	1,2-Dibromo-3-chloropropane
Elution Order	-

* Expanded Uncertainty displayed in same units as Grav. Conc.

P&T Methanol Solvent: 67-56-1 CAS#

%66 Purity

P13892 068610

02/03/2025

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm Rbc-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program: 40°C (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

Inj. Temp:

Det. Temp: 250°C

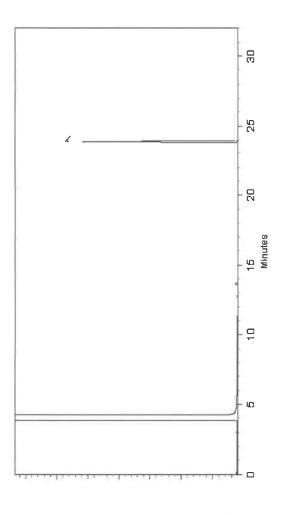
200°C

Det. Type:

Split Vent:

40 ml/min

Inj. Vol



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I AM 7. Bu

25-Sep-2024 Date Mixed:

Balance Serial#

1121472889

Jennifer Pollino - Operations Tech III - ARM QC Grape o Polled

27-Sep-2024 Date Passed:

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397