

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

Order ID :	O4699
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Test: VOCGC Group 1

Prepbatch ID: PB156067,

PR100323, Sequence ID/Qc Batch ID:

Sta	nd	ar	dΙ	חו

PP22365,PP22366,PP22367,PP22368,PP22568,PP22569,PP22570,PP22571,PP22572,PP22573,PP22574,PP22578,P P22579,PP22580,PP22581,

#### Chemical ID:

E3576,M5501,P10222,P10334,P12212,V13644,W2606,

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

## Pest/Pcb 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
								Yogesh Patel
2263	EDB-DBCP 2 PPM Stock Solution	PP22365	07/14/2023	01/05/2024	Ankita Jodhani	None	None	07/14/2023
								0171472020
<u>FROM</u>	0.01000ml of P10222 + 0.01000ml of	f P10334 + 9	9.98000ml of	V13644 = Fina	al Quantity: 10.00	00 ml		

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
2264	EDB-DBCP 2 PPM Stock Solution 2nd Source	PP22366	07/14/2023	01/05/2024	Ankita Jodhani	None	None	07/14/2023

**FROM** 0.10000ml of P12212 + 9.90000ml of V13644 = Final Quantity: 10.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 2517	NAME EDB-DBCP 100 PPB Working Solution	NO. PP22367	Prep Date 07/14/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 07/14/2023
FROM	9.50000ml of V13644 + 0.50000ml of	f PP22365	= Final Quant	ity: 10.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
2518	EDB-DBCP 100 PPB Working Sol. 2nd Source	PP22368	07/14/2023	01/05/2024	Ankita Jodhani	None	None	07/14/2023

**FROM** 9.50000ml of V13644 + 0.50000ml of PP22366 = Final Quantity: 10.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

<b>Recipe ID</b> 2269	NAME M8011-504.1 0.5 PPB STD	NO. PP22568	Prep Date 10/03/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipettelD None	Supervised By Sohil Jodhani 10/03/2023
FROM	35.00000ml of W2606 + 0.17500ml o	f PP22367	= Final Quan	tity: 35.000 ml				

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>	Sohil Jodhani
2270	M8011-504.1 0.25 PPB STD	PP22569	10/03/2023	11/03/2023	Ankita Jodhani	None	None	
								10/03/2023

**FROM** 35.00000ml of W2606 + 0.08750ml of PP22367 = Final Quantity: 35.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 2271	NAME M8011-504.1 0.1 PPB STD	NO. PP22570	Prep Date 10/03/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Sohil Jodhani 10/03/2023
FROM	35.00000ml of W2606 + 0.03500ml of	of PP22367	= Final Quan	tity: 35.000 ml				

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>	Sohil Jodhani
2272	M8011-504.1 0.05 PPB STD	PP22571	10/03/2023	11/03/2023	Ankita Jodhani	None	None	
								10/03/2023

**FROM** 35.00000ml of W2606 + 0.01750ml of PP22367 = Final Quantity: 35.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 2273	NAME M8011-504.1 0.025 PPB STD	NO. PP22572	Prep Date 10/03/2023	Expiration Date 11/03/2023	<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Sohil Jodhani 10/03/2023
FROM	35.00000ml of W2606 + 0.00880ml o	of PP22367	= Final Quan	tity: 35.000 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>	Sohil Jodhani
2274	M8011-504.1 0.1 PPB ICV STD	PP22573	10/03/2023	11/03/2023	Ankita Jodhani	None	None	
								10/03/2023

**FROM** 35.00000ml of W2606 + 0.03500ml of PP22368 = Final Quantity: 35.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

<b>Recipe ID</b> 2519	NAME M8011-504.1 0.1 PPB CCC	NO. PP22574	Prep Date 10/03/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Sohil Jodhani 10/03/2023
FROM	35.00000ml of W2606 + 0.03500ml c	of PP22367	= Final Quant	tity: 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>	Sohil Jodhani
2275	M8011-504.1 0.25 PPB LCS STD	PP22578	10/03/2023	10/04/2023	Ankita Jodhani	None	None	
								10/03/2023

**FROM** 35.00000ml of W2606 + 0.08750ml of PP22368 = Final Quantity: 35.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date		Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sohil Jodhani
2275	M8011-504.1 0.25 PPB LCS STD	PP22579	10/03/2023	10/04/2023	Ankita Jodhani	None	None	10/03/2023
FROM	35.00000ml of W2606 + 0.08750ml of	f PP22368	= Final Quan	tity: 35.000 ml				

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>	Sohil Jodhani
3653	M8011-504.1 LOD 0.025 PPB	PP22580	10/03/2023	11/03/2023	Ankita Jodhani	None	None	
								10/03/2023

**FROM** 35.00000ml of W2606 + 0.00880ml of PP22367 = Final Quantity: 35.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3759	NAME M8011-504.1 LOQ 0.025 PPB	NO. PP22581	Prep Date 10/03/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Sohil Jodhani 10/03/2023
FROM	35.00000ml of W2606 + 0.00880ml o	I of PP22367	I = Final Quan	tity: 35.000 ml				10/00/2020



# **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)	23G1262009	03/28/2024	09/28/2023 / Rajesh	09/28/2023 / Rajesh	E3576
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)	0000281938	07/06/2026	07/24/2023 / mohan	04/14/2023 / mohan	M5501
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30270 / 1,2-Dibromo-3-Chloropropa ne Standard, 2,000 ug/ml	A0164665	01/14/2024	07/14/2023 / Ankita	01/19/2021 / Abdul	P10222
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30272 / 1,2-Dibromoethane Standard, 2000 ug/ml	A0154067	01/14/2024	07/14/2023 / Ankita	03/04/2021 / Abdul	P10334
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Restek	30239 / 504.1 Calibration Mix (3 components)	A0170154	01/14/2024	07/14/2023 / Ankita	11/28/2022 / Ankita	P12212
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2862010	01/05/2024	07/05/2023 / SAM	02/23/2023 / SAM	V13644



## **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	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Methanol ULTRA RESI-ANALYZED For Purge and Trap Analysis





Material No.: 9077-02

Batch No.: 22C2862010

Manufactured Date: 2022-02-15 Expiration Date: 2025-02-14

Revision No.: 0

# Certificate of Analysis

Test	Specification	Result
Assay (CH3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	< 0.02
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







Material No.: 9262-03

Batch No.: 23G1262009

Manufactured Date: 2023-06-01 Expiration Date: 2024-08-30

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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	3
Assay (Total Saturated C6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.6 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Darkened by H <sub>2</sub> SO <sub>4</sub>	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	0.01 %

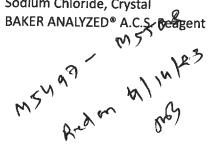
For Laboratory, Research, or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd 57 RP cn 9128123

Sodium Chloride, Crystal







Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

Retest Date: 2026-06-07

Revision No.: 2

# **Certificate of Analysis**

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
lodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO₃)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO <sub>4</sub> )	≤ 5 ppm	< 5 ppm
Sulfate (SO <sub>4</sub> )	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory, Research, or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs Country of Origin: USA Packaging Site: Paris Mfg Ctr & DC





# CERTIFIED REFERENCE MATERIAL



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

www.restek.com

# **Certificate of Analysis**





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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

Catalog No.: 30270 Lot No.: A0164665

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

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

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date : September 30, 2025 Storage: 0°C or colder

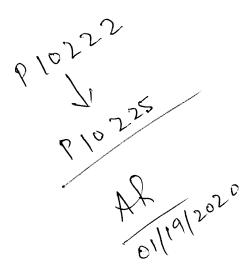
Ship: Ambient

### CERTIFIED VALUES

Elution Order	Compound	Grav. C (weight/v		Expanded Uncertainty (95% C.L.; K=2)	
1	1,2-Dibromo-3-chloropropane CAS # 96-12-8 (Lo Purity 97%	2,009.8 FBL01)	μg/mL +/- +/- +/-	18.6904 μg/mL 113.6299 μg/mL 116.2454 μg/mL	Gravimetric Unstressed Stressed

**Solvent:** P&T Methanol

CAS # 67-56-



### Column:

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

#### Carrier Gas:

hydrogen-constant pressure 11.0 psi.

### Temp. Program:

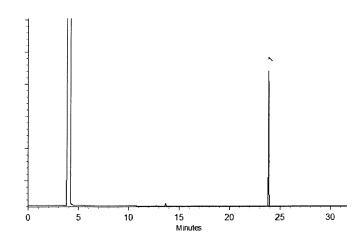
40°C (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

### Inj. Temp:

### Det. Temp:

250°C

### 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.

CychyDCykner

Date Mixed:

22-Sep-2020

Balance: B251644995

Date Passed: 24-Sep-2020

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



# **CERTIFIED REFERENCE MATERIAL**



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

# **Certificate of Analysis**





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### 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.

Catalog No.: 30272 Lot No.: A0151983

**Description**: 1,2-Dibromoethane Standard

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

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: August 31, 2024 Storage: 0°C or colder

### CERTIFIED VALUES

Elution	Compound	Grav. Conc. (weight/volume)		panded Uncertainty % C.L.; K=2)
1	1,2-Dibromoethane (EDB) <b>CAS #</b> 106-93-4 (Lot BO) <b>Purity</b> 99%	2,004.0 μg/mI BH3877V)	+/- 112	9032 μg/mL Gravimetric 2.3887 μg/mL Unstressed 5.0172 μg/mL Stressed

**Solvent:** P&T Methanol

CAS# 67-56-1

Purity 99%

P10335 03/25/21

Column:

105m x 0.53mm x 3.0μm Rtx-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:

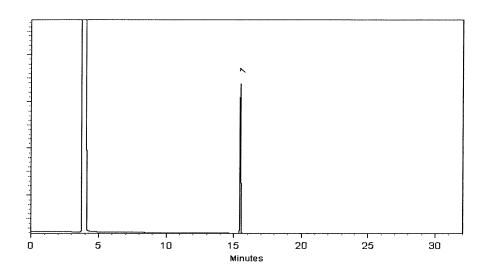
200°C

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.

Matt Fragassi - Mix Technician

Date Mixed:

18-Aug-2019

Balance: 1128342314

Tyler Brown - Operations Tech-ARM QC

Date Passed:

20-Aug-2019

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



# **CERTIFIED REFERENCE MATERIAL**



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

# **Certificate of Analysis**





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### 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.

Catalog No.:

30239

Lot No.: A0170154

1221

P.

Description:

504.1 Calibration Mix

504.1 Calibration Std 200µg/mL, P&T Methanol, 1mL/ampul

1

1128/22

Container Size : Expiration Date : 2 mL

March 31, 2026

2

Pkg Amt: > 1 mL

0°C or colder

Ship:

Storage:

Ambient

### CERTIFIED VALUES

Elution Order 1	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
	1,2-Dibromoethane (EDB) CAS# 106-93-4 Purity 99%	(Lot BCBP2268V)	200.5 μg/mL	+/-+/-	11.2713	μg/mL μg/mĽ μg/mL	Gravimetric Unstressed Stressed
2	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot BCBH8722V)	200.0 μg/mL	+/- +/- +/-	11.2431	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3	1,2-Dibromo-3-chloropropand CAS # 96-12-8 Purity 97%	e (Lot FBL01)	199.8 μg/mL	+/-+/-	11.2330	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent:

P&T Methanol

CAS# 67-56-1

Purity 99%

#### Column:

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

#### Carrier Gas:

hydrogen-constant pressure 11.0 psi.

#### Temp. Program:

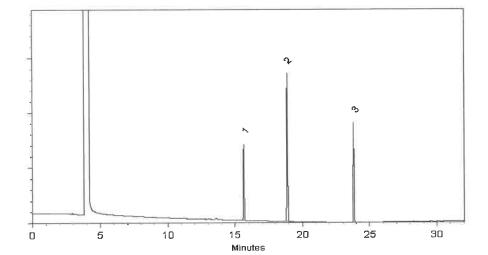
40°C (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

### Inj. Temp:

200°C

#### Det. Temp: 250°C

Det. Type: FID



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.

Erik Strommer - Operations Tech I

Date Mixed:

15-Mar-2021

Balance: B251644995

Alexis Shairna - Operations Tech I

Date Passed:

16-Mar-2021

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