

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: Q1168	38	Q11):	der ID	0
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Test: VOCGC Group 1

Prepbatch ID: PB166328,

Sequence ID/Qc Batch ID: PQ013025,

Standard ID	:
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PP24133,PP24134,PP24135,PP24136,PP24142,PP24143,PP24144,PP24145,PP24146,PP24147,PP24149,PP24152,PP24153,

Chemical ID:

E3872,M5884,P10225,P12215,P13234,V14624,W3112,



Aliance

Fax: 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
2263	EDB-DBCP 2 PPM Stock Solution	PP24133	01/28/2025	07/13/2025	Ankita Jodhani	None	None	3
								01/29/2025

FROM	0.01000ml of P10225 + 0.01000ml of P13234 + 9.98000ml of V14624 = Final Quantity: 10.000 ml
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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	<u>PP24134</u>	01/28/2025	07/13/2025	Ankita Jodhani	None	None	01/29/2025

FROM 0.10000ml of P12215 + 9.90000ml of V14624 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

							<u>PipetteID</u>	Yogesh Patel
2517 EDB-DBCP 100 PPB Solution	3 Working PP241	<u>35</u> 01/	1/28/2025	07/13/2025	Ankita Jodhani	None	None	01/29/2025

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	PP24136	01/28/2025	07/13/2025	Ankita Jodhani	None	None	01/29/2025

FROM 9.50000ml of V14624 + 0.50000ml of PP24134 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
2269	M8011-504.1 0.5 PPB STD	PP24142	01/30/2025	03/01/2025	Ankita Jodhani	None	None	rogesii i atei
								01/31/2025

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>	Yogesh Patel
2270	M8011-504.1 0.25 PPB STD	PP24143	01/30/2025	03/01/2025	Ankita Jodhani	None	None	
								01/31/2025

FROM 35.00000ml of W3112 + 0.08750ml of PP24135 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
2271	M8011-504.1 0.1 PPB STD	PP24144	01/30/2025	03/01/2025	Ankita Jodhani	None	None	9
								01/31/2025

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>	Yogesh Patel
2272	M8011-504.1 0.05 PPB STD	PP24145	01/30/2025	03/01/2025	Ankita Jodhani	None	None	
								01/31/2025

FROM 35.00000ml of W3112 + 0.17500ml of PP24135 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
2273	M8011-504.1 0.025 PPB STD	PP24146	01/30/2025	03/01/2025	Ankita Jodhani	None	None	rogeon rater
								01/31/2025

FROM	35.00000ml of W3112 + 0.00880ml of PP24135 = 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>	Yogesh Patel
2274	M8011-504.1 0.1 PPB ICV STD	PP24147	01/30/2025	03/01/2025	Ankita Jodhani	None	None	Ü
								01/31/2025

FROM 35.00000ml of W3112 + 0.03500ml of PP24136 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	ScaleID	<u>PipetteID</u>	Supervised By Yogesh Patel
2519	M8011-504.1 0.1 PPB CCC	PP24149	01/30/2025	01/31/2025	Ankita Jodhani	None	None	rogesii Falei
								01/31/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3653	M8011-504.1 LOD 0.025 PPB	PP24152	01/30/2025	03/01/2025	Ankita Jodhani	None	None	01/31/2025

FROM 35.00000ml of W3112 + 0.00880ml of PP24135 = Final Quantity: 35.000 ml





Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3759	NAME M8011-504.1 LOQ 0.025 PPB	NO. PP24153	Prep Date 01/30/2025	Expiration Date 03/01/2025	<u>Prepared</u> <u>By</u> Ankita Jodhani	ScaleID None	PipetteID None	Supervised By Yogesh Patel 01/31/2025
FROM	35.00000ml of W3112 + 0.00880ml o	f PP24135	= Final Quan	tity: 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)	24G1962003	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3872
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	04/30/2024 / mohan	04/25/2024 / mohan	M5884
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	07/28/2025	01/28/2025 / Ankita	01/19/2021 / Abdul	P10225
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	07/28/2025	01/28/2025 / Ankita	11/28/2022 / Ankita	P12215
Restek Supplier		A0170154	07/28/2025 Expiration Date			P12215 Chemtech Lot #
	Mix (3 components)	<u> </u>	Expiration	Ankita Date Opened /	Ankita Received Date /	Chemtech
Supplier	Mix (3 components) ItemCode / ItemName 30272 / 1,2-Dibromoethane	Lot #	Expiration Date	Ankita Date Opened / Opened By 01/28/2025 /	Ankita Received Date / Received By 02/02/2024 /	Chemtech 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 (CH3OH) (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

Sr. Manager, Quality Assurance

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





Material No.: 9262-03

Batch No.: 24G1962003

Manufactured Date: 2024-05-23

Expiration Date: 2025-08-22 Revision No.: 0

Certificate of Analysis

Test	Specification	Docule
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)		Result
ECD Sensitive impurities (as Herearther Sensitive impurity rear (119/1112)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	,
Assay (Total Saturated C6 Isomers) (by GC, corrected for water)	≥ 99.5 %	. **
Assay (as n-Hexane) (by GC, corrected for water)		99.7 %
Color (APHA)	≥ 95 %	98 %
•	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	_
Substances Darkened by H2SO4	Passes Test	0.1 ppm
Vater (by KF, coulometric)		Passes Test
	≤ 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

Reed 51 RP on 1/29/25

E 3872

Hoak

Director Quality Operations, Bioscience Production

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







Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

Retest Date: 2026-06-07

Revision No.: 1

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 NO ₃)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO ₄)	≤ 5 ppm	< 5 ppm
Sulfate (SO ₄)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
ron (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

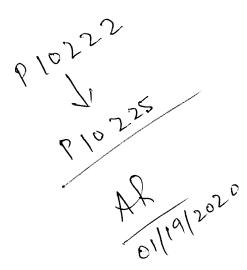
Ship: Ambient

CERTIFIED VALUES

Elution	Compound	Grav. Conc.	Expanded Uncertainty
Order		(weight/volume)	(95% C.L.; K=2)
1	1,2-Dibromo-3-chloropropane CAS # 96-12-8 (Lot Purity 97%	2,009.8 μg/mL .01)	+/- 18.6904 μg/mL Gravimetric +/- 113.6299 μg/mL Unstressed +/- 116.2454 μg/mL 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:

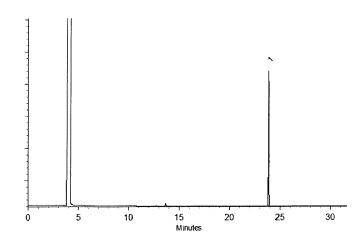
40°C (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

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.:

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	Com	pound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	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:

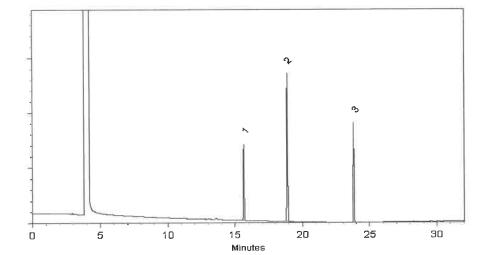
40°C (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

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



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.:

Description:

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

×1mL Container Size:

0°C or colder Ship: Ambient Pkg Amt: Storage: March 31, 2027 Expiration Date:

S VALUE TIFIED œ ш ပ

Order	Comp	Compound	Grav. Conc. (weight/volume)	Expa (95%	Expanded Uncertainty (95% C.L.; K=2)	No. of Lot	
O <u>•</u> -	,2-Dibromoethane (EDB) 5AS # 106-93-4 Purity 99%	(Lot BCBZ7221)	2,016.0 μg/mL	+/- 18.7477 +/- 113.9782 +/- 116.6017	77 μg/mL 782 μg/mL 017 μg/mL	Gravimetric Unstressed Stressed	

P&T Methanol CAS# Solvent:

67-56-1 99% Purity

42/20/20

613233

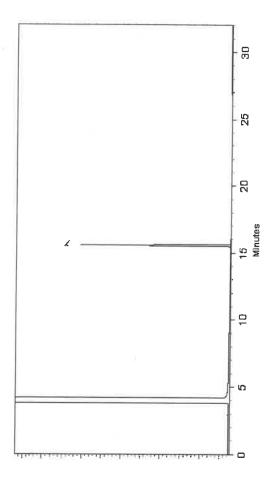
Column: 105m x 0.53mm x 3.0µm Rtx-502.2 (cat.#10910)

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