

# **Prep Standard - Chemical Standard Summary**

Order ID :	O1232
Test :	Gasoline Range Organics
Prepbatch ID :	
Sequence ID/Qc Bat	rch ID: FB012023,
Standard ID:	PP21304,PP21485,PP21486,PP21487,PP21488,PP21489,PP21490,PP21504,PP21505,PP21506,
PP21302,PP21303,P	^PZ 1304,PPZ 1405,PPZ 1400,PPZ 1407,PPZ 1408,PPZ 1409,PPZ 1490,PPZ 1504,PPZ 1505,PPZ 1500,
Chemical ID :	
P9822,P9823,V11250	0,V13214,W2606,

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

## Pest/Pcb STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By	
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Ankita Jodhani	
231	10 PPM GRO STD 1ST SOURCE	PP21302	12/19/2022	06/19/2023	Yogesh Patel	None	None		
								12/20/2022	
FROM	FROM 0.11100ml of P9822 + 9.89000ml of V13214 = Final Quantity: 10.000 ml								

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u> 233	NAME  10 PPM GRO STD 2nd SOURCE	NO. PP21303	Prep Date 12/19/2022	<u>Date</u> 06/19/2023	<u>By</u> Yogesh Patel	<u>ScaleID</u> None	PipetteID None	Ankita Jodhani
200	TOTAL WORLD OF BLING OCCINGE	1121000	12/10/2022	00/10/2020	rogodii i didi	110110	110110	12/20/2022

**FROM** 0.11100ml of P9823 + 9.89000ml of V13214 = Final Quantity: 10.000 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3619	NAME 25 PPM AAA-TFT Surg	NO. PP21304	Prep Date 12/19/2022	Expiration Date 06/12/2023	Prepared By  Yogesh Patel	ScaleID None	PipettelD None	Supervised By Ankita Jodhani 12/20/2022
FROM	0.10000ml of V11250 + 9.90000ml of	V13214 =	I Final Quantity	r: 10.000 ml				12/20/2022

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
238	5 PPB ICC GRO STD	PP21485	01/17/2023	02/17/2023	Yogesh Patel	None	None	

FROM 5.00000ml of W2606 + 0.00100ml of PP21304 + 0.00250ml of PP21302 = Final Quantity: 5.004 ml

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

## 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
237	10 PPB ICC GRO STD	PP21486	01/17/2023	06/12/2023	Yogesh Patel	None	None	
FROM	5.00000ml of W2606 + 0.00200ml of	PP21304 +	0.00500ml of	PP21302 = Fi	nal Quantity: 5.0	007 ml		

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
239	20 PPB ICC GRO STD	PP21487	01/17/2023	06/12/2023	Yogesh Patel	None	None	

FROM 5.00000ml of W2606 + 0.00400ml of PP21304 + 0.01000ml of PP21302 = Final Quantity: 5.014 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By
235	50 PPB ICC GRO STD	PP21488	01/17/2023	06/12/2023	Yogesh Patel	None	None	
FROM	5.00000ml of W2606 + 0.01000ml of	PP21304 +	0.02500ml of	PP21302 = Fi	nal Quantity: 5.0	035 ml		

Recipe <u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
234	100 PPB ICC GRO STD	PP21489	01/17/2023	06/12/2023	Yogesh Patel	None	None	

FROM 5.00000ml of W2606 + 0.02000ml of PP21304 + 0.05000ml of PP21302 = Final Quantity: 5.070 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 240	NAME 20 PPB ICV GRO STD	NO. PP21490	<b>Prep Date</b> 01/17/2023	Expiration Date 06/12/2023	Prepared By  Yogesh Patel	ScaleID None	PipetteID None	Supervised By
FROM	5.00000ml of W2606 + 0.00400ml of	PP21304 +	0.01000ml of	PP21303 = Fi	nal Quantity: 5.0	014 ml		

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By
241	20 PPB CCC GRO STD	PP21504	01/20/2023	06/12/2023	Yogesh Patel	None	None	

FROM 5.00000ml of W2606 + 0.00400ml of PP21304 + 0.01000ml of PP21302 = Final Quantity: 5.014 ml

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## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date		Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By
241	20 PPB CCC GRO STD	PP21505	01/20/2023	06/12/2023	Yogesh Patel	None	None	
FROM	5.00000ml of W2606 + 0.00400ml of	PP21304 +	0.01000ml of	PP21302 = Fi	nal Quantity: 5.0	014 ml		

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
241	20 PPB CCC GRO STD	PP21506	01/20/2023	06/12/2023	Yogesh Patel	None	None	

FROM 5.00000ml of W2606 + 0.00400ml of PP21304 + 0.01000ml of PP21302 = Final Quantity: 5.014 ml



## **CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0155991	01/07/2023	07/07/2022 / yogesh	09/11/2020 / DHAVAL	P9822
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0155991	01/07/2023	07/07/2022 / yogesh	09/11/2020 / DHAVAL	P9823
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30068 / VOA Mix, a, a, a-triflurotoluene 2500uq/ml, P&T methanol, 1ml	A0158026	06/19/2023	03/08/2022 / Ankita	09/11/2020 / DHAVAL	V11250
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22C2362001	06/12/2023	12/12/2022 / SAM	09/13/2022 / SAM	V13214
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.: 22C2362001

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

Revision No.: 0

# Certificate of Analysis

Test	Specification	Result
Assay (CH <sub>3</sub> OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	< 0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (μeq/g)	≤ 0.10	0.03
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





# CERTIFIED REFERENCE MATERIAL



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

# **Certificate of Analysis**

lac MRA



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### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

Lot No.: <u>A0155991</u>

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

DD

13 tource

Openition December 1

Gasoline Range Organics Mix (EPA)

Gasoline Range Organics Mix (EPA) 500 - 1500µg/mL, P&T Methanol,

1mL/ampul

30065

Container Size : 2 mL

Catalog No.:

**Expiration Date:** 

Description:

January 31, 2027

Pkg Amt: > 1 mL

Storage: 0°C or colder

P9817

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#### CERTIFIED VALUES

				JIMITED VALUE				<b>-</b> - <b>-</b>	
Elution Order		Compound	d	Grav. (weight/			Expanded (95% C.L.;	Uncertainty K=2)	
1	2-Methyl CAS # Purity	pentane 107-83-5 98%	(Lot MKCB1674V)	1,505.3	μg/mL	+/- +/- +/-	8.9409 84.4194 86.3938	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	2,2,4-Trir CAS # Purity	nethylpentane (isooctane) 540-84-1 99%	) (Lot SHBD2922V)	1,504.0	μg/mL	+/- +/- +/-	8.9333 84.3476 86.3203	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3	n-Heptand CAS # Purity	e (C7) 142-82-5 98%	(Lot SHBK8626)	500.8	μg/mL	+/- +/- +/-	2.9745 28.0848 28.7417	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
4	Benzene CAS # Purity	71-43-2 99%	(Lot SHBK5679)	501.0	μg/mL	+/- +/- +/-	2.9758 28.0972 28.7543	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
5	Toluene CAS # Purity	108-88-3 99%	(Lot MKCH9232)	1,505.0	μg/mL	+/- +/- +/-	8.9392 84.4037 86.3777	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
6	Ethylbenz CAS # Purity		(Lot SHBJ4278)	502.0	μg/mL	+/- +/- +/-	2.9817 28.1533 28.8117	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
7		108-38-3 99%	(Lot SHBJ8743)	1,004.0	μg/mL	+/- +/- +/-	5.9635 56.3065 57.6234	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

8	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBK7739)	1,008.0 μg/mL	+/- 5.9872 +/- 56.5308 +/- 57.8530	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
9	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ6229V)	1,004.5 μg/mL	+/- 5.9664 +/- 56.3345 +/- 57.6521	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:

 $40^{\circ}\text{C}$  (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

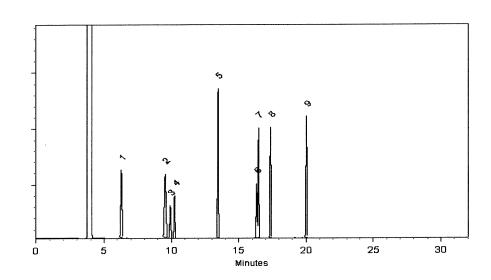
### Inj. Temp:

200°C

## Det. Temp:

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.

Mikand Kline Miranda Kline - Operations Technician I

Date Mixed:

19-Dec-2019

Balance: 1127510105

Date Passed: 23-Dec-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**

lac MRA



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Lot No.: <u>A0155991</u>

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Openition December 1

Gasoline Range Organics Mix (EPA)

Gasoline Range Organics Mix (EPA) 500 - 1500µg/mL, P&T Methanol,

1mL/ampul

30065

Container Size : 2 mL

Catalog No.:

**Expiration Date:** 

Description:

January 31, 2027

Pkg Amt: > 1 mL

Storage: 0°C or colder

P9817

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#### CERTIFIED VALUES

				JIMITED VALUE				<b>-</b> - <b>-</b>	
Elution Order		Compound	d	Grav. (weight/			Expanded (95% C.L.;	Uncertainty K=2)	
1	2-Methyl CAS # Purity	pentane 107-83-5 98%	(Lot MKCB1674V)	1,505.3	μg/mL	+/- +/- +/-	8.9409 84.4194 86.3938	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	2,2,4-Trir CAS # Purity	nethylpentane (isooctane) 540-84-1 99%	) (Lot SHBD2922V)	1,504.0	μg/mL	+/- +/- +/-	8.9333 84.3476 86.3203	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
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4	Benzene CAS # Purity	71-43-2 99%	(Lot SHBK5679)	501.0	μg/mL	+/- +/- +/-	2.9758 28.0972 28.7543	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
5	Toluene CAS # Purity	108-88-3 99%	(Lot MKCH9232)	1,505.0	μg/mL	+/- +/- +/-	8.9392 84.4037 86.3777	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
6	Ethylbenz CAS # Purity		(Lot SHBJ4278)	502.0	μg/mL	+/- +/- +/-	2.9817 28.1533 28.8117	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
7		108-38-3 99%	(Lot SHBJ8743)	1,004.0	μg/mL	+/- +/- +/-	5.9635 56.3065 57.6234	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

8	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBK7739)	1,008.0 μg/mL	+/- 5.9872 +/- 56.5308 +/- 57.8530	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
9	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot MKBJ6229V)	1,004.5 μg/mL	+/- 5.9664 +/- 56.3345 +/- 57.6521	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:

 $40^{\circ}\text{C}$  (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

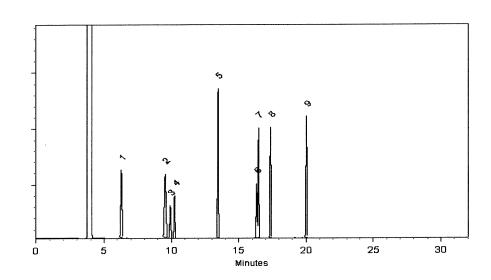
### Inj. Temp:

200°C

## Det. Temp:

Det. Type:

FID



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Mikand Kline Miranda Kline - Operations Technician I

Date Mixed:

19-Dec-2019

Balance: 1127510105

Date Passed: 23-Dec-2019

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



# **CERTIFIED REFERENCE MATERIAL**



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.: 30068 Lot No.: A0158026

Description: a,a,a-Trifluorotoluene Standard

a,a,a-Trifluorotoluene 2500µg/mL, P & T Methanol, 1mL/ampul

a,a,a-milluorotoidene 2500µg/m², r & r Methanoi, militampa

Container Size : 2 mL

Pkg Amt: \_ > 1 mL

Expiration Date: May 31, 2028 Storage: 0°C or colder

V11250 V11254



### CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	a,a,a-Trifluorotoluene CAS # 98-08-8 Purity 99%	(Lot SHBJ9102)	2,514.0 μg/mL	+/- +/- +/-	14.9324 140.9906 144.2881	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:

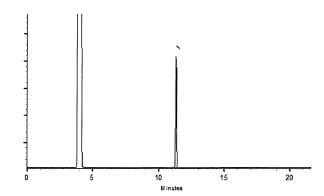
40°C (hold 2 min.) to 240°C @ 8°C/min. (hold 5 min.)

#### Inj. Temp:

200°C

#### Det. Temp:

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.

Date Mixed:

20-Feb-2020

Balance: B251644995

Date Passed: 24-Feb-2020

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