

Q1872

Gasoline Range Organics

Order ID:

Test:

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

8900, Fax: 908 789 8922

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

Prepbatch ID :	
Sequence ID/Qc Batch ID:	B042925,
<b>Standard ID</b> : PP24110,PP24111,PP24112,PP24	.485,PP24486,PP24487,PP24488,PP24489,PP24490,PP24494,PP24495,PP24496,
<b>Chemical ID :</b> P11119,P9831,V14543,V14624,W3	3112,



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  Ankita Jodhani
231	10 PPM GRO STD 1ST SOURCE	PP24110	01/15/2025	07/13/2025	Yogesh Patel	None	None	04/45/0005
								01/15/2025

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>	Ankita Jodhani
233	10 PPM GRO STD 2nd SOURCE	PP24111	01/15/2025	07/13/2025	Yogesh Patel	None	None	
								01/15/2025

**FROM** 0.11100ml of P11119 + 9.89000ml of V14624 = 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  Ankita Jodhani
3619	25 PPM AAA-TFT Surg	PP24112	01/15/2025	07/13/2025	Yogesh Patel	None	None	01/15/2025
		<u>l</u>	<u> </u>					01/10/2020

<b>FROM</b>	0.10000ml of V14543 + 9.90000ml of V14624 = Final Quantity: 10.000 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
238	5 PPB ICC GRO STD	PP24485	04/23/2025	07/13/2025	Yogesh Patel	None	None	
								05/08/2025

FROM 5.00000ml of W3112 + 0.00100ml of PP24112 + 0.00250ml of PP24110 = Final Quantity: 5.004 ml





## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Abdul Mirza
237	10 PPB ICC GRO STD	PP24486	04/23/2025	07/13/2025	Yogesh Patel	None	None	05/08/2025
								03/00/2023

FROM	5.00000ml of W3112 + 0.00200ml of PP24112 + 0.00500ml of PP24110	= Final Quantity: 5.007 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
239	20 PPB ICC GRO STD	PP24487	04/23/2025	07/13/2025	Yogesh Patel	None	None	
								05/08/2025

FROM 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 ml





## Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By  Abdul Mirza
235	50 PPB ICC GRO STD	PP24488	04/23/2025	07/13/2025	Yogesh Patel	None	None	05/08/2025
								03/00/2023

FROM	5.00000ml of W3112 + 0.01000ml of PP24112 + 0.02500ml of PP24110	= Final Quantity: 5.035 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
234	100 PPB ICC GRO STD	PP24489	04/23/2025	07/13/2025	Yogesh Patel	None	None	
								05/08/2025

FROM 5.00000ml of W3112 + 0.02000ml of PP24112 + 0.05000ml of PP24110 = Final Quantity: 5.070 ml



Aliance

Fax: 908 789 8922

## 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
240	20 PPB ICV GRO STD	PP24490	04/23/2025	07/13/2025	Yogesh Patel	None	None	
	<u> </u>							05/08/2025

FROM	5.00000ml of W3112 + 0	).00400ml of PP24112 +	0.01000ml of PP24111	= Final Quantity: 5.014 ml
------	------------------------	------------------------	----------------------	----------------------------

Recipe				Expiration	Prepared			Supervised By
<u>ID</u> 241	NAME 20 PPB CCC GRO STD	NO. PP24494	Prep Date 04/29/2025	<u>Date</u> 07/13/2025	<u>By</u> Yogesh Patel	<u>ScaleID</u> None	PipetteID None	Abdul Mirza
			0 :: 20: 202	0171072020	rogoon rate.			05/08/2025

FROM 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 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
241	20 PPB CCC GRO STD	PP24495	04/29/2025	07/13/2025	Yogesh Patel	None	None	05/08/2025
								03/00/2023

FROM	5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = Final Quantity: 5.014 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
241	20 PPB CCC GRO STD	PP24496	04/29/2025	07/13/2025	Yogesh Patel	None	None	
								05/08/2025

FROM 5.00000ml of W3112 + 0.00400ml of PP24112 + 0.01000ml of PP24110 = 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	01/31/2027	11/27/2023 / yogesh	02/10/2021 / Sohil	P11119
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0161776	07/15/2025	01/15/2025 / yogesh	09/11/2020 / DHAVAL	P9831
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	A0206957	07/15/2025	01/15/2025 / yogesh	09/30/2024 / yogesh	V14543
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)	2310762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	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



# CERTIFIED REFERENCE MATERIAL



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

# **Certificate of Analysis**

lac MRA



www.restek.com

### 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

000

′

#### CERTIFIED VALUES

								• /	<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.)

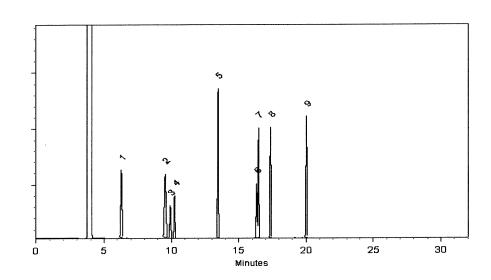
## Inj. Temp:

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