

### Prep Standard - Chemical Standard Summary

Order ID : Q1812

Test : Gasoline Range Organics

Prepbatch ID :

Sequence ID/Qc Batch ID: FB041625,

Standard ID :

PP24110,PP24111,PP24112,PP24426,PP24427,PP24428,PP24429,PP24430,PP24431,PP24463,PP24464,

Chemical ID : P11119,P9831,V14543,V14624,W3112,



<b>FROM</b> 0.11100ml of P9831 + 9.89000ml of V14624 = Final Quantity: 10.000 ml	

<u>Recipe</u> <u>ID</u> 233	NAME 10 PPM GRO STD 2nd SOURCE	<u>NO.</u> PP24111	Prep Date 01/15/2025	Expiration Date 07/13/2025	<u>Prepared</u> <u>By</u> Yogesh Patel	<u>ScaleID</u> None	PipetteID None	<u>Supervised By</u> Ankita Jodhani 01/15/2025
FROM	0.11100ml of P11119 + 9.89000ml of	V14624 = F	I Final Quantity	: 10.000 ml	1		1	0



<u>Recipe</u> <u>ID</u> 3619	NAME 25 PPM AAA-TFT Surg	<u>NO.</u> PP24112	<u>Prep Date</u> 01/15/2025	Expiration Date 07/13/2025	Prepared By Yogesh Patel	<u>ScaleID</u> None	PipetteID None	Supervised By Ankita Jodhani 01/15/2025
<u>FROM</u>	0.10000ml of V14543 + 9.90000ml of	V14624 =	Final Quantity	/: 10.000 ml	<u> </u>			

<b>Recipe</b>				<b>Expiration</b>	<b>Prepared</b>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Abdul Mirza
238	5 PPB ICC GRO STD	<u>PP24426</u>	03/26/2025	07/13/2025	Yogesh Patel	None	None	
								04/03/2025
FROM	5.00000ml of W3112 + 0.00100ml of	PP24112 +	0.00250ml of	PP24110 = Fii	nal Quantity: 5.0	04 ml		



Recipe ID 237	NAME 10 PPB ICC GRO STD	<u>NO.</u> PP24427	Prep Date 03/26/2025	Expiration Date 07/13/2025	Prepared By Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Abdul Mirza 04/03/2025
FROM	5.00000ml of W3112 + 0.00200ml of	PP24112 +	0.00500ml of	PP24110 = Fir	nal Quantity: 5.0	007 ml		
Basing				Expiration	Bronarad			Supervised By

<b>Recipe</b>				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Abdul Mirza
239	20 PPB ICC GRO STD	<u>PP24428</u>	03/26/2025	07/13/2025	Yogesh Patel	None	None	
								04/03/2025
FROM	5.00000ml of W3112 + 0.00400ml of	PP24112 +	0.01000ml of	PP24110 = Fii	nal Quantity: 5.0	14 ml		



Recipe ID 235	NAME 50 PPB ICC GRO STD	<u>NO.</u> PP24429	Prep Date 03/26/2025	Expiration Date 07/13/2025	<u>Prepared</u> <u>By</u> Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Abdul Mirza 04/03/2025
<u>FROM</u>	5.00000ml of W3112 + 0.01000ml of	PP24112 +	0.02500ml of	PP24110 = Fir	nal Quantity: 5.0	35 ml		
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<u>Recipe</u> <u>ID</u> 234	NAME 100 PPB ICC GRO STD	<u>NO.</u> PP24430	Prep Date 03/26/2025	Expiration Date 07/13/2025	<u>Prepared</u> <u>By</u> Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Abdul Mirza 04/03/2025
FROM	5.00000ml of W3112 + 0.02000ml of	<u> </u> PP24112 +	l 0.05000ml of	PP24110 = Fii	nal Quantity: 5.0	170 ml		04/03/2023



<b>FROM</b> 5.00000ml of <sup>1</sup>	W3112 + 0.00400ml of Pl	P24112 + 0.	).01000ml of	PP24111 = Fir	nal Quantity: 5.0	14 ml	

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipettelD</u>	<u>Supervised By</u> Abdul Mirza
241	20 PPB CCC GRO STD	<u>PP24463</u>	04/16/2025	07/13/2025	Yogesh Patel	None	None	04/21/2025
FROM	5.00000ml of W3112 + 0.00400ml of	PP24112 +	0.01000ml of	PP24110 = Fii	nal Quantity: 5.0	)14 ml		



Recipe ID 241	NAME 20 PPB CCC GRO STD	<u>NO.</u> PP24464	Prep Date 04/16/2025	Expiration Date 07/13/2025	<u>Prepared</u> <u>By</u> Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Abdul Mirza 04/21/2025
FROM	1 5.00000ml of W3112 + 0.00400ml of	L PP24112 +	L0.01000ml of	PP24110 = Fii	nal Quantity: 5.0	)14 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 / 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)	≤ <b>0.10</b>	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

fermetrikel.

Ken Koehnlein Sr. Manager, Quality Assurance



## \* CERTIFIED REFERENCE MATERIAL

# **Certificate of Analysis**





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Tel: (800)356-1688 Fax: (814)353-1309

Bellefonte, PA 16823-8812

www.restek.com

NT FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE. Source This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed. P9817 Catalog No. : 30065 Lot No.: A0155991 10 **Description :** Gasoline Range Organics Mix (EPA) Gasoline Range Organics Mix (EPA) 500 - 1500µg/mL, P&T Methanol, P9826 1mL/ampul **Container Size :** 2 mL Pkg Amt: > 1 mL **Expiration Date :** January 31, 2027 0°C or colder Storage:

#### CERTIFIED VALUES

Elution Order 1	Compound		Grav. Conc. (weight/volume)			Expanded Uncertainty (95% C.L.; K=2)			
	2-Methylpent CAS # 10' Purity 98'	7-83-5	(Lot MKCB1674V)	1,505.3	μg/mL	+/- +/- +/-	8.9409 84.4194 86.3938	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2			(Lot SHBD2922V)	1,504.0	µg/mL	+/- +/- +/-	8.9333 84.3476 86.3203	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3	n-Heptane (C CAS # 142 Purity 989	2-82-5	(Lot SHBK8626)	500.8	µg/mL	+/- +/- +/-	2.9745 28.0848 28.7417	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
4	Benzene CAS # 71- Purity 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 # 108 Purity 99%		(Lot MKCH9232)	1,505.0	μg/mL	+/- +/- +/-	8.9392 84.4037 86.3777	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
6	Ethylbenzene CAS # 100 Purity 99%		(Lot SHBJ4278)	502.0	μg/mL	+/- +/- +/-	2.9817 28.1533 28.8117	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
7	m-Xylene CAS # 108 Purity 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)

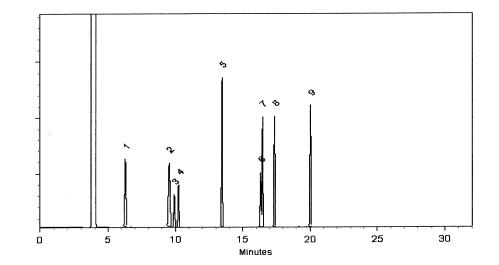
Carrier Gas: hydrogen-constant pressure 11.0 psi.

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

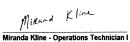
Inj. Temp: 200°C

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.



as Technician I Date Mixed: 19-Dec-2019 Balance: 1127510105

Parig Yun Lo - Oc Artisiyet

Date Passed: 23-Dec-2019

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