

P3390

Order ID:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789 8900,

Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Test :	Gasoline Range Organics
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: FB073024,
Standard ID : PP235354,PP23535,P	P23538,PP23540,PP23541,PP23542,PP23543,PP23544,PP23545,PP23546,PP23547,PP23548,
Chemical ID : P11121,P9826,V1125	52,V14143,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 Ankita Jodhani
231	10 PPM GRO STD 1ST SOURCE	PP23534	07/29/2024	01/22/2025	Yogesh Patel	None	None	07/30/2024
								0170072021

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
233	10 PPM GRO STD 2nd SOURCE	PP23535	07/29/2024	01/22/2025	Yogesh Patel	None	None	
								07/30/2024

FROM 0.11100ml of P11121 + 9.89000ml of V14143 = Final Quantity: 10.000 ml



Aliance TECHNICAL GROUP

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
3619	25 PPM AAA-TFT Surg	PP23538	07/29/2024	01/22/2025	Yogesh Patel	None	None	07/30/2024
		<u>l</u>	<u> </u>					01/30/2024

FROM	0.10000ml of V11252 + 9.90000ml of V14143 = 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>	Ankita Jodhani
238	5 PPB ICC GRO STD	PP23540	07/30/2024	01/22/2025	Yogesh Patel	None	None	
								07/30/2024

FROM 5.00000ml of W3112 + 0.00100ml of PP23538 + 0.00250ml of PP23534 = Final Quantity: 5.004 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 Ankita Jodhani
237	10 PPB ICC GRO STD	PP23541	07/30/2024	01/22/2025	Yogesh Patel	None	None	07/20/2024
								07/30/2024

FROM 5	5.00000ml of W3112 + 0	0.00200ml of PP23538 -	- 0.00500ml of PP23534	= Final Quantity: 5.007 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>	Ankita Jodhani
239	20 PPB ICC GRO STD	PP23542	07/30/2024	01/22/2025	Yogesh Patel	None	None	
								07/30/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml





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
235	50 PPB ICC GRO STD	PP23543	07/30/2024	01/22/2025	Yogesh Patel	None	None	07/30/2024
								0773072024

FROM	5.00000ml of W3112 + 0.01000ml of PP23538 + 0.02500ml of PP23534 = Final Quantity: 5.035 ml
<u> FROIVI</u>	0.00000111 01 W0112 - 0.01000111 01 1 20000 - 0.02000111 01 1 20004 - 1 111ai Quantity. 0.000 11

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>	Ankita Jodhani
234	100 PPB ICC GRO STD	PP23544	07/30/2024	01/22/2025	Yogesh Patel	None	None	
								07/30/2024

FROM 5.00000ml of W3112 + 0.02000ml of PP23538 + 0.05000ml of PP23534 = Final Quantity: 5.070 ml





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
241	20 PPB CCC GRO STD	PP23545	07/30/2024	01/22/2025	Yogesh Patel	None	None	07/30/2024
								07/30/2024

FROM	5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534	= 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>	Ankita Jodhani
241	20 PPB CCC GRO STD	PP23546	07/30/2024	01/22/2025	Yogesh Patel	None	None	
								07/30/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml





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 Ankita Jodhani
241	20 PPB CCC GRO STD	PP23547	07/30/2024	01/22/2025	Yogesh Patel	None	None	07/30/2024
								0773072024

FROM	5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23534 = Final Quantity: 5.014 ml
I IXOIVI	0.000001111 01 170 112 × 0.00 1001111 011 1 20001 1 111111 Qualitaty. 0.01 1 111

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Ankita Jodhani
240	20 PPB ICV GRO STD	PP23548	07/30/2024	01/22/2025	Yogesh Patel	None	None	07/30/2024

FROM 5.00000ml of W3112 + 0.00400ml of PP23538 + 0.01000ml of PP23535 = 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)	A0161776	01/25/2025	07/25/2024 / yogesh	02/10/2021 / Sohil	P11121
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30065 / GRO Mix (EPA)	A0155991	01/25/2025	07/25/2024 / yogesh	09/11/2020 / DHAVAL	P9826
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	05/31/2028	11/27/2023 / yogesh	09/11/2020 / DHAVAL	V11252
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)	22L0562016	01/22/2025	07/22/2024 / SAM	02/06/2024 / SAM	V14143
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 / lwona	07/03/2024 / Iwona	W3112



CERTIFIED REFERENCE MATERIAL



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

Certificate of Analysis





www.restek.com

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. : 30065 Lot No.: A0161776

Description: Gasoline Range Organics Mix (EPA)

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

1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date: July 31, 2027 Storage: 0°C or colder

CERTIFIED VALUES

Elution Order	Compour	ıd	Grav. ((weight/v			Expanded (95% C.L.;	Uncertainty K=2)	
1	2-Methylpentane CAS # 107-83-5 Purity 99%	(Lot MKCB1674V)	1,507.0	μg/mL	+/- +/- +/-	8.9511 84.5158 86.4925	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	2,2,4-Trimethylpentane (isooctane CAS # 540-84-1 Purity 99%	(Lot SHBF8066V)	1,511.0	μg/mL	+/- +/- +/-	8.9749 84.7402 86.7221	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3	n-Heptane (C7) CAS # 142-82-5 Purity 98%	(Lot SHBK8626)	498.8	μg/mL	+/- +/- +/-	2.9628 27.9749 28.6292	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
4	Benzene CAS # 71-43-2 Purity 99%	(Lot SHBK5679)	500.0	μg/mL	+/- +/- +/-	2.9698 28.0411 28.6969	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
5	Toluene CAS # 108-88-3 Purity 99%	(Lot MKCH9232)	1,510.0	μg/mL	+/- +/- +/-	8.9689 84.6841 86.6647	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
6	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBL0706)	504.0	μg/mL	+/- +/- +/-	2.9936 28.2654 28.9265	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
7	m-Xylene CAS # 108-38-3 Purity 99%	(Lot SHBL0265)	1,005.0	μg/mL	+/- +/- +/-	5.9694 56.3626 57.6808	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

14-May-2020 rev. 1 of 3

8	o-Xylene CAS # 95-47-6 Purity 99%	(Lot SHBK7739)	1,007.0 μg/mL	+/- 5.9813 +/- 56.4747 +/- 57.7956	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
9	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 99%	(Lot WXBC4246V)	1,008.0 μg/mL	+/- 5.9872 +/- 56.5308 +/- 57.8530	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol

> CAS# 67-56-1 99% **Purity**

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:

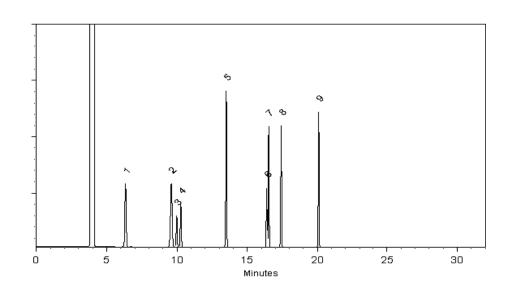
200°C

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.

Date Mixed:

15-Jun-2020

Balance: B251644995

Date Passed:

17-Jun-2020

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

14-May-2020 rev. 2 of 3

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A
 correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the
 parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed
uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability
uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined \ stressed} = \ k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage \ stability}^2 + U_{shipping \ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping
 conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard
 conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily
using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

• Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

14-May-2020 rev. 3 of 3

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis





Material No.: 9077-02

Batch No.: 22L0562016

Manufactured Date: 2022-10-26 Expiration Date: 2025-10-25

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	0.2 ppm 0.2
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

