

Q3015

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: fb091725,
<b>Standard ID</b> : PP24717,PP24719,P	P24867,PP24868,PP24869,PP24870,PP24871,PP24927,PP24928,
Chemical ID : P13537,V11252,V146	529,W3112,



Aliance TECHNICAL GROUP

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## 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
231	10 PPM GRO STD 1ST SOURCE	PP24717	07/14/2025	01/09/2026	Yogesh Patel	None	None	09/24/2025
								00/24/2020

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Abdul Mirza
3619	25 PPM AAA-TFT Surg	PP24719	07/14/2025	01/09/2026	Yogesh Patel	None	None	
								09/24/2025

**FROM** 0.10000ml of V11252 + 9.90000ml of V14629 = Final Quantity: 10.000 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>PipetteID</u>	Supervised By  Abdul Mirza
238	5 PPB ICC GRO STD	PP24867	08/21/2025	01/09/2026	Yogesh Patel	None	None	
								09/24/2025

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>	Abdul Mirza
237	10 PPB ICC GRO STD	PP24868	08/21/2025	01/09/2026	Yogesh Patel	None	None	
								09/24/2025

FROM 5.00000ml of W3112 + 0.00200ml of PP24719 + 0.00500ml of PP24717 = Final Quantity: 5.007 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>PipetteID</u>	Supervised By  Abdul Mirza
239	20 PPB ICC GRO STD	PP24869	08/21/2025	01/09/2026	Yogesh Patel	None	None	
								09/24/2025

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>	Abdul Mirza
235	50 PPB ICC GRO STD	PP24870	08/21/2025	01/09/2026	Yogesh Patel	None	None	
								09/24/2025

FROM 5.00000ml of W3112 + 0.01000ml of PP24719 + 0.02500ml of PP24717 = Final Quantity: 5.035 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>PipetteID</u>	Supervised By  Abdul Mirza
234	100 PPB ICC GRO STD	PP24871	08/21/2025	01/09/2026	Yogesh Patel	None	None	09/24/2025
								00/2 1/2020

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
241	20 PPB CCC GRO STD	PP24927	09/17/2025	09/18/2025	Amit Patel	None	None	_
								09/17/2025

FROM 5.00000ml of W3112 + 0.00400ml of PP24719 + 0.01000ml of PP24717 = Final Quantity: 5.014 ml





Pest/Pcb STANDARD PREPARATION LOG

R	ecipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
	241	20 PPB CCC GRO STD	PP24928	09/17/2025	09/18/2025	Amit Patel	None	None	00/47/2025
									09/17/202

								09/17/2025		
FROM	5.00000ml of W3112 + 0.00400ml of PP24719 + 0.01000ml of PP24717 = 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 30	0065 / GRO Mix (EPA)	A0208729	01/14/2026	07/14/2025 / yogesh	09/23/2024 / yogesh	P13537

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)	2310762004	01/09/2026	07/07/2025 / SAM	11/26/2024 / SAM	V14629

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

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 (CH <sub>3</sub> OH) (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



## CERTIFIED REFERENCE MATERIAL







110 Benner Circle Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

# **Certificate of Analysis**

chromatographic plus

#### 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.: A0208729

**Description:** 

Gasoline Range Organics Mix (EPA)

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

1mL/ampul

**Container Size: Expiration Date:**  2 mL

April 30, 2031

Pkg Amt:

> 1 mL

Storage: 0°C or colder

Ship:

**Ambient** 

CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylpentane	107-83-5	MKCR9584	99%	1,502.0 μg/mL	+/- 84.3956
2	2,2,4-Trimethylpentane ( isooctane )	540-84-1	SHBP5702	99%	1,504.0 μg/mL	+/- 84.5080
3	n-Heptane (C7)	142-82-5	044743T03G	99%	504.0 μg/mL	+/- 28.3192
4	Benzene	71-43-2	MKCS3357	99%	503.0 μg/mL	+/- 28.2630
5	Toluene	108-88-3	MKCS9989	99%	1,508.0 μg/mL	+/- 84.7327
6	Ethylbenzene	100-41-4	094632T20F	99%	503.0 μg/mL	+/- 28.2630
7	m-Xylene	108-38-3	SHBN6673	99%	1,008.0 μg/mL	+/- 56.6383
8	o-Xylene	95-47-6	SHBN5105	99%	1,005.0 μg/mL	+/- 56.4697
9	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	1,004.0 μg/mL	+/- 56.4136

<sup>\*</sup> Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent:

P&T Methanol

CAS# 67-56-1 Purity 99%



## **Quality Confirmation Test**

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

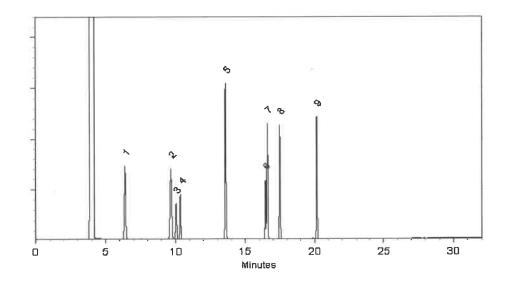
Det. Type:

FID

Split Vent:

40 ml/min

Inj. Vol 1µl



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.

Wilner Torres - Operation Tech!

Date Mixed:

06-Mar-2024

Balance Serial #

B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

08-Mar-2024

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

#### **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 expanded
uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability
uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

• The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.