

Prep Standard - Chemical Standard Summary

Order ID : 03572

Test : Gasoline Range Organics

Prepbatch ID :

Sequence ID/Qc Batch ID: FB071123,

Standard ID :

PP22090,PP22091,PP22092,PP22155,PP22156,PP22157,PP22158,PP22159,PP22160,PP22341,PP22342,PP22343,

Chemical ID : P9824,V11250,V13658,W2606,

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Recipe ID 3619	NAME 25 PPM AAA-TFT Surg	<u>NO.</u> PP22090	Prep Date 06/02/2023	Expiration Date 12/02/2023	<u>Prepared</u> <u>By</u> Yogesh Patel	<u>ScaleID</u> None	PipetteID None	Supervised By Ankita Jodhani 06/05/2023
<u>FROM</u>	0.10000ml of V11250 + 9.90000ml of	V13658 =	rinal Quantity	/: 10.000 ml				
Decine				Evaluation	Dronorod			Supervised By

Recipe ID 231	NAME 10 PPM GRO STD 1ST SOURCE	<u>NO.</u> PP22091	Prep Date 06/02/2023	Expiration Date 12/02/2023	<u>Prepared</u> <u>By</u> Yogesh Patel	<u>ScaleID</u> None	PipetteID None	Supervised By Ankita Jodhani 06/05/2023
FROM	0.11100ml of P9824 + 9.89000ml of V	l /13658 = F	inal Quantity:	10.000 ml				00/03/2023

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Recipe ID 233	NAME 10 PPM GRO STD 2nd SOURCE	<u>NO.</u> PP22092	Prep Date 06/02/2023	Expiration Date 12/02/2023	Prepared By Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 06/05/2023
FROM	0.11100ml of P9824 + 9.89000ml of \	/13658 = F	inal Quantity:	10.000 ml				

<u>Recipe</u> <u>ID</u> 238	NAME 5 PPB ICC GRO STD	<u>NO.</u> PP22155	Prep Date 06/26/2023	Expiration Date 12/02/2023	<u>Prepared</u> <u>By</u> Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 06/26/2023
FROM	5.00000ml of W2606 + 0.00100ml of	PP22090 +	0.00250ml of	PP22091 = Fi	nal Quantity: 5.0)04 ml		00/20/2023

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Recipe ID 237	NAME 10 PPB ICC GRO STD	<u>NO.</u> PP22156	Prep Date 06/26/2023	Expiration Date 12/02/2023	Prepared By Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 06/26/2023
<u>FROM</u>	5.00000ml of W2606 + 0.00200ml of	PP22090 +	0.00500ml of	PP22091 = Fi	nal Quantity: 5.0	007 ml		
Recipe	NAME	NO	Dran Data	Expiration	Prepared	SeelelD	DinettelD	Supervised By

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date		By	<u>ScaleID</u>	PipettelD	Ankita Jodhani
239	20 PPB ICC GRO STD	PP22157	06/26/2023	12/02/2023	Yogesh Patel	None	None	
								06/26/2023
FROM	5.00000ml of W2606 + 0.00400ml of	PP22090 +	0.01000ml of	PP22091 = Fi	nal Quantity: 5.0	014 ml		

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Recipe ID 235	NAME 50 PPB ICC GRO STD	<u>NO.</u> PP22158	Prep Date 06/26/2023	Expiration Date 12/02/2023	Prepared By Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 06/26/2023
FROM	5.00000ml of W2606 + 0.01000ml of	PP22090 +	0.02500ml of	PP22091 = Fi	nal Quantity: 5.0	035 ml		
Recipe				Expiration	Prepared			Supervised By

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Ankita Jodhani
234	100 PPB ICC GRO STD	PP22159	06/26/2023	12/02/2023	Yogesh Patel	None	None	
								06/26/2023
FROM	5.00000ml of W2606 + 0.02000ml of	PP22090 +	0.05000ml of	PP22091 = Fi	nal Quantity: 5.0	070 ml		

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Recipe ID 240	NAME 20 PPB ICV GRO STD	<u>NO.</u> PP22160	Prep Date 06/26/2023	Expiration Date 12/02/2023	Prepared By Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 06/26/2023
<u>FROM</u>	I 5.00000ml of W2606 + 0.00400ml of	I PP22090 +	0.01000ml of	PP22092 = Fi	nal Quantity: 5.0	014 ml		00/20/2020
Recipe				Expiration	Prepared			Supervised By

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Ankita Jodhani
241	20 PPB CCC GRO STD	PP22341	07/11/2023	12/02/2023	Yogesh Patel	None	None	
								07/11/2023
FROM	5.00000ml of W2606 + 0.00400ml of	PP22090 +	0.01000ml of	PP22091 = Fi	nal Quantity: 5.0	014 ml		

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Recipe ID 241	NAME 20 PPB CCC GRO STD	<u>NO.</u> PP22342	Prep Date 07/11/2023	Expiration Date 12/02/2023	Prepared By Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 07/11/2023
<u>FROM</u>	5.00000ml of W2606 + 0.00400ml of	PP22090 +	0.01000ml of	PP22091 = Fi	nal Quantity: 5.0)14 ml		
Recipe				Expiration	Prepared			Supervised By

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>	PipettelD	Ankita Jodhani
241	20 PPB CCC GRO STD	PP22343	07/11/2023	12/02/2023	Yogesh Patel	None	None	
								07/11/2023
FROM	5.00000ml of W2606 + 0.00400ml of	PP22090 +	0.01000ml of	PP22091 = Fi	nal Quantity: 5.0	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	06/19/2023	12/19/2022 / yogesh	09/11/2020 / DHAVAL	P9824
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)	22C2862010	11/16/2023	05/16/2023 / SAM	02/23/2023 / SAM	V13658
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

Avantor



Material No.: 9077-02 Batch No.: 22C2862010 Manufactured Date: 2022-02-15 Expiration Date: 2025-02-14 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	0.3
Titrable Base (µeq/g)	≤ 0.10	< 0.02
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

James Techies

Jamie Ethier Vice President Global Quality



* CERTIFIED REFERENCE MATERIAL

Certificate of Analysis





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

Bellefonte, PA 16823-8812

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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		Compound		Grav. Conc. (weight/volume)			Expanded Uncertainty (95% C.L.; K=2)		
1		ntane 07-83-5 8%	(Lot MKCB1674V)	1,505.3	μg/mL	+/- +/- +/-	8.9409 84.4194 86.3938	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	CAS # 54	thylpentane (isooctane) 40-84-1 9%) (Lot SHBD2922V)	1,504.0	µg/mL	+/- +/- +/-	8.9333 84.3476 86.3203	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3		C7) 42-82-5 8%	(Lot SHBK8626)	500.8	µg/mL	+/- +/- +/-	2.9745 28.0848 28.7417	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
4		1-43-2 9%	(Lot SHBK5679)	501.0	µg/mL	+/- +/- +/-	2.9758 28.0972 28.7543	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
5)8-88-3)%	(Lot MKCH9232)	1,505.0	μg/mL	+/- +/- +/-	8.9392 84.4037 86.3777	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
6	Ethylbenzen CAS # 10 Purity 99	0-41-4	(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 # 10 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)

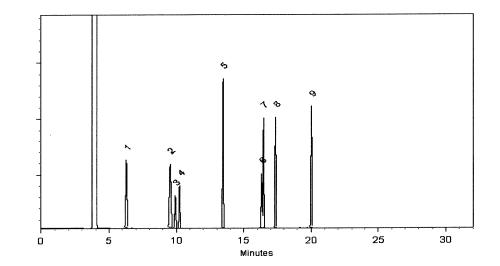
Carrier Gas: hydrogen-constant pressure 11.0 psi.

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

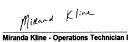
Inj. Temp: 200°C

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.



ns 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

Certificate of Analysis



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

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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.: <u>A0158026</u>	1/11250	\bigcirc
Description :	a,a,a-Trifluorotoluene Standard			(\leq)
	a,a,a-Trifluorotoluene 2500µg/mL	10	\bigcirc	
Container Size :	2 mL	Pkg Amt: > 1 mL	V11239	
Expiration Date :	May 31, 2028	Storage: 0°C or colder		

CERTIFIED VALUES

Elution Order	Co	ompound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty 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:

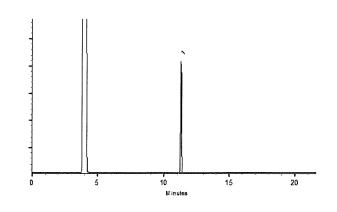
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp: 200°C

Det. Temp: 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.

Dustin Dustin Lidgett - Mix Technician Fang-Yun Lo - QC Anisyst

20-Feb-2020 Balance: B251644995

Date Passed: 24-Feb-2020

Date Mixed:

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