

Prep Standard - Chemical Standard Summary

 Order ID :
 O1233

 Test :
 PCB

Prepbatch ID: PB150372,

Sequence ID/Qc Batch ID: pp012023,

Standard ID:

EP2279,EP2290,EP2294,PP21357,PP21413,PP21417,PP21419,PP21420,PP21421,PP21422,PP21423,PP21424,PP21425,PP21426,PP21426,PP21428,PP21429,PP21430,PP21431,PP21432,PP21433,PP21434,PP21435,PP21436,PP21436,PP21437,PP21438,PP21439,PP21440,PP21441,PP21442,PP21443,PP21444,PP21445,PP21446,PP21447,PP21448,PP21449,PP21450,PP21451,PP21452,PP21453,PP21454,PP21455,PP21456,PP21457,PP21458,PP21459,PP21460,PP21461,PP21462,PP21463,PP21464,PP21465,PP21466,PP21467,PP21468,PP21469,PP21470,PP21471,PP21472,PP21473,PP21474,PP21475,

Chemical ID:

E2865,E3412,E3436,E3453,E3454,E3455,E3456,M5211,P10092,P10101,P10154,P10479,P10490,P10494,P10496,P10786,P10787,P11048,P11053,P11366,P11367,P11493,P11503,P11508,P11515,P11583,P11593,W2606,

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Extractions STANDARD PREPARATION LOG

Recipe ID 3923	NAME Baked Sodium Sulfate	NO. EP2279	Prep Date 11/28/2022	<u>Prepared</u> <u>By</u> Rajesh Parikh	<u>ScaleID</u> None	PipetteID None	Supervised By RUPESHKUMAR SHAH 11/28/2022
FROM	4000.00000gram of E3412 = Final Q	uantity: 400	00.000 gram				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By RUPESHKUMAR
314	1.1 H2SO4 SOLN	EP2290	01/17/2023	07/17/2023	Rajesh Parikh	None	None	SHAH 01/17/2023

FROM 1000.00000ml of M5211 + 1000.00000ml of W2606 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID 230	NAME 1:1ACETONE/HEXANE	NO. EP2294	Prep Date 01/17/2023		Prepared By Rajesh Parikh	<u>ScaleID</u> None	PipetteID None	Supervised By RUPESHKUMAR SHAH 01/17/2023
FROM 8000.00000ml of E3455 + 8000.00000ml of E3456 = Final Quantity: 16000.000 ml								

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Ankita Jodhani
465	200 PPB Pest/PCB Surrogate Spike	PP21357	01/10/2023	06/08/2023	Abdul Mirza	None	None	01/12/2023

FROM 1.00000ml of P10786 + 999.00000ml of E3436 = Final Quantity: 1000.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

<u> </u>	Recipe <u>ID</u> 3857	NAME 5000 PPB PCB SPIKE SOLUTION 2ND SOURCE	NO. PP21413	Prep Date 01/16/2023		Prepared By Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023	
	FROM 0.50000ml of P11366 + 99.50000ml of E3454 = Final Quantity: 100.000 ml									

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
84	Pest/PCB Surrogate Stock 20 PPM	PP21417	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P10787 + 9.00000ml of E3453 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

<u> </u>	Recipe ID 404	NAME AR1660 100 PPM Stock Solution 2nd Source	NO. PP21419	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 01/16/2023
	FROM	1.00000ml of P11367 + 9.00000ml of	E3454 = F	inal Quantity:	10.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
202	AR1660 1000/100 ppb working solution 1st source	PP21420	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.10000ml of P10479 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 203	NAME AR1660 750 PPB STD	NO. PP21421	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.25000ml of E3453 + 0.75000ml of l	PP21420 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
204	AR1660 500 PPB STD	PP21422	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.50000ml of E3453 + 0.50000ml of PP21420 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 205	NAME AR1660 250 PPB STD	NO. PP21423	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.75000ml of E3453 + 0.25000ml of	PP21420 =	Final Quantit	y: 1.000 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>	Yogesh Patel
206	AR1660 50 PPB STD	PP21424	01/16/2023	07/03/2023	Ankita Jodhani	None	None	
								01/16/2023

FROM 0.90000ml of E3453 + 0.10000ml of PP21422 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 213	NAME AR1221 1000 PPB WORKING	NO.	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	ScaleID None	<u>PipettelD</u> None	Supervised By Yogesh Patel
210	SOLUTION	1121425	01/10/2020	01700/2020	Ankita Journam	None	None	01/16/2023
FROM	FROM 0.10000ml of P10490 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml							

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1079	AR1221 750 PPB STD	PP21426	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.25000ml of E3453 + 0.75000ml of PP21425 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 222	NAME AR1221 500 PPB STD	NO. PP21427	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of l	L PP21425 =	I Final Quantit	l y: 1.000 ml				01/16/2023

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>	Yogesh Patel
1080	AR1221 250 PPB STD	PP21428	01/16/2023	07/03/2023	Ankita Jodhani	None	None	
								01/16/2023

FROM 0.75000ml of E3453 + 0.25000ml of PP21425 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1081	NAME AR1221 50 PPB STD	NO. PP21429	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.90000ml of E3453 + 0.10000ml of I	PP21427 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
214	AR1232 1000 PPB WORKING SOLUTION	PP21430	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.10000ml of P11583 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1063	NAME AR1232 750 PPB STD	NO. PP21431	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipettelD None	Supervised By Yogesh Patel 01/16/2023
FROM	0.25000ml of E3453 + 0.75000ml of	PP21430 =	Final Quantit	y: 1.000 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>	Yogesh Patel
223	AR1232 500 PPB STD	PP21432	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Ü
								01/16/2023

FROM 0.50000ml of E3453 + 0.50000ml of PP21430 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1064	NAME AR1232 250 PPB STD	NO. PP21433	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.75000ml of E3453 + 0.25000ml of l	PP21430 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1065	AR1232 50 PPB STD	PP21434	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.90000ml of E3453 + 0.10000ml of PP21432 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

	Recipe ID 215	NAME AR1242 1000 PPB WORKING	NO. PP21435	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipettelD None	Supervised By Yogesh Patel
ŀ	FROM	0.10000ml of P11048 + 99.40000ml of	of E3453 + ().50000ml of I	 PP21417 = Fir	al Quantity: 100	0.000 ml		01/16/2023

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	<u>PipetteID</u>	Supervised By
1067	AR1242 750 PPB STD		01/16/2023		Ankita Jodhani	None	None	Yogesh Patel
1007	AK1242 730 11 B 01B	1121400	01/10/2020	0170372023	Allikita oodilalii	None	None	01/16/2023

FROM 0.25000ml of E3453 + 0.75000ml of PP21435 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 224	NAME AR1242 500 PPB STD	NO. PP21437	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of	I PP21435 =	Final Quantity	y: 1.000 ml				3.1.5/2020

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>	Yogesh Patel
1068	AR1242 250 PPB STD	PP21438	01/16/2023	07/03/2023	Ankita Jodhani	None	None	·
								01/16/2023

FROM 0.75000ml of E3453 + 0.25000ml of PP21435 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

NAME AR1242 50 PPB STD	NO. PP21439	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
0.90000ml of E3453 + 0.10000ml of I	PP21437 =	Final Quantit	y: 1.000 ml				
	AR1242 50 PPB STD	AR1242 50 PPB STD PP21439	AR1242 50 PPB STD PP21439 01/16/2023	NAME NO. Prep Date Date	NAME NO. Prep Date Date By AR1242 50 PPB STD PP21439 01/16/2023 07/03/2023 Ankita Jodhani	NAME NO. Prep Date Date By ScaleID AR1242 50 PPB STD PP21439 01/16/2023 07/03/2023 Ankita Jodhani None	NAMENO.Prep DateDateByScaleIDPipettelDAR1242 50 PPB STDPP2143901/16/202307/03/2023Ankita JodhaniNoneNone

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
216	AR1248 1000 PPB WORKING STD	PP21440	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.10000ml of P11053 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1075	NAME AR1248 750 PPB STD	NO. PP21441	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.25000ml of E3453 + 0.75000ml of	PP21440 =	Final Quantit	y: 1.000 ml				01110/2020

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
225	AR1248 500 PPB STD	PP21442	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.50000ml of E3453 + 0.50000ml of PP21440 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1076	NAME AR1248 250 PPB STD	NO. PP21443	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.75000ml of E3453 + 0.25000ml of l	PP21440 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1077	AR1248 50 PPB STD	PP21444	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.90000ml of E3453 + 0.10000ml of PP21442 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 217	NAME AR1254 1000 PPB WORKING STD	NO. PP21445	Prep Date 01/16/2023		Prepared By Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023		
FROM	FROM 0.10000ml of P10494 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml									

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1071	AR1254 750 PPB STD	PP21446	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.25000ml of E3453 + 0.75000ml of PP21445 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 226	NAME AR1254 500 PPB STD	NO. PP21447	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of	PP21445 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1072	AR1254 250 PPB STD	PP21448	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.75000ml of E3453 + 0.25000ml of PP21445 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 1073	NAME AR1254 50 PPB STD	NO. PP21449	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.90000ml of E3453 + 0.10000ml of l	 PP21447	I Final Quantit	y: 1.000 ml				01/16/2023

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1529	AR1262 1000 PPB Working Solution	PP21450	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.10000ml of P10496 + 99.40000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3753	NAME AR1262 750 PPB STD	NO. PP21451	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.25000ml of E3453 + 0.75000ml of	PP21450 =	Final Quantit	y: 1.000 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>	Yogesh Patel
1530	AR1262 500 PPB STD	PP21452	01/16/2023	07/03/2023	Ankita Jodhani	None	None	
								01/16/2023

FROM 0.50000ml of E3453 + 0.50000ml of PP21450 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3754	NAME AR1262 250 PPB STD	NO. PP21453	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.75000ml of E3453 + 0.25000ml of	PP21450 =	Final Quantit	y: 1.000 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>	Yogesh Patel
3755	AR1262 50 PPB STD	PP21454	01/16/2023	07/03/2023	Ankita Jodhani	None	None	Ü
								01/16/2023

FROM 0.90000ml of E3453 + 0.10000ml of PP21452 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	ScaleID	<u>PipetteID</u>	Supervised By
1532	AR1268 1000 PPB Working Solution	PP21455	01/16/2023		Ankita Jodhani	None	None	Yogesh Patel 01/16/2023
FROM	0.10000ml of P11593 + 99.40000ml of	of E3453 + (0.50000ml of l	PP21417 = Fir	nal Quantity: 100	.000 ml		

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3820	AR1268 750 PPB STD	PP21456	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.25000ml of E3453 + 0.75000ml of PP21455 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 1533	NAME AR1268 500 PPB STD	NO. PP21457	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of I	PP21455 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3821	AR1268 250 PPB STD	PP21458	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 0.75000ml of E3453 + 0.25000ml of PP21455 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3822	NAME AR1268 50 PPB STD	NO. PP21459	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.90000ml of E3453 + 0.10000ml of l	PP21457 =	Final Quantit	y: 1.000 ml				

Recipe	NAME	NO	Draw Data	Expiration	<u>Prepared</u>	SaalalD	DinettelD	Supervised By
<u>ID</u> 405	NAME AR1660 1000/100 PPB ICV STD	NO. PP21460	Prep Date 01/16/2023		<u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Yogesh Patel
								01/16/2023

FROM 98.50000ml of E3453 + 0.50000ml of PP21417 + 1.00000ml of PP21419 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 406	NAME AR1660 500 PPB ICV	NO. PP21461	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of I	PP21460 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3789	AR1221 1000 PPB WORKING SOL.2ND SOURCE(AGILENT)	PP21462	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P11493 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3790	NAME AR1221 500 PPB ICV(AGILENT)	NO. PP21463	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of I	PP21462 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1887	AR1232 1000 PPB Working Sol. 2nd Source	<u>PP21464</u>	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P10101 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1888	NAME AR1232 500 PPB ICV	NO. PP21465	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of l	PP21464 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1889	AR1242 1000 PPB Working Sol. 2nd Source	PP21466	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P11503 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1891	NAME AR1242 500 PPB ICV	NO. PP21467	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of I	PP21466 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1890	AR1248 1000 PPB Working Sol. 2nd Source	PP21468	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P11508 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1892	NAME AR1248 500 PPB ICV	NO. PP21469	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of l	PP21468 =	Final Quantity	y: 1.000 ml	'			

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
1893	AR1254 1000 PPB Working Sol. 2nd Source	PP21470	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P11515 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 1894	NAME AR1254 500 PPB ICV	NO. PP21471	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of I	PP21470 =	Final Quantit	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3757	AR1262 1000 PPB Working Solution second source	PP21472	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P10154 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe <u>ID</u> 3758	NAME AR1262 500 PPB STD ICV	NO. PP21473	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of I	PP21472 =	Final Quantity	y: 1.000 ml				

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
3817	AR1268 1000 ppb Working Soln. 2nd source	<u>PP21474</u>	01/16/2023	07/03/2023	Ankita Jodhani	None	None	01/16/2023

FROM 1.00000ml of P10092 + 98.50000ml of E3453 + 0.50000ml of PP21417 = Final Quantity: 100.000 ml

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Pest/Pcb STANDARD PREPARATION LOG

Recipe ID 3823	NAME AR1268 500 PPB STD ICV	NO. PP21475	Prep Date 01/16/2023		<u>Prepared</u> <u>By</u> Ankita Jodhani	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 01/16/2023
FROM	0.50000ml of E3453 + 0.50000ml of	I PP21474 =	I Final Quantity	y: 1.000 ml				01/10/2023



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	139404	10/23/2023	10/18/2022 / Rajesh	10/13/2022 / Rajesh	E3412
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22E1562001	06/08/2023	12/08/2022 / Rajesh	12/05/2022 / Rajesh	E3436
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	22G0362002	07/03/2023	01/03/2023 / Rajesh	01/03/2023 / Rajesh	E3453
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	22J2461015	07/10/2023	01/10/2023 / Rajesh	01/03/2023 / Rajesh	E3454
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	22G0362002	07/16/2023	01/16/2023 / Rajesh	01/11/2023 / Rajesh	E3455



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	22J0461011	07/17/2023	01/17/2023 / Rajesh	01/11/2023 / Rajesh	E3456
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	22D0862014	01/20/2025	08/22/2022 /	04/26/2022 / mohan	M5211
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-382-1 / Aroclor 1268	0006478417	07/16/2023	01/16/2023 / Ankita	12/03/2020 / Abdul	P10092
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-302-1 / Aroclor 1232	CF-2197A	07/16/2023	01/16/2023 / Ankita	12/03/2020 / Abdul	P10101
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-372-1 / Aroclor 1262	0006499800	07/16/2023	01/16/2023 / Ankita	01/12/2021 / Abdul	P10154
		Lot #	Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	Lot #	Date	Opened By	Received By	Lot #



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32007 / PCB Mix, Aroclor 1221, 1000ug/mL, Hexane, 1mL/ampul	A0159630	07/13/2023	01/13/2023 / Ankita	03/19/2021 / Abdul	P10490
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul	A0160220	07/13/2023	01/13/2023 / Ankita	03/19/2021 / Abdul	P10494
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane	A0167722	07/13/2023	01/13/2023 / Ankita	03/19/2021 / Ankita	P10496
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone,	A0172332	07/10/2023	01/10/2023 / Abdul	06/17/2021 / dhaval	P10786
	1mL					
Supplier		Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier Restek	1mL	Lot # A0172332	1 -	-		
	ItemCode / ItemName 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone,		Date	Opened By 01/16/2023 /	Received By 06/17/2021 /	Lot #



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul	A0162497	07/13/2023	01/13/2023 / Ankita	09/03/2021 / Abdul	P11053
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	07/16/2023	01/16/2023 / Ankita	02/03/2022 / yogesh	P11366
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	033121	07/16/2023	01/16/2023 / Ankita	02/03/2022 / yogesh	P11367
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-292-1 / Aroclor 1221	0006535333	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11493
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-312-1 / Aroclor 1242	0006665550	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11503
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Agilent Technologies	PP-342-1 / Aroclor 1248	0006626997	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11508



CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	PP-352-1 / Aroclor 1254	CS-2321	07/16/2023	01/16/2023 / Ankita	02/21/2022 / Ankita	P11515
Supplier	ItemCode / ItemName	Lot #	Expiration	Date Opened /	Received Date /	Chemtech
Supplier	itemcode / itemname	LOI #	Date	Opened By	Received By	Lot #
Restek	32008 / PCB Mix, Aroclor 1232, 1000ug/mL, Hexane, 1mL/ampul	A0173309	07/13/2023	01/13/2023 / Ankita	03/18/2022 / Abdul	P11583
	·					
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane	A0181782	07/13/2023	01/13/2023 / Ankita	03/18/2022 / Abdul	P11593
		1			I	
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

https://Absolutestandards.com

Certified Reference Material CRM





Absolute Standards, Inc.

800-368-1131

www.absolutestandards.com

CERTIFIED WEIGHT REPORT

CLP PCB'S - Aroclor Mix 033121 Description: Part Number: Lot Number:

233256

Hexane

Lot#

Solvent(s):

Aroclors 1016 & 1260 Ambient (20 °C) 033131 Nominal Concentration (µg/mL): Expiration Date: Recommended Storage:

5E-05 Balance Uncertainty 200.1 **6UTB** 000

NIST Test ID#:

DATE 033121 033121 Prashant Chauhan 33 Pedro L. Rentas 3 Formulated By Reviewed By

(Solvent Safety Info. On Attached pg.) SDS Information CAS# Uncertainty Expanded Actual Weight(g) Actual Weight(g) Target 0.058 Flask Uncertainty Uncertainty Purity Purity £ Conc (ug/mL) Nominal Weight(s) shown below were combined and diluted to (mL): Number ĕ ₽#

orl-rat 1315mg/kg OSHA PEL (TWA) 0.5mg/m3 ≨ 11096-82-5 12674-11-2 Conc (ug/mL) (++-) (ug/mL) 4. 4 1001.4 10001 0.20025 0.20035 0.20007 0.20007 0.0 5 |8 000 1000 020491JC 020491JC 15 2 1. Aroclor 1016 2. Aroclor 1260 Compound

The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

क गय ध

Comments

GC3-Mt Analysis by Melissa Storier

GC3-Mt Analysis by Melissa Storier

Column ID SPB-608 30 meter X 0.53mm X5µm film thickness

Flow rates: Helium (carrier) = 5mL/min. Helium (make-up) = 25mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min

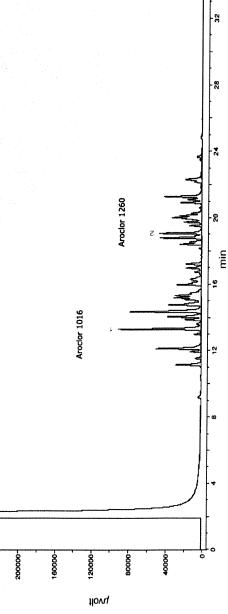
Oven Profile: Temp 1 = 150°C (film 1 = 4 min). Temp 2 = 290°C (filme 2 = 13.5 min)

Rate = 8 C/min. Total run itime = 35 min

Injector temp. = 200°C. FID Temp. = 300°C. FID Signal = Edaq Channel 1

Standard injection = 1.5µL. Range=3

200000



Part # 20064

https://Absolutestandards.com

Certified Reference Material CRM





Absolute Standards, Inc.

800-368-1131

www.absolutestandards.com

CERTIFIED WEIGHT REPORT

CLP PCB'S - Aroclor Mix 033121 Description: Part Number: Lot Number:

233256

Hexane

Lot#

Solvent(s):

Aroclors 1016 & 1260 Ambient (20 °C) 033131 Nominal Concentration (µg/mL): Expiration Date: Recommended Storage:

5E-05 Balance Uncertainty 200.1 **6UTB** 000

NIST Test ID#:

DATE 033121 033121 Prashant Chauhan 33 Pedro L. Rentas 3 Formulated By Reviewed By

(Solvent Safety Info. On Attached pg.) SDS Information CAS# Uncertainty Expanded Actual Weight(g) Actual Weight(g) Target 0.058 Flask Uncertainty Uncertainty Purity Purity £ Conc (ug/mL) Nominal Weight(s) shown below were combined and diluted to (mL): Number ĕ ₽#

orl-rat 1315mg/kg OSHA PEL (TWA) 0.5mg/m3 ≨ 11096-82-5 12674-11-2 Conc (ug/mL) (++-) (ug/mL) 4. 4 1001.4 10001 0.20025 0.20035 0.20007 0.20007 0.0 5 |8 000 1000 020491JC 020491JC 15 2 1. Aroclor 1016 2. Aroclor 1260 Compound

The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.

All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

क गय ध

Comments

GC3-Mt Analysis by Melissa Storier

GC3-Mt Analysis by Melissa Storier

Column ID SPB-608 30 meter X 0.53mm X5µm film thickness

Flow rates: Helium (carrier) = 5mL/min. Helium (make-up) = 25mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min

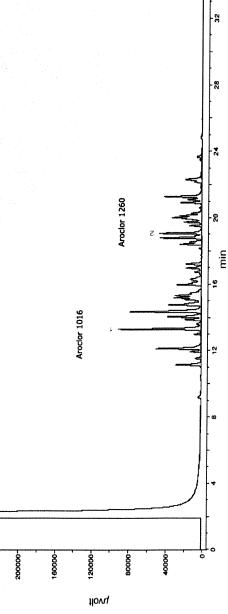
Oven Profile: Temp 1 = 150°C (film 1 = 4 min). Temp 2 = 290°C (filme 2 = 13.5 min)

Rate = 8 C/min. Total run itime = 35 min

Injector temp. = 200°C. FID Temp. = 300°C. FID Signal = Edaq Channel 1

Standard injection = 1.5µL. Range=3

200000



Part # 20064





110 Benner Circle Bellefonte, PA 16823-8812 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.:

32000

Lot No.: A0172332

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

August 31, 2027

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

Ship:

Ambient

use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052 Purity 98%	200.7 μg/mL	+/- 1.1840 μg/mL Gravimetric +/- 6.3622 μg/mL Unstressed +/- 8.3106 μg/mL Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot 3067) Purity 99%	200.2 μg/mL	+/- 1.1810 μg/mL Gravimetric +/- 6.3463 μg/mL Unstressed +/- 8.2897 μg/mL Stressed

Solvent:

Acetone

CAS# 67-64-1

Purity

99%

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

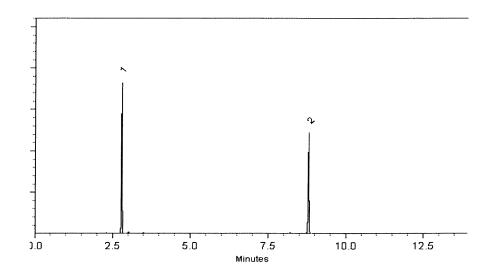
250°C

Det. Temp:

300°C

Det. Type:

ECD



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.

Source Monder
Sam Moodler - Operations Tech I

Date Mixed:

12-May-2021

Balance: B707717271

Alexis Shelow - Operations Tech I

Date Passed:

14-May-2021

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





110 Benner Circle Bellefonte, PA 16823-8812 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.:

32000

Lot No.: A0172332

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

August 31, 2027

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

Ship:

Ambient

use.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 (Lot 0052 Purity 98%	200.7 μg/mL	+/- 1.1840 μg/mL Gravimetric +/- 6.3622 μg/mL Unstressed +/- 8.3106 μg/mL Stressed
2	Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 (Lot 3067) Purity 99%	200.2 μg/mL	+/- 1.1810 μg/mL Gravimetric +/- 6.3463 μg/mL Unstressed +/- 8.2897 μg/mL Stressed

Solvent:

Acetone

CAS# 67-64-1

Purity

99%

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

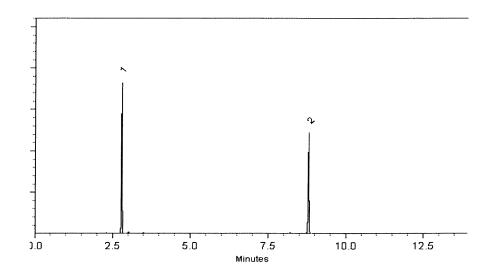
250°C

Det. Temp:

300°C

Det. Type:

ECD



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.

Source Monder
Sam Moodler - Operations Tech I

Date Mixed:

12-May-2021

Balance: B707717271

Alexis Shelow - Operations Tech I

Date Passed:

14-May-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397 Sand
Purified
Washed and Ignited





Material No.: 3382-05

Batch No.: 0000243821

Manufactured Date: 2018/04/09 Retest Date: 2025/04/07

Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCI	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin:

US

Packaging Site:

Paris Mfg Ctr & DC









MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MÉXICO CP 64070 TEL +52 81 13 52 57 57 www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

OCT/28/2021

LOT NUMBER: 139404

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.0
insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (CI)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ga)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	57965 E2050 T4250
Potassium (K)	Max. 0.008%	0.001 % 0.002 %
extraction-concentration suitability	Passes test	
Appearance	Passes test	Passes test
dentification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	Passes test
Retained on US Standard No. 60 sieve	Min. 94%	0.2 %
hrough US Standard No. 60 sieve	Max. 5%	97.6 %
hrough US Standard No. 100 sieve		2.1 %
an ordinata No. 100 216/6	Max. 10%	0.2 %
		, and the state of

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by RP on 10/13/22

RE-02-01, Ed. 3

E 3412

BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis





Material No.: 9254-03

Batch No.: 22E1562001 Manufactured Date: 2022-05-03

Expiration Date: 2025-05-02 Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected for water)	≥ 99.4 %	99.8 %
Color (APHA)	≤ 10	55.6 %
Residue after Evaporation	≤ 1.0 ppm	< 1.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (μeq/g)	≤ 0.6	< 0.1
Water (H₂O)	≤ 0.5 %	0.1 %
FID–Sensitive Impurities (as 2–Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. 57 RP on 1215122







Material No.: 9262-03

Batch No.: 22G0362002

Manufactured Date: 2022-06-17 Expiration Date: 2023-09-16

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/ml.)	≤ 10	2
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/ml.)	≤ 5	2
Assay (Total Saturated C6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.5 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	97 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Reed. by RP on 01/03/23

E 3453







Material No.: 9005-05

Batch No.: 22J2461015 Manufactured Date: 2022-10-20

Retest Date: 2027-10-19 Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH₃)₂CO) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Color (APHA)	= ≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.2 %
Solubility in H₂O	Passes Test	Passes Test
Chloride (CI)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.4 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Frace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Frace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
race Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
race Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
race Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. 57 RP on 01/03/23

E 3454





Material No.: 9005-05 Batch No.: 22J2461015

Test	Specification	Result
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impuritles - Sodium (Na)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impuritles - Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities - Thailium (TI)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	1.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	15 par/ml
Particle Count - 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	4 par/ml

Acetone **CMOS**



Material No.: 9005-05 Batch No.: 22J2461015

Specification Result Test

For Microelectronic Use

Country of Origin: USA Packaging Site: Paris Mfg Ctr & DC







Material No.: 9262-03

Batch No.: 22G0362002

Manufactured Date: 2022-06-17 Expiration Date: 2023-09-16

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	2
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.5 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	97 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H2SO4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. 31 RP on 1/11/23

E 3455







Material No.: 9005-05 Batch No.: 22J0461011

Manufactured Date: 2022-09-29

Retest Date: 2027-09-28 Revision No.: 0

Certificate of Analysis

Assay ((CH ₃) ₂ CO) (by GC, corrected for water) Color (APHA) Residue after Evaporation Titrable Acid (µeq/g) Titrable Base (µeq/q)	≥ 99.5 % ≤ 10 ≤ 5 ppm ≤ 0.3	99.8 % < 5 < 1 ppm
Residue after Evaporation Titrable Acid (µeq/g)	≤ 5 ppm ≤ 0.3	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	• •
Titrable Base (ueg/g)	1 O F	0.2
· · · · · · · · · · · · · · · · · · ·	≤ 0.5	0.1
Water (H₂O)	≤ 0.5 %	0.2 %
Solubility in H₂O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO4)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	4.9 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Frace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Frace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Frace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Frace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Frace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Recd. by	R) on 01/11/23	





Material No.: 9005-05 Batch No.: 22J0461011

Test	Specification	Result
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (TI)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	1.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	4 par/ml
Particle Count - 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

Acetone CMOS





Material No.: 9005-05 Batch No.: 22J0461011

Test Specification Result

For Microelectronic Use

Country of Origin: USA

Packaging Site: Paris Mfg Ctr & DC



Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium





Material No.: 9673-33 Batch No.: 22D0862014

Manufactured Date: 2022-02-23 Retest Date: 2027-02-22

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	< 1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities - Aluminum (AI)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	12.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	4.4 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
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>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium





Material No.: 9673-33 Batch No.: 22D0862014

Test	Specification	Result	
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	6.2 ppb	
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb	
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb	
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.6 ppb	

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC





Certificate of Analysis ISO 17034

Aroclor 1268 Standard

Product Number: PP-382-1

Page:

1 of 1

Lot Number:

0006478417

Lot Issue Date: 24-Jul-2019

Expiration Date: 31-Aug-2027

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

True Value

Aroclor 1268

011100-14-4

RM00937

 $100.3 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois

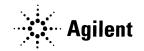
QMS Representative

P10088
P10092



Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System





Certificate of Analysis ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1

Page:

1 of 1

Lot Number:

CF-2197A

Lot Issue Date: 05-Jul-2016

Expiration Date: 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

True Value

Aroclor 1232

011141-16-5

NT01717

 $100.4 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois

QMS Representative

P1002



Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System





Certificate of Analysis ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1

Page:

1 of 1

Lot Number:

0006499800

Lot Issue Date: 04-Nov-2019

Expiration Date: 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

True Value

Aroclor 1262

037324-23-5

RM14263

 $100.0 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

> Monica Bourgeois QMS Representative



Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System







110 Benner Circle Bellefonte, PA 16823-8812 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.:

32039

Lot No.: A0163157

Description:

Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

Expiration Date:

November 30, 2026

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ship: **Ambient**

> 1 mL

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded ((95% C.L.; I		
1	Aroclor 1016 CAS # 12674-11-2 Purity%	(Lot 04)	1,007.0 μg/mL	+/- +/- +/-	5.8683 31.9082 41.6868	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	Aroclor 1260 CAS # 11096-82-5 Purity%	(Lot 07)	1,008.0 µg/mL	+/- +/- +/-	5.8741 31.9399 41.7282	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent:

Hexane

CAS# 110-54-3

Purity

99%

P10476

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

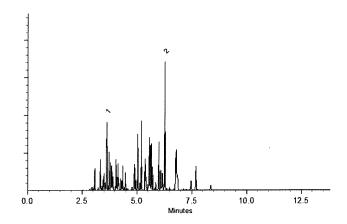
250°C

Det. Temp:

300°C

Det. Type:

ECD



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.

Tom Suckar Mix Technician

Date Mixed:

03-Aug-2020

Balance: B442140311

ustine Albertaon - Operations Tech-ARM QC

Date Passed:

05-Aug-2020

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





Titl Beiller Circle
Bellefonte, PA 16823-8812
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.: 32007 Lot No.: A0159630

Description: Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date : July 31, 2026 Storage: 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution	Compound	Grav. Conc.	Expanded Uncertainty
Order		(weight/volume)	(95% C.L.; K=2)
1	Aroclor 1221 CAS # 11104-28-2 (Lot 8041300) Purity%	1,000.7 μg/mL	+/- 5.9437 μg/mL Gravimetric +/- 31.7284 μg/mL Unstressed +/- 41.4406 μg/mL Stressed

Solvent: Hexane **CAS #** 110-54-3

Purity 99%

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

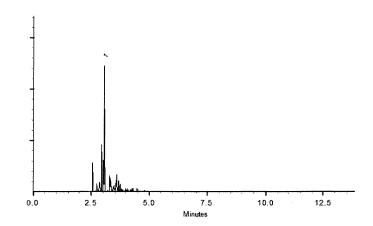
Inj. Temp:

Det. Temp:

300°C

Det. Type:

ECD



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:

06-Apr-2020

Balance: 1128360905

Date Passed:

08-Apr-2020

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





110 Benner Circle Bellefonte, PA 16823-8812 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.: 32011 Lot No.: A0160220

Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

 Container Size :
 2 mL
 Pkg Amt:
 > 1 mL

 Expiration Date :
 July 31, 2026
 Storage:
 25°C nominal

Handling: This product contains PCBs.

CERTIFIED VALUES

Elution	Compound	Grav. Conc.	Expanded Uncertainty
Order		(weight/volume)	(95% C.L.; K=2)
1	Aroclor 1254 CAS # 11097-69-1 (Lot 124-191-B) Purity%	+	F/- 5.9694 μg/mL Gravimetric F/- 31.8658 μg/mL Unstressed F/- 41.6201 μg/mL Stressed

Solvent: Hexane

Description:

CAS # 110-54-3 Purity 99%

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

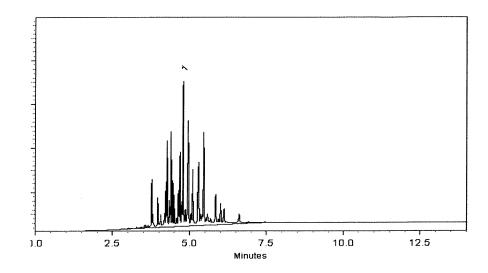
250°C

Det. Temp:

300°C

Det. Type:

FCD.



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.

Mylin Struble - Operations Technician I

Date Mixed:

22-Apr-2020

Balance: 1128360905

Junifu 2 Polling

Jennifer Pollino - Operations Tech-ARM QC

Date Passed:

28-Apr-2020

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





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

Certificate of Analysis





www.restek.com

Purity

99%

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.

Lot No.: A0167722 Catalog No.: 32409

Description: Aroclor® 1262 Standard

Aroclor® 1262 Standard 1,000 µg/mL, 1mL/ampul, Hexane

Container Size:

2 mL Pkg Amt: > 1 mL **Expiration Date:** April 30, 2027 Storage: 25°C nominal

Handling: This product contains PCBs. Ship: **Ambient**

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)			Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor CAS # Purity	1262 37324-23-5 %	(Lot 10849100)	1,004.0	μg/mL	+/- +/- +/-	5.9635 31.8340 41.5787	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Hexane	110-54-3					**************************************		

P10496

AJ.

P10500 03/19/21

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

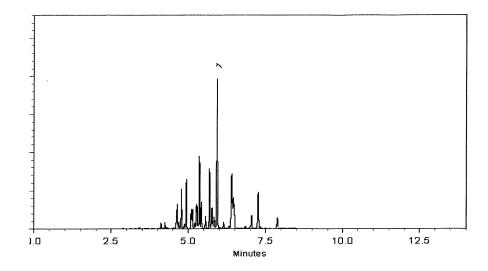
250°C

Det. Temp:

300°C

Det. Type:

ECD .



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.

Sam Moodler - Operations Tech I

Date Mixed:

03-Jan-2021

Balance: B707717271

Marlina THAN
Marlina Cowan - Operations Tech I

Date Passed:

05-Jan-2021

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





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Certificate of Analysis





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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.:

32009

Lot No.: A0167551

Description:

Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt: > 1 mL

Expiration Date:

March 31, 2027

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ship: Ambient

CERTIFIED VALUES

Elution Order		Compound		Grav. Conc. (weight/volume)			Expanded Uncertainty (95% C.L.; K=2)			
1	Aroclor CAS # Purity	1242 53469-21-9 %	(Lot 01141-A)	1,006.0	μg/mL	+/- +/- +/-	5.9753 31.8975 41.6615	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed	
Solvent:	Hexane CAS # Purity	110-54-3 99%								

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

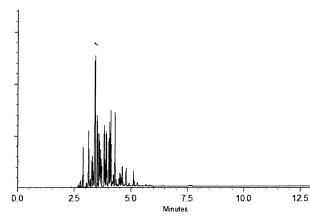
Inj. Temp:

250°C

Det. Temp:

300°C

Det. Type:



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.

Tom Suckar Mix Technician

Date Mixed:

28-Dec-2020

Balance: B707717271

San truton

Date Passed:

30-Dec-2020

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

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* CERTIFIED REFERENCE MATERIAL



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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.:

32010

Lot No.: A0162497

Description:

Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

> 1 mL

Expiration Date:

October 31, 2026

Storage:

25°C nominal

Handling:

This product contains PCBs

CERTIFIED VALUES

Elution Order		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			s e produce de la companya de la co
	Aroclor 1248 CAS # 12672-29-6 Purity%	(Lot 9303900)	1,006.0 μg/mL	+/- +/- +/-	5.9753 31.8975 41.6615	μg/mL μg/mL μg/mL

Solvent:

Hexane

CAS# 110-54-3

Purity

99%

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

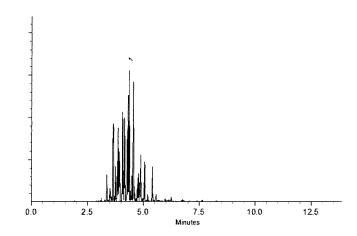
250°C

Det. Temp:

300°C

Det. Type:

ECD



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.

Kylie Struble - Operations Technician

Date Mixed:

13-Jul-2020

Balance: 1128360905

ustine Albertaon - Operations Tech-ARM QC

Date Passed:

16-Jul-2020

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

P 11055
P 11055
P 11055



Certificate of Analysis

P11493 02/21/22 D11497

Product Name:

Aroclor 1221 Standard

Product Number:

PP-292-1

Lot Issue Date:

28-Apr-2020

Lot Number:

0006535333

Expiration Date:

31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

Concentration ± Uncertainty

Aroclor 1221

011104-28-2

RM04278

 $100.2 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions:

Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative

ISO 17034 Cert No.

AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026 Page: 1 of 1

www.agilent.com/quality/ CSD-QA-015.1

ISO 17025 Cert No. AT-1937





Reference Material Certificate

Product Name:

Aroclor 1242 Standard

Lot Number:

0006665550

Product Number:

PP-312-1

Lot Issue Date:

08-Feb-2022

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date:

31-Jan-2027

Component Name

CERTIFIED VALUES Concentration Expanded Uncertainty

CAS#

Analyte Lot

Aroclor 1242

0.5 µg/mL

053469-21-9

NT01020

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P11973 AT 02121122

Page: 1 of 2

CSD-QA-015.1



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois QMS Representative



ISO 17034 Cert No. AR-1936 RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.1



ISO 17025 Cert No. AT-

ISO 17034



Reference Material Certificate

Product Name:

Aroclor 1248 Standard

Lot Number:

0006626997

Product Number:

PP-342-1

Lot Issue Date:

17-Aug-2021

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date:

30-Sep-2025

Component Name

Concentration Expanded Uncertainty

CERTIFIED VALUES

CAS#

Analyte Lot

Aroclor 1248

100.3

0.5 µg/mL

012672-29-6

NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Page: 1 of 2

CSD-QA-015.1



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative



ISO 17034 Cert No. AR-1936 RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.1



ISO 17025 Cert No. AT-1937



Certificate of Analysis

Aroclor 1254 Solution

Product Number:

PP-352

Page:

1 of 1

Lot Number:

CS-2321

Lot Issue Date:

04-May-2018

Expiration Date:

31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

True Value

Aroclor 1254

011097-69-1

RM00922

 $100.4 \pm 0.5 \,\mu g/mL$

Matrix:

isooctane (2,2,4-trimethylpentane)

Storage:

Store at Room Temperature (15° to 30°C).

4 P11517 $\frac{1}{02121122}$

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB A C C R E D I T E D TESTING LABORATORY

ISO 9001 Registered TUV USA, Inc. John Russo President Monica Bourgeois
Director of QA/RA



CERTIFIED REFERENCE MATERIAL



110 Benner Circle Bellefonte, PA 16823-8812 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.:

32008

Lot No.: A0173309

Description:

Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size:

2 mL

Purity

99%

Pkg Amt:

Expiration Date:

September 30, 2027

Storage:

25°C nominal

> 1 mL

Handling:

This product contains PCBs.

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. C (weight/vo		Expanded Uncertainty (95% C.L.; K=2)					
1	Aroclor CAS # Purity	1232 11141-16-5 %	(Lot 15665-01)	1,001.0	μg/mL	+/- +/- +/-	5.9456 31.7389 41.4544	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed	
Solvent:	Hexane CAS#	110-54-3							. 6	

P11583 (S)
P11587
P11587
P11587

Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

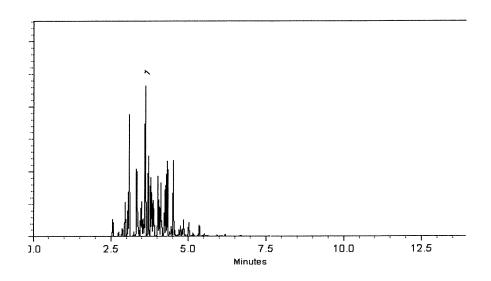
@ 25°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

Det. Type: **ECD**



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.

Scrumus Moodler odler - Operations Tech I

Date Mixed:

13-Jun-2021

Balance: B442140311

Date Passed:

16-Jun-2021

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

P 11583 (S)
P 11587
P 11587
P 11587



CERTIFIED REFERENCE MATERIAL



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Certificate of Analysis





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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.:

32410

Lot No.: A0181782

Description:

Aroclor® 1268 Standard

Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane

Container Size :

2 mL

Pkg Amt: > 1 mL

Expiration Date:

May 31, 2028

Storage:

25°C nominal

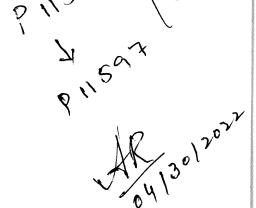
Handling:

This product contains PCBs.

Ship: **Ambient**

CERTIFIED VALUES

Elution Order		Compound			Grav. Conc. (weight/volume)			Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor CAS # Purity	1268 11100-14-4 %	(Lot 10947000)		1,001.4	μg/mL	+/+/+/	- 31.7516	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Hexane CAS # Purity	110-54-3 99%						7.44	2	10



Column:

30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

200°C to 300°C

@ 25°C/min. (hold 10 min.)

Inj. Temp:

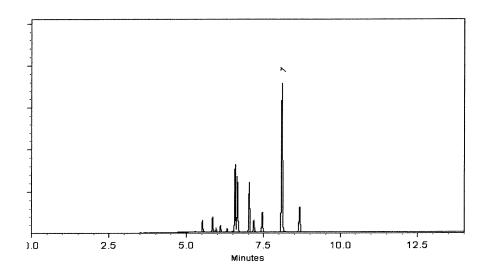
250°C

Det. Temp:

300°C

Det. Type:

ECD .



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.

Penelone Riglin - Operations Tech

Date Mixed:

14-Feb-2022

Balance: 1128360905

100 to Will

Date Passed:

17-Feb-2022

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

P 11593 (5)
P 11593 (5)