

Prep Standard - Chemical Standard Summary

Order ID : Q1889

Test : PESTICIDE Group1

Prepbatch ID : PB167766,

Sequence ID/Qc Batch ID: pl043025,pl050225,

Standard ID :

EP2601,EP2607,PP24080,PP24081,PP24095,PP24255,PP24256,PP24257,PP24258,PP24259,PP24260,PP24261,PP24262,PP24266,PP24266,PP24268,PP24269,PP24270,PP24271,PP24272,PP24273,PP24274,PP24275,PP24277,PP24278,PP24279,PP24280,PP24280,PP24282,PP24283,PP24284,PP24285,PP24329,PP24433,PP24460,

Chemical ID :

E2865,E3551,E3806,E3843,E3847,E3876,E3877,E3914,E3916,E3917,E3928,P12600,P12603,P12611,P13037,P13040,P13195,P13245,P13355,P13356,P13404,P13405,P13785,P13861,P9052,W3177,



Extractions STANDARD PREPARATION LOG

Recipe ID 230	NAME 1:1ACETONE/HEXANE	<u>NO.</u> EP2601	Prep Date 04/07/2025		<u>Prepared</u> <u>By</u> Rajesh Parikh	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Riteshkumar Patel 04/07/2025
FROM	8000.00000ml of E3916 + 8000.0000	10ml of E39	17 = Final Qu	antity: 8000.00	10 ml			

ised By mar Patel
/2025



Recipe ID 3878	NAME 1000 PPB TOXAPHENE SPIKE (RESTEK)	<u>NO.</u> PP24080	Prep Date 12/16/2024	Expiration Date 06/05/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 12/17/2024
FROM	0.10000ml of P13404 + 99.90000ml	of E3843 =	Final Quantity	/: 100.000 ml				

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By
1501	1000 ppb CHLORDANE SPIKE (RESTEK)	PP24081	12/16/2024	06/16/2025	Abdul Mirza	None	None	Ankita Jodhani 12/17/2024
FROM	0.10000ml of P12600 = Final Quanti	ty: 100.000	ml				I	



Recipe ID 4027	NAME Pesticide resolution Check Mixture 8081	<u>NO.</u> PP24095	Prep Date 12/23/2024	Expiration Date 06/16/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 12/30/2024
FROM	1.00000ml of P13245 + 99.00000ml	of E3847 =	Final Quantity	y: 100.000 ml				

Recipe ID 84	NAME Pest/PCB Surrogate Stock 20 PPM	<u>NO.</u> PP24255	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	1.00000ml of P13785 + 9.00000ml of	E3877 = F	I Final Quantity:	10.000 ml				03/12/2025



Recipe ID 3629	NAME 20 PPM PEST stock Solution 1st source(RESTEK)	<u>NO.</u> PP24256	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	1.00000ml of P13040 + 9.00000ml of	f E3877 = F	inal Quantity:	10.000 ml				

<u>Recipe</u> <u>ID</u> 1472	NAME 20 PPM Pest Stock Solution 2nd Source	<u>NO.</u> PP24257	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipettelD None	<u>Supervised By</u> Ankita Jodhani 03/12/2025
FROM	1.00000ml of P13037 + 9.00000ml of	E3877 = F	inal Quantity:	10.000 ml				



Recipe ID 1273	NAME 20 PPM Mirex Stock (Primary Source)	<u>NO.</u> PP24258	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.20000ml of P9052 + 9.80000ml of	E3877 = Fi	nal Quantity: 1	10.000 ml				

<u>Recipe</u> <u>ID</u>	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u> Ankita Jodhani
3663	20 PPM MIREX Stock STD (Secondary source)	<u>PP24259</u>	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
<u>FROM</u>	0.20000ml of P13195 + 9.80000ml of	f E3877 = F	inal Quantity:	10.000 ml				



<u>Recipe</u> <u>ID</u> 3630	NAME 100/100 PPB PEST Working std.1st Source(RESTEK)	<u>NO.</u> PP24260	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	98.50000ml of E3877 + 0.50000ml of ml	FP24255 +	- 0.50000ml o	f PP24256 + 0.	50000ml of PP2	24258 = Final G	Quantity: 100.0	00
Recipe ID	NAME	NO.	Pren Date	Expiration Date	Prepared By	ScaleID	PipettelD	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>	<u>PipetteID</u>	Ankita Jodhani
80	100/100 PPB Pesticide Working Solution 2nd Source	<u>PP24261</u>	03/11/2025	08/12/2025	Abdul Mirza	None	None	03/12/2025
FROM	98.50000ml of E3877 + 0.50000ml of	f PP24255 +	- 0.50000ml o	f PP24257 + 0.	50000ml of PP2	24259 = Final C	Quantity: 100.0	00
	ml							



Recipe ID 386	NAME 1000/100 PPB Chlordane STD (Restek)	<u>NO.</u> PP24262	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.10000ml of P12603 + 99.40000ml (of E3877 + (0.50000ml of l	PP24255 = Fin	al Quantity: 100).000 ml		
					_			

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipettelD	Ankita Jodhani
3746	1000/100 ppb Chlordane	PP24266	03/11/2025	08/12/2025	Abdul Mirza	None	None	
	STD-RESTEK 2ND SOURCE							03/12/2025
FROM	0.10000ml of P12611 + 99.40000ml of	of E3877 + ().50000ml of I	PP24255 = Fin	al Quantity: 100).000 ml		



Recipe ID 383	NAME 1000/100 PPB Toxaphene STD (Restek)	<u>NO.</u> PP24267	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.10000ml of P13405 + 99.40000ml (of E3877 + (0.50000ml of I	PP24255 = Fin	al Quantity: 100	0.000 ml		
Pacina				Expiration	Bronarod			Supervised By

Recipe				Expiration	Prepared			Supervised By
ID	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	PipetteID	Ankita Jodhani
3669	1000/100 PPB TOXAPHENE STD	PP24268	03/11/2025	08/12/2025	Abdul Mirza	None	None	
	2nd source (RESTEK)							03/12/2025
FROM	0.10000ml of P13861 + 99.40000ml of	of E3877 +	0.50000ml of	PP24255 = Fir	al Quantity: 100).000 ml		



Recipe ID 3631	NAME 75 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24269	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of I	PP24260 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 3632	<u>NAME</u> 50 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24270	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.50000ml of E3877 + 0.50000ml of l	PP24260 =	Final Quantity	y: 1.000 ml				03/12/2023



Recipe ID 3633	NAME 25 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24271	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of	PP24260 =	Final Quantit	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 3634	NAME 5 PPB ICAL PEST STD(RESTEK)	<u>NO.</u> PP24272	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.90000ml of E3877 + 0.10000ml of l	PP24270 =	Final Quantity	y: 1.000 ml				03/12/2023



Recipe ID 3988	NAME 50 PPB PEST ICV STD(RESTEK)	<u>NO.</u> PP24273	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.50000ml of E3877 + 0.50000ml of I	PP24261 =	Final Quantit	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 528	NAME CHLOR 750 PPB STD	<u>NO.</u> PP24274	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.25000ml of E3877 + 0.75000ml of l	PP24262 =	Final Quantity	y: 1.000 ml				00/12/2020



Recipe ID 529	NAME CHLOR 500 PPB STD	<u>NO.</u> PP24275	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.50000ml of E3877 + 0.50000ml of	PP24262 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 530	NAME CHLOR 250 PPB STD	<u>NO.</u> PP24277	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of l	 PP24262 =	I Final Quantity	l y: 1.000 ml				03/12/2025



Recipe ID 3408	NAME CHLOR 50 PPB STD	<u>NO.</u> PP24278	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
<u>FROM</u>	0.90000ml of E3877 + 0.10000ml of I	PP24275 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 532	NAME CHLOR 500 PPB ICV STD	<u>NO.</u> PP24279	<u>Prep Date</u> 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipettelD None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.50000ml of E3877 + 0.50000ml of	I PP24266 =	Final Quantit	y: 1.000 ml				03/12/2023



Recipe ID 533	NAME TOX 750 PPB STD	<u>NO.</u> PP24280	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.25000ml of E3877 + 0.75000ml of I	PP24267 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 534	NAME TOX 500 PPB STD	<u>NO.</u> PP24281	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.50000ml of E3877 + 0.50000ml of I	<u> </u> PP24267 =	Final Quantit	y: 1.000 ml				03/12/2023



Recipe ID 535	NAME TOX 250 PPB STD	<u>NO.</u> PP24282	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.75000ml of E3877 + 0.25000ml of l	PP24267 =	Final Quantit	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 2217	NAME TOX 100 PPB STD	<u>NO.</u> PP24283	Prep Date 03/11/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	0.90000ml of E3877 + 0.10000ml of l	PP24267 =	Final Quantit	y: 1.000 ml				03/12/2023



Recipe ID 3670	NAME TOX 500 PPB ICV std (RESTEK)	<u>NO.</u> PP24284	Prep Date 03/11/2025	Expiration Date 08/12/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
<u>FROM</u>	0.50000ml of E3877 + 0.50000ml of I	PP24268 =	Final Quantity	y: 1.000 ml				

<u>Recipe</u> <u>ID</u> 79	NAME 500 PPB Pesticide Spike Solution	<u>NO.</u> PP24285	Prep Date 03/12/2025	Expiration Date 08/12/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Ankita Jodhani 03/12/2025
FROM	95.00000ml of E3876 + 2.50000ml of	PP24257 +	l - 2.50000ml o	l f PP24259 = F	inal Quantity: 10	00.000 ml		03/12/2023



Recipe ID 84	NAME Pest/PCB Surrogate Stock 20 PPM	<u>NO.</u> PP24329	Prep Date 03/18/2025	Expiration Date 08/22/2025	Prepared By Yogesh Patel	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Abdul Mirza 04/03/2025
FROM	1.00000ml of P13356 + 9.00000ml o	f W3177 = I	Final Quantity	: 10.000 ml				

<u>Recipe</u> <u>ID</u> 518	NAME Pest/PCB I.BLK 20 PPB	<u>NO.</u> PP24433	Prep Date 03/31/2025	Expiration Date 08/22/2025	<u>Prepared</u> <u>By</u> Abdul Mirza	<u>ScaleID</u> None	PipettelD None	Supervised By Yogesh Patel 04/02/2025
<u>FROM</u>	99.90000ml of E3914 + 0.10000ml of	PP24329	I = Final Quanti	ity: 100.000 ml				0 1102/2020



Recipe ID 465	NAME 200 PPB Pest/PCB Surrogate Spike	<u>NO.</u> PP24460	Prep Date 04/11/2025	Expiration Date 10/03/2025	Prepared By Abdul Mirza	<u>ScaleID</u> None	PipetteID None	Supervised By Yogesh Patel 04/16/2025
FROM	1.00000ml of P13355 + 999.00000m	l of E3917 :	= Final Quanti	ity: 1000.000 n	וו		<u>.</u>	



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	06/30/2025	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	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	09/25/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3806
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)	24H2762008	06/05/2025	12/05/2024 / Rajesh	12/05/2024 / Rajesh	E3843
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)	24G1962003	06/16/2025	12/16/2024 / Rajesh	12/13/2024 / Rajesh	E3847
			Evolution	Data Onened /	L	Chamtach

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)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876



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)	243570	08/12/2025	02/12/2025 / Rajesh	02/12/2025 / Rajesh	E3877
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)	243570	09/19/2025	03/19/2025 / RUPESH	03/13/2025 / RUPESH	E3914
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)	243570	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3916
Supplier	ItemCode / ItemName	Lot #	Expiration		Received Date /	Chemtech
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	Date 10/03/2025	Opened By 04/03/2025 / Rajesh	Received By 03/31/2025 / Rajesh	Lot # E3917

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)	25C0362005	10/22/2025	04/18/2025 / RUPESH	04/16/2025 / RUPESH	E3928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	06/16/2025	12/16/2024 / Abdul	07/03/2023 / Abdul	P12600



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0197993	09/11/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12603
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0193299	09/09/2025	03/10/2025 / Abdul	07/03/2023 / Abdul	P12611
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0200423	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13037
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	09/10/2025	03/10/2025 / Abdul	12/26/2023 / Abdul	P13040
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	042022	09/10/2025	03/10/2025 / Abdul	01/17/2024 / Abdul	P13195
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	06/23/2025	12/23/2024 / Abdul	02/09/2024 / Abdul	P13245



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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, 1mL	A0206810	10/11/2025	04/11/2025 / Abdul	04/22/2024 / Abdul	P13355
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, 1mL	A0206810	09/18/2025	03/18/2025 / yogesh	04/22/2024 / Abdul	P13356
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	06/16/2025	12/16/2024 / Abdul	05/15/2024 / Abdul	P13404
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	09/09/2025	03/10/2025 / Abdul	05/15/2024 / Abdul	P13405
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, 1mL	A0214495	09/10/2025	03/10/2025 / Abdul	11/19/2024 / Ankita	P13785
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0210240	09/10/2025	03/10/2025 / Abdul	12/09/2024 / Abdul	P13861



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	112018	09/10/2025	03/10/2025 / Abdul	11/01/2019 / Stephen	P9052
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



	This Referen	ce Material is intended	LY-READ SDS PRION for Laboratory Use Only a etermination of the analyte	as a standard for
Catalog No. :	32021	Lot No.:	A0193299	- 0125
Description :	Chlordane Standard			
	Chlordane Standard 1000µg/ml	, Hexane, 1mL/ampul		P12602
Container Size :	2 mL	Pkg Amt:	> 1 mL	- R ^{VL}
Expiration Date :	April 30, 2029	Storage:	10°C or colder	
		Ship:	Ambient	- Rout 120
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

CERTIFIED VALUES

Elution Order	Compound	⊜CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	%	1,010.0 µg/mL	+/- 56.0475

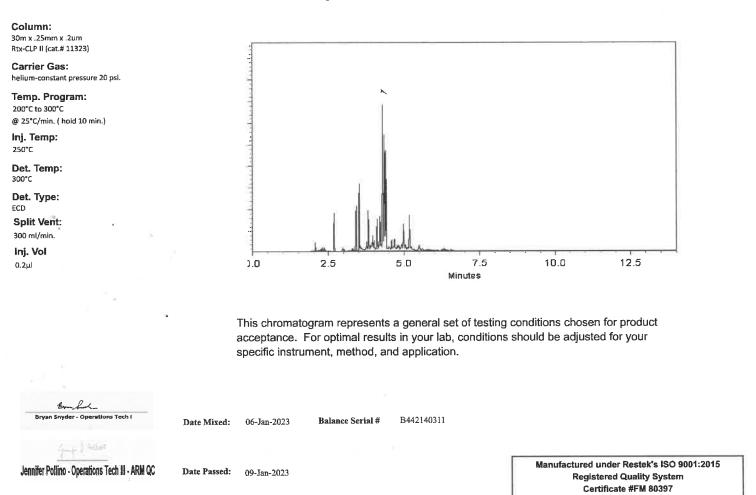
Solvent: Hexane CAS # 110-54-3 Purity 99% * Expanded Uncertainty displayed in same units as Grav. Conc.

#### Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.



#### **Quality Confirmation Test**



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





For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



PRODUCTOS QUIMICOS MONTERREY, S.A. DE CY. MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +52 81 13 52 57 57 WWW.pqm.com.mx

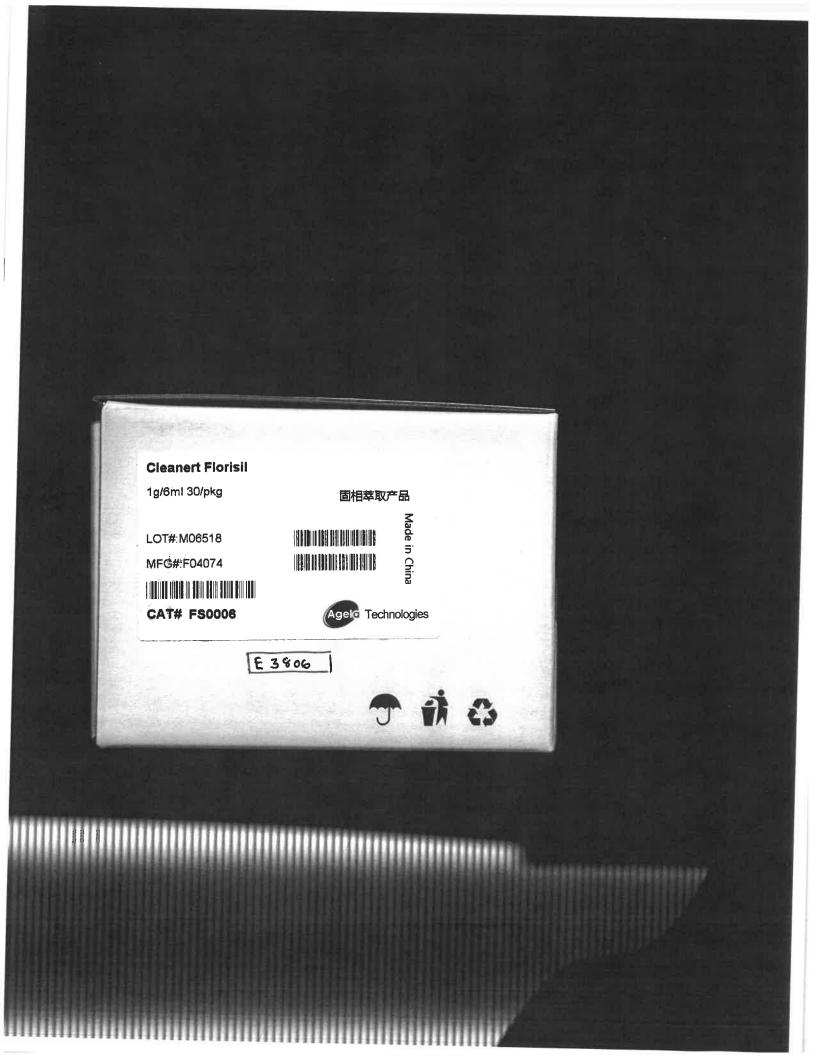
# **CERTIFICATE OF ANALYSIS**

	DIUM SULFATE CRYS CS (CODE RMB3375)			NA.CO
SPECIFICATION NUMBER :	-		E DATE:	Na ₂ SO ₄ ABR/21/2023
	3201	N.a.L.a.M.O	E 1./A I E.	ADR/2 1/2023
TEST	SPECI	FICATIONS	LOT V	ALUES
Assay (Na ₂ SO ₄ )	Min. 99	1.0%	99.7 %	
pH of a 5% solution at 25°C	5.2 - 9.	2	6.1	
Insoluble matter	Max. 0.	01%	0.005	1
Loss on ignition	Max. 0.	5%	0.1 %	16
Chloride (Cl)	Max. 0.	001%	<0.001	0/
Nitrogen compounds (as N)	Max. 5	ppm	<0.001 <5 ppn	
Phosphate (PO ₄ )	Max. 0.		<0.001	
Heavy metals (as Pb)	Max. S			
Iron (Fe)	Max, 0,	9 R ·	<5 ppn <0.001	
Calcium (Ca)	Max. 0.	01%	0.002 %	
Magnesium (Mg)	Max. 0.	005%	0.002 9	
Potassium (K)	Max. 0.		0.003 %	
Extraction-concentration suit	ability Passes	test	Passes	*
Appearance	Passes		Passes	
Identification	Passes	test	Passes	test
Solubility and foreing matter		test	Passes	: test
Retained on US Standard No.		h	0.1 %	
Retained on US Standard No.	60 sieve Min. 94	a/ ₀	97.3 %	
Through US Standard No. 60	sieve Max. 5%	46	2.5 %	
Through US Standard No. 100	) sieve Max. 10	1%	0.1 %	
an second a second s	CON	MENTS	ಕ್ಷಿತ್ರಾಳಿಸಿಕ ಕಾರ್ಯಕರ್ ಪ್ರದೇಶಕರ್	
91 <i>0</i> 91			n+	15 HANDOWNI
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		QC: Ph	C Irma Belma	res

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

Read. by R: 017/293 E3551

RE-02-01, Ed. 1



Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis





Material No.: 9254-03 Batch No.: 24H2762008 Manufactured Date: 2024-04-18 Expiration Date:2027-04-18 **Revision No.: 0** 

### Certificate of Analysis

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak	<= 5	1
(ng/mL) ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

**Country of Origin: United States** Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. 51 RP on 12/5/24

E 3843

{l'Ioak Jamie Croak Director Quality Operations, Bioscience Production

n-Hexane 95% ULTRA RESI-ANALYZED For Organic Residue Analysis





Material No.: 9262-03 Batch No.: 24G1962003 Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22 Revision No.: 0

# Certificate of Analysis

Test	C 10	
FID-Sensitive Immunity of a	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak	≤ 10	1
	≤ 5	1
Assay (Total Saturated C₅ Isomers) (by GC, corrected for water) Assay (as n-Hexane) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Color (APHA)	≥ 95 %	98 %
Residue after Evaporation	≤ 10	5
ubstances Darkened by H2SO4	≤ 1.0 ppm	0.1 ppm
Vater (by KF, coulometric)	Passes Test	Passes Test
	≤ 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. by RP on 12/13/24 E3847



#### Certificate of Analysis ThermoFisher S C I E N T I F I C

System

### Certificate of Analysis

1 Reagent Lane	
Fair Lawn, NJ 07410	
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management
201.796.1329 fax	Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment		s starting raw material ingredients, or used naterial that might migrate to the finished p	

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd-by om 2/12/25 E387

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701. *Based on suggested storage condition.

#### **Certificate of Analysis** Thermo Fisher SCIENTIFIC

## **Certificate of Analysis**

1 Reagent Lane	
Fair Lawn, NJ 07410	
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
201.796.1329 fax	Standard ISO9001:2015 by SAI Global Certificate Number CERT - 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as processing aids, or any other ma	starting raw material ingredients, or used aterial that might migrate to the finished p	in processing, including lubricants, roduct.

N/A		and the state of the state of the	The second second
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

at Sabyen

E3914

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701. *Based on suggested storage condition.

#### Certificate of Analysis ThermoFisher SCIENTIFIC

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## Certificate of Analysis

This is to see up a	
201.796.1329 fax	Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633
201.796.7100 tel	Thermo Fisher Scientific's Quality System has been formula
Fair Lawn, NJ 07410	
r Reagent Lane	

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Catalog Number	H303		
Lot Number	243570	Quality Test / Release Date	11/07/2024
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	
Chemical Origin	Organic - non animal	Suggested Relest Date	Nov/2029
BSE/TSE Comment	No animal products are used as processing aids, or any other ma	starting raw material ingredients, or used iterial that might migrate to the finished pro	in processing, including lubricants,

Result Name	Units		
APPEARANCE		Specifications	Test Value
ASSAY (N-HEXANE)	%	REPORT	Clear, colorless liquid
ASSAY (SUM C6 HYDROCARBONS)	70	>= 60	69
COLOR		>= 99.9	>99.9
DENSITY AT 25 DEGREES C	APHA	<= 5	<5
EVAPORATION RESIDUE	GM/ML	Inclusive Between 0.653 - 0.673	0.669
	ppm	<= 1	
LUORESCENCE BACKGROUND	ppb	<= 1	<1
DENTIFICATION	PASS/FAIL	= PASS TEST	<1
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	PASS TEST
PTICAL ABS AT 210 NM	ABS. UNITS		0.74
PTICAL ABS AT 220 NM	ABS. UNITS	<= 0.25	0.17
PTICAL ABS AT 254 NM	ABS. UNITS	<= 0.07	0.05
ESTICIDE RESIDUE ANALYSIS	NG/L	<= 0.005	0.001
EFRACTIVE INDEX @ 25 DEG C	NG/L	<= 10	<10
JITABILITY FOR GC/MS		Inclusive Between 1.375 - 1.385	1.379
JLFUR COMPOUNDS		= PASS TEST	PASS TEST
IOPHENE	%	<= 0.005	<0.005
ATER (H2O)	PASS/FAIL	= PASS TEST	
	%	<= 0.01	PASS TEST
ATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	<0.01 0.0001

at Sabyen

Recd. by RP UN 3/31/25

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701. *Based on suggested storage condition. Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

Tort





Material No.: 9254-03 Batch No.: 24H2762008 Manufactured Date: 2024-04-18 Expiration Date:2027-04-18 Revision No.: 0

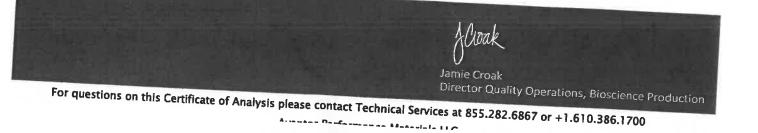
# Certificate of Analysis

lest	Specification	
Assay ((CH3)2CO) (by GC, corrected forwater)		Result
Color (APHA)	>= 99.4 %	100.0 %
Residue after Evaporation	<= 10	5
Substances Reducing Permanganate	<= 1.0 ppm	0.0 ppm
Titrable Acid (µeq/g)	Passes Test	Passes Test
Fitrable Base (µeq/g)	<= 0.3	0.2
Vater (H2O)	<= 0.6	<0.1
ID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak	<= 0.5 %	<0.1 %
	< - 3	1
CD Sensitive Impurities (as HeptachlorEpoxIde) Single Peak	<= 10	1

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

Country of Origin: United States Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by Rp on 03/31/25 E3917



n-Hexane 95% ULTRA RESI-ANALYZED For Organic Residue Analysis





Material No.: 9262-03 Batch No.: 25C0362005 Manufactured Date: 2025-01-29 Expiration Date:2026-04-30 Revision No.: 0

### **Certificate of Analysis**

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	6
ECD–Sensitive Impurities (as EthyleneDibromide) – Single Impurity Peak (ng/mL)	<= 5	5
Assay (Total Saturated $C_6$ Isomers) (byGC, corrected for water)	>= 99.5 %	100.0 %
Assay (as n-Hexane) (by GC, correctedfor water)	>= 95 %	100 %
Color (APHA)	<= 10	10
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: United States Packaging Site: Phillipsburg Mfg Ctr & DC



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For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700



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#### **CERTIFIED REFERENCE MATERIAL**

#### **Certificate of Analysis**

chromatographic plus



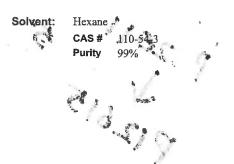
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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

	This Refe	BORATORY USE ON rence Material is intended ative and/or quantitative de	for Laboratory Use Only	as a standard for
Catalog No. :	32021	Lot No.:	A0193299	- 026 Edu
Description :	Chlordane Standard			X Y Z ) o
	Chlordane Standard 1000µg	/mL, Hexane, 1mL/ampul		0,612
Container Size :	2 mL	Pkg Amt:	> 1 mL	Pla
Expiration Date :	April 30, 2029	Storage:	10°C or colder	
		Ship:	Ambient	- RMU13/202

CERTIFIED VALUES

Elution Order	Compound	ộCAS #	. Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	%	1,010.0 µg/mL	+/- 56.0475

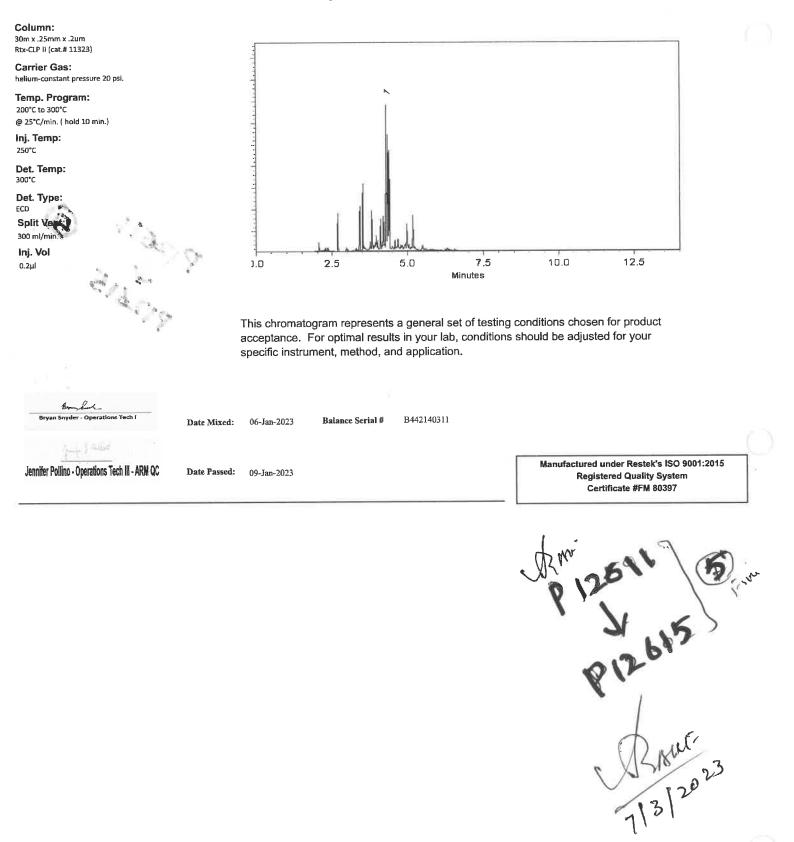


* Expanded Uncertainty displayed in same units as Grav. Conc.

Tech Tips: CAS #57-74-9 nomenclature is based on EPA method 8081B.

01-Nov-2022 rev.









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#### **CERTIFIED REFERENCE MATERIAL**

#### **Certificate of Analysis** chromatographic plus



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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. : Description :	32291 Organochlorine Pesticide Mix AB #1	Lot No.: 4	40199099	P1302
-	Organochlorine Pesticide Mix AB #1 1mL/ampul	200µg/mL, Hexand	e/Toluene(50:50),	P 1301
Container Size : Expiration Date :	2 mL June 30, 2027	Pkg Amt: _	> 1 mL 10°C or colder	Dult- 2023
	·	Ship: _	Ambient	XXA 20.

#### CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.0 µg/mL	+/- 8.9732
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	200.1 μg/mL	+/- 8.9762
3	beta-BHC	319-85-7	BCCC6425	99%	200.3 µg/mL	+/- 8.9844
4	delta-BHC	319-86-8	14450800	98%	200.0 µg/mL	+/- 8.9740
5	Heptachlor	76-44-8	813251	99%	200.1 µg/mL	+/- 8.9754
6	Aldrin	309-00-2	14389400	98%	200.0 µg/mL	+/- 8.9718
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.1 μg/mL	+/- 8.9754
8	trans-Chlordane	5103-74-2	32943	98%	199.9 μg/mL	+/- 8.9696
9	cis-Chlordane	5103-71-9	31766	98%	200.1 μg/mL	+/- 8.9762
10	Endosulfan I	959-98-8	BCCF4060	99%	200.1 μg/mL	+/- 8.9754
11	4,4'-DDE	72-55-9	GHYQG	99%	200.1 μg/mL	+/- 8.9777
12	Dieldrin	60-57-1	11129900	98%	200.0 μg/mL	+/- 8.9718
13	Endrin	72-20-8	14123200	98%	199.9 μg/mL	+/- 8.9696
14	4,4'-DDD	72-54-8	HAN02	99%	200.1 μg/mL	+/- 8.9777
15	Endosulfan II	33213-65-9	14374700	99%	200.0 μg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	200.0 μg/mL	+/- 8.9718



17	Endrin aldehyde	7421-93-4	30720	98%	200.1 µg/mL	+/- 8.9784
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.0 µg/mL	+/- 8.9732
19	Methoxychlor	72-43-5	13668200	99%	200.1 µg/mL	+/- 8.9777
20	Endrin ketone	53494-70-5	1-ABS-16-7	98%	200.0 µg/mL	+/- 8.9740

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane/Toluene (50:50) CAS # 110-54-3/108-88-3 Purity 99%

P 13039 5 P13043 5 P13043 5 1226/23

#### **Quality Confirmation Test**

Column: 30m x .25mm x .2um Rtx-CLP II (cat.# 11323) **Carrier Gas:** helium-constant pressure 20 psi. Temp. Program: 150°C to 300°C @ 4°C/min. ( hold 5 min.) Inj. Temp: 200°C Det. Temp: 300°C Det. Type: ECD Split Vent: Split ratio 50:1 Inj. Vol 10 1µI Ö 20 30 Minutes

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.

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Gh Binally

Josh McCloskey - Operations Technician I

5 Rolling

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

19-Jun-2023

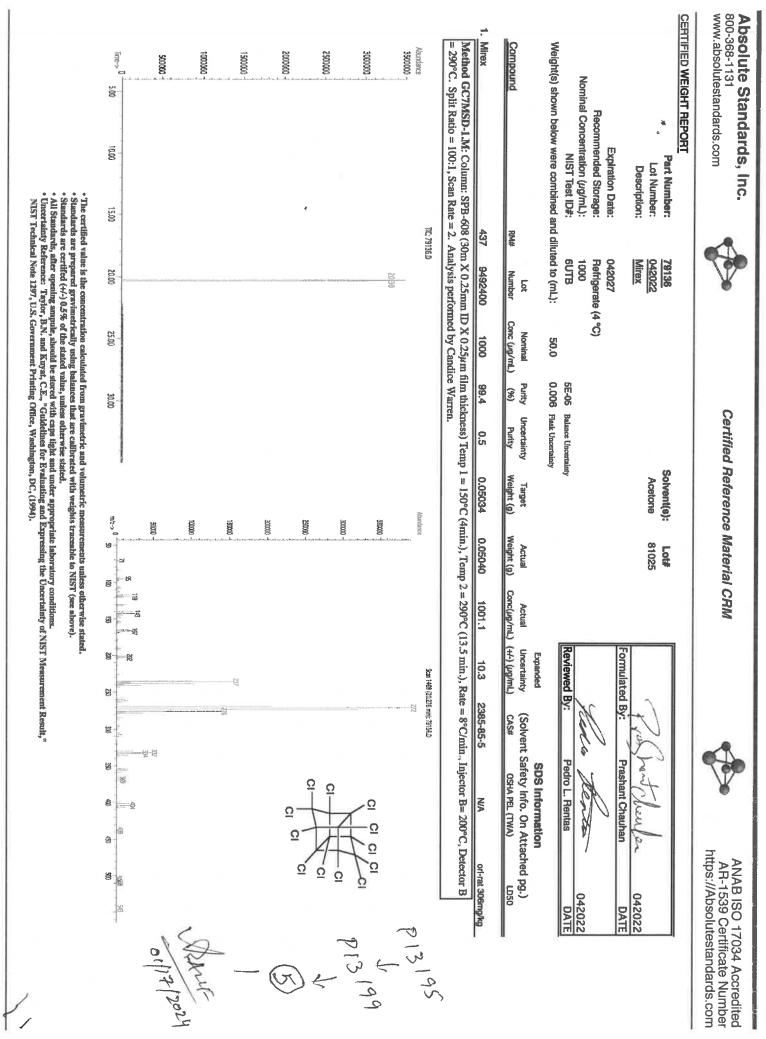
Balance Serial #

Date Mixed:

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

40



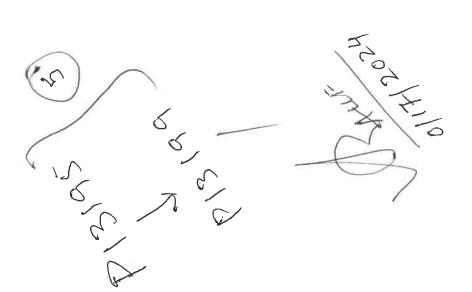


Part # 79136 Lot # 042022

1 of 1

Printed: 1/16/2024, 3:48:44 PM

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#### **CERTIFIED REFERENCE MATERIAL**

#### **Certificate of Analysis**

chromatographic plus



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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. 603 3 Catalog No. : 32021 Lot No.: A0197993 Chlordane Standard **Description:** P12605) Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul **Container Size :** 2 mL Pkg Amt: > 1 mL **Expiration Date ;** August 31, 2029 10°C or colder Storage: Ship: Ambient

#### CERTIFIED VALUES

* Expanded Uncertainty displayed in same units as Grav. Conc.

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc: (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlordane 10% trans-Chlordane; 9% cis-Chlordane; 81% other isomers	57-74-9	978545	%	1,005.0 μg/mL	+/- 55.7700

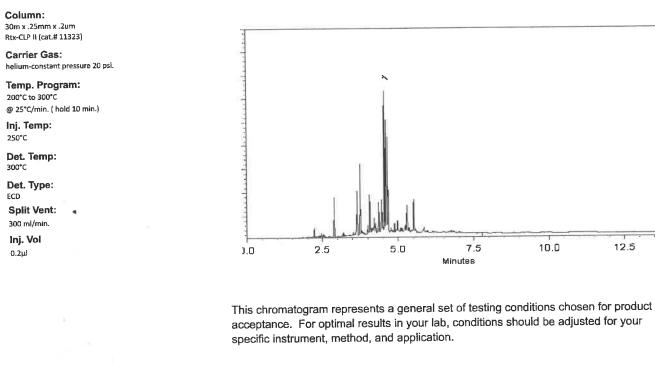
Solvent: Hexane CAS # 110-54-3

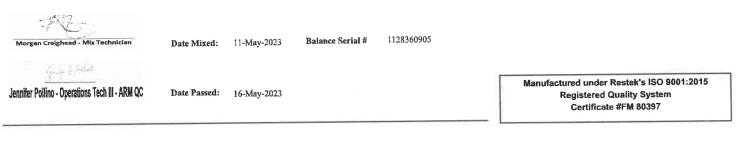
Purity 99%

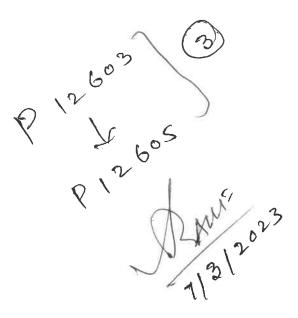
#### Tech Tips:

CAS #57-74-9 nomenclature is based on EPA method 8081B.











www.restek.com

#### **CERTIFIED REFERENCE MATERIAL**

#### **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 ら the qualitative and/or quantitative determination of the analyte(s) listed. P 13037 32291 Catalog No. : Lot No.: A0200423 **Description :** Organochlorine Pesticide Mix AB #1 Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul **Container Size :** 2 mL Pkg Amt: > 1 mL **Expiration Date :** July 31, 2027 Storage: 10°C or colder 6

Ship:

Ambient

#### CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.5 µg/mL	+/- 8.9956
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	199.9 μg/mL	+/- 8.9696
3	beta-BHC	319-85-7	BCCC6425	99%	200.0 µg/mL	+/- 8.9732
4	delta-BHC	319-86-8	14450800	98%	199.9 μg/mL	+/- 8.9696
5	Heptachlor	76-44-8	813251	99%	202.0 µg/mL	+/- 9.0629
6	Aldrin	309-00-2	14389400	98%	200.9 μg/mL	+/- 9.0136
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.0 μg/mL	+/- 8.9732
8	trans-Chlordane	5103-74-2	34616	99%	200.5 µg/mL	+/- 8.9956
9	cis-Chlordane	5103-71-9	31766	98%	201.4 µg/mL	+/- 9.0356
10	Endosulfan I	959-98-8	BCCF4060	99%	200.0 µg/mL	+/- 8.9732
11	4,4'-DDE	72-55-9	GHYQG	99%	201.5 µg/mL	+/- 9.0405
12	Dieldrin	60-57-1	14515000	98%	199.9 µg/mL	+/- 8.9696
13	Endrin	72-20-8	14485300	98%	200.4 µg/mL	+/- 8.9916
14	4,4'-DDD	72-54-8	HAN02	99%	200.5 µg/mL	+/- 8.9956
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410ЛСМА	98%	201.9 μg/mL	+/- 9.0575



17	Endrin aldehyde	7421-93-4	30720	98%	201.4	µg/mL	+/-	9.0356
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.5	μg/mL	+/-	8.9956
19	Methoxychlor	72-43-5	14563200	98%	200.9	µg/mL	+/-	9.0136
20	Endrin ketone	53494-70-5	14537700	98%	199.9	µg/mL	+/-	8.9696

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane/Toluene (50:50) CAS # 110-54-3/108-88-3 Purity 99%

Column:

P13034 5 P130 4 38 5 P130 1 Arut 126/2023

> Registered Quality System Certificate #FM 80397

#### **Quality Confirmation Test**

30m x .25mm x .2um Rtx-CLP II (cat.# 11323) **Carrier Gas:** helium-constant pressure 20 psi. Temp. Program: 150°C to 300°C @ 4°C/min. ( hold 5 min.) Inj. Temp: 200°C Det. Temp: 300°C Det. Type: ECD Split Vent: Split ratio 50:1 Inj. Vol 1µI D 10 20 30 40 Minutes 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. Samuel Moodler m Moodler - Operations Tech I B442140311 Date Mixed: 31-Jul-2023 **Balance Serial #** Manufactured under Restek's ISO 9001:2015 Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 03-Aug-2023



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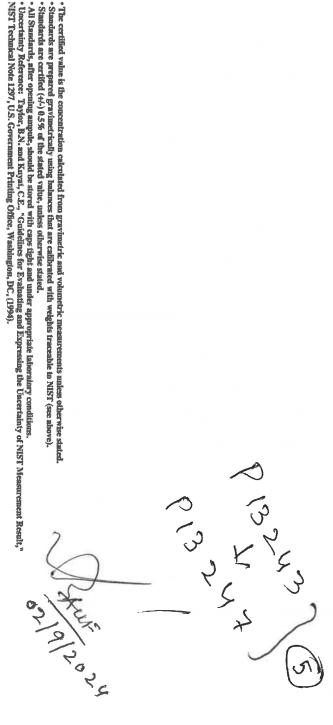
1 of 1

800-368-1131 www.absolutestandards.com Absolute Standards, Inc.

**Certified Reference Material CRM** 

https://Absolutestandards.com ANAB ISO 17034 Accredited AR-1539 Certificate Number

CERTIFIED WEIGHT REPORT Part Number: Lot Number: Description: Expiration Date: Recommended Storage: Nominal Concentration (ug/mL): NIST Test IDF:		19161 013124 CLP Pesticides & 9 components 013129 Refrigerate (4 °C) Varied 6UTB	des & PCBy ants (4 °C)	s Resolut	19161       013124       CLP Pesticides & PCB's Resolution Check Standard       9 components     Solvent(s):       9 components     Hexane       9 components     Hexane       9 components     Toluene       2 components     Solvent(s):       9 components     Hexane       2 components     Solvent(s):       9 components     Solvent(s):       9 components     Solvent(s):	ndard Lot# 273615 28508	(50%	5 S		Formulated By:	Formulated By:
ion Date: Storage: (µg/mL):		9 compone 013129 Refrigerate Varied	(4 °C)		Solvent(s): Hexane Toluene	Lot# 273615 28508	(50%) (50%)		Formulated	Formulated By:	al a
Volume(s) shown below were combined and diluted to (mL):	and dilutec	GUTB to (mL);	100.0	5E-05	Balance Uncertainty Flask Uncertainty				Reviewed B	Reviewed By:	Reviewed By: Pedro L. Rentas
	Part	Lot	Dil.	Initial	Uncertainty	Initial	Final	c	Expanded Uncertainty		Expanded SDS Information Incertainty (Solvent Safety Info. On Attached pg.)
	Number	Number	Factor	Vol. (mL)	Vol. (mL) Pipette (mL)	Conc.(ug/mL)	Conc.(ug/mL) Conc.(ug/mL)		(+/-) µg/mL	(+/-) µg/mL CAS#	
trans-Chlordane	19361	013124	0.010	1.00	0.004	101.3	1.0		0.02		
4,4-DDE	19361 19361	013124	0.010	1.00	0.004	101.3 201.6	2.0		0.02	0.02 959-98-8	
Dieldrin	19361	013124	0.010	1.00	0,004	202.8	2.0		0.03		60-57-1 0.25mg/m3 (skin)
Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0		0.03	0.03 1031-07-8	1031-07-8 N/A
Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0		0.03	0.03 53494-70-5	
	10001	212121	1112								



10mg/m3 NA ¥ NNA R orl-rat 6000mg/kg ON-Lat I Ruding/KB NIA NA NA

Endrin ketone
 4,4'-Methoxychlor

19361

013124

0.010 0.010

0.010

1.00 1.0

0.004 0.004

19361 19361

013124 013124

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0.03 0.03 0.09

2051-24-3 877-09-8

72-43-5

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Decachlorobiphenyl (209) 2,4,5,6-Tetrachloro-m-xylene



110 Benner Circle Bellefonte, PA 16823-8812

> Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

**CERTIFIED REFERENCE MATERIAL** 

#### **Certificate of Analysis**

chromatographic plus



SO/IEC 17025 Accordite Testing Laboratory Certificate #3222.02

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. P133401 32000 Lot No.: A0206810 Catalog No. : **Description:** Pesticide Surrogate Mix Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul > 1 mL **Container Size :** 2 mL Pkg Amt: **Expiration Date :** April 30, 2030 10°C or colder Storage: Handling: Contains PCBs - sonicate prior to Ship: Ambient use.

#### CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 μg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone CAS # 67-64-1 Purity 99%

#### Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

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 **Split Vent:** 10 ml/min. Inj. Vol



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.

Laith Clemente - Operations Technician I

Jennifer Pollino - Operations Tech III - ARM QC

Gunifor & Adding

**1**μl

**Date Mixed:** 

Date Passed:

22-Jan-2024

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24-Jan-2024

1128360905 Balance Serial #

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

13348 0 P13357 1/5Aut 25/2025



110 Benner Circle Bellefonte, PA 16823-8812

> Tel: 1-814-353-1300 Fax: 1-814-353-1309

www.restek.com

**CERTIFIED REFERENCE MATERIAL** 

#### **Certificate of Analysis**

chromatographic plus



SO/IEC 17025 Accordite Testing Laboratory Certificate #3222.02

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. P133401 32000 Lot No.: A0206810 Catalog No. : **Description:** Pesticide Surrogate Mix Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul > 1 mL **Container Size :** 2 mL Pkg Amt: **Expiration Date :** April 30, 2030 10°C or colder Storage: Handling: Contains PCBs - sonicate prior to Ship: Ambient use.

#### CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 μg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Acetone CAS # 67-64-1 Purity 99%

#### Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

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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 **Split Vent:** 10 ml/min. Inj. Vol



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.

Laith Clemente - Operations Technician I

Jennifer Pollino - Operations Tech III - ARM QC

Gunifor & Adding

**1**μl

**Date Mixed:** 

Date Passed:

22-Jan-2024

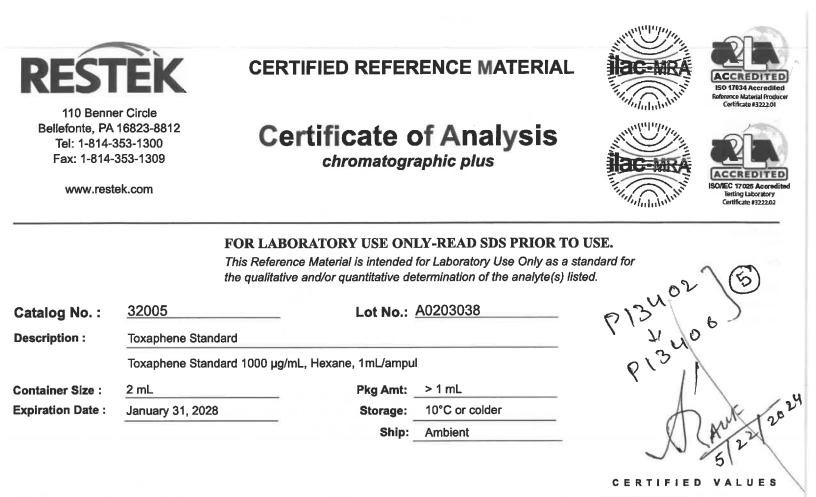
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24-Jan-2024

1128360905 Balance Serial #

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

13348 0 P13357 1/5Aut 25/2025



Elution Order	Compound	CAS#	Lot #	Purîty	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	%	1,009.0 µg/mL	+/- 55.9920

* Expanded Uncertainty displayed in same units as Grav. Conc.

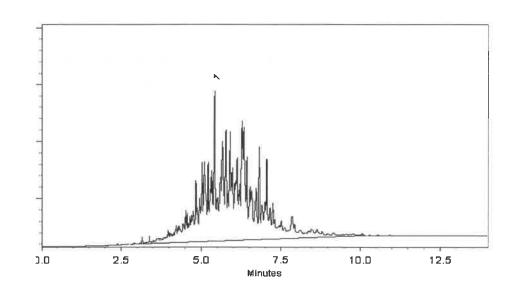
Solvent: Hexane CAS # 110-54-3 Purity 99%

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

Split Vent: 300 ml/min.

**Inj. Vol** 0.2μl



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.

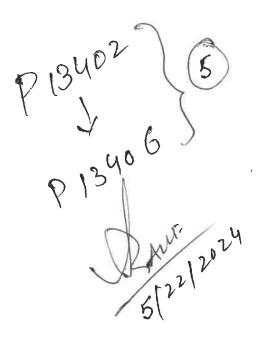
 July
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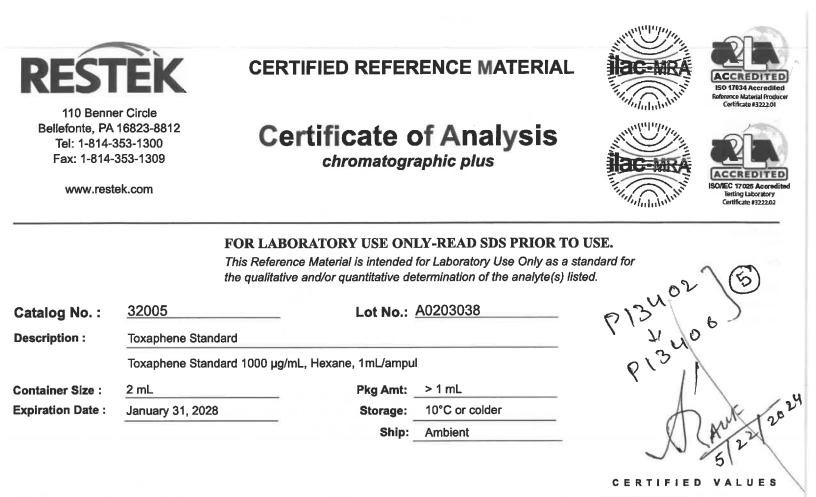
 Dakota Parson - Operations Technician I
 Date Mixed:
 10-Oct-2023
 Balance Serial #
 1128353505

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 Manufactured under Restek's ISO 9001:2015

 Jennifer Pollino - Operations Tech III - ARM QC
 Date Passed:
 16-Oct-2023
 Balance Serial #
 1128353505

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Elution Order	Compound	CAS#	Lot #	Purîty	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	%	1,009.0 µg/mL	+/- 55.9920

* Expanded Uncertainty displayed in same units as Grav. Conc.

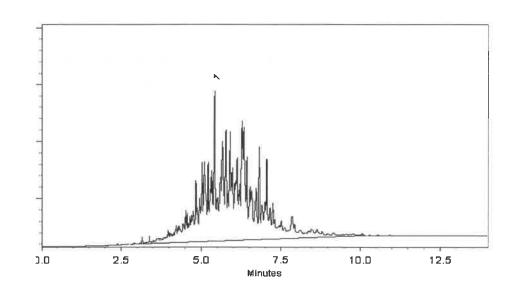
Solvent: Hexane CAS # 110-54-3 Purity 99%

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

Split Vent: 300 ml/min.

**Inj. Vol** 0.2μl



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.

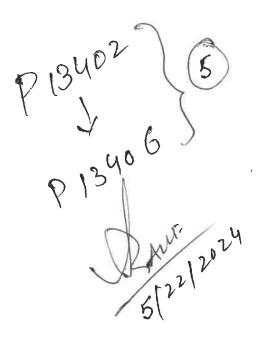
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 Dakota Parson - Operations Technician I
 Date Mixed:
 10-Oct-2023
 Balance Serial #
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 Manufactured under Restek's ISO 9001:2015

 Jennifer Pollino - Operations Tech III - ARM QC
 Date Passed:
 16-Oct-2023
 Balance Serial #
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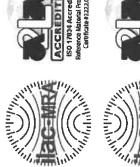




Bellefonte, PA 16823-8812

Fax: 1-814-353-1309 Tel: 1-814-353-1300

**CERTIFIED REFERENCE MATERIAL** 





# 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

	L0+614		h2161/11 000	Lateld	
Lot No.: A0214495		nL, Acetone, 1mL/ampul	Pkg Amt: > 1 mL	Storage: 10°C or colder	Ship: Ambient
32000	Pesticide Surrogate Mix	Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul	2 mL	October 31, 2030	Contains PCBs - sonicate prior to use.
Catalog No. :	Description :		Container Size :	Expiration Date :	Handling:

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						<pre>/ (95% C.L.; K=2)</pre>
1	2,4,5,6-Tetrachloro-m-xylenc	877-09-8	RP220407	%66	200.2 µg/mL	+/- 11.1087
2	Decachlorobiphenyl (BZ# 209)	2051-24-3 30679	30679	%66	201.4 µg/mI	99% 201.4 μg/mL +/- 11.1753
			* Expanded Ur	ncertainty	displayed in sa	* Expanded Uncertainty displayed in same units as Grav. Conc.

Acetone Solvent:

67-64-1 CAS#

%66 Purity

### Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well . The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.



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

Carrier Gas: hellum-constant pressure 20 psi.

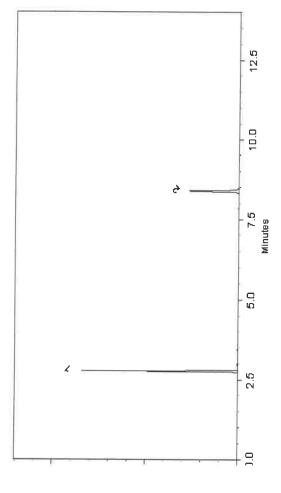
**Temp. Program:** 200°C to 300°C @ 25°C/min. ( hold 10 min.) **Inj. Temp**:

250°C

**Det. Temp:** 300°C

Det. Type: ECD Split Vent: 10 ml/min.

10 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.

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Aaron Enyart - Operations Tech I Date Mixed:

B345965662

Balance Serial #

29-Jul-2024

Lough & Beeker

Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 01-Aug-2024

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

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#### **CERTIFIED REFERENCE MATERIAL**



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ACCREDITED SO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

#### **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.

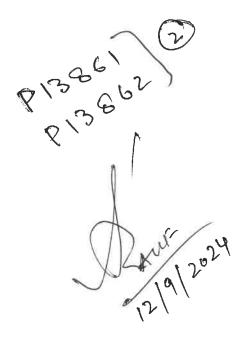
Catalog No. :	32005	Lot No.:	<u>A0210240</u>
<b>Description</b> :	Toxaphene Standard		
	Toxaphene Standard 1000 µg	/mL, Hexane, 1mL/ampu	I
Container Size :	2 mL	Pkg Amt:	> 1 mL
Expiration Date :	July 31, 2028	Storage:	10°C or colder
		Ship:	Ambient

#### CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	%	1,009.3 μg/mL	+/- 56.0105

* Expanded Uncertainty displayed in same units as Grav. Conc.

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.)

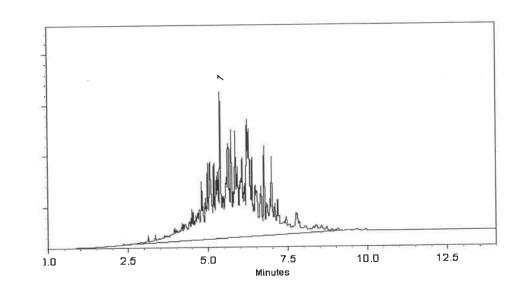
Inj. Temp: 250°C

Det. Temp: 300°C

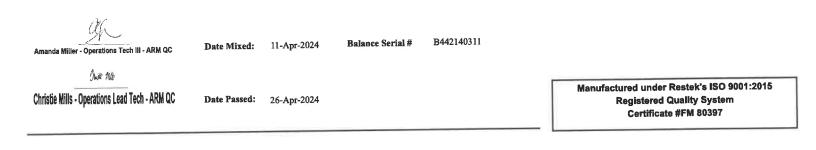
Det. Type: ECD

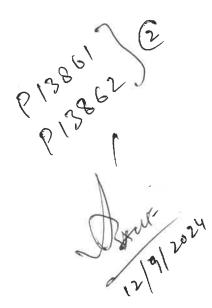
Split Vent: 300 ml/min.

**inj. Vol** 0.2μl



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.





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Absolute 300-368-1131	www.absolutestandards.com



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On     11/1/1     Formulated By:     Formulated By:     Preshart Chaunan       6 Balac Usersing     Real currents       8 Rauce Usersing     Real currents       8 Rauce Usersing     Real currents       9 GG5     Real currents       8 Rauce Usersing     Real currents       9 Rauce Usersing     Solvent Safety Info. On Attrached pg.)       9 Rauce Usersing     Uncertainty       10 Repeting     Actual       10 Repeting     Actual       10 Repeting     Actual       10 Repeting     Actual       11 Repeting     Actual       12 Report     200°C (99min), False = 10°C/min, Injector B= 250°C, Defector B =       12 Report     12 Report       12 Report     12 Report       12 Report     12 Report       <	Or     II/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I/I	CERTIFIED WEIGHT REPORI	<b>&amp;</b>	<u>72072</u> 112016 <u>n-Tetra</u>	3 cosane-d50	Re	P. Vel [v4	Solvent(s): ylene chloride	Lot# 102669			Then	112018
V     Uncertainty Intertainty     Expanded Solvent Safety Info. On Attached pg.)     SDS Information (Solvent Safety Info. On Attached pg.)       0.2     0.2411     0.20415     1000.2     4.2     16416-32.3     NM     NM       16mp1 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B =     Image: Solvent Safety Info. On Attached pg.)     NM     NM       16mp1 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Detector B =     Image: Solvent Safety Info. On Attached pg.)     NM     NM       1000     0.2     0.20415     1000.2     4.2     16416-32.3     NM     NM       1000     1000     4.2     16416-32.3     NM     NM     NM       1000     1000     4.2     16416-32.3     NM     NM       1000     1000     4.2     16416-32.3     NM     NM       1000     1000     1000     4.2     16416-32.3     NM       1000     1600     1000     1600     1600     1600     1600       1000     1000     1000     16416-32.3     NM     NM       1000     1000     1000     1000     1600     1600       1000     1000     1000     1600     1600     1600       1000     1000     1000	V     Uncertainty Intertainty     Expanded Meeting     SOS Information weight(0)     SOS Information weight(0)       0.2     0.20411     0.20415     1000.2     4.2     16416-32-3     MA     M0       0.2     0.20411     0.20415     1000.2     4.2     16416-32-3     MA     M0       1000     1<     5.0°C (9min), Target     0.2     0.207C, Detector B =     MA     M0       1000     1     5.0°C (9min), Target     1     0.2     0.207C, Detector B =       1000     1     5.0°C (9min), Target     0.2     0.207C, Detector B =       1000     1     5.0°C (9min), Target     0.2     0.207C, Detector B =       1000     1     5.0°C (9min), Target     0.2     0.207C, Detector B =       1000     1     5.0°C (9min), Rate = 10°C/min, Injector B = 250°C, Detector B =     0.2       1000     1     5.0°C (9min), Rate = 10°C/min, Injector B = 250°C, Detector B =     0.2       1000     1     5.0°C (9min), Rate = 10°C/min, Injector B = 250°C, Detector B =     0.2       1000     1     5.0°C (9min), Rate = 10°C/min, Injector B = 250°C, Detector B =     0.2       1000     1     5.0°C (9min), Rate = 10°C/min, Injector B = 250°C, Detector B =     0.2       1000     1     5.0°C (9min), Rate = 10°C/min, Injector B = 250°C, Detector B =<	Recor Nominal Conc Weight(s) shown belo	Expiration Date: nmended Storage: sentration (µg/mL): NIST Test ID#: w were combined ar	112028 Ambiei 1000 268418 268418 10 diluted to (m	so °C)	56 104	00 11/1/ 01 11/1/ 1 - P905 05 Balance Uncerta	6		Formula Reviewe	d By:	Prashant Chauhan	112018 DATE 112018 DATE
0.2         0.20411         0.20415         1000.2         4.2         16416-32.3         MA         MA           Temp 1 = 50°C (1min), Temp 2 = 300°C (9min), Rate = 10°C/min, Injector B= 250°C; Delector B =         MA         MA	0.2         0.20411         0.20415         1000.2         4.2         16416.32.3         MM           Temp 1 = 50°C (1min,). Temp 2 = 300°C (9min). Rate = 10°C/min, Injector B= 250°C, Detector B =         x=141.32.3         MM           1000         4.2         16416.32.3         MA           1000         1000         4.2         16416.32.3         MA           1000         1000         10°C/min, Injector B= 250°C, Detector B =         X=141.31	Compound						Target Weight (g)		Expander Actual Uncertain onc (vg/mL) (+/-) (unim		SDS Information ent Safety Info. On Attach OSMA BEL (7003)	hed pg.)
Temp 1 = 50°C (1min,), Temp 2 = 300°C (9min,), Rate = 10°C/min, Injector B= 250°C, Detector B =         mem       sarver pair management         sarver pair management       sarver pair management         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         1000       1000         100	Temp 1 = 50°C (1min,), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 250°C, Delector B =         men       x=1441244 ms (2001)         men       x=1441244 ms (2001)         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         0000       2000         00000       2000 </th <th>h-Tetracosane-d50 thod GC8MSD-3 M</th> <th>. Colume-CDB_E</th> <th>2072 PR-177</th> <th>53/09216TC1</th> <th>1000 9</th> <th>8 0.2</th> <th>0.20411</th> <th>0.20415</th> <th>1000.2 4.2</th> <th>16416-32</th> <th>NIA NIA</th> <th>11</th>	h-Tetracosane-d50 thod GC8MSD-3 M	. Colume-CDB_E	2072 PR-177	53/09216TC1	1000 9	8 0.2	0.20411	0.20415	1000.2 4.2	16416-32	NIA NIA	11
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$\frac{1000}{600}  \frac{1000}{600}  \frac{1200}{100}  \frac{1000}{120}  \frac{1}{100}  \frac{1000}{100}  \frac{1}{10}  \frac{1000}{100}  \frac{1000}{100}  \frac{1}{10}  \frac{1000}{100}  1000$	$\frac{4.0}{6.0}$ $\frac{6.0}{6.0}$	00005						120000					
$\frac{400 \text{ E}(0) \text{ E}(0) \text{ E}(0) \text{ E}(0) \text{ E}(0) \frac{1000}{100} \frac{1}{100} $	$\frac{40}{60}  \frac{60}{60}  \frac{100}{100}  \frac{120}{120}  \frac{160}{160}  \frac{160}{200}  \frac{100}{20}  \frac{1}{100}  \frac{1}{10$	17 COOOD						C00001					
$400  600  800  1000  1200  1400  1600  2000  200 \\ - 1 \text{ the certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated Standards are prepared gravitinetricial and an anneasurements unless otherwise stated Standards are certified (4.1.4) 6.56  740  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  540  54$	400 E00 E00 120 MED 120 MED 120 MED 120 200 200 200 200 $\frac{600}{100}$ $\frac{1}{100}$ $\frac{1}{1$	30000				tizioana		6000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
40 E0 E0 E0 100 120 M0 EE0 1E0 200 20 $\frac{600}{200}$ $\frac{1}{200}$ $\frac{1}{10}$	400 E.00 E.00 100 1200 M.00 E.00 100 1200 M.00 E.00 200 200 $\frac{200}{200}$ $\frac{2}{20}$ $\frac{1}{100}$ $1$	200002						C00003					
400  600  800  1000  1200  1400  1600  2000  200  200  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0  0.0	40 E0 E0 E0 100 120 M(0 E0 180 200 20 20 $-\frac{100}{200}$ 20 $-\frac{100}{200}$ $-\frac{100}{20}$ $-\frac{100}{20$	0000						40099 4		4 4 8 8 9 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
9 186 180 200 220 240 280 280 300 320 340 360	246 250 230 300 320 346 350	400	ŀ					1		46 162	218 228	274 29: 307	
<ul> <li>Shandards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).</li> <li>Shandards are prepared for sum can and and and and and and and and and a</li></ul>	<ul> <li>Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).</li> <li>Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.</li> </ul>		ч <b>Г</b> .	rertified value is t				2	201	8	822	260 280 350 320	
	• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.		• Star	dards are prepar dards are certifed	ed gravimetrically u	sing balances th	avimetric and voli at are calibrated w	umetric measuremen rith weights traceabl	its unless othern e to NIST (see a	wise stated. ubove).			

Lot # 112018 Part # 72072

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Printed: 10/31/2019, 11:22:08 AM

1 of 2

Absolute Standards, Inc. www.absolutestandards.com 800-368-1131





ISO 17034 Accredited Scopes: http://AbsoluteStandards.com

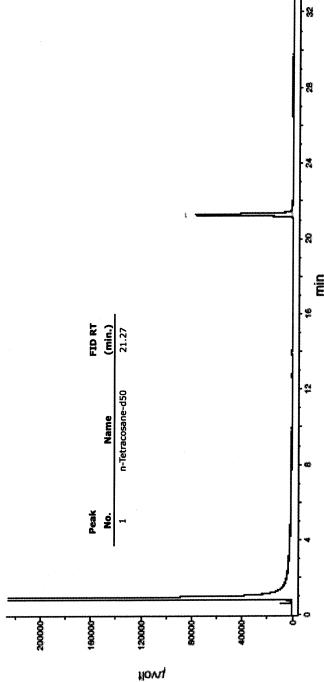
# Run 40, "P72072 L112018 [1000µg/mL in MeCl2]"

Sampled: Sequence "112018-GC4M1", Method "GC4-M1" Analyzed using Method "GC4-M1". Run Length: 35.00 min, 20999 points at 10 points/second. Created: Thu, Nov 22, 2018 at 7:23:18 AM.

## Comments

Flow rates; Total Flow = 300 m/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL GC4-M1 Analysis by Melissa Stonier Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness

Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes. Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1. Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 ut., Range = 3

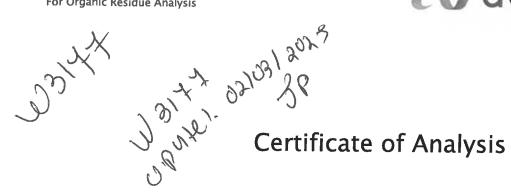


2 of 2

n-Hexane 95% **ULTRA RESI-ANALYZED** For Organic Residue Analysis







Material No.: 9262-03 Batch No.: 24G1962003 Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22 Revision No.: 0

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene DibromIde) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C₀ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
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

