

Prep Standard - Chemical Standard Summary

Order ID : P3451

Test : SVOCMS Group3

Prepbatch ID : PB162464,

Sequence ID/Qc Batch ID: BN080324,BN080524,BN080524,

Standard ID :

EP2499,EP2514,EP2518,SP6516,SP6527,SP6541,SP6547,SP6548,SP6562,SP6563,SP6564,SP6565,SP6566,SP6567,SP6568,SP6569,SP6569,SP6572,SP6573,

Chemical ID :

E3551,E3657,E3743,E3746,E3759,E3763,E3768,E3769,E3786,M5037,S10102,S10247,S10782,S10977,S11003,S11012,S1096,S11434,S11566,S11766,S11767,S12023,S12029,S12075,S12096,S12097,S12112,S12117,S12118,W2606,W3112,



Extractions STANDARD PREPARATION LOG

Recipe ID 314	NAME 1.1 H2SO4 SOLN	<u>NO.</u> EP2499	Prep Date 06/17/2024		<u>Prepared</u> <u>By</u> Rajesh Parikh	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By RUPESHKUMAR SHAH 06/17/2024
FROM	1000.00000ml of M5037 + 1000.000	00ml of W26	606 = Final Q	uantity: 2000.0	00 ml			

<u>Recipe</u> <u>ID</u> 1874	NAME 10 N SODIUM HYDROXIDE SOLN	<u>NO.</u> EP2514	Prep Date 07/17/2024		<u>Prepared</u> <u>By</u> Rajesh Parikh	<u>ScaleID</u> None	PipetteID None	Supervised By RUPESHKUMAR SHAH 07/17/2024
FROM	1000.00000ml of W3112 + 400.0000	I Ogram of E3	1 3657 = Final C	Quantity: 1000.0	I <u> </u>			511112524



Extractions STANDARD PREPARATION LOG

Recipe ID 3923	NAME Baked Sodium Sulfate	<u>NO.</u> EP2518	Prep Date 07/26/2024	<u>Prepared</u> <u>By</u> RUPESHKUMA R SHAH	<u>ScaleID</u> Extraction_SC ALE_2	<u>PipetteID</u> None	Supervised By Rajesh Parikh 07/26/2024
FROM	1.00000gram of E3551 = Final Quan	tity: 4000.0	00 gram		(EX-SC-2)		

<u>Rec</u> <u>II</u> 34	<u>)</u>	NAME Internal Standard 0.4 PPM	<u>NO.</u> <u>SP6516</u>	Prep Date 05/21/2024	Expiration Date 10/30/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	PipetteID None	Supervised By mohammad ahmed 05/21/2024
FR	<u>0M</u>	0.02000ml of S12023 + 0.98000ml of	E3743 = F	inal Quantity:	1.000 ml	opuanjaj			00/2 //2021



Recipe ID 3493	NAME Internal Standard 0.4 PPM	<u>NO.</u> <u>SP6527</u>	Prep Date 06/10/2024	Expiration Date 12/05/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By mohammad ahmed 07/05/2024
<u>FROM</u>	0.10000ml of S12029 + 4.90000ml of	f E3759 = F	inal Quantity:	5.000 ml				
Rocino				Expiration	Proparod			Supervised By

NAME 8270-SIM-Surrogate 0.4 PPM	<u>NO.</u> <u>SP6541</u>	<u>Prep Date</u> 06/27/2024	Expiration Date 11/21/2024	<u>Prepared</u> <u>By</u> Rahul Chavli	<u>ScaleID</u> None	PipetteID None	Supervised By mohammad ahmed 07/05/2024
0.00400ml of S10977 + 0.00800ml of	S11003 + ().02000ml of \$	S10782 + 99.96	6800ml of E3763	3 = Final Quant	l tity: 100.000 n	
	8270-SIM-Surrogate 0.4 PPM	8270-SIM-Surrogate 0.4 PPM <u>SP6541</u>	8270-SIM-Surrogate 0.4 PPM <u>SP6541</u> 06/27/2024	NAMENO.Prep DateDate8270-SIM-Surrogate 0.4 PPMSP654106/27/202411/21/2024	NAMENO.Prep DateDateBy8270-SIM-Surrogate 0.4 PPMSP654106/27/202411/21/2024Rahul Chavli	NAMENO.Prep DateDateByScaleID8270-SIM-Surrogate 0.4 PPMSP654106/27/202411/21/2024Rahul ChavliNone	NAME NO. Prep Date Date By ScaleID PipetteID



<u>Recipe</u> <u>ID</u> 3355	NAME 8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	<u>NO.</u> <u>SP6547</u>	Prep Date 07/08/2024	Expiration Date 11/21/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By mohammad ahmed 07/08/2024
FROM	SOURCE 0.00630ml of S10977 + 0.01280ml of 0.06400ml of S12096 + 0.06400ml of						of S11566 +	

Recipe ID 3356	NAME 8270-SIM MDL-0.4PPM	<u>NO.</u> <u>SP6548</u>	Prep Date	Expiration Date 11/21/2024	<u>Prepared</u> <u>By</u> Jagrut	<u>ScaleID</u> None	<u>PipetteID</u> None	<u>Supervised By</u> mohammad ahmed
0000	CALIBRATION SOL ICV-2ND	01 00 10	01100/2024	11/2 1/2024	Upadhyay	None	None	07/08/2024
FROM	SOURCE 0.87500ml of E3746 + 0.01000ml of 3	SP6527 + 0	.12500ml of S	P6547 = Final	Quantity: 1.010	ml		



<u>Recipe</u> <u>ID</u> 3339	NAME 8270 sim calibration stock 10ppm (CPI)	<u>NO.</u> <u>SP6562</u>	Prep Date 07/10/2024	<u>Expiration</u> <u>Date</u> 08/26/2024	Prepared By Jagrut Upadhyay	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By mohammad ahmed 07/11/2024
FROM	0.03350ml of S10102 + 0.05000ml of 0.25000ml of S12075 + 24.16650ml o				500ml of S12112	2 + 0.25000ml c	of S11096 +	

<u>Recipe</u> <u>ID</u> 3361	NAME 8270-SIM MDL-5PPM CALIBRATION SOLUTION	<u>NO.</u> <u>SP6563</u>	Prep Date 07/10/2024	Expiration Date 08/26/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	PipetteID None	Supervised By mohammad ahmed 07/11/2024
FROM	0.50000ml of E3768 + 0.01000ml of \$	SP6516 + 0	l .50000ml of S	P6562 = Final) ml		011112024



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Recipe ID 3341	NAME 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	<u>NO.</u> <u>SP6564</u>	Prep Date 07/10/2024	<u>Expiration</u> <u>Date</u> 08/26/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By mohammad ahmed 07/11/2024
FROM	0.68000ml of E3768 + 0.01000ml of a	SP6516 + 0	.32000ml of S	P6562 = Final	Quantity: 1.010) ml		

<u>Recipe</u> <u>ID</u> 3344	NAME 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	<u>NO.</u> <u>SP6565</u>	<u>Prep Date</u> 07/10/2024	<u>Expiration</u> <u>Date</u> 08/26/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	PipetteID None	Supervised By mohammad ahmed 07/11/2024
FROM	0.84000ml of E3768 + 0.01000ml of	SP6516 + 0	.16000ml of S	P6562 = Final		ml		07/11/2024



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Recipe ID 3342	NAME 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	<u>NO.</u> <u>SP6566</u>	Prep Date 07/10/2024	<u>Expiration</u> <u>Date</u> 08/26/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By mohammad ahmed 07/11/2024
FROM	0.92000ml of E3768 + 0.01000ml of	SP6516 + 0	.08000ml of S	P6562 = Final	Quantity: 1.010) ml		

<u>Recipe</u> <u>ID</u> 3343	NAME 8270-SIM MDL-0.4PPM	<u>NO.</u> <u>SP6567</u>	Prep Date	Expiration Date 08/26/2024	<u>Prepared</u> <u>By</u> Jagrut	<u>ScaleID</u> None	<u>PipetteID</u> None	<u>Supervised By</u> mohammad ahmed
	CALIBRATION SOLUTION				Upadhyay			07/11/2024
FROM	0.96000ml of E3768 + 0.01000ml of \$	SP6516 + 0	.04000ml of S	P6562 = Final	Quantity: 1.010	ml		



Recipe ID 3345	NAME 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	<u>NO.</u> <u>SP6568</u>	Prep Date 07/10/2024	<u>Expiration</u> <u>Date</u> 08/26/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By mohammad ahmed 07/11/2024
FROM	0.50000ml of E3768 + 0.01000ml of	SP6516 + 0	.50000ml of S	P6567 = Final	Quantity: 1.010) ml		

<u>Recipe</u> <u>ID</u> 3346	NAME 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	<u>NO.</u> <u>SP6569</u>	Prep Date 07/10/2024	Expiration Date 08/26/2024	<u>Prepared</u> <u>By</u> Jagrut Upadhyay	<u>ScaleID</u> None	PipettelD None	Supervised By mohammad ahmed 07/11/2024
FROM	0.75000ml of E3768 + 0.01000ml of \$	SP6516 + 0	 .25000ml of S	P6567 = Final		ı ml		07/11/2024



Recipe ID 3492	NAME 8270-SIM-Spike 0.4 PPM	<u>NO.</u> <u>SP6572</u>	Prep Date 07/12/2024	Expiration Date 10/26/2024	<u>Prepared</u> <u>By</u> Rahul Chavli	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/30/2024
FROM	0.00080ml of S11012 + 0.01000ml of 49.92920ml of E3769 = Final Quanti			S11566 + 0.020	00ml of S12097	7 + 0.02000ml o	f S12118 +	

<u>Recipe</u> <u>ID</u> 3895	NAME 50 ug/ml DFTPP 8270E	<u>NO.</u> <u>SP6573</u>	Prep Date 07/15/2024	Expiration Date 01/08/2025	<u>Prepared</u> <u>By</u> Rahul Chavli	<u>ScaleID</u> None	<u>PipetteID</u> None	Supervised By Yogesh Patel 07/17/2024
FROM	1.00000ml of S10247 + 19.00000ml of	I of E3768 =	I Final Quantity	y: 20.000 ml				011112024



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	01/03/2025	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 #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/16/2024	05/16/2024 / Rajesh	04/26/2024 / Rajesh	E3743
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759
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)	23H1462005	12/25/2024	06/25/2024 / Rajesh	06/20/2024 / Rajesh	E3763



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768
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)	23H1462005	01/12/2025	07/12/2024 /	07/02/2024 / Rajesh	E3769
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786
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)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	09/29/2024	03/29/2024 / Jagrut	12/09/2021 / Christian	S10102
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/a mpul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	10/26/2024	04/26/2024 / Rahul	01/13/2023 / Christian	S11012
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	01/09/2025	07/09/2024 / Jagrut	02/07/2023 / Christian	S11096
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	503442	08/26/2024	07/09/2024 / Jagrut	07/26/2023 / yogesh	S11434



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566
Supplier	[CS 4978-1]	Lot #	Expiration	Date Opened /	Received Date /	Chemtech
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	Date 12/14/2024	Opened By 06/14/2024 / Rahul	Received By 11/21/2023 / Rahul	Lot #
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	01/12/2025	07/12/2024 / Rahul	11/21/2023 / Rahul	S11767
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	10/30/2024	04/30/2024 / Rahul	12/21/2023 / Rahul	S12023
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	11/14/2024	05/14/2024 / Jagrut	01/31/2024 / Rahul	S12075



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096
	[CS 4978-2]					
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097
	[CS 4978-2]					
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/10/2025 / Jagrut	03/15/2024 / Rahul	S12118
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



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd Santa Rosa, CA 95403

(707)525-5788 (800)878-7654 Toll Free (707)545-7901 Fax

Manufacturer's Quality System Audited & Registered by TUV USA to ISO 9001:2015

Date Received:_

		Certific	ate of Ana	lysis Rev 0	Page 1 of 1
Catalog No.: Lot No.: Z-112090 440246	Storage: ≤ -10 °C	Solvent: Methylene Chloride	Exp. Date:	Descri P Acid Surrogate Solutio	-
-04 Compor	und	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
0. Hannahamal d		93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-chlorophenol-d₄ 2-fluorophenol		367-12-4	99.8	10.7.3.3P	7513 ± 17.26
		13127-88-3	99.9	949.120.8P	7481 ± 17.19
phenol-d6 2,4,6-tribromophenol		118-79-6	99.8	12.1.6P	7469 ±17.17

Receivedon 02/25/21 64 C6 59236 +0 59240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erre Castre

Certified By:

Erica Castiglione Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.



5580 Skylane Blvd Santa Rosa, CA 95403

(707)525-5788 (800)878-7654 Toll Free (707)545-7901 Fax Receivedon BYCG 02-107/23 by CG Manufacturer's Quality System

Audited & Registered by TUV USA to ISO 9001:2015

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Date Received:

Certificate of Analysis Rev 0

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Descri	ption: n, 76-1, 500 & 1,000 mg/L, 1 mL
Z-110381-01 495831	≤-10 °C	Methylene Chloride	10/30/2027 Method	1 8270 Calibration Solution	i, 76-1, 500 & 1,000 mg/L, 1 mL
Сотрои	Ind	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene		83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene		208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline		62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene		120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene		103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene		56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene		205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene		207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene		191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene		50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol		100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane		111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether		111-44-4	99.8	32.7.1P	$1001 \hspace{0.1 in} \pm 17.23$
bis(2-chloro-1-methylethyl) eth	er	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate		103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate		117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether		101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate		85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole		86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Brann

Certified By:

Briana Smith Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.

Certificate of Analysis

Catalog No.: Z-110381-01	Lot No.: 495831		Expiration Date: 10/30)/2027
Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Brann' MM

Certified By:

6 120

Briana Smith Chemist All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.



Bellefonte, PA 16823-8812

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis





FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE. Receivedon This Reference Material is intended for Laboratory Use Only as a standard for 03118122 the qualitative and/or quantitative determination of the analyte(s) listed. 67 31615 Lot No.: A0182667 Catalog No. : cĠ **Description :** GC/MS Tuning Mixture 510242 GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul 40 Container Size : 2 mL Pkg Amt: > 1 mL 510247 **Expiration Date :** March 31, 2025 Storage: 10°C or colder Ship: Ambient Handling: Contains carcinogen/reproductive toxin.

CERTIFIED VALUES

4holans

Elution Order		С	ompound	Grav. Conc. (weight/volume)	Expanded (95% C.L.;	Uncertainty K=2)	
1 .	Pentachlo CAS # Purity	rophenol 87-86-5 99%	(Lot 211229RSR)	1,003.6 µg/m	L +/- +/- +/-	5.8897 45.7132 66.0037	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	DFTPP (I CAS # Purity	Decafluorotripher 5074-71-5 95%	ylphosphine) (Lot Q117-147)	1,006.6 µg/m	L +/- +/- +/-	5.9074 45.8508 66.2023	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # Purity	92-87-5 99%	(Lot 211228JLM)	1,008.4 µg/m	L +/- +/- +/-	5.9179 45.9318 66.3193	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # Purity	50-29-3 99%	(Lot 210916JLM)	1,007.6 μg/m	L +/- +/- +/-	5.9132 45.8954 66.2667	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride CAS # 75-09-2

Purity 99%

Column: 30m x 0.25mm x 0.25µm Rtx-5 (cat.#10223)

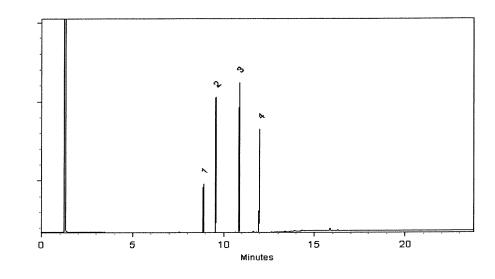
Carrier Gas: hydrogen-constant pressure 10 psi.

Temp. Program: 75°C (hold 1 min.) to 330°C @ 20°C/min. (hold 10 min.)

Inj. Temp: 250°C

Det. Temp: 330°C

Det. Type: FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Date Mixed: 08-Mar-2022 Balance: B345965662



Date Passed: 10-Mar-2022

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

2 mL

May 31, 2028

photosensitive.

Sonication required. Mix is

www.restek.com

Container Size :

Expiration Date :

Handling:

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE. This Reference Material is intended for Laboratory Use Only as a standard for Received on the qualitative and/or quantitative determination of the analyte(s) listed. 33913 Lot No.: A0186160 Catalog No. : 61 **Description :** SOM01.0 SIM Analysis Standard Cb SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Pkg Amt:

Storage:

Ship:

> 1 mL

Ambient

10°C or colder

CERTIFIED VALUES

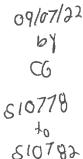
Elution Order		Comp	ound	Grav. ((weight/v	Conc volume)		Expanded ((95% C.L.; I		ana ar a ghar an
1	2-Methy CAS # Purity	lnaphthalene-d10 7297-45-2 96%	(Lot EF-135)	2,015.0	μg/mL	+/- +/- +/-	11.8254 90.7728 100.7207	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	Fluorant CAS # Purity	hene-d10 93951-69-0 99%	(Lot PR-20668)	2,007.0	μg/mL	+/- +/- +/-	11.7782 90.4107 100.3188	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Methyle	ne chloride							

olvent: CAS# 75-09-2 99% Purity

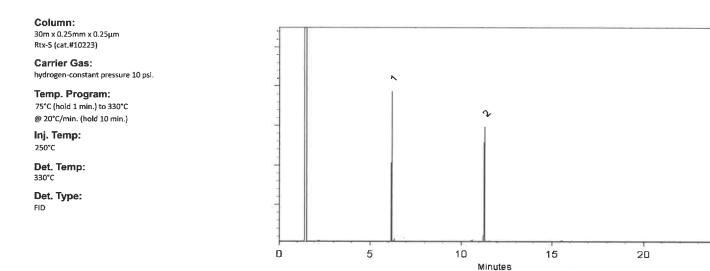
Certificate of Analysis

CRED ISO 17034 Accredited **Reference Material Produce** Certificate #3222.01









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: 09-Jun-2022 Balance: B442140311

insta-

Martina Cowan -- Operations Tech II ARM QC

Date Passed: 13-Jun-2022 Manufactured under Restek's ISO 9001:2015 **Registered Quality System** Certificate #FM 80397

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE. This Reference Material is intended for Laboratory Use Only as a standard for Received by the qualitative and/or quantitative determination of the analyte(s) listed. CG on 31087 Lot No.: A0188108 Acid Surrogate Mix (4/89 SOW) Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Pkg Amt:

Storage:

Ship:

> 5 mL

Ambient

10°C or colder

CERTIFIED VALUES

Elution Order		Compound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	2-Fluorophenol CAS # 367-12-4 Purity 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- +/- +/-	58.6554 294.4162 357.2628	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- +/- +/-	58.3923 293.0957 355.6603	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99%	(Lot MKCJ7664)	10,010.0 μg/mL	+/- +/- +/-	58.1990 292.1253 354.4829	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Methanol						

CAS# 67-56-1

> Purity 99%

Fax: (814)353-1309 www.restek.com

5 mL

August 31, 2030

Catalog No. :

Container Size :

Expiration Date :

Description :

110 Benner Circle

Bellefonte, PA 16823-8812

Tel: (800)356-1688



Halah



ACCREDITED

ISO/IEC 17025 Accredited Testing Laboratory Certrificate #3222.02



1 of 3

Column: 30m x 0.25mm x 0.25µm Rtx-5 (cat.#10223)

Carrier Gas: hydrogen-constant pressure 10 psi.

Temp. Program: 40°C (hold 2 min.) to 330°C @ 10°C/min. (hold 10 min.)

Inj. Temp: 250°C

Det. Temp: 330°C

Det. Type: FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Date Mixed: 02-Aug-2022

Balance: 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022 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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis





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. Received by CG on 31086 Lot No.: A0189418 Catalog No. : 12/28/22 **Description :** B/N Surrogate Mix (4/89 SOW) Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul \$10981 Container Size : 5 mL Pkg Amt: > 5 mL 40 **Expiration Date :** August 31, 2028 10°C or colder Storage: 511010 Handling: Sonicate prior to use. Ship: Ambient

CERTIFIED VALUES

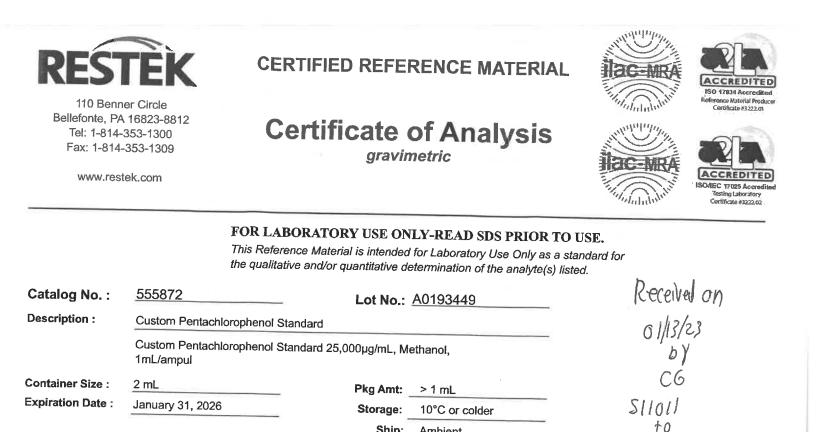
Elution Order			Compound	Grav. ((weight/v			Expanded I (95% C.L.; I		
1	Nitrober CAS # Purity	nzene-d5 4165-60-0 99%	(Lot PR-29940A)	5,009.8	μg/mL	+/- +/- +/-	29.1271 225.6421 250.3778	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
2	2-Fluoro CAS # Purity	biphenyl 321-60-8 99%	(Lot 00021384)	5,026.6	µg/mL	+/- +/- +/-	29.2250 226.4003 251.2191	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
3	p-Terpho CAS # Purity	enyl-d14 1718-51-0 99%	(Lot PR-30504)	5,027.3	µg/mL	+/- +/- +/-	29.2289 226.4304 251.2524	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Methyle	ne chloride							

CAS # 75-09-2 Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.





					CERTIFIE	D VALUES
Componen t#	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 μg/mL	+/- 778.6378
Solvent:	Methanol CAS # 67-56-1 Purity 99%					

Ship:

Ambient

Anna T. Bin

Russ Bookhamer - Operations Technician (

Date Mixed: 11-Jan-2023 Balance: B442140311

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

Silo15



General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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





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	Naila la Mo	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
			- he "	
			1	
		QC: Ph	C Irma Belma	res

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

Read. by Ri on 7/293 E 3551

RE-02-01, Ed. 1



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: Grade: Batch Number: 0583 ACS GRADE 23B1556310

 Manufacture Date:
 12/14/2022

 Expiration Date:
 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

Additional Information

Analysis may have been rounded to significant digits in specification limits.

This document has been electronically produced and is valid without a signature.

We certify that this batch conforms to the specifications listed.

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA Product meets analytical specifications of the grades listed.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed:

ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)





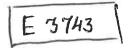
Material No.: 926 Batch No.: 24C016 Manufactured Date: 2024-C Expiration Date: 2025-C Revision I

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/ml.)	≤ 10	2
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %
		< 0.01 /0

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

Country of Origin: USA Packaging Site: Phillipsburg Mfg Ctr & DC Manufacturer source batch: MG24A04224



tematileo. Sr. Manager, Quality Assurance

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 Page 1 of 1 Methylene Chloride ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)

(Vavantor"



Material No.: 9266-A4 Batch No.: 24C0162011 Manufactured Date: 2024-01-04 Expiration Date: 2025-04-04 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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA Packaging Site: Phillipsburg Mfg Ctr & DC Manufacturer source batch: MG24A04224

temetrel.

Ken Koehnlein Sr. Manager, Quality Assurance

Methylene Chloride ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)





Material No.: 9266-A4 Batch No.: 24D1962005 Manufactured Date: 2024-03-16 Expiration Date: 2025-06-15 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 Heptachlor Epoxide) Single Peak (pg/mL) ≤ 10	8	
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for wate	r) ≥ 99.8 %	99.9 %	
Color (APHA)	≤ 10	5	
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm	
Titrable Acid (µeq/g)	≤ 0.3	< 0.1	
Chloride (Cl)	≤ 10 ppm	< 5 ppm	
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %	

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

Country of Origin: USA Packaging Site: Phillipsburg Mfg Ctr & DC Manufacturer source batch: MG24C16563

E 3759

Alloak

Jamie Croak Director Quality Operations, Bioscience Production Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

(Vavantor"



Material No.: 9254-03 Batch No.: 23H1462005 Manufactured Date: 2023-07-26 Expiration Date: 2026-07-25 Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected for water)	≥ 99.4 %	
Color (APHA)	≤ 10	99.7 % 5
Residue after Evaporation	0 ppm	о 0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Fitrable Base (μeq/g)	≤ 0.6	< 0.1
Vater (H2O)	≤ 0.5 %	0.3 %
D-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

E 3763 6120124 Recd. by RP ON



Ken Koehnlein Sr. Manager, Quality Assurance

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)





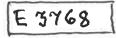
Material No.: 9266-A4 Batch No.: 24E2462004 Manufactured Date: 2024-04-10 Expiration Date: 2025-07-10 Revision No.: 0

Certificate of Analysis

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	3
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0 . 02 %	< 0.01 %

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

Country of Origin: USA Packaging Site: Phillipsburg Mfg Ctr & DC Manufacturer source batch: MG24D10725



ACioak
Jamie Croak Director Quality Operations, Bioscience Production

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 Page 1 of 1 Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

(Vavantor)



Material No.: 9254-03 Batch No.: 23H1462005 Manufactured Date: 2023-07-26 Expiration Date: 2026-07-25 Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH3)2CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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 %	0.3 %
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. by RP on 7/2124 E 3769



PO: PO1-9448 PRODUCT CODE: SHIP DATE: 7/16/2024

Methylene Chloride ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)



Material No.: 9266-A4 Batch No.: 24F1062004 Manufactured Date: 2024-04-15 Expiration Date: 2025-07-15 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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

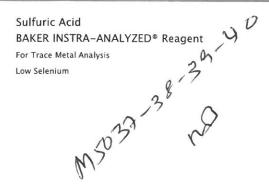
For Laboratory,Research,or Manufacturing Use MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA Packaging Site: Phillipsburg Mfg Ctr & DC Manufacturer source batch: MG24D15750

E 3786

Alioak Director Quality Operations, Bioscience Production

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 Page 1 of 1







Material No.: 9673-33 Batch No.: 0000250349 Manufactured Date: 2019/12/17 Retest Date: 2024/12/15 Revision No: 1

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS – Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS – Substances Reducing Permanganate (as SO2)	<= 2 ppm	< 2
Ammonium (NH4)	<= l ppm	< 1
Chloride (CI)	<= 0.1 ppm	< 0.1
Nitrate (NO3)	<= 0.2 ppm	< 0.1
Phosphate (PO4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities – Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities – Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

Certificate of Analysis

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Material No.: 9673-33 Batch No.: 0000250349

Test	Specification	Result
Trace Impurities – Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	< 0.4
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 10.0 ppb	
Trace Impurities – Potassium (K)	<= 500.0 ppb	< 1.0
Trace Impurities – Selenium (Se)	<= 50.0 ppb	< 2.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	22.9
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 10.0
Trace Impurities - Sodium (Na)	<= 500.0 ppb	< 0.3
Trace Impurities – Strontium (Sr)	<= 500.0 ppb	2.7
Trace Impurities – Tantalum (Ta)	<= 3.0 ppb <= 0.0 ppb	< 0.2
Trace Impurities – Thallium (TI)	<= 20.0 ppb	< 5.0
Trace Impurities – Tin (Sn)		< 5.0
Trace Impurities – Titanium (Ti)	<= 5.0 ppb	< 0.8
Trace Impurities – Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities – Zinc (Zn)	<= 10.0 ppb	< 1.0
Trace Impurities – Zirconium (Zr)	<= 5.0 ppb	0.3
	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: Packaging Site:

US Phillipsburg Mfg Ctr & DC

James Techie

Jamie Ethier Vice President Global Quality

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

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Santa Rosa, CA 95403 5580 Skylane Blvd

(800)878-7654 Toll Free (707)525-5788

S11434 J 4.P. Manufacturer's Quality System Audited & Registered by TUV USA to ISO 9001:2015

J.

(707)545-7901 Fax

Date Received:

Page 1 of 1 **Description:** Rev 0 **Certificate of Analysis** Exp. Date: Solvent:

Catalog No.: Lot No.: Sto	Storage:	Solvent:	Exp. Date:	Description:	tion:
Z-110094-02 503442 ≤-	≤ -10 °C	Methylene Chloride	8/26/2024 CLP B6	8/26/2024 CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml	ion, 5,000 mg/L, 1 ml
Compound		CAS No.		Purity (%) Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene- d_{a}		2199-69-1	2.66	247.29.3P	5052 ± 122.61
2-fluorobiphenyl		321-60-8	7.66	8.7.1.1P	5005 ± 121.47
nitrobenzene-d,		4165-60-0	100	7.9.2P	5040 ± 122.21
p-terphenyl-d ₁₄		1718-51-0	9.66	9.12.9P	5 027 ± 122

p-terphenyl-d1a

"Not a certified value

Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly. All weights are traceable through N. I. S. T. Test No. 822/264157-00.

Joanna Radu Chemist

Jours Laber

Certified By:





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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis





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. :	555223	Lot No.: A0201940	511539	2
Description :	Custom 8270 Plus Standard #1	Lot No <u>A0201940</u>	311331	Y.P.
	Custom 8270 Plus Standard #1 1,000 1mL/ampul	µg/mL, Methylene Chloride,	J	09119
Container Size :	2 mL	Pka Amtro Starl		60510
Expiration Date :	September 30, 2025	Pkg Amt: > 1 mL Storage: 10°C or colder	51568	···)
Handling:	This product is photosensitive.	Storage: 10°C or colder Ship: Ambient		J

CERTIFIED VALUES

Componen t #		CAS #	Lot #		and the second second	Expanded
1	3,3'-Dichlorobenzidine		Lot #	Purity	(weight/volume)	Uncertainty * (95% C.L.; K=2)
2	Atrazine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
3	Benzidine	1912-24-9	5FYWL	99%	1,010.0 μg/mL	+/- 23.1865
4		92-87-5	S221205RSR		1,008.0 μg/mL	+/- 23.1406
	epsilon-Caprolactam	105-60-2	I16X016		1,008.0 μg/mL	
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%					+/- 23.1406

Lowmie Moodler				REVIEWED By Jennifer Pollino at 7-10 am, Sup 13, 2023	
Sam Moodler - Operations Tech I	Date Mixed:	13-Sep-2023	Balance:	B345965662	Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397



Seneral Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

- k is a coverage factor of 2, which gives a level of confidence of approximately 95%. The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure
- that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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





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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. :	31853	Lot No.:	A0196453	_ SII749) , 1
Description :	1,4-dioxane			_ (KC)
	1,4-Dioxane 2,000µg/mL, Me	sthylene Chloride, 1mL/arr	ipul	
Container Size :	2 mL	Pkg Amt:	> 1 mL	_ SII794 / 11/30/23
Expiration Date :	March 31, 2028	Storage:	0°C or colder	5//
		Ship:	Ambient	

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

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

Solvent: Methylene chloride CAS # 75-09-2 Purity 99%



Quality Confirmation Test





General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

그는 방법에 있는 것 같아요. 이 것 같은 것 같은 것이 있다.	
	$u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage stability}^2 + u_{shipping stability}^2$
$U_{combined uncertainty} = k$	11^{4} $\pm 11^{2}$
- compinea uncertainty	"gravimetric ' "homogeneity ' "storage stability ' "shipping stability
an a	a stability stability

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

• The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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





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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. :	31853	Lot No.:	A0196453	_ SII749) , 1
Description :	1,4-dioxane			_ (KC)
	1,4-Dioxane 2,000µg/mL, Me			
Container Size :	2 mL	Pkg Amt:	> 1 mL	_ SII794 / 11/30/23
Expiration Date :	March 31, 2028	Storage:	0°C or colder	5//
		Ship:	Ambient	

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

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

Solvent: Methylene chloride CAS # 75-09-2 Purity 99%



Quality Confirmation Test





General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

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그는 방법에 있는 것 같아요. 이 것 같은 것 같은 것이 있다.	
	$u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage stability}^2 + u_{shipping stability}^2$
$U_{combined uncertainty} = k$	11^{4} $\pm 11^{2}$
- compinea uncertainty	"gravimetric ' "homogeneity ' "storage stability ' "shipping stability
an a	a stability stability

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

• The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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





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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. :	31206	Lot No.:	A0201320	
Description :	SV Internal Standard Mix 2mg/ml	512013 pr		
	SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul			V (XC 12/26/23
Container Size :	2 mL	Pkg Amt:	> 1 mL	512042 12/26/23
Expiration Date :	July 31, 2029	Storage:	10°C or colder	
Handling:	Sonication required. Mix is photosensitive.	Ship:	Ambient	

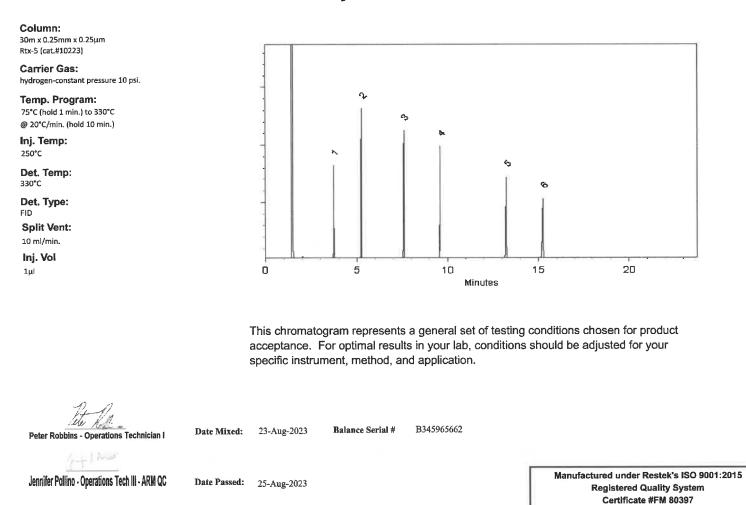
CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 μg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 μg/mL	+/- 90.6517

Solvent: Methylene chloride CAS # 75-09-2 Purity 99% * Expanded Uncertainty displayed in same units as Grav. Conc.



Quality Confirmation Test







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Catalog No. :	31206	Lot No.:	A0201320	
Description :	SV Internal Standard Mix 2mg/ml	512013 pr		
	SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul			V (XC 12/26/23
Container Size :	2 mL	Pkg Amt:	> 1 mL	512042 12/26/23
Expiration Date :	July 31, 2029	Storage:	10°C or colder	
Handling:	Sonication required. Mix is photosensitive.	Ship:	Ambient	

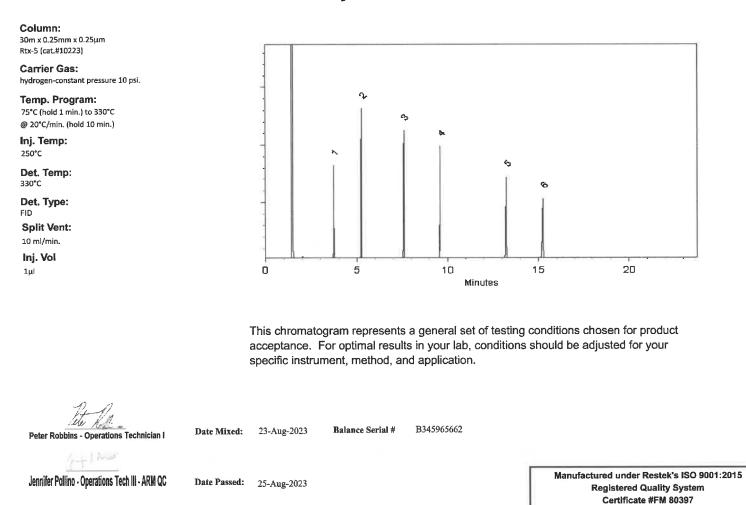
CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 μg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 μg/mL	+/- 90.6517

Solvent: Methylene chloride CAS # 75-09-2 Purity 99% * Expanded Uncertainty displayed in same units as Grav. Conc.



Quality Confirmation Test







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Date Received:

Certificate of Analysis Rev 0 Page 1 of 1

Catalog No.: Lot No.: Storage:		Solvent:	Exp. Date:		Descrij	ription:		
Z-110816-01 414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL				
Compo	Compound CAS No. Purity (%) Compound Lot No. Concentration, mg/							
atrazine		1912-24-9	99	0.5	337.7.3P	997 ± 5.81		
benzidine		92-87-5	87-5 99.9 124.18.6.2		124.18.6.2P	991.8 ± 5.77		
caprolactam		105-60-2	99	9.9	271.1.6P	999 ± 5.82		

S12075) RC J J J 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:

Shane Overcash Chemist All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.



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CERTIFIED REFERENCE MATERIAL



gravimetric



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.

Catalog No. :	555224	Lot No.:	A0207706	
Description :	Custom 8270 Plus Standard #	512082 7 RC/		
	Custom 8270 Plus Standard # 1mL/ampul	512111) 02/22/24		
Container Size :	2 mL	Pkg Amt:	> 1 mL	512111) 00100101
Expiration Date :	February 28, 2026	Storage:	10°C or colder	
		Ship:	Ambient	

CERTIFIED VALUES

Componen t#	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 μg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride 75-09-2 CAS# Purity 99%

Ma Futti

12-Feb-2024

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

John Friedline - Operations Technician I

Date Mixed:

Balance: B345965662



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CERTIFIED REFERENCE MATERIAL



gravimetric



Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. :	555224	Lot No.:	A0207706	
Description :	Custom 8270 Plus Standard #	512082 7 RC/		
	Custom 8270 Plus Standard # 1mL/ampul	512111) 02/22/24		
Container Size :	2 mL	Pkg Amt:	> 1 mL	512111) 00100101
Expiration Date :	February 28, 2026	Storage:	10°C or colder	
		Ship:	Ambient	

CERTIFIED VALUES

Componen t#	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 μg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride 75-09-2 CAS# Purity 99%

Ma Futti

12-Feb-2024

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

John Friedline - Operations Technician I

Date Mixed:

Balance: B345965662



5580 Skylane Blvd Santa Rosa, CA 95403

(707)525-5788 (800)878-7654 Toll Free (707)545-7901 Fax Manufacturer's Quality System Audited & Registered by TUV USA to ISO 9001:2015

Date Received:_

Certificate of Analysis Rev 0 Page 1 of 1 Solvent: Exp. Date: Catalog No.: Lot No.: **Storage: Description:** 1,4-Dioxane Solution, 2000 mg/L, 6/10/2026 Z-020223-01 454157 ≤-10 °C P/T Methanol 1 mL Compound CAS No. Purity (%) **Compound Lot No.** Concentration, mg/L 123-91-1 100 1,4-dioxane 223.1.3P 1997 ± 57.08

512112] RC/ V] 03/08/24

*Not a certified value

Melson Ubr

Certified By:

Melissa Workoff Chemist All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetriclly.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



hilid

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.

Catalog No. :	31850	Lot No.: <u>A0203726</u>	ô	6121177 RC/
Description :	8270 MegaMix®			
	8270 MegaMix® 500-1000 μg/mL, I	/lethylene Chloride, 1mL/ampu	d	1 03/18/24
Container Size :	2 mL	Pkg Amt: > 1 mL		512146
Expiration Date :	April 30, 2025	Storage: 0°C or col	lder	5/2/40
Handling:	Sonication required. Mix is photosensitive.	Ship: Ambient		

CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 μg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	μg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1 000 0	μg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	μg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	μg/mL	+/- 36.7302
64	Рутепе	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	μg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1 002 0	μg/mL	+/- 36.4876

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

Solvent: Methylene chloride CAS # 75-09-2 Purity 99% ,



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



hilid

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.

Catalog No. :	31850	Lot No.: <u>A0203726</u>	ô	6121177 RC/
Description :	8270 MegaMix®			
	8270 MegaMix® 500-1000 μg/mL, I	/lethylene Chloride, 1mL/ampu	d	1 03/18/24
Container Size :	2 mL	Pkg Amt: > 1 mL		512146
Expiration Date :	April 30, 2025	Storage: 0°C or col	lder	5/2/40
Handling:	Sonication required. Mix is photosensitive.	Ship: Ambient		

CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 μg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	μg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	μg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1 000 0	μg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	μg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	μg/mL	+/- 36.7302
64	Рутепе	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	μg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1 002 0	μg/mL	+/- 36.4876

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

Solvent: Methylene chloride CAS # 75-09-2 Purity 99% ,