

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

Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order	ID :	P3429
Jiuei	. טו	1 0-120

Test: SVOC-SIMGroup1

Prepbatch ID: PB162424,

Sequence ID/Qc Batch ID: BN080324,

Star	ndard	ın ·

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

Chemical ID:

E3551, E3657, E3743, E3746, E3759, E3763, E3768, E3769, E3771, M5037, S10102, S10247, S10782, S10977, S11003, S11012, S1096, S11434, S11566, S11766, S11767, S12023, S12029, S12075, S12096, S12097, S12112, S12117, S12118, W2606, W3112, W3112



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Extractions STANDARD PREPARATION LOG

314 1.1 H2SO4 SOLN EP2499 06/17/2024 10/24/2024 Rajesh Parikh None None SHAH 06/17/2024	Re	ecipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By RUPESHKUMAR
		314	1.1 H2SO4 SOLN	EP2499	06/17/2024	10/24/2024	Rajesh Parikh	None	None	SHAH

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By RUPESHKUMAR
1874	10 N SODIUM HYDROXIDE SOLN	EP2514	07/17/2024	01/17/2025	Rajesh Parikh	None	None	SHAH 07/17/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml



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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Rajesh Parikh
3923	Baked Sodium Sulfate	EP2518	07/26/2024	01/03/2025	RUPESHKUMA	Extraction_SC	None	
					R SHAH	ALE_2		07/26/2024
	100000 (50554 5: 10		-	(EX-SC-2)				

FROM 1.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u> 3493	NAME Internal Standard 0.4 PPM	NO. SP6516	Prep Date 05/21/2024	<u>Date</u> 10/30/2024	<u>By</u> Jagrut	ScaleID None	PipetteID None	mohammad ahmed
					Upadhyay			05/21/2024

FROM 0.02000ml of S12023 + 0.98000ml of E3743 = Final Quantity: 1.000 ml



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SVOC STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
3493	Internal Standard 0.4 PPM	<u>SP6527</u>	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	ahmed 07/05/2024

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	mohammad
3491	8270-SIM-Surrogate 0.4 PPM	<u>SP6541</u>	06/27/2024	11/21/2024	Rahul Chavli	None	None	ahmed 07/05/2024

FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3763 = Final Quantity: 100.000 ml



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SVOC STANDARD PREPARATION LOG

3355 8270-SIM MDL-3.2PPM SP6547 07/08/2024 11/21/2024 Jagrut None None ahmed CALIBRATION STOCK SOL- 2ND Upadhyay 07/08/2024	Recipe ID	NAME	NO.	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
	3355		<u>SP6547</u>	07/08/2024	11/21/2024		None	None	

FROM 0.0063

0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	<u>SP6548</u>	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	ahmed 07/08/2024

FROM

SOURCE 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml





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SVOC STANDARD PREPARATION LOG

3339 8270 sim calibration stock SP6562 07/10/2024 08/26/2024 Jagrut None None ahmed 07/11/2024 Upadhyay		<u>cipe</u> D	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
	33	339		<u>SP6562</u>	07/10/2024	08/26/2024		None	None	

FROM 0.03350ml of S10102 + 0.05000ml of S11434 + 0.12500ml of S10782 + 0.12500ml of S12112 + 0.25000ml of S11096 + 0.25000ml of S12075 + 24.16650ml of E3768 = Final Quantity: 25.000 ml

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>	mohammad
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	<u>SP6563</u>	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	ahmed 07/11/2024

FROM 0.50000ml of E3768 + 0.01000ml of SP6516 + 0.50000ml of SP6562 = Final Quantity: 1.010 ml



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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	<u>SP6564</u>	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	ahmed 07/11/2024

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	<u>SP6565</u>	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	ahmed 07/11/2024

FROM 0.84000ml of E3768 + 0.01000ml of SP6516 + 0.16000ml of SP6562 = Final Quantity: 1.010 ml



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SVOC STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	<u>SP6566</u>	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	ahmed 07/11/2024

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	mohammad
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	<u>SP6567</u>	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	ahmed 07/11/2024

FROM 0.96000ml of E3768 + 0.01000ml of SP6516 + 0.04000ml of SP6562 = Final Quantity: 1.010 ml



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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By mohammad
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	<u>SP6568</u>	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	ahmed 07/11/2024

FROM 0.50000ml of E3768 + 0.01000ml of SP6516 + 0.50000ml of SP6567 = Final Quantity: 1.010 ml

	Recipe				<u>Expiration</u>	<u>Prepared</u>			Supervised By
	<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	mohammad
	3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	<u>SP6569</u>	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	ahmed 07/11/2024
L		CALIBRATION SOLUTION				Opauriyay			07/11/2024

FROM 0.75000ml of E3768 + 0.01000ml of SP6516 + 0.25000ml of SP6567 = Final Quantity: 1.010 ml



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SVOC STANDARD PREPARATION LOG

Recipe				Expiration	Prepared			Supervised By			
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel			
3492	8270-SIM-Spike 0.4 PPM	SP6572	07/12/2024	10/26/2024	Rahul Chavli	None	None	· ·			
								07/30/2024			
FROM	FROM 0.00080ml of S11012 + 0.01000ml of S11767 + 0.02000ml of S11566 + 0.02000ml of S12097 + 0.02000ml of S12118 +										

0.00080ml of S11012 + 0.01000ml of S11767 + 0.02000ml of S11566 + 0.02000ml of S12097 + 0.02000ml of S12118 + 49.92920ml of E3769 = Final Quantity: 50.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Yogesh Patel
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Ü
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml



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 /	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	01/19/2025	07/19/2024 / Rajesh	07/16/2024 / Rajesh	E3771
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 /	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,	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 /	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
	[CS 4978-1]		_			
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	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766
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 <i>/</i> 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 /	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 /	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 /	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 #
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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:___

Certificate of Analysis

Exp. Date:

Rev 0

Description:

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Catalog No.: Lot No.: Z-112090 440246	Storage: ≤-10 °C	Solvent: Methylene Chloride	2/16/2026	CLP	Acid Surrogate Solution	
-04 Compo	ınd	CAS No.	Purity ((%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d₄		93951-73-6	99.3		248.12.7P	7487 ± 17.2
2-fluorophenol		367-12-4	99.8		10.7.3.3P	7513 ± 17.26
phenol-d6		13127-88-3	99.9		949.120.8P	7481 ± 17.19
2,4,6-tribromophenol		118-79-6	99.8		12.1.6P	7469 ± 17.17

Solvent:

Receivedon 02/25/21 CG 59236 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

Certified By:

Erica Castiglione Chemist

Erroce Cost

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 Receivedon 02-107/23 by CG

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

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

Data	Recei	TTO 4.		
Jale	K CCCI	VCU.	 	

Certificate of Analysis

Rev 0

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Catalog No.: Lot No.: Storage:		Solvent:	Exp. Date:	Descri	ption:
Z-110381-01 495831	≤-10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution	a, 76-1, 500 & 1,000 mg/L, 1 mL
Comp	ound	CAS No.	Purit	y (%) Compound Lot No.	Concentration, mg/L
acenaphthene		83-32-9	99	9.9 13.1.5P	1003 ± 17.27

Compound	CAS No.	Furity (76)	Compound Lot 110.	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	$1001\ \pm 17.23$
bis(2-chloro-1-methylethyl) ether	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 \pm 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

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

Page 4 of 4

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

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 gravimetrically.



CERTIFIED REFERENCE MATERIAL



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

Certificate of Analysis





Receivedon

03/18/22

510242

40

510247

www.restek.com

Catalog No.:

Handling:

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Lot No.: A0182667

Description: GC/MS Tuning Mixture

31615

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Expiration Date:** March 31, 2025

Contains carcinogen/reproductive

toxin.

Pkg Amt: > 1 mL

Ship:

Storage: 10°C or colder **Ambient**

CERTIFIED VALUES

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

Solvent:

Methylene chloride

CAS# 75-09-2 99% Purity

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:

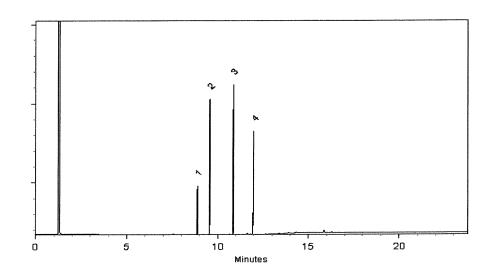
250°C

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

Marlina THAN
arlina Cowan - Operations Tech I

Date Passed:

10-Mar-2022

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



CERTIFIED REFERENCE MATERIAL



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

Certificate of Analysis





www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

> 1 mL

Ambient

10°C or colder

Pkg Amt:

Storage:

Ship:

Catalog No.: 33913 Lot No.: A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL

/ampul

Container Size : 2 mL

Expiration Date: May 31, 2028

Handling: Sonication required. Mix is

photosensitive.

09/07/22 by

CG

Reveiled on

810778

810782

CERTIFIED VALUES

Elution Order		- Com	oound	Grav. ((weight/v	Conc volume)		Expanded l (95% C.L.; I		
1	2-Methy CAS # Purity	rlnaphthalene-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: 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:

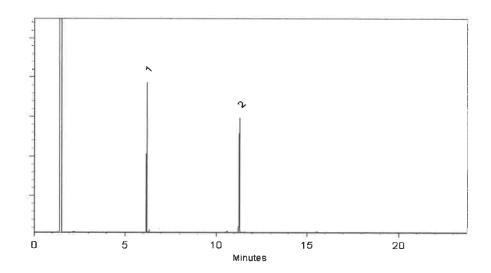
250°C

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.

John Friedline - Operations Technician I

n I

Date Mixed:

09-Jun-2022

Balance: B442140311

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



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

Certificate of Analysis





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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

31087

Lot No.: A0188108

Description:

Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size: **Expiration Date:** 5 mL

August 31, 2030

> 5 mL Pkg Amt:

Storage:

10°C or colder

Ambient

Ship:

Received by C6 on 12/28/22

S10951

510980

CERTIFIED VALUES

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

67-56-1

CAS# **Purity**

99%

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



CERTIFIED REFERENCE MATERIAL

ference Material Produce

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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.:

Description:

31086

Lot No.: A0189418

Received by CG on

B/N Surrogate Mix (4/89 SOW)

12/28/22

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size:

5 mL

Pkg Amt: > 5 mL \$10981

Expiration Date:

August 31, 2028

10°C or colder Storage:

Handling:

Sonicate prior to use.

Ship: Ambient Silolo

CERTIFIED VALUES

Elution Order			Compound	Grav. ((weight/\			Expanded U (95% C.L.; K		
1	Nitroben: CAS # Purity	zene-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-Fluorol CAS # Purity	oiphenyl 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-Terphe CAS # Purity	nyl-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:

Methylene 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.

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:



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.

offen This

John Friedline - Operations Technician I

Date Mixed:

09-Sep-2022

Balance: 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

13-Sep-2022

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



110 Benner Circle Bellefonte, PA 16823-8812

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

CERTIFIED REFERENCE MATERIAL











Certificate of Analysis gravimetric

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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.:

555872

Lot No.: A0193449

Received on

Description:

Custom Pentachlorophenol Standard

01/13/23

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size:

2 mL

Pkg Amt:

Expiration Date:

January 31, 2026

10°C or colder Storage:

SIIOII

Ship:

Ambient

Silois

CERTIFIED VALUES

Componer t#	1	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#

Purity

67-56-1 99%

Parker 7. Brown

Russ Bookhamer - Operations Technician I

Date Mixed:

11-Jan-2023

Balance: B442140311

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



General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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





MIRADOR 201, COL. MIRADOR MONTERREY, N.L. MEXICO CP 64070 TEL +62 81 13 52 57 57 www.pqm.com,mx

CERTIFICATE OF ANALYSIS

PRODUCT:

SODIUM SULFATE CRYSTALS ANHYDROUS

QUALITY:

ACS (CODE RMB3375)

FORMULA:

Na₂SO₄

SPECIFICATION NUMBER: 6399

RELEASE DATE:

ABR/21/2023

LOT NUMBER:

313201

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.4
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	25%
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

Recd. by Ri on 7/4/3 E 3551

RE-02-01, Del



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material:

0583

Grade:

ACS GRADE

Batch Number:

23B1556310

Chemical Formula:

NaOH

Molecular Weight: CAS#:

Appearance:

1310-73-2

Storage:

Manufacture Date:

Expiration Date:

Room Temperature

12/14/2022

12/31/2025

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

We certify that this batch conforms to the specifications listed.

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

Leona Edwardson, Quality Control Sr. Manager - Solon VWR Chemicals, LLC. 28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

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

Product meets analytical specifications of the grades listed.

ULTRA RESI-ANALYZED For Organic Residue Analysis (dichloromethane)





Material No.: 926

Batch No.: 24C016

Manufactured Date: 2024-0

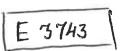
Expiration Date: 2025-C Revision I

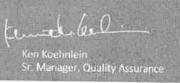
Certificate of Analysis

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
Fitrable Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Vater (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





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





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 (CI)	≤ 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

E 3746

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 water)	≥ 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 (CI)	≤ 10 ppm	< 5 ppm
Nater (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

Cloak

Jamie Croak

Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis





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	≤ 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 (H ₂ O)	≤ 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 6120124

kennetskel:

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
Fitrable Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (CI)	≤ 10 ppm	5 ppm
Nater (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



Director Quality Operations, Bioscience Production





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 ((CH ₃) ₂ CO) (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

Reed. by RP on 7/2124

E 3769

Ken Koehnlein

Sr. Manager, Quality Assurance

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

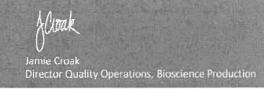
Certificate of Analysis

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 3771



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





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

Manufactured Date: 2019/12/17 Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

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 SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (CI)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (AI)	<= 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

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	< 0.1
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	< 1.0
Trace Impurities – Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities – Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities – Silicon (Si)	<= 100.0 ppb	
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 10.0
Trace Impurities – Sodium (Na)	<= 500.0 ppb	< 0.3
Trace Impurities – Strontium (Sr)	<= 5.0 ppb	2.7
Trace Impurities – Tantalum (Ta)	<= 10.0 ppb	< 0.2
Trace Impurities – Thallium (TI)	<= 20.0 ppb	< 5.0
Frace Impurities – Tin (Sn)	<= 5.0 ppb	< 5.0
Frace Impurities – Titanium (Ti)		< 0.8
race Impurities – Vanadium (V)	<= 10.0 ppb	< 1.0
race Impurities – Zinc (Zn)	<= 10.0 ppb	< 1.0
race Impurities – Zirconium (Zr)	<= 5.0 ppb	0.3
Zircomain (Zi)	<= 10.0 ppb	< 1.0

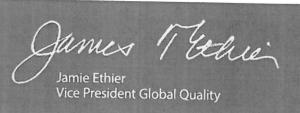
For Laboratory, Research or Manufacturing Use

Country of Origin:

US

Packaging Site:

Phillipsburg Mfg Ctr & DC





Santa Rosa, CA 95403 5580 Skylane Blvd

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

Manufacturer's Quality System Audited & Registered

511434 JY.P.

by TUV USA to ISO 9001:2015

Date Received:

Page 1 of Rev 0 Certificate of Analysis

 5040 ± 122.21 5005 ± 121.47 5052 ± 122.61 Concentration, mg/L 5027 ± 122 CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml Description: Compound Lot No. 247,29.3P 8.7.1.1P 9.12.9P 7.9.2P Purity (%) 7.66 9.66 99.7 100 Exp. Date: 8/26/2024 CAS No. 2199-69-1 321-60-8 4165-60-0 1718-51-0 Methylene Chloride Solvent: ≤-10°C Storage: Compound Catalog No.: Lot No.: 503442 1,2-dichlorobenzene-d₄ 2-fluorobiphenyl nitrobenzene-d, p-terphenyl-d14 Z-110094-02

*Not a certified value

Journ Lades Certified By:

Joanna Radu

Chemist

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

, 168









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

www.restek.com

Certificate of Analysis gravimetric

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

Description:

Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride,

1mL/ampul

Container Size :

2 mL

Expiration Date:

September 30, 2025

Pkg Amt:

10°C or colder Storage:

Handling:

This product is photosensitive.

Ship: Ambient

CERTIFIED VALUES

Componen					CERTIFIED VALUES		
t#	Compound	CAS#	Lot #	Purity	Grav. Conc.	Expanded Uncertainty *	
1	3,3'-Dichlorobenzidine	91-94-1	Gooden		(weight/volume)	(95% C.L.; K=2)	
2	Atrazine	71 -74- 1	S230321RSR	99%	1,001.0 μg/mL	+/- 22.9799	
2		1912-24-9	5FYWL	99%	1,010.0 μg/mL	1/ 22 10 (
3	Benzidine	92-87-5	0001017			+/- 23.1865	
4	epsilon-Caprolactam	72-07-3	S221205RSR	99%	1,008.0 μg/mL	+/- 23.1406	
	- F-11011 CapitolaClain	105-60-2	I16X016	99%	1,008.0 μg/mL		
Solvent:	vent: Methylene chloride				1,000.0 µg/III_	+/- 23.1406	

CAS#

75-09-2 Purity 99%

Sam Monder Operations Tech I

REVIEWED

Date Mixed:

13-Sep-2023

Balance: B345965662

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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www.restek.com

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. :

31853

Lot No.: A0196453

311749

1

211791

110/

Description:

1,4-dioxane

March 31, 2028

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : Expiration Date : 2 mL

Pkg Amt:

> 1 mL

Storage:

0°C or colder

Ship:

Ambient

CERTIFIED VALUES

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

^{*} Expanded Uncertainty displayed in same units as Gray. Conc.

Solvent:

Methylene chloride

CAS#

75-09-2

Purity

99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C @ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

Split Vent:

100 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.

Sam Moodler - Operations Tech I

Date Mixed:

30-Mar-2023

Balance Serial #

B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

31-Mar-2023



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/μΕCD, 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.













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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

311749

1

211791

110/

Description:

1,4-dioxane

March 31, 2028

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : Expiration Date : 2 mL

Pkg Amt:

> 1 mL

Storage:

0°C or colder

Ship:

Ambient

CERTIFIED VALUES

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

^{*} Expanded Uncertainty displayed in same units as Gray. Conc.

Solvent:

Methylene chloride

CAS#

75-09-2

Purity

99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C @ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

Split Vent:

100 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.

Sam Moodler - Operations Tech I

Date Mixed:

30-Mar-2023

Balance Serial #

B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

31-Mar-2023



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/μΕCD, 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.













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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

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride,

1mL/ampul

Container Size: **Expiration Date:**

Handling:

2 mL

July 31, 2029

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1 mL

10°C or colder Storage:

> 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

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

Solvent:

Methylene chloride

CAS# Purity

75-09-2 99%

Quality Confirmation Test

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:

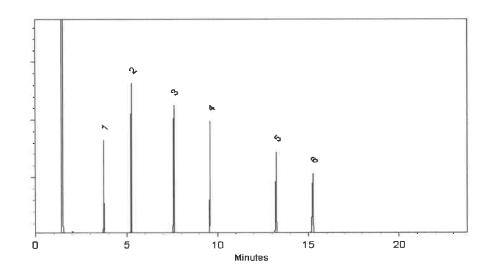
Det. Type:

FID

Split Vent:

10 ml/min.

Inj. Vol 1μΙ



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.

Peter Robbins - Operations Technician I

Date Mixed:

23-Aug-2023

Balance Serial #

B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023











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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

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride,

1mL/ampul

Container Size: **Expiration Date:**

Handling:

2 mL

July 31, 2029

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1 mL

10°C or colder Storage:

> 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

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

Solvent:

Methylene chloride

CAS# Purity

75-09-2 99%

Quality Confirmation Test

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:

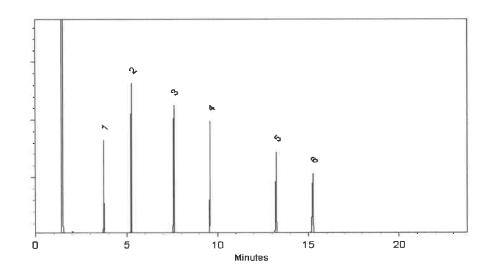
Det. Type:

FID

Split Vent:

10 ml/min.

Inj. Vol 1μΙ



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.

Peter Robbins - Operations Technician I

Date Mixed:

23-Aug-2023

Balance Serial #

B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023



Z-110816-01 414127

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

6/21/2025

Rev 0

Description:

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	
				0000

≤-10 °C

Methylene Chloride

Custom 8270 Mix, 4-79,

1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075) RC S12079) 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.



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









Certificate of Analysis gravimetric

www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

555224

Lot No.: A0207706

Description:

Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride,

1mL/ampul

Container Size: Expiration Date: 2 mL

February 28, 2026

Pkg Amt:

> 1 mL

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

CAS# Purity

75-09-2

99%

John Friedline - Operations Technician I

Date Mixed:

12-Feb-2024

Balance: B345965662



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









Certificate of Analysis gravimetric

www.restek.com

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

555224

Lot No.: A0207706

Description:

Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride,

1mL/ampul

Container Size: Expiration Date: 2 mL

February 28, 2026

Pkg Amt:

> 1 mL

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

CAS# Purity

75-09-2

99%

John Friedline - Operations Technician I

Date Mixed:

12-Feb-2024

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

Catalog No.: Lot No.:

Storage:

Exp. Date:

Description:

Z-020223-01 454157

≤-10 °C

Solvent: P/T Methanol

6/10/2026

1,4-Dioxane Solution, 2000 mg/L,

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

1,4-dioxane

Certified By:

123-91-1

100

223.1.3P

 1997 ± 57.08

512112 } RC/ \$12116) 03/08/24

*Not a certified value

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.













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

www.restek.com

Certificate of Analysis chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

31850

Lot No.: A0203726

Description:

8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size: Expiration Date:

Handling:

Pkg Amt:

> 1 mL

April 30, 2025

Storage:

0°C or colder

Sonication required. Mix is photosensitive.

Ship: Ambient

CERTIFIED VALUES

512117 | RC/ V 03/18/24 512146

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%	1,002.0	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	Pyrene	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%	1,002.9 μg/mL	+/- 36.4876

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

Solvent: Methylen

Methylene chloride

CAS # 75-09-2 Purity 99%

	•			













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

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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.:

31850

Lot No.: A0203726

Description:

8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size: Expiration Date:

Handling:

2 mL

Pkg Amt:

> 1 mL

April 30, 2025

Storage:

0°C or colder

Sonication required. Mix is photosensitive.

Ship: Ambient

CERTIFIED VALUES

512117 | RC/ V 03/18/24 512146

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%	1,002.0	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	Pyrene	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%	1,002.9 μg/mL	+/- 36.4876

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

Solvent: Methylen

Methylene chloride

CAS # 75-09-2 Purity 99%

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