

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

8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID: Q1803

Test: TCLP BNA

Prepbatch ID: PB167606,

Sequence ID/Qc Batch ID: bm041625,BP041525,BP041625,

Standard ID:

EP2559,EP2565,EP2599,SP6685,SP6686,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,SP6752,SP6754,SP6757,SP6769,SP6770,

Chemical ID:

10ul/1000ul

sample, E3551, E3657, E3828, E3874, E3876, E3902, E3904, E3926, M5173, S10104, S10397, S10584, S11074, S11087, S11143, S11161, S11487, S11495, S11650, S11785, S11786, S11787, S11788, S12114, S12142, S12189, S12190, S12191, S12192, S12193, S12194, S12195, S12208, S12209, S12210, S12211, S12212, S12213, S12214, S12215, S12216, S12270, S12276, S12327, S12469, S12478, S12479, S12480, S12481, S12482, S12483, S12484, S12485, S12486, S12517, S12525, S12526, S12527, S12528, S12529, S12530, S12531, S12532, S12533, S12534, S12577, S12649, S12658, S12659, S12791, S12966, S12967, S12968, S12969, S12970, S12971, S12972, S12973, S12974, W3112,





Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By RUPESHKUMAR
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE 2	None	SHAH 11/14/2024
	100000000000000000000000000000000000000				<u> </u>	(EX-SC-2)		11/14/2024

FROM	1000.00000ml of W3112 + 400.00000gram of E3657	= Final Quantity: 1000.000 ml
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Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	RUPESHKUMAR
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml



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Extractions STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Riteshkumar Patel
3923	Baked Sodium Sulfate	EP2599	04/07/2025	07/01/2025	Rajesh Parikh	Extraction_SC	None	
						ALE_2		04/07/2025
						(EX-SC-2)		

FROM 4000.0000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Yogesh Patel
18	Second Source Calibration Stock	<u>SP6685</u>	11/15/2024	04/10/2025	Jagrut	None	None	_
	Standard, 100 PPM, (8270/625/CLP)				Upadhyay			12/27/2024

FROM

0.04000ml of $\dot{S}12189 + 0.08000$ ml of $\dot{S}12208 + 0.1000$ ml of $\dot{S}11074 + 0.2000$ 0ml of $\dot{S}12142 + 0.2000$ 0ml of $\dot{S}12469 + 0.2000$ 0ml of $\dot{S}12517 + 1.1800$ 0ml of $\dot{S}328 = \dot{S}12142 + 0.2000$ 0ml



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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Yogesh Patel
416	40 ng BNA ICV, 40 PPM	<u>SP6686</u>	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 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 Shreena Patel
3764	8270/625 Stock solution 100 ng	<u>SP6721</u>	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml





SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Shreena Patel
413	80 ng BNA ICC, 80 PPM	<u>SP6722</u>	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	02/07/2025

FROM	0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml
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Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipettelD	Supervised By
412	60 ng BNA ICC, 60 PPM		01/30/2025	05/12/2025	Jagrut	None	None	Shreena Patel
					Upadhyay			02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml





SVOC STANDARD PREPARATION LOG

411 50 ng BNA ICC, 50 PPM SP6724 01/30/2025 05/12/2025 Jagrut Upadhyay None None 02/07/2025	Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Shreena Patel
	411	50 ng BNA ICC, 50 PPM	<u>SP6724</u>	01/30/2025	05/12/2025	_	None	None	02/07/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Shreena Patel
410	40 ng BNA ICC, 40 PPM	<u>SP6725</u>	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml





SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Shreena Patel
3678	20 ng BNA ICC, 20 PPM	<u>SP6726</u>	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	02/07/2025

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Shreena Patel
408	10 ng BNA ICC, 10 PPM	<u>SP6727</u>	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml





SVOC STANDARD PREPARATION LOG

407 5 ng BNA ICC, 5 PPM SP6728 01/30/2025 05/12/2025 Jagrut Upadhyay None None 02/07/2025	Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Shreena Patel
	407	5 ng BNA ICC, 5 PPM	<u>SP6728</u>	01/30/2025	05/12/2025	_	None	None	02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Shreena Patel
175	2.5 ng BNA ICC, 2.5 PPM	<u>SP6729</u>	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml



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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jagrut Upadhyay				
171	171 8270/625 Spike Solution, 50/100 SP6752 03/10/2025 05/31/2025 Rahul Chavli None None 04/03/2025											
<u>FROM</u>	FROM 0.10000ml of S12478 + 0.30000ml of S12525 + 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 +											

0.10000 ml of \$12478 + 0.30000 ml of \$12525 + 0.40000 ml of \$10397 + 0.40000 ml of \$10584 + 0.40000 ml of \$11143 + 0.40000 ml of \$11487 + 0.40000 ml of \$11650 + 0.40000 ml of \$12533 + 0.40000 ml of \$12974 + 0.60000 ml of \$12486 + 0.80000 ml of \$12966 + 1.10000 ml of \$11788 + 1.20000 ml of \$11785 + 1.20000 ml of \$12483 + 1.20000 ml of \$12526 + 1.20000 ml of \$12967 + 1.20000 ml of \$12968 + 1.20000 ml of \$12970 + 1.20000 ml of \$12972 + 1.30000 ml of \$11786 + 1.30000 ml of \$12481 + 1.30000 ml of \$12482 + 1.30000 ml of \$12484 + 1.30000 ml of \$12528 + 1.30000 ml of \$12529 + 1.30000 ml of \$12531 + 1.30000 ml of \$12969 + 1.30000 ml of \$12973 + 1.40000 ml of \$12530 + 1.40000 ml of \$12532 + 1.40000 ml of \$12971 + 163.00000 ml of \$12876 = Final Quantity: 200.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jagrut Upadhyay
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	<u>SP6754</u>	03/18/2025	09/18/2025	Rahul Chavli	None	None	04/03/2025

FROM

 $1930.00000ml \ of \ S12210 + 2.60000ml \ of \ S12216 + 2.70000ml \ of \ S12195 + 5.20000ml \ of \ S12210 + 5.30000ml \ of \ S12192 + 5.30000ml \ of \ S12194 + 5.30000ml \ of \ S12219 + 5.30000ml \ of \ S12211 + 5.30000ml \ of \ S12212 + 5.30000ml \ of \ S12213 + 5.40000ml \ of \ S12190 + 5.40000ml \ of \ S12214 + 5.60000ml \ of \ S12191 + 5.60000ml \ of \ S12215 + 5.70000ml \ of \ S12193 \ = Final \ Quantity: \ 2000.000 \ ml$





SVOC STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Jagrut Upadhyay
3895	50 ug/ml DFTPP 8270E	<u>SP6757</u>	03/31/2025	09/30/2025	Rahul Chavli	None	None	04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sohil Jodhani
18	Second Source Calibration Stock Standard, 100 PPM,	<u>SP6769</u>	04/10/2025	09/10/2025	Jagrut Upadhyay	None	None	04/16/2025
	(8270/625/CLP)				opaa,a,			04/10/2023

FROM

 $^{\circ}$ 0.04000ml of $^{\circ}$ S12195 + 0.08000ml of S12216 + 0.10000ml of S11788 + 0.20000ml of S12486 + 0.20000ml of S12534 + 0.20000ml of S12974 + 1.18000ml of E3926 = Final Quantity: 2.000 ml





SVOC STANDARD PREPARATION LOG

Recipe ID 416	NAME 40 ng BNA ICV, 40 PPM	NO. SP6770	Prep Date 04/10/2025	Expiration Date 09/10/2025	Prepared By Jagrut Upadhyay	<u>ScaleID</u> None	PipetteID None	Sohil Jodhani 04/16/2025
FROM	0.01000ml of S12658 + 0.60000ml or	f E3926 + 0.	.40000ml of S	P6769 = Final	Quantity: 1.010	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	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828
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)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902



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)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904
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)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926
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)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173
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	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
			06/30/2025	01/29/2025 /	07/05/2022 /	



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	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487
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	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495



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]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650
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	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785
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	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11786
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	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11787
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	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
		454157	05/12/2025	11/12/2024 /	03/08/2024 /	



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	11/14/2024 / anahy	03/15/2024 / Rahul	S12142
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/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189
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/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12190
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/	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12191
	ampul					
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier Restek		Lot # A0206206	1 .			
	ItemCode / ItemName 31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/		Date	Opened By 03/18/2025 /	Received By 03/15/2024 /	Lot #



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/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12194
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/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195
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	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208
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	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12209
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	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12210
		Lot #	Expiration	Date Opened /	Received Date /	Chemtech
Supplier	ItemCode / ItemName	LOI #	Date	Opened By	Received By	Lot #



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	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12212
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	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12213
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	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12214
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	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12215
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
- Juppher					1	



Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276
	Days)		1		1	1
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	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327
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] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469
	[CS 4976-1]		1	F	1	
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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478
	[CS 4978-1]	1	1		1	1
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] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12479
	[C3 4976-1]		1			
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]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12480



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] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12481
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] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12482
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]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12483
Supplier	[CS 4978-1] 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] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12484
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] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12485
	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier	itemcode / itemname					



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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517
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] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525
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]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12526
Supplier	[CS 4978-2] ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12527
	[CS 4978-2]					
Supplier	[CS 4978-2] ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Supplier Restek		Lot # A0214017	_ ·	-		
	ItemCode / ItemName 555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]		Date	Opened By 03/10/2025 /	Received By 07/23/2024 /	Lot #



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] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12530
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] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12531
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]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12532
	[CS 4978-2]	1	1			
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] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533
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] [CS 4978-2]	A0214017	10/10/2025	04/10/2025 / Jagrut	07/23/2024 / RAHUL	S12534
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577



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	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649
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	A0212266	04/30/2030	04/07/2025 / anahy	09/20/2024 / anahy	S12658
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	A0212266	10/14/2025	04/14/2025 / Rahul	09/20/2024 / anahy	S12659
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	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791
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]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966
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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12967



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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12968
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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12969
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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12970
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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12971
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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12972
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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12973



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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

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 / lwona	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

Rev 0

Page 1 of 1

Concentration, mg/L

Catalog No.: Lot No.:

Storage:

Solvent:

Exp. Date:

Description:

Z-010074-07 406703

≤-10 °C

Methylene Chloride

3/30/2025

3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound

CAS No.

Purity (%)

Compound Lot No.

3,3'-dichlorobenzidine

91-94-1

99.5

74.3.26P

 989 ± 7.53

Received on 02/07/23 511084

511088

*Not a certified value

Certified By:

Jacob Mulloy 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 gravimetricily.



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:

Solvent:

Exp. Date:

Description:

Z-110817-01 414125

≤-10 °C

Methylene Chloride

6/21/2025

Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on 02/07/23 511089 40 S 11093

*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.



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:

Page 1 of 1

Catalog No.: Lot No.: Z-112090 440246	Storage: ≤-10 °C	Solvent: Methylene Chloride	2/16/2026	7.500 mg/L 1 mI		
-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

Errocce 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.



EK CERTIFIED REFERENCE MATERIAL



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

www.restek.com

Gravimetric Certificate





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.:

555871

Lot No.: A0185300

Received by

Description:

Custom 4-Nitrophenol Standard

cG on

05/18/22

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

510793

Container Size:

2 mL

Pkg Amt: > 1 mL

Expiration Date:

May 31, 2025

10°C or colder Storage:

510402

Ship: **Ambient**

CERTIFIED VALUES

Component #		Compound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	4-Nitrophenol CAS # 100-02-7 Purity 99%	(Lot MKCN1089)	25,060.0 μg/mL	+/- +/- +/-	231.9100 753.2622 905.6020	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent:

Methanol

CAS#

67-56-1 **Purity**

99%

and the second section is a second section of the section of t Katelyn McGinni - Operations Tech I

Date Mixed:

16-May-2022

Balance: 1128342314

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 combined stressed
uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability
uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time
 intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was
 stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at
 www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at nonstandard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping
 conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard
 conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



CERTIFIED REFERENCE MATERIAL



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

Gravimetric Certificate





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.:

555868

Lot No.: A0186373

CG

Description:

Custom Benzidine Standard

Contains carcinogen/reproductive

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

07/05/22

Received by

Container Size:

2 mL

toxin.

Pkg Amt:

> 1 mL

Ambient

Expiration Date:

Handling:

June 30, 2025

Storage:

Ship:

10°C or colder

S 10583

S10592

VALUES CERTIFIED

Component #		Compound	Grav. Conc. (weight/volume)		Expanded l (95% C.L.; l	_	w. /
1	Benzidine CAS # 92-87-5 Purity 99%	(Lot 220511RSR)	25,200.0 μg/mL	+/- +/- +/-	233.2055 351.6606 512.6054	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed

Solvent:

Methanol

CAS#

67-56-1

Purity

99%

Tom Suckar - Mix Technician

Date Mixed:

16-Jun-2022

Balance: 1122030677

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/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 combined stressed
uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability
uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping
 conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard
 conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



CERTIFIED REFERENCE MATERIAL



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.

Received on 02/06/23

Catalog No.:

31853

Lot No.: A0187043

C6

Description:

1,4-dioxane

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

S 11071

Container Size :

2 mL

Pkg Amt: > 1 mL

Expiration Date:

July 31, 2027

0°C or colder Storage:

S11075

Ship:

Ambient

CERTIFIED VALUES

Elution Order		Compound	Grav. Conc. (weight/volume)		Expanded (95% C.L.;	Uncertainty K=2)	
1	1,4-Dioxane CAS# 123-91-1 Purity 99%	(Lot SHBN5929)	2,019.0 μg/mL	+/- +/- +/-	11.8486 43.2570 44.5129	μg/mL μg/mL μg/mL	Gravimetric Unstressed Stressed
Solvent:	Methylene chloride						

CAS# **Purity** 75-09-2 99%

Column:

105m x 0.53mm x 3.0μm Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

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

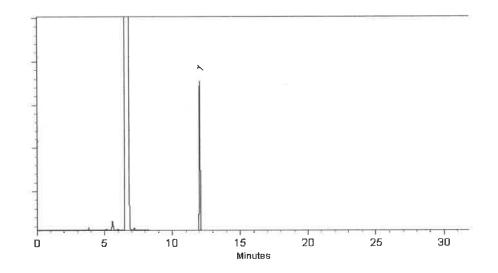
Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:



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.

Brittany Federinko - Operations Tech I

Date Mixed:

07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed:

12-Jul-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: 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.:

555869

Lot No.: A0194702

Description:

Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol,

1mL/ampul

Container Size: **Expiration Date:** 2 mL

February 28, 2026

Pkg Amt:

> 1 mL

Storage:

10°C or colder

Ship: Ambient

CERTIFIEL

Componen t#	Compound	CAS#	Lot#	Purity Grav. Conc. (weight/volume)
1 Hexachic	procyclopentadiene	77-47-4	0012019	99% 25,008.0 μg/mL

Solvent:

Methanol

CAS#

67-56-1

Purity

99%

Russ Bookhamer - Operations Technician I

Park T. Bir

Date Mixed:

15-Feb-2023

Balance: B442140311

Manufactured under Restek Registered Quality Certificate #FM :

tified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the impound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

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

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

erage factor of 2, which gives a level of confidence of approximately 95%.

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

Notes:

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

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability i, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely



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	6.1
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)	Wax. 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.

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



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date:2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	-
Residue after Evaporation	<= 1.0 ppm	5
ītrable Acid (μeq/g)	<= 0.3	0.2 ppm
Chloride (CI)		<0.1
Vater (by KF, coulometric)	<= 10 ppm	<5 ppm
	<= 0.02 %	<0.01 %

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak

Director Quality Operations, Bioscience Production

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

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



Material No.: 9266-A4

Batch No.: 25A0262002

Manufactured Date: 2024-11-21

Expiration Date:2026-02-20

Revision No.: 0

Certificate of Analysis

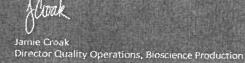
Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)		1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH2Cl2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874



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

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis





Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date:2027-04-18

Revision No.: 0

Certificate of Analysis

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

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902



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

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

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



Material No.: 9266-A4

Batch No.: 25A0262002

Manufactured Date: 2024-11-21

Expiration Date: 2026-02-20

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH $_2$ Cl $_2$) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926



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

Hydrochloric Acid, 36.5-38.0% BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis



Material No.: 9530-33 Batch No.: 0000281827

Manufactured Date: 2021/03/30

Retest Date: 2026/03/29 Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl2)	<= 0.5 ppm	< 0.5
Phosphate (PO4)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO₃)	<= 0.8 ppm	0.3
Ammonium (NH4)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

Material No.: 9530-33 Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (TI)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC





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

Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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.

Lot No.: A0200549

555870 Catalog No.: Custom 2,4-Dinitrophenol Standard Description: Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

10°C or colder > 1 mL Pkg Amt: Storage: August 31, 2026 2 mL Expiration Date: Container Size:

Ambient

Ship:

55/01/80 S1148h

CERTIFIED VALUES

nen	Сотроила	CAS#	Lot #	Purity Grav. Conc. (weight/volume)	Uncertainty * (95% C.L.; K=2)
2,4-Dinitrophenol		51-28-5	DR230417RSR	99% 25,008.0 µg/mL	+/- 777.3323

Solvent:

67-56-1 Methanol CAS # Purity

Tom Suckar Mix Technician J

02-Aug-2023

Date Mixed:

1128342314 Balance:



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:

- **GC/µЕС**D Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/MS, LC/MS, RI, and/or melting point.
- ⋖ correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or 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:

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

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

- 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 Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, 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 which includes complete instructions.
 - If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.





Santa Rosa, CA 95403 5580 Skylane Blvd

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

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

Date Received:

Page 1 of Rev 0 Certificate of Analysis

		TO TOO	DITE OF TARRE	or circuit of things and the	rage 1 of 1
Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	tion:
Z-110094-02 506889	≤-10 °C	Methylene Chloride	7/25/2028 CLP B	7/25/2028 CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml	ion, 5,000 mg/L, 1 ml
Compound	pi	CAS No.		Purity (%) Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-da		2199-69-1	7.66	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	69.66	8.286.1.1P	4999 ±103.66
nitrobenzene-d5		4165-60-0	19.66	7.9.3P	4988 ±27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 7.P. 284115

Answer Lien

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.

*Not a certified value

Clint Tipton Chemist

Certified By:

	,	



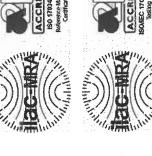
Bellefonte, PA 16823-8812 Tel: 1-814-353-1300 Fax: 1-814-353-1309 110 Benner Circle

Certificate of Analysis

gravimetric

www.restek.com

CERTIFIED REFERENCE MATERIAL





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.: A0201728

555872 Catalog No.: Custom Pentachlorophenol Standard

Description:

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

1mL/ampul

September 30, 2026 $2\,\text{mL}$

Expiration Date: Container Size:

10°C or colder > 1 mL Pkg Amt: Storage:

Ambient Ship:

11118123 S11649

VALUES CERTIFIED

nponen t#	Compound	CAS#	Lot#	Purity Grav. Conc. (weight/volume)	Uncertainty (95% C.L.; K=2)
Pentachlorophenol		87-86-5	RP230530RSR	99% 25,000.0 µg/mL +/- 777.0837	+/- 777.0837

Methanol Solvent:

67-56-1 %66 CAS#

Purity

Les Silvering

Josh McCloskey - Operations Technician I

05-Sep-2023

Date Mixed:

Balance: B251644995

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. 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:

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

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

- environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, 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 most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom which includes complete instructions.
 - any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely













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. :

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



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:

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

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31853

Lot No.: A0196453

311749

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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

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Solvent:

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CAS#

75-09-2

Purity

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Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

Split Vent:

100 ml/min.

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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)
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Solvent:

Methylene chloride

CAS#

75-09-2

Purity

99%

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250°C

Det. Temp:

340°C

Det. Type:

Split Vent:

100 ml/min.

Inj. Vol



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Balance Serial #

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Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

31-Mar-2023



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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)
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340°C

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Split Vent:

100 ml/min.

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Sam Moodler - Operations Tech I

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30-Mar-2023

Balance Serial #

B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

31-Mar-2023



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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.













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Certificate of Analysis chromatographic plus

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Catalog No.:

31850

Lot No.: A0203726

Description:

8270 MegaMix®

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

Container Size: Expiration Date:

Pkg Amt:

> 1 mL

Ambient

April 30, 2025

Storage:

Ship:

0°C or colder

Handling:

Sonication required. Mix is

photosensitive.

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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Certificate of Analysis chromatographic plus

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Catalog No.:

31087

Lot No.: A0206206

Description:

Acid Surrogate Mix (4/89 SOW)

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

Container Size: Expiration Date: 5 mL

January 31, 2032

Pkg Amt:

Storage:

10°C or colder

> 5 mL

Ship: Ambient 512187 7 RC/ V 03/18/24 912206 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 μg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 μg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

Solvent:

Methanol

CAS# 67-56-1 **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

Split Vent:

2 ml/min.

Inj. Vol 1µl



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Penelope Riglin - Operations Tech I

Date Mixed:

04-Jan-2024

Balance Serial #

1128360905

Chile Mile

Christie Mills - Operations Lead Tech - ARM QC

Date Passed:

08-Jan-2024















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January 31, 2032

Pkg Amt:

> 5 mL

Storage:

10°C or colder

Ship: Ambient

CERTIFIED VALUES

512187 7 RC/ V 03/18/24 912206 03/18/24

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January 31, 2032

Pkg Amt:

> 5 mL

Storage:

10°C or colder

Ship: Ambient

CERTIFIED VALUES

512187 7 RC/ V 03/18/24 912206 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
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Date Passed:

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January 31, 2032

Pkg Amt:

> 5 mL

Storage:

10°C or colder

Ship: Ambient

CERTIFIED VALUES

512187 7 RC/ V 03/18/24 912206 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 μg/mL	+/- 302.5390
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Penelope Riglin - Operations Tech I

Date Mixed:

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Balance Serial #

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Christie Mills - Operations Lead Tech - ARM QC

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Description:

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

Container Size: Expiration Date: 5 mL

January 31, 2032

Pkg Amt:

> 5 mL

Storage:

10°C or colder

Ship: Ambient

CERTIFIED VALUES

512187 7 RC/ V 03/18/24 912206 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 μg/mL	+/- 302.5390
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Balance Serial #

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Christie Mills - Operations Lead Tech - ARM QC

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Lot No.: A0206206

Description:

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

Container Size: Expiration Date: 5 mL

January 31, 2032

Pkg Amt:

> 5 mL

Storage:

10°C or colder

Ship: Ambient

CERTIFIED VALUES

512187 7 RC/ V 03/18/24 912206 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 μg/mL	+/- 302.5390
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Solvent:

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CAS# 67-56-1 **Purity** 99%

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250°C

Det. Temp:

330°C

Det. Type:

FID

Split Vent:

2 ml/min.

Inj. Vol 1µl



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Penelope Riglin - Operations Tech I

Date Mixed:

04-Jan-2024

Balance Serial #

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Chile Mile

Christie Mills - Operations Lead Tech - ARM QC

Date Passed:

08-Jan-2024















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Catalog No.:

31087

Lot No.: A0206206

Description:

Acid Surrogate Mix (4/89 SOW)

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

Container Size: Expiration Date: 5 mL

January 31, 2032

Pkg Amt:

> 5 mL

Storage:

10°C or colder

Ship: Ambient

CERTIFIED VALUES

512187 7 RC/ V 03/18/24 912206 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 μg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 μg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

Solvent:

Methanol

CAS# 67-56-1 **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

Split Vent:

2 ml/min.

Inj. Vol 1µl



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Penelope Riglin - Operations Tech I

Date Mixed:

04-Jan-2024

Balance Serial #

1128360905

Chile Mile

Christie Mills - Operations Lead Tech - ARM QC

Date Passed:

08-Jan-2024















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Catalog No.:

31086

Lot No.: A0206381

Description:

B/N Surrogate Mix (4/89 SOW)

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

Tech Tips:

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:

EID

Split Vent:

2 ml/min.

Inj. Vol 1µl



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Jess Hoy - Operations Tech I

Date Mixed:

09-Jan-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

11-Jan-2024













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Catalog No.:

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Lot No.: A0206381

Description:

B/N Surrogate Mix (4/89 SOW)

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
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3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

Tech Tips:

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330°C

Det. Type:

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Split Vent:

2 ml/min.

Inj. Vol 1µl



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Date Mixed:

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Balance Serial #

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Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μg/mL	+/- 226.5936
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CAS# **Purity**

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Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

Tech Tips:

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:

EID

Split Vent:

2 ml/min.

Inj. Vol 1µl



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

Jess Hoy - Operations Tech I

Date Mixed:

09-Jan-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

11-Jan-2024













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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.:

31086

Lot No.: A0206381

Description:

B/N Surrogate Mix (4/89 SOW)

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

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CAS# **Purity**

75-09-2 99%

Tech Tips:

Column:

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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:

EID

Split Vent:

2 ml/min.

Inj. Vol 1µl



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Jess Hoy - Operations Tech I

Date Mixed:

09-Jan-2024

Balance Serial #

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Date Passed:

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Catalog No.:

31086

Lot No.: A0206381

Description:

B/N Surrogate Mix (4/89 SOW)

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

EID

Split Vent:

2 ml/min.

Inj. Vol 1µl



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Jess Hoy - Operations Tech I

Date Mixed:

09-Jan-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

11-Jan-2024













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Catalog No.:

31086

Lot No.: A0206381

Description:

B/N Surrogate Mix (4/89 SOW)

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

Methylene chloride

CAS# **Purity**

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Column:

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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:

EID

Split Vent:

2 ml/min.

Inj. Vol 1µl



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Jess Hoy - Operations Tech I

Date Mixed:

09-Jan-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

11-Jan-2024













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Catalog No.:

31086

Lot No.: A0206381

Description:

B/N Surrogate Mix (4/89 SOW)

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
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3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

Methylene chloride

CAS# **Purity**

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330°C

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2 ml/min.

Inj. Vol 1µl



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Jess Hoy - Operations Tech I

Date Mixed:

09-Jan-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

11-Jan-2024













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Catalog No.:

31086

Lot No.: A0206381

Description:

B/N Surrogate Mix (4/89 SOW)

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

Container Size:

5 mL

Pkg Amt:

 $> 5 \, \text{mL}$

Expiration Date:

December 31, 2029

Storage:

10°C or colder

Handling:

Sonicate prior to use.

Ship: **Ambient**

CERTIFIED VALUES

512207 / RC/ V 03/18/24 S12221) 03/18/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 μg/mL	+/- 226.5204
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3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μg/mL	+/- 226.3909

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

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

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330°C

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EID

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2 ml/min.

Inj. Vol 1µl



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Jess Hoy - Operations Tech I

Date Mixed:

09-Jan-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

11-Jan-2024



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Date Received:

Certificate of Analysis

Rev 0

Page 1 of 4

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

 Z-110381-01
 520963
 ≤-10 °C
 Methylene Chloride
 10/10/2028
 Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ±9.93
aniline	62-53-3	99.97	64.1.4P	1001 ±9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ±10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ±13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ±22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ±14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

512270 | RC/ 512274) 05/24/24

*Not a certified value

KenzEKane

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.

Certified By:

Kerry Kane Chemist Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ±9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ±13.74
diphenylamine	122-39-4	100	78.1.6P	998 ±13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

KenzEKane

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.

Certified By:

Kerry Kane Chemist

Catalog No.: Z-110381-01 Lot No.: 520963 Expiration Date: 10/10/2028 Compound CAS No. Purity (%) Compound Lot No. Concentration, mg/L hexachlorobenzene 118-74-1 99 46.158.4P 999.9 ± 13.96 hexachlorobutadiene 97.4 87-68-3 47.1.4P 1000 ± 9.79 hexachlorocyclopentadiene 77-47-4 99.2 48.2.2P 1001 ± 9.8 hexachloroethane 67-72-1 99.9 49.1.4P 1003 ± 9.82 indeno[1,2,3-cd]pyrene 193-39-5 25.286.4P 999.4 ± 22.23 isophorone 78-59-1 98.9 90.1.4P 999.9 ± 13.85 2-methyl-4,6-dinitrophenol 534-52-1 99.6 107.421.2DP 991 ± 24.09 97.1 1-methylnaphthalene 90-12-0 249.7.5P 999.2 ± 13.95 2-methylnaphthalene 91-57-6 97.4 68.7.2P 1006 ± 22.38 2-methylphenol 95-48-7 99.6 114.7.3P 1001 ± 13.87 3-methylphenol 108-39-4 99.1 115.7.4P 499.7 ± 6.92 4-methylphenol 106-44-5 99.5 116.7.1P 501.2 ± 6.94 naphthalene 91-20-3 99.8 26.9.1P 1018 ± 9.97 2-nitroaniline 88-74-4 99.7 69.29.1P 999.6 ± 9.79 3-nitroaniline 99-09-2 100 70.7.3P 1000 ± 9.74 4-nitroaniline 100-01-6 99.7 71.29.1P 1001 ± 9.8 nitrobenzene 98-95-3 100 94.7.1P 1000 ± 13.85 2-nitrophenol 99.1 88-75-5 108.29.1P 996.5 ± 13.81 4-nitrophenol 100-02-7 100 109.7.1P 1000 ± 13.82 N-nitrosodimethylamine 62-75-9 99.5 57.3.19P 998.5 ± 14.67 N-nitrosodi-n-propylamine 621-64-7 99.8 59.286.1P 996.8 ± 17 pentachlorophenol 87-86-5 99 110.1.7P 1004 ± 13.92 phenanthrene 85-01-8 99.7 27.1.5P 999 ± 12.87 phenol 108-95-2 100 112.7.1P 998.5 ± 13.8 pyrene 129-00-0 99.2 28.9.2P 998.9 ± 9.78 pyridine 110-86-1 100 101.24.1P 999 ± 9.73

58-90-2

91.8

*Not a certified value

 996.5 ± 13.92

KenzEKane

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120.421.1P

Certified By:

2,3,4,6-Tetrachlorophenol

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ±13.8

*Not a certified value

KenzEKane

Certified By:

Kerry Kane
Chemist

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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:

Solvent:

Exp. Date:

Description:

Z-010442-07 495833

≤-10 °C

Methylene Chloride

1/16/2028

Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound

CAS No.

Purity (%)

Compound Lot No.

Concentration, mg/L

benzaldehyde

Certified By:

100-52-7

98.3

442.421.1P

 996.8 ± 11.49

512275) RC/ 512279) 05/24/24

*Not a certified value

Scott Hunter 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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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 G12312 PC/ 05/30/24 G12331 the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:

31206

Lot No.: A0206540

Description:

SV Internal Standard Mix 2mg/ml

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

1mL/ampul

Container Size:

Handling:

2 mL

Expiration Date:

December 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%	2,007.1 μg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 μg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 μg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 μg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 μg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 μg/mL	+/- 90.7448

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

Solvent:

Methylene chloride

CAS# 75-09-2 Purity 99%

Quality Confirmation Test

Column:

 $30m \times 0.25mm \times 0.25\mu m$ 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

10 ml/min.

Det. Type: Split Vent:

Inj. Vol

1µl



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Miline Homen

Malina Homan - Operations Technician I

Date Mixed:

12-Jan-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

16-Jan-2024











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.: A0214021

Description:

Custom 8270 Plus Standard #1

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

1mL/ampul

Container Size: **Expiration Date:** 2 mL

Pkg Amt:

> 1 mL

July 31, 2026

Storage: 10°C or colder

Handling:

This product is photosensitive.

Ship: Ambient

CERTIFIED VALUES

Componen t#	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 μg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 μg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 μg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 μg/mL	+/- 22.9569

Solvent:

Methylene chloride

CAS# Purity

75-09-2

99%

512449 | PC/ 124 | 24 217508) 7/24/24

Repens & June Rebecca Gingerich - Operations Tech II

Date Mixed:

18-Jul-2024

Balance: 1128353505

Expiration Notes:

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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%.

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Manufacturing Notes:

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Pkg Amt:

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July 31, 2026

Storage: 10°C or colder

Handling:

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Ship: Ambient

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Handling:

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Ship: Ambient

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Handling:

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Pkg Amt:

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July 31, 2026

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Solvent:

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July 31, 2026

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Ship: Ambient

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Ship: Ambient

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2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 μg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 μg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 μg/mL	+/- 22.9569

Solvent:

Methylene chloride

CAS# Purity

75-09-2

99%

512449 | PC/ 124 | 24 217508) 7/24/24

Repens & June Rebecca Gingerich - Operations Tech II

Date Mixed:

18-Jul-2024

Balance: 1128353505

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.

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 which includes complete instructions.
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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.: A0214021

Description:

Custom 8270 Plus Standard #1

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

1mL/ampul

Container Size: **Expiration Date:** 2 mL

Pkg Amt:

> 1 mL

July 31, 2026

Storage: 10°C or colder

Handling:

This product is photosensitive.

Ship: Ambient

CERTIFIED VALUES

Componen t#	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 μg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 μg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 μg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 μg/mL	+/- 22.9569

Solvent:

Methylene chloride

CAS# Purity

75-09-2

99%

512449 | PC/ 124 | 24 217508) 7/24/24

Repens & June Rebecca Gingerich - Operations Tech II

Date Mixed:

18-Jul-2024

Balance: 1128353505

Expiration Notes:

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Purity Notes:

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Certificate of Analysis gravimetric

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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.:

555223

Lot No.: A0214021

Description:

Custom 8270 Plus Standard #1

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

1mL/ampul

Container Size: **Expiration Date:** 2 mL

Pkg Amt:

> 1 mL

July 31, 2026

Storage: 10°C or colder

Handling:

This product is photosensitive.

Ship: Ambient

CERTIFIED VALUES

Componen t#	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 μg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 μg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 μg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 μg/mL	+/- 22.9569

Solvent:

Methylene chloride

CAS# Purity

75-09-2

99%

512449 | PC/ 124 | 24 217508) 7/24/24

Repens & June Rebecca Gingerich - Operations Tech II

Date Mixed:

18-Jul-2024

Balance: 1128353505

Expiration Notes:

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Purity Notes:

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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.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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%	1,005.0 μg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 μg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 μg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 μg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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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.
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 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.

Certified Uncertainty Value Notes:

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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%	1,005.0 μg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 μg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 μg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 μg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905

Expiration Notes:

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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%	1,005.0 μg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 μg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 μg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 μg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905



Expiration Notes:

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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%	1,005.0 μg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 μg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 μg/mL	+/- 29.630084
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905



Expiration Notes:

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Certificate of Analysis gravimetric

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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%	1,005.0 μg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 μg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 μg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 μg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905



Expiration Notes:

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Purity Notes:

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

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

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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.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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%	1,005.0 μg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 μg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 μg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 μg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905



Expiration Notes:

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 2026

Pkg Amt:

> 1 mL

Storage:

10°C or colder

Ship:

Ambient

CERTIFIED VALUES

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Solvent:

Methylene chloride

CAS# **Purity**

75-09-2

99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905



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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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)
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905

General Certified Reference Material Notes

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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)
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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)
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Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905

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Catalog No.:

555224

Lot No.: A0214017

Description:

Custom 8270 Plus Standard #2

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

1mL/ampul

Container Size:

2 mL

Expiration Date:

July 31, 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)
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 μg/mL	+/- 29.630084

Solvent:

Methylene chloride

CAS# **Purity**

75-09-2 99%

512568 RC/ S12568 7/24/24

Jess Hoy - Operations Tech I

Date Mixed:

18-Jul-2024

Balance: 1128360905

General Certified Reference Material Notes

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lac-MRA







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Certificate of Analysis

chromatographic plus

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Catalog No.:

31615

Lot No.: A0212955

Description:

GC/MS Tuning Mixture

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

Container Size:

2 mL

Pkg Amt:

> 1 mL

Ambient

Expiration Date:

June 30, 2027

Storage:

Ship:

10°C or colder

Handling:

Contains carcinogen/reproductive

toxin.

CERTIFIED VALUES

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 μg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 μg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 μg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 μg/mL	+/- 44.6922

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

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

S12577 RC S12579 8/2/24

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

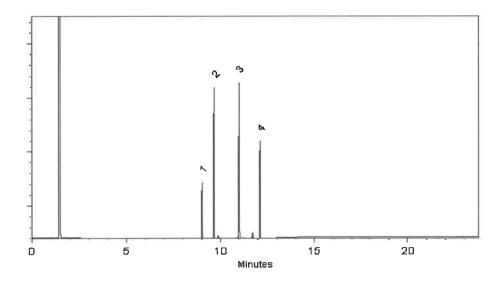
Det. Temp:

330°C

Split Vent: 10 ml/min.

Det. Type:

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.

GERRE Ethan Winiarski - Operations Tech I

Date Mixed:

19-Jun-2024

Balance Serial #

1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

26-Jun-2024



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

www.restek.com

CERTIFIED REFERENCE MATERIAL









Certificate of Analysis

chromatographic plus

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.: A0212266

Description:

SV Internal Standard Mix 2mg/ml

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

1mL/ampul

Container Size:

2 mL

April 30, 2030

Expiration Date: Handling:

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%	2,000.6 μg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 μg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 μg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 μg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 μg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 μg/mL	+/- 90.1075

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

Solvent:

Methylene chloride

CAS# Purity

75-09-2 99%

S12645) AC 512674 10/1/24



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

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31206

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Description:

SV Internal Standard Mix 2mg/ml

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Container Size:

2 mL

April 30, 2030

Expiration Date: Handling:

Sonication required. Mix is

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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%	2,000.6 μg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 μg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 μg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 μg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 μg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 μg/mL	+/- 90.1075

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

Solvent:

Methylene chloride

CAS# Purity

75-09-2 99%

S12645) AC 512674 10/1/24



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Catalog No.:

31206

Lot No.: A0212266

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SV Internal Standard Mix 2mg/ml

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

1mL/ampul

Container Size:

2 mL

April 30, 2030

Expiration Date: Handling:

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%	2,000.6 μg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 μg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 μg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 μg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 μg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 μg/mL	+/- 90.1075

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

Solvent:

Methylene chloride

CAS# Purity

75-09-2 99%

S12645) AC 512674 10/1/24



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

Description:

Page 1 of 1

Catalog No.: Lot No.: Z-110816-01 414127

Storage: ≤-10 °C

Solvent: Methylene Chloride Exp. Date: 6/21/2025

Custom 8270 Mix, 4-79,

1000 mg/L, 1 mL

			-0 -,	
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

New Numbers Generated.

*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.



CERTIFIED REFERENCE MATERIAL

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

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.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

2 mL

Z IIIL

September 30, 2025

Expiration Date :

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1

> 1 mL

Storage:

0°C or colder

Ship: Ambient

S12992)12/17/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
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Certificate of Analysis chromatographic plus









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Catalog No.:

31850

Lot No.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

2 mL

Z IIIL

September 30, 2025

Expiration Date :

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1

> 1 mL

Storage:

0°C or colder

Ship: Ambient

S12992)12/17/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





CERTIFIED REFERENCE MATERIAL

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

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.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

2 mL

Z IIIL

September 30, 2025

Expiration Date :

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1

> 1 mL

Storage:

0°C or colder

Ship: Ambient

S12992)12/17/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





CERTIFIED REFERENCE MATERIAL

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

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.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

2 mL

Z IIIL

September 30, 2025

Expiration Date :

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1

> 1 mL

Storage:

0°C or colder

Ship: Ambient

S12992)12/17/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





CERTIFIED REFERENCE MATERIAL

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

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.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

2 mL

Z IIIL

September 30, 2025

Expiration Date :

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1

> 1 mL

Storage:

0°C or colder

Ship: Ambient

S12992)12/17/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenoi	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis chromatographic plus









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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.:

31850

Lot No.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

2 mL

Z IIIL

September 30, 2025

Expiration Date :

Sonication required. Mix is

photosensitive.

Pkg Amt: > 1

> 1 mL

Storage:

0°C or colder

Ship: Ambient

S12992)12/17/24

Elution Order	Compound	CAS#	Lot#	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenoi	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





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

www.restek.com

CERTIFIED REFERENCE MATERIAL









Certificate of Analysis chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No.:

31850

Lot No.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

September 30, 2025

Expiration Date:

Sonication required. Mix is

photosensitive.

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	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





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

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CERTIFIED REFERENCE MATERIAL









Certificate of Analysis chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.:

31850

Lot No.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

September 30, 2025

Expiration Date:

Sonication required. Mix is

photosensitive.

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	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:





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

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CERTIFIED REFERENCE MATERIAL









Certificate of Analysis chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.:

31850

Lot No.: A0219438

Description:

8270 MegaMix®

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

Container Size:

Handling:

September 30, 2025

Expiration Date:

Sonication required. Mix is

photosensitive.

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	Pyridine	110-86-1	SHBP6240	99%	1,008.3 μg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 μg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 μg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 μg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 μg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 μg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 μg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 μg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 μg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 μg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 μg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 μg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 μg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 μg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 μg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 μg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 μg/mL	+/- 36.4757



18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	μg/mL	+/-	36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	μg/mL	+/-	36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	μg/mL	+/-	36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	μg/mL	+/-	36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	μg/mL	+/-	36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	μg/mL	+/-	36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	μg/mL	+/-	36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	μg/mL	+/-	36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	μg/mL	+/-	36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	μg/mL	+/-	36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	μg/mL	+/-	36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	μg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	μg/mL	+/-	36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	μg/mL	+/-	36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	μg/mL	+/-	36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	μg/mL	+/-	36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	μg/mL	+/-	36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	μg/mL	+/-	36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	μg/mL	+/-	36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	μg/mL	+/-	36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	μg/mL	+/-	36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	μg/mL	+/-	36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	μg/mL	+/-	36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	μg/mL	+/-	36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	μg/mL	+/-	36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	%	1,005.6	μg/mL	+/-	36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	μg/mL	+/-	36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	μg/mL	+/-	36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	μg/mL	+/-	36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	μg/mL	+/-	36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	μg/mL	+/-	36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	μg/mL	+/-	36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	μg/mL	+/-	36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	μg/mL	+/-	36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	μg/mL	+/-	36.625
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	μg/mL	+/-	36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	μg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	μg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	μg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	μg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	μg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	μg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	μg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	μg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	μg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	μg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	μg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	μg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	μg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	μg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	μg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	μg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	μg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	μg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	μg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	μg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	μg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	μg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	μg/mL	+/- 36.5217

Solvent:

Methylene chloride

CAS # 75-09-2 **Purity** 99%

Tech Tips:

