

Prep Standard - Chemical Standard Summary

Order ID : Q1060

Test : Pesticide-TCL

Prepbatch ID : PB166040,

Sequence ID/Qc Batch ID: PD011425,

Standard ID :

EP2577,EP2578,PP23713,PP23714,PP23715,PP23716,PP23717,PP23718,PP23719,PP23720,PP23721,PP23722,PP 23723,PP23724,PP23725,PP23726,PP23727,PP23728,PP23729,PP23730,PP23731,PP23732,PP23975,PP24060,

Chemical ID :

E3551,E3788,E3805,E3806,E3826,E3829,E3846,E3847,E3848,P11763,P11797,P11945,P13191,P13360,P13383,



Extractions STANDARD PREPARATION LOG

| <u>Recipe</u> <u>ID</u> 3923 | NAME Baked Sodium Sulfate | <u>NO.</u> EP2577 | Prep Date 01/06/2025 | <u>Prepared</u> <u>By</u> Rajesh Parikh | ScaleID Extraction_SC ALE_2 | PipetteID None | Supervised By RUPESHKUMAR SHAH 01/06/2025 |
|------------------------------------|-----------------------------------|----------------------|-------------------------|---|-----------------------------------|-------------------|--|
| <u>FROM</u> | 4000.00000gram of E3551 = Final Q | ouantity: 400 | 00.000 gram | | (EX-SC-2) | | |
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| <u>Recipe</u> <u>ID</u> 2017 | NAME 1:1 ACETONE/METHYLENE CHLORIDE | <u>NO.</u> EP2578 | Prep Date 01/06/2025 | | <u>Prepared</u> <u>By</u> Rajesh Parikh | <u>ScaleID</u> None | PipetteID None | <u>Supervised By</u> RUPESHKUMAR SHAH 01/06/2025 |
|------------------------------------|---|----------------------|-------------------------|-----------------|---|------------------------|-------------------|---|
| FROM | 8000.00000ml of E3846 + 8000.000 | 0ml of E384 | 48 = Final Qu | antity: 16000.0 | 00 ml | | | 01/06/2025 |
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| Recipe ID 3921 | NAME CS6 IND STD MIX A | <u>NO.</u> PP23713 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|----------------------|------------------------------------|-----------------------|-------------------------|----------------------------------|-------------------------------|------------------------|--------------------------|---|
| FROM | 1.00000ml of P11945 + 49.00000ml o | of E3805 = | Final Quantity | :: 50.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 679 | NAME CS5 IND STD MIX A | <u>NO.</u> PP23714 | <u>Prep Date</u> 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|-----------------------------------|-----------------------|--------------------------------|----------------------------------|---|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of | PP23713 = | I Final Quantity | l y: 1.000 ml | | | | 10/00/2024 |
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| Recipe ID 680 | NAME CS4 IND STD MIX A | <u>NO.</u> PP23715 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|---------------------|-----------------------------------|-----------------------|-------------------------|----------------------------------|-------------------------------|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of | PP23714 = | Final Quantit | /: 1.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 681 | NAME CS3 IND STD MIX A | <u>NO.</u> PP23716 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|-------------------------------------|-----------------------|-------------------------|----------------------------------|---|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of l | PP23715 = | Final Quantity | y: 1.000 ml | | | | 10/03/2024 |
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| Recipe ID 682 | NAME CS2 IND STD MIX A | <u>NO.</u> PP23717 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|---------------------|-------------------------------------|-----------------------|-------------------------|----------------------------------|---|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of I | PP23716 = | Final Quantity | y: 1.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 683 | NAME CS1 IND STD MIX A | <u>NO.</u> PP23718 | <u>Prep Date</u> 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | PipettelD None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|-------------------------------------|-----------------------|--------------------------------|----------------------------------|---|------------------------|-------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of l | <u> </u> PP23717 = | l Final Quantit <u>y</u> | y: 1.000 ml | | | <u> </u> | 10/03/2024 |
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| Recipe ID 3920 | NAME CS6 IND STD MIX B | <u>NO.</u> PP23719 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|----------------------|------------------------------------|-----------------------|-------------------------|----------------------------------|-------------------------------|------------------------|--------------------------|---|
| FROM | 1.00000ml of P11763 + 49.00000ml o | of E3805 = | Final Quantity | r: 50.000 ml | | | | |
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| <u>Recipe</u> <u>ID</u> 684 | NAME CS5 IND STD MIX B | <u>NO.</u> PP23720 | <u>Prep Date</u> 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | PipettelD None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|-------------------------------------|-----------------------|--------------------------------|----------------------------------|---|------------------------|-------------------|---|
| <u>FROM</u> | 0.50000ml of E3805 + 0.50000ml of l | PP23719 = | Final Quantity | y: 1.000 ml | | | | 10/03/2024 |
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| Recipe ID 685 | NAME CS4 IND STD MIX B | <u>NO.</u> PP23721 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|---------------------|-----------------------------------|-----------------------|-------------------------|----------------------------------|-------------------------------|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of | PP23720 = | Final Quantit | y: 1.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 686 | NAME CS3 IND STD MIX B | <u>NO.</u> PP23722 | <u>Prep Date</u> 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|-------------------------------------|-----------------------|--------------------------------|----------------------------------|---|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of l | PP23721 = | Final Quantity | y: 1.000 ml | | | | 10/03/2024 |
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| Recipe ID 687 | NAME CS2 IND STD MIX B | <u>NO.</u> PP23723 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|---------------------|-----------------------------------|-----------------------|-------------------------|----------------------------------|---|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of | PP23722 = | Final Quantit | y: 1.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 688 | NAME CS1 IND STD MIX B | <u>NO.</u> PP23724 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | PipettelD None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|-----------------------------------|-----------------------|-------------------------|----------------------------------|---|------------------------|-------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of | I PP23723 = | Final Quantit | y: 1.000 ml | | | | 10100/2024 |
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| Recipe ID 70 | NAME 10/20 PPM Pest/PCB SOM01.2 Surg Stock | <u>NO.</u> PP23725 | Prep Date 10/02/2024 | Expiration Date 04/01/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|--------------------|--|-----------------------|-------------------------|----------------------------------|-------------------------------|------------------------|--------------------------|---|
| FROM | 1.00000ml of P13383 + 9.00000ml of | FE3788 = F | inal Quantity: | 10.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 3922 | NAME Toxaphene CS6 | <u>NO.</u> PP23726 | <u>Prep Date</u> 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|------------------------------------|-------------------------------------|-----------------------|--------------------------------|----------------------------------|---|------------------------|--------------------------|---|
| <u>FROM</u> | 0.80000ml of P13360 + 48.40000ml of | L of E3805 + (| 0.80000ml of l | l PP23725 = Fir | al Quantity: 50. | 000 ml | | 10/03/2024 |
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| Recipe ID 674 | NAME Toxaphene CS5 | <u>NO.</u> PP23727 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|---------------------|-------------------------------------|-----------------------|-------------------------|----------------------------------|-------------------------------|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of I | PP23726 = | Final Quantit | y: 1.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 675 | NAME Toxaphene CS4 | <u>NO.</u> PP23728 | <u>Prep Date</u> 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | PipettelD None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|-------------------------------------|-----------------------|--------------------------------|----------------------------------|---|------------------------|-------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of l | I PP23727 = | Final Quantit | y: 1.000 ml | | | | 10/03/2024 |
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| Recipe ID 676 | NAME Toxaphene CS3 | <u>NO.</u> PP23729 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|---------------------|-------------------------------------|-----------------------|-------------------------|----------------------------------|---|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of I | PP23727 = | Final Quantity | y: 1.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> | NAME | <u>NO.</u> | <u>Prep Date</u> | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Yogesh Patel |
|----------------------------|-------------------------------------|----------------|------------------|--------------------|------------------------------|----------------|------------------|-------------------------------|
| 677 | Toxaphene CS2 | <u>PP23730</u> | 10/02/2024 | 03/30/2025 | Abdul Mirza | None | None | 10/03/2024 |
| FROM | 0.50000ml of E3805 + 0.50000ml of l | PP23729 = | Final Quantity | y: 1.000 ml | | | | |
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| Recipe ID 678 | NAME Toxaphene CS1 | <u>NO.</u> PP23731 | Prep Date 10/02/2024 | Expiration Date 03/30/2025 | Prepared By Abdul Mirza | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 10/03/2024 |
|---------------------|-------------------------------------|-----------------------|-------------------------|----------------------------------|-------------------------------|------------------------|--------------------------|---|
| FROM | 0.50000ml of E3805 + 0.50000ml of I | PP23730 = | Final Quantit | y: 1.000 ml | | | | |

| <u>Recipe</u> <u>ID</u> 776 | NAME EPA S0M01.2 RESCHK | <u>NO.</u> PP23732 | <u>Prep Date</u> 10/02/2024 | Expiration Date 03/30/2025 | <u>Prepared</u> <u>By</u> Abdul Mirza | <u>ScaleID</u> None | PipettelD None | Supervised By Yogesh Patel 10/03/2024 |
|-----------------------------------|----------------------------------|-----------------------|--------------------------------|----------------------------------|---|------------------------|-------------------|---|
| FROM | 0.50000ml of PP23716 + 0.50000ml | of PP23722 | = Final Quar | htity: 1.000 ml | | | | 10/03/2024 |
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| Recipe ID 758 | NAME PEM Mix w/Surr | <u>NO.</u> PP23975 | Prep Date 11/14/2024 | | <u>Prepared</u> <u>By</u> Ankita Jodhani | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 11/18/2024 |
|---------------------|------------------------------------|-----------------------|-------------------------|---------------|--|------------------------|--------------------------|---|
| <u>FROM</u> | 1.00000ml of P11797 + 99.00000ml o | of E3826 = | Final Quantity | r: 100.000 ml | <u> </u> | | | |
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| <u>Recipe</u> <u>ID</u> 3793 | NAME 20/40 PPB PEST GPC spike solution | <u>NO.</u> PP24060 | Prep Date 11/25/2024 | Expiration Date 05/18/2025 | <u>Prepared</u> <u>By</u> Ankita Jodhani | <u>ScaleID</u> None | <u>PipetteID</u> None | Supervised By Yogesh Patel 11/27/2024 |
|------------------------------------|--|-----------------------|-------------------------|----------------------------------|--|------------------------|--------------------------|---|
| FROM | 0.08000ml of P13191 + 99.92000ml of | of E3829 = | Final Quantity | /: 100.000 ml | <u> </u> | | | |
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CHEMICAL RECEIPT LOG BOOK

| 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 # |
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 23H1462005 | 04/23/2025 | 08/13/2024 / Rajesh | 08/13/2024 / Rajesh | E3788 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 24C1862008 | 03/30/2025 | 09/30/2024 / Rajesh | 09/25/2024 / Rajesh | E3805 |
| Osmalian | | 1 - 4 - 4 | Expiration | Date Opened / | Received Date / | Chemtech |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------------------------|---|--------|--------------------|----------------------------|--------------------------------|-------------------|
| Agela Technologies Inc. | FS0006 / Cleanert Florisil cartridge | M06518 | 03/25/2025 | 10/01/2024 / Rajesh | 09/25/2024 / Rajesh | E3806 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--|------------|--------------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 24G1962003 | 05/09/2025 | 11/09/2024 / Rajesh | 11/07/2024 / Rajesh | E3826 |
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| 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) | 24J0862003 | 05/18/2025 | 11/18/2024 / Rajesh | 11/04/2024 / Rajesh | E3829 |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--|------------|--------------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 06/26/2025 | 12/26/2024 / Rajesh | 12/13/2024 / Rajesh | E3846 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 24G1962003 | 06/16/2025 | 12/16/2024 / Rajesh | 12/13/2024 / Rajesh | E3847 |
| 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 | 06/18/2025 | 12/18/2024 / Rajesh | 12/09/2024 / Rajesh | E3848 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32004 / Pesticide Mix, CLP method, Standard Mix B 3/90 SOW, Hexane, 1mL/ampul | A0176477 | 04/02/2025 | 10/02/2024 / Abdul | 05/27/2022 / Sohil | P11763 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32074 / Pesticide Performance Evaluation Mix w/Surrogate | A0183168 | 05/14/2025 | 11/14/2024 / Ankita | 05/27/2022 / Sohil | P11797 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Oupplier | | | | | | |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--|----------|--------------------|----------------------------|--------------------------------|-------------------|
| Restek | 32018 / Pesticide Matrix Spike Mix | A0203053 | 05/25/2025 | 11/25/2024 / Ankita | 01/15/2024 / Abdul | P13191 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32005 / Toxaphene Standard | A0203830 | 04/02/2025 | 10/02/2024 / Abdul | 05/03/2024 / Abdul | P13360 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32453 / SOM01.1 Pesticide Surrogate Standard | A0194530 | 04/02/2025 | 10/02/2024 / Abdul | 12/06/2023 / Abdul | P13383 |



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

CERTIFICATE OF ANALYSIS

| | DIUM SULFATE CRYS | | | 30 F 1994 1994 |
|---|-------------------|-----------------|---|--|
| SPECIFICATION NUMBER : | - | | E DATE: | Na ₂ SO ₄ ABR/21/2023 |
| | 3201 | N.a.L.a.M.O | E 1./A I E. | ADR/2 1/2023 |
| TEST | SPECI | FICATIONS | LOT V | ALUES |
| Assay (Na ₂ SO ₄) | Min. 99 | 1.0% | 99.7 % | |
| pH of a 5% solution at 25°C | 5.2 - 9. | 2 | 6.1 | |
| Insoluble matter | Max. 0. | 01% | 0.005 | 1 |
| Loss on ignition | Max. 0. | 5% | 0.1 % | 16 |
| Chloride (Cl) | Max. 0. | 001% | <0.001 | 0/ |
| Nitrogen compounds (as N) | Max. 5 | ppm | <0.001 <5 ppn | |
| Phosphate (PO ₄) | Max. 0. | | <0.001 | |
| Heavy metals (as Pb) | Max. S | | | |
| Iron (Fe) | Max, 0, | 9 R · | <5 ppn <0.001 | |
| Calcium (Ca) | Max. 0. | 01% | 0.002 % | |
| Magnesium (Mg) | Max. 0. | 005% | 0.002 9 | |
| Potassium (K) | Max. 0. | | 0.003 % | |
| Extraction-concentration suit | ability Passes | test | Passes | * |
| Appearance | Passes | | Passes | |
| Identification | Passes | test | Passes | test |
| Solubility and foreing matter | | test | Passes | : test |
| Retained on US Standard No. | | h | 0.1 % | |
| Retained on US Standard No. | 60 sieve Min. 94 | a/ ₀ | 97.3 % | |
| Through US Standard No. 60 | sieve Max. 5% | 46 | 2.5 % | |
| Through US Standard No. 100 |) sieve Max. 10 | 1% | 0.1 % | |
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If you need further details, please call our factory or contact our local distributor.

Read. by Ri on 7/293 E 3551

RE-02-01, Ed. 1

Acetone

BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

(Vavantor"



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

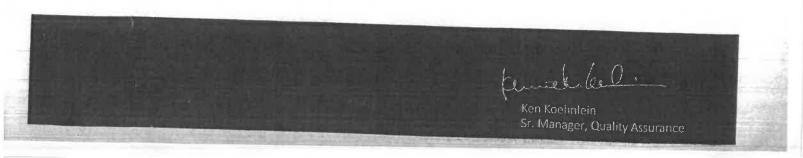
Certificate of Analysis

| Test | Specification | Result | |
|--|---------------|-------------|------|
| Assay ((CH3)2CO) (by GC, corrected for water) | | Result | - 73 |
| Color (APHA) | ≥ 99.4 % | 99.7 % | |
| Residue after Evaporation | ≤ 10 | 5 | |
| | ≤ 1.0 ppm | 0.3 ppm | |
| Substances Reducing Permanganate | Passes Test | Passes Test | |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.1 | |
| Titrable Base (µeq/g) | ≤ 0.6 | | |
| Water (H2O) | ≤ 0.5 % | < 0.1 | |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | | 0.3 % | |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 5 | < 1 | |
| (pg/mL) | ≤ 10 | 1 | |

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

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

Recd. by RP on 8/13/24 E 3788



Hexanes (95% n-hexane) BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis

(Vavantor"



Material No.: 9262-03 Batch No.: 24C1862008 Manufactured Date: 2024-01-30 Expiration Date: 2025-04-30 Revision No.: 0

Certificate of Analysis

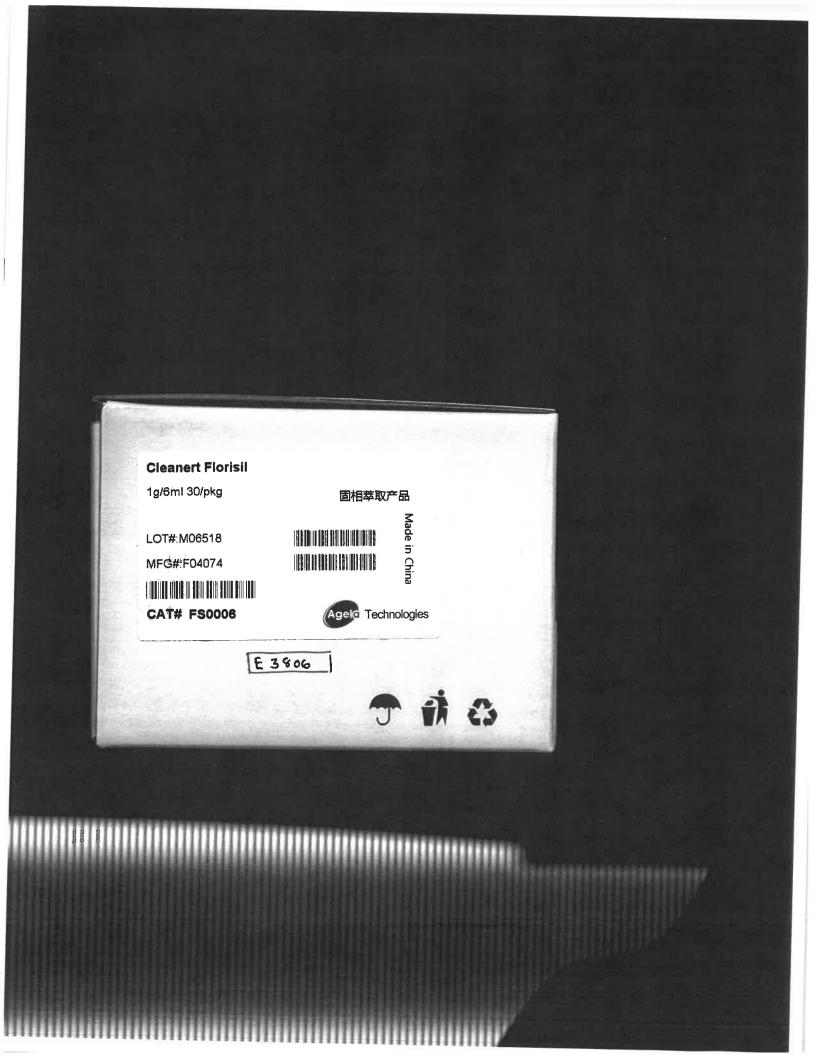
| Test | Specification | Result |
|--|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | <1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| Assay (Total Saturated C $_6$ Isomers) (by GC, corrected for water) | ≥ 99.5 % | 99.7 % |
| Assay (as n-Hexane) (by GC, corrected for water) | ≥ 95 % | 98 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.4 ppm |
| Substances Darkened by H2SO4 | Passes Test | Passes Test |
| Water (by KF, coulometric) | ≤ 0.05 % | < 0.01 % |

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

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

Recd. by RP on 9/25/24 E 3805





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

Avantor



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

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| ECD-Sensitive Impuritles (as Ethylene Dibromide) – Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| Assay (Total Saturated C6 Isomers) (by GC, corrected for water) | ≥ 99.5 % | 99.7 % |
| Assay (as n-Hexane) (by GC, corrected for water) | ≥ 95 % | 98 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.1 ppm |
| Substances Darkened by H2SO4 | Passes Test | Passes Test |
| Water (by KF, coulometric) | ≤ 0.05 % | < 0.01 % |
| | | |

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

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

Alioak Jamie Croak Director Quality Operations, Bioscience Production

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) | <=]0 | F |
| Residue after Evaporation | <= 1.0 ppm | 5 0.2 ppm |
| Fitrable Acid (μeq/g) | <= 0.3 | <0.1 |
| Chloride (Cl) | <= 10 ppm | <5 ppm |
| Vater (by KF, coulometric) | <= 0.02 % | <0.01 % |

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

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

XOAK 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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis





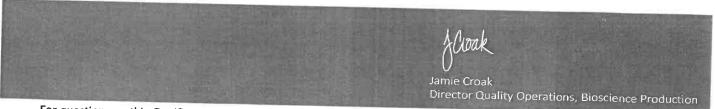
Material No.: 9254-03 Batch No.: 24H2762008 Manufactured Date: 2024-04-18 Expiration Date:2027-04-18 **Revision No.: 0**

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 % | |
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | <0.1 % 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



For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Arrandan Daufannanan Masandala I I m

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





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

Certificate of Analysis

| Test | C 10 | |
|---|---------------|-------------|
| FID-Sensitive Immunity of a | Specification | Result |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak | ≤ 10 | 1 |
| | ≤ 5 | 1 |
| Assay (Total Saturated C₅ Isomers) (by GC, corrected for water) Assay (as n-Hexane) (by GC, corrected for water) | ≥ 99.5 % | 99.7 % |
| Color (APHA) | ≥ 95 % | 98 % |
| Residue after Evaporation | ≤ 10 | 5 |
| ubstances Darkened by H2SO4 | ≤ 1.0 ppm | 0.1 ppm |
| Vater (by KF, coulometric) | Passes Test | Passes Test |
| | ≤ 0.05 % | < 0.01 % |

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

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

Recd. by RP on 12/13/24 E3847



PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

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





Material No.: 9266-A4 Batch No.: 24K1762005 Manufactured Date: 2024-10-08 Expiration Date:2026-01-07 Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|---------|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | T |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 2 |
| Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water) | >= 99.8 % | 100.0 % |
| Color (APHA) | <= 10 | 5 |
| Residue after Evaporation | <= 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | <= 0.3 | 0.0 |
| 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 3848



For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700 Avantor Performance Materials,LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087. U.S.A. Phone 610.386. 1700

Page 1 of 1



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis

Received by : 5] 5/27/2022

P11759 to P11763



ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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. : | <u>32004</u> Lot No.: <u>A0176477</u> | | | | |
|-------------------|---|----------------|------------------|--|--|
| Description : | Pesticide Standard Mix B (3/90) | | | | |
| | Pesticide Standard Mix B (3/90) 8-16 1mL/ampul | µg/mL, Hexane/ | Toluene (90:10), | | |
| Container Size : | 2 mL | Pkg Amt: | > 1 mL | | |
| Expiration Date : | September 30, 2025 | Storage: | 10°C or colder | | |
| Handling: | Contains PCBs - sonicate prior to use. | Ship: | Ambient | | |

CERTIFIED VALUES

| Elution Order | Com | pound | Grav. Conc. (weight/volume) | Expande (95% C.L | d Uncertainty .; K=2) | |
|------------------|---|---------------------|--------------------------------|--|--------------------------|---------------------------------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylene CAS # 877-09-8 Purity 98% | (Lot 0052481) | 8.0 μg/mL | +/- 0.1453 +/- 0.3910 +/- 0.5461 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 2 | beta-BHC CAS # 319-85-7 Purity 99% | (Lot SL210106) | 8.0 μg/mL | +/- 0.1447 +/- 0.3892 +/- 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 3 | delta-BHC CAS # 319-86-8 Purity 98% | (Lot 8-TAH-175-1) | 8.0 μg/mL | +/- 0.1453 +/- 0.3910 +/- 0.5461 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 4 | Aldrin CAS # 309-00-2 Purity 99% | (Lot 12044700) | 8.0 μg/mL | +/- 0.1447 +/- 0.3892 +/- 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 5 | Heptachlor epoxide (isomer B CAS # 1024-57-3 Purity 99% |) (Lot 11129300) | 8.0 μg/mL | +/- 0.1447 +/- 0.3892 +/- 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 6 | trans-Chlordane CAS # 5103-74-2 Purity 99% | (Lot 32095) | 8.0 μg/mL | +/- 0.1447 +/- 0.3892 +/- 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 7 | cis-Chlordane CAS # 5103-71-9 Purity 99% | (Lot 31707) | 8.0 μg/mL | +/- 0.1447 +/- 0.3892 +/- 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |

| 8 | 4,4'-DDE CAS # 72-55-9 Purity 99% | (Lot GHYQG) | 16.1 μg/mL | +/- 0.2906 +/- 0.7817 +/- 1.0918 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
|----|---|----------------|------------|--|-------------------------|---------------------------------------|
| 9 | Endosulfan II CAS # 33213-65-9 Purity 99% | (Lot 10861900) | 16.0 μg/mL | +/- 0.2894 +/- 0.7785 +/- 1.0873 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 10 | Endrin aldehyde CAS # 7421-93-4 Purity 99% | (Lot 30606) | 16.0 µg/mL | +/- 0.2894 +/- 0.7785 +/- 1.0873 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 11 | Endosulfan sulfate CAS # 1031-07-8 Purity 99% | (Lot BCCB0424) | 16.0 µg/mL | +/- 0.2894 +/- 0.7785 +/- 1.0873 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 12 | Endrin ketone CAS # 53494-70-5 Purity 98% | (Lot 11058900) | 16.0 μg/mL | +/- 0.2895 +/- 0.7788 +/- 1.0877 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 13 | Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 Purity 99% | (Lot 30679) | 16.1 μg/mL | +/- 0.2906 +/- 0.7817 +/- 1.0918 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |

Solvent: Hexane/Toluene (90:10)

CAS # 110-54-3/108-88-3 Purity 99% Column: 30m x .25mm x .2um Rtx-CLP II (cat.# 11323)

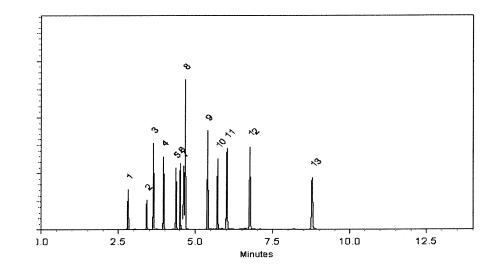
Carrier Gas: helium-constant pressure 20 psi.

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

Inj. Temp: ^{250°C}

Det. Temp: 300°C

Det. Type: ECD



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

Annelia B. Corfe Aurelia Confer - Op

ons Tech I Date Mixed:

Operations Tech-ARM QC

16-Sep-2021

Date Passed: 20-Sep-2021

Balance: B707717271

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 <u>www.restek.com/Contact-Us</u>.
- 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.

| | | ₹. | |
|---|----|----|---|
| R | FS | Ê | K |
| | | | |

CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis





P11789 to P11793

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

Received by 51 5/27/2022

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. : | 32074 | Lot No.: | A0183168 | | | | |
|-------------------|---|----------|----------------|--|--|--|--|
| Description : | Pesticide Performance Eval Mix w/Surrogate | | | | | | |
| | Performance Evaluation Std. 3/90 SOW w/surrogates 1-25µg/mL, Hexane, 1mL/ampul | | | | | | |
| Container Size : | 2 mL | Pkg Amt: | > 1 mL | | | | |
| Expiration Date : | March 31, 2026 | Storage: | 10°C or colder | | | | |
| Handling: | Contains PCBs - sonicate prior to | Ship: | Ambient | | | | |

CERTIFIED VALUES

"hilalah

| Elution Order | | Compou | nd | Grav. (weight/v | | | Expandec (95% C.L. | l Uncertainty ; K=2) | ÷ |
|------------------|-------|---------------------------------------|-----------------|--------------------|-------|-------------------|----------------------------|-------------------------|---------------------------------------|
| 1 | CAS # | trachloro-m-xylene 877-09-8 98% | (Lot 0052481) | 2.0 | µg/mL | +/- +/- +/- | 0.1220 0.1523 0.1799 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 2 | | C 319-84-6 99% | (Lot 12469000) | 1.0 | µg/mL | +/- +/- +/- | 0.0610 0.0762 0.0900 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 3 | CAS # | HC (Lindane) 58-89-9 99% | (Lot 12642100) | 1.0 | µg/mL | +/- +/- +/- | 0.0610 0.0762 0.0900 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 4 | | 319-85-7 99% | (Lot BCCC6425) | 1.0 | µg/mL | +/- +/- +/- | 0.0610 0.0762 0.0900 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 5 | | 72-20-8 99% | (Lot 13000500) | 5.1 | µg/mL | +/- +/- +/- | 0.3045 0.3805 0.4496 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 6 | | 50-29-3 99% | (Lot 210916JLM) | 10.1 | µg/mL | +/- +/- +/- | 0.6090 0.7609 0.8992 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 7 | | hlor 72-43-5 98% | (Lot 12555700) | 25.2 | µg/mL | +/- +/- +/- | 1.5221 1.9018 2.2475 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |

| 8 | 8 Decachlorobiphenyl (BZ# 209) | | 09) | 2.0 | µg/mL | +/- | 0.1221 | µg/mL | Gravimetric |
|---|--------------------------------|-----------|-------------|-----|-------|-----|--------|-------|-------------|
| | CAS # | 2051-24-3 | (Lot 30679) | | | +/- | 0.1524 | μg/mL | Unstressed |
| | Purity | 99% | | | | +/- | 0.1800 | μg/mL | Stressed |
| | | | | | | | | | |

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

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

Carrier Gas: helium-constant pressure 20 psi.

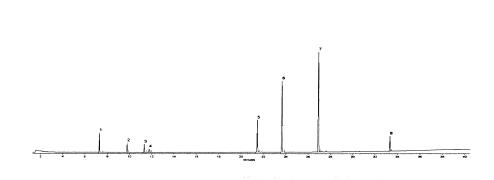
Temp. Program:

150°C to 300°C @ 4°C/min. (hold 5 min.)

Inj. Temp: 200°C

Det. Temp: 300°C

Det. Type: ECD



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

Balance: 1128360905

Bitter Filmbr

Brittany Federinko - Operations Tech I

John Lidgett

John Lidgett - AD Chemist

Date Passed: 24-Mar-2022

22-Mar-2022

Date Mixed:

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 <u>www.restek.com/Contact-Us</u> 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 <u>www.restek.com/Contact-Us</u>.
- 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.

| RES | | CERTIFIED REFERENCE MATE | RIAL | ACCREDITED ISO 17834 Accredited Reference Material Producer Certificate #3222.01 |
|---|----------------------------|---|--------------|---|
| Bellefonte, PA 16823-8812 Tel: (800)356-1688 Fax: (814)353-1309 www.restek.com | | Certificate of Analysis | BC-MRA | ACCREDITED ISO/EC 17025 Accredited Testing Laboratory |
| | | FOR LABORATORY USE ONLY-READ SDS PRIOR TO This Reference Material is intended for Laboratory Use Only as a the qualitative and/or quantitative determination of the analyte(s) I | standard for | Certificate #3222.02 |
| Catalog No. : | 32074 | Lot No.: <u>A0183168</u> | | |
| Description : | Pesticide Pe | formance Eval Mix w/Surrogate | | |
| | Performance Hexane, 1mL | Evaluation Std. 3/90 SOW w/surrogates 1-25µg/mL, ./ampul | | |
| Container Size : | 2 mL | Pkg Amt: > 1 mL | | |

Storage:

Ship:

10°C or colder

Ambient

CERTIFIED VALUES

| Elution Order | Compound | | Grav. Con (weight/volu | | Expanded Uncertainty (95% C.L.; K=2) | | |
|------------------|---|--------------------------|---------------------------|------------------------|---|-------------------------|---------------------------------------|
| 1 | 2,4,5,6-Tetrachloro-m CAS # 877-09-8 Purity 98% | -xylene (Lot 0052481) | 2.0 µş | g/mL +/- +/- +/- | 0.1220 0.1523 0.1799 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 2 | alpha-BHC CAS # 319-84-6 Purity 99% | (Lot 12469000) | 1.0 με | g/mL +/- +/- +/- | 0.0610 0.0762 0.0900 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 3 | gamma-BHC (Lindan CAS # 58-89-9 Purity 99% | e) (Lot 12642100) | 1.0 µg | g/mL +/- +/- +/- | 0.0610 0.0762 0.0900 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 4 | beta-BHC CAS # 319-85-7 Purity 99% | (Lot BCCC6425) | 1.0 µg | g/mL +/- +/- +/- | 0.0610 0.0762 0.0900 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 5 | Endrin CAS # 72-20-8 Purity 99% | (Lot 13000500) | 5.1 µg | g/mL +/- +/- +/- | 0.3045 0.3805 0.4496 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 6 | 4,4'-DDT CAS # 50-29-3 Purity 99% | (Lot 210916JLM) | 10.1 µg | g/mL +/- +/- +/- | 0.6090 0.7609 0.8992 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 7 | Methoxychlor CAS # 72-43-5 Purity 98% | (Lot 12555700) | 25.2 μg | g/mL +/- +/- +/- | 1.5221 1.9018 2.2475 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |

Expiration Date :

Handling:

March 31, 2026

<u>use.</u>

Contains PCBs - sonicate prior to

| 8 | Decachl | orobiphenyl (BZ# 20 |)9) | 2.0 μg/mL | +/- | 0.1221 | µg/mL | Gravimetric |
|---|---------|---------------------|-------------|-----------|-----|--------|-------|-------------|
| | CAS # | 2051-24-3 | (Lot 30679) | | +/- | 0.1524 | μg/mL | Unstressed |
| | Purity | 99% | | | +/- | 0.1800 | µg/mL | Stressed |

Solvent: Hexane CAS# 110-54-3

Purity 99%

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

Carrier Gas: helium-constant pressure 20 psi.

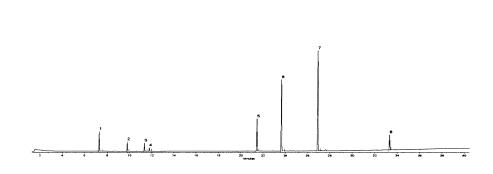
Temp. Program:

150°C to 300°C @ 4°C/min. (hold 5 min.)

Inj. Temp: 200°C

Det. Temp: 300°C

Det. Type: ECD



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

ر المعرفة الم

22-Mar-2022

Balance: 1128360905

John Lidgett

John Lidgett - AD Chemist

Date Passed: 24-Mar-2022

Date Mixed:

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 <u>www.restek.com/Contact-Us</u>.
- 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.



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. : | 32018 | Lot No.: | A0203053 | | D) |
|----------------------|----------------------------------|-----------------------|----------------|-----------|----------|
| Description : | Pesticide Matrix Spike Mix | | | D131 | |
| | Pesticide Matrix Spike Mix 25-50 |) µg/mL, Acetone, 1ml | /ampul | a de art | |
| Container Size : | 2 mL | Pkg Amt: | > 1 mL | | |
| Expiration Date : | October 31, 2027 | Storage: | 10°C or colder | X | 1.5 |
| | | Ship: | Ambient | | X 4 2024 |
| | | | | | 015/201 |
| | | | | CERTIFIED | VALUES |

CERTIFIED VALUES

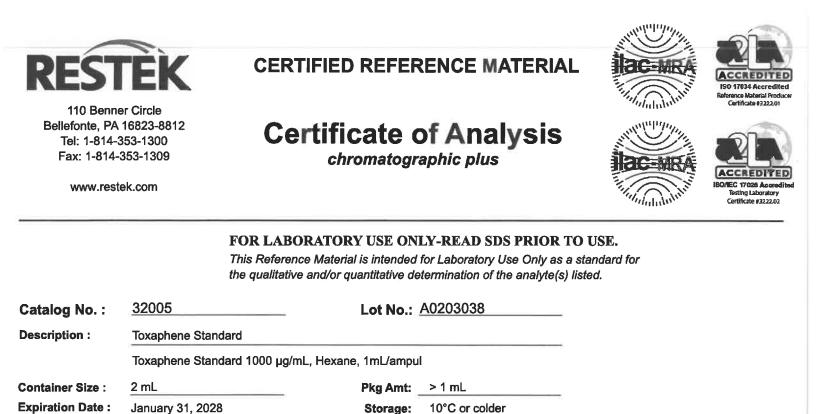
| Elution Order | Compound | CAS# | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|---------------------|----------|------------|--------|--------------------------------|--|
| 1 | gamma-BHC (Lindane) | 58-89-9 | 14646400 | 99% | 25.0 μg/mL | +/- 1.3149 |
| 2 | Heptachlor | 76-44-8 | 813251 | 99% | 25.0 μg/mL | +/- 1.3149 |
| 3 | Aldrin | 309-00-2 | 14389400 | 98% | 25.0 µg/mL | +/- 1.3164 |
| 4 | Dieldrin | 60-57-1 | 14515000 | 98% | 50.0 μg/mL | +/- 2.6297 |
| 5 | Endrin | 72-20-8 | 14485300 | 98% | 50.0 μg/mL | +/- 2.6286 |
| 6 | 4,4'-DDT | 50-29-3 | 230410JLMA | 98% | 50.1 μg/mL | +/- 2.6317 |

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

Solvent: Acetone

> CAS # 67-64-1 Purity 99%





CERTIFIED VALUES

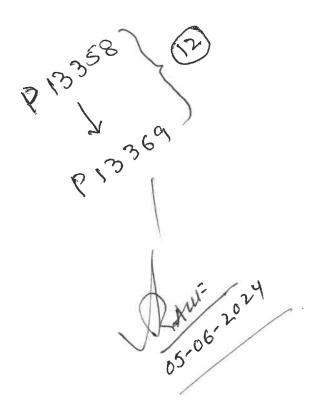
| Elution Order | | Compound | CAS# | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|-----------|----------|-----------|---------|--------|--------------------------------|--|
| 1 | Toxaphene | | 8001-35-2 | 1051817 | % | 1,009.0 µg/mL | +/-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

Ship:

Ambient

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

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





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

Carrier Gas: helium-constant pressure 20 psi.

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

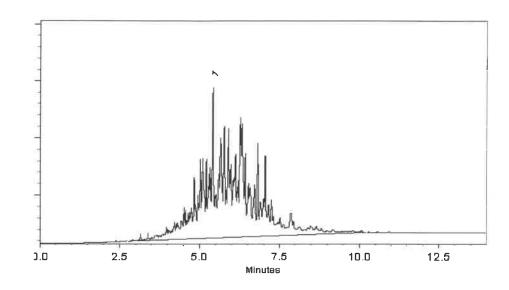
Inj. Temp: 250°C

Det. Temp: 300°C

Det. Type: ECD

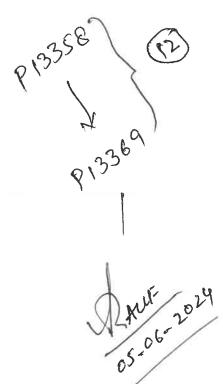
Split Vent: 300 ml/min.

Inj. Vol 0.2μl



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







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. : | 32453 | Lot No.: | A0194530 | | | |
|-------------------|--|-----------------|---------------|--|--|--|
| Description : | SOM01.1 Pesticide Surrogate Standard | | | | | |
| | Pesticide Surrogate Mix 100-200µg/m | L, Acetone, 1mL | /ampul | | | |
| Container Size : | 2 mL | Pkg Amt: | > 1 mL | | | |
| Expiration Date : | May 31, 2029 | Storage: | 0°C or colder | | | |
| Handling: | Contains PCBs - sonicate prior to use. | Ship: | Ambient | | | |

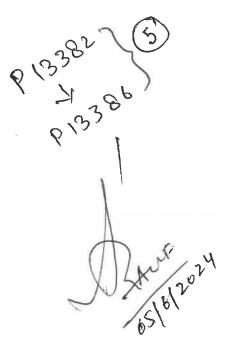
CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|------------------------------|-----------|----------|--------|--------------------------------|--|
| 1 | 2,4,5,6-Tetrachloro-m-xylene | 877-09-8 | RP220407 | 99% | 100.6 µg/mL | +/- 5.5961 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30679 | 99% | 201.3 µg/mL | +/- 11.1978 |

-

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

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



Quality Confirmation Test

Column: 30m x 0.25mm x 0.25µm Rtx-5 (cat.#10223) Carrier Gas: hydrogen-constant pressure 10 psi. Temp. Program: 75°C (hold 1 min.) to 330°C

@ 20°C/min. (hold 10 min.)

250°C

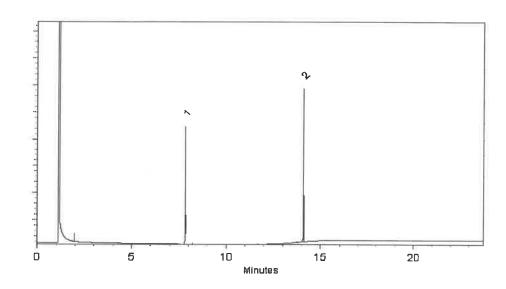
Det. Temp: 330°C

Det. Type: FID

Split Vent: 10 ml/min.

Inj. Vol 1µl

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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-Feb-2023 Balance Serial # 1128353505 <u>
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Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 15-Feb-2023 <u>
Date Passed: 15-Feb-2023
</u> <u>
Manufactured under Restek's ISO 9001:2015 Registered Quality System <u>
Certificate #FM 80397
</u></u></u>

P13382 (E P13382 (E) P13386 DANUE 28 24



Bellefonte, PA 16823-8812

* CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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

www.restek.com

Catalog No. :

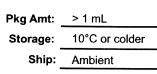
Description :

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. Aut No.: A0176384 Pesticide Standard Mix A (3/90) V Standard Mix A 3/90 SOW 8-80µg/mL, Hexane/Toluene (90:10), 1mL/ampul V

 Container Size :
 2 mL

 Expiration Date :
 September 30, 2025

 Handling:
 Contains PCBs - sonicate prior to use.



CERTIFIED VALUES

Walato

| Elution Order | Co | mpound ^{*****} | ⊛c ∞ Grav. Conc. (weight/volume) | S. 38 | Expande (95% C.L | | Δ ² to solve |
|------------------|---|-------------------------|-------------------------------------|-------------------|----------------------------|-------------------------|---------------------------------------|
| 1 | 2,4,5,6-Tetrachloro-m-xylen CAS # 877-09-8 Purity 98% | e (Lot 0052481) | 8.0 μg/mL | +/- +/- +/- | 0.1442 0.3878 0.5417 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 2 | alpha-BHC CAS# 319-84-6 Purity 99% | (Lot 3324600) | 8.0 μg/mL | +/- +/- +/- | 0.1447 0.3892 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 3 | gamma-BHC (Lindane) CAS # 58-89-9 Purity 98% | (Lot 11837800) | 8.0 μg/mL | +/- +/- +/- | 0.1442 0.3878 0.5417 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 4 | Heptachlor CAS # 76-44-8 Purity 99% | (Lot 0006617486) | 8.0 μg/mL | +/- +/- +/- | 0.1447 0.3892 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 5 | Endosulfan I CAS # 959-98-8 Purity 99% | (Lot BCBS8631) | 8.0 μg/mL | +/- +/- +/- | 0.1447 0.3892 0.5436 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 6 | Dieldrin CAS # 60-57-1 Purity 97% | (Lot 12074700) | 16.0 μg/mL | +/- +/- +/- | 0.2889 0.7772 1.0854 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 7 | Endrin CAS # 72-20-8 Purity 98% | (Lot 11773800) | 16.0 μg/mL | +/- +/- +/- | 0.2895 0.7788 1.0877 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |

| 8 | 4,4'-DDD CAS # 72-54-8 Purity 99% | (Lot HAN02) | 16.0 μg/mL | +/- 0.2894 +/- 0.7785 +/- 1.0873 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
|----|---|-----------------|------------|--|-------------------------|---------------------------------------|
| 9 | 4,4'-DDT CAS # 50-29-3 Purity 98% | (Lot 210823JLM) | 16.0 μg/mL | +/- 0.2895 +/- 0.7788 +/- 1.0877 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 10 | Methoxychlor CAS # 72-43-5 Purity 97% | (Lot 12325400) | 80.0 μg/mL | +/- 1.4132 +/- 3.8798 +/- 5.4271 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |
| 11 | Decachlorobiphenyl (BZ# 209) CAS # 2051-24-3 Purity 99% | (Lot 30638) | 16.0 μg/mL | +/- 0.2894 +/- 0.7785 +/- 1.0873 | μg/mL μg/mL μg/mL | Gravimetric Unstressed Stressed |

Solvent: Hexane/Toluene (90:10) CAS # 110-54-3/108-88-3 Purity 99%

5



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

Carrier Gas: helium-constant pressure 20 psi.

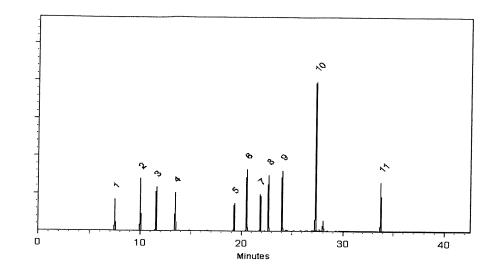
Temp. Program: 150°C to 300°C

@ 4°C/min. (hold 5 min.) Inj. Temp:

200°C

Det. Temp: 300°C

Det. Type: ECD



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



Date Mixed:

Balance: 1128353505

manda Miller - Operations Tech-ARM QC

Date Passed: 17-Sep-2021

14-Sep-2021

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

P11945

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 <u>www.restek.com/Contact-Us</u> 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 <u>www.restek.com/Contact-Us</u>.
- 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.