

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

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Prep Standard - Chemical Standard Summary

 Order ID :
 Q1884

 Test :
 PCB

Prepbatch ID: PB167765,

Sequence ID/Qc Batch ID: PO042925,PP042825,PP042925,

Standard ID:

EP2565,EP2601,EP2607,PP24329,PP24330,PP24331,PP24332,PP24333,PP24334,PP24335,PP24336,PP24337,PP24338,PP24339,PP24340,PP24341,PP24342,PP24343,PP24344,PP24345,PP24346,PP24347,PP24348,PP24349,PP24350,PP24351,PP24352,PP24353,PP24354,PP24355,PP24356,PP24357,PP24358,PP24359,PP24360,PP24361,PP24362,PP24363,PP24364,PP24365,PP24366,PP24366,PP24366,PP24366,PP24370,PP24371,PP24372,PP24373,PP24374,PP24375,PP24376,PP24377,PP24378,PP24379,PP24380,PP24381,PP24382,PP24384,PP24385,PP24386,PP24387,PP24460,PP24461,

Chemical ID:

E2865, E3551, E3804, E3877, E3916, E3917, E3928, M5173, P11522, P12699, P12702, P12931, P12936, P12949, P12955, P12957, P13355, P13356, P13373, P13381, P13589, P13591, P13697, P13702, P13830, P13878, P13883, W3112, W3177, P13881, P13881





Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By RUPESHKUMAR |
|--------------|----------------|------------|------------|--------------------|----------------|----------------|------------------|---------------------------|
| 314 | 1.1 H2SO4 SOLN | EP2565 | 11/20/2024 | 05/20/2025 | Rajesh Parikh | None | None | SHAH 11/20/2024 |
| | | | | |] | | | 11/20/2024 |

| FROM | 1000.0000ml of M5173 + 1000.0000ml of W3112 = Final Quantity: 2000.000 ml |
|------|---|
|------|---|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Riteshkumar Patel |
|--------------|-------------------|------------|------------|--------------------|----------------|----------------|------------------|---------------------------------|
| 230 | 1:1ACETONE/HEXANE | EP2601 | 04/07/2025 | 10/03/2025 | Rajesh Parikh | None | None | 04/07/2025 |

FROM 8000.00000ml of E3916 + 8000.00000ml of E3917 = Final Quantity: 8000.000 ml





Extractions STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Riteshkumar Patel |
|--------------|----------------------|--------|------------|--------------------|----------------|--------------------|------------------|---------------------------------|
| 3923 | Baked Sodium Sulfate | EP2607 | 04/25/2025 | 07/01/2025 | | Extraction_SC | None | |
| | | | | | R SHAH | ALE_2 (EX-SC-2) | | 04/25/2025 |

| FROM 4000.0000gram o | of E3551 = Final Quantity: 4 | 4000.000 gram |
|-----------------------------|------------------------------|---------------|
|-----------------------------|------------------------------|---------------|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|------------------------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 84 | Pest/PCB Surrogate Stock 20 PPM | PP24329 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P13356 + 9.00000ml of W3177 = Final Quantity: 10.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | <u>Prepared</u> <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|---|------------|------------|--------------------|------------------------------|----------------|------------------|----------------------------|
| | AR1660 1000/100 ppb working solution 1st source | PP24330 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 203 | AR1660 750 PPB STD | PP24331 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.25000ml of W3177 + 0.75000ml of PP24330 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 204 | AR1660 500 PPB STD | PP24332 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.50000ml of W3177 + 0.50000ml of PP24330 = Final Quantity: 1.000 ml |
|-------------|--|
|-------------|--|

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 205 | AR1660 250 PPB STD | PP24333 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.75000ml of W3177 + 0.25000ml of PP24330 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|-------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 206 | AR1660 50 PPB STD | PP24334 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | <u> </u> | | | | | | | 04/03/2025 |

| FROM | 0.90000ml of W3177 + 0.10000ml of PP24332 = Final Quantity: 1.000 ml |
|-------------|--|
|-------------|--|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|-------------------------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 213 | AR1221 1000 PPB WORKING SOLUTION | PP24335 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 0.10000ml of P13702 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipettelD</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1079 | AR1221 750 PPB STD | PP24336 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|--------------------|---------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME. | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 222 | AR1221 500 PPB STD | PP24337 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.50000ml of W3177 + 0.50000ml of PP24335 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1080 | AR1221 250 PPB STD | PP24338 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.75000ml of W3177 + 0.25000ml of PP24335 | = Final Quantity: 1.000 ml |
|-------------|---|----------------------------|
|-------------|---|----------------------------|

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|-------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 1081 | AR1221 50 PPB STD | PP24339 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.90000ml of W3177 + 0.10000ml of PP24337 = Final Quantity: 1.000 ml





Pest/Pcb 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 Abdul Mirza |
|--------------|-------------------------------------|------------|------------|--------------------|------------------------------|----------------|------------------|----------------------------|
| | AR1232 1000 PPB WORKING SOLUTION | PP24340 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipettelD | Supervised By |
|--------------|--------------------|-----|------------|--------------------|----------------|---------|-----------|---------------|
| 1063 | AR1232 750 PPB STD | | 03/18/2025 | <u></u> | Yogesh Patel | None | None | Abdul Mirza |
| | | | | | | | | 04/03/2025 |

FROM 0.25000ml of W3177 + 0.75000ml of PP24340 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 223 | AR1232 500 PPB STD | PP24342 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 0.4/00/0007 |
| | | | | | | | | 04/03/2025 |

| FROM | 0.50000ml of W3177 | + 0.50000ml of PP24340 | = Final Quantity: 1.000 ml |
|------|--------------------|------------------------|----------------------------|
|------|--------------------|------------------------|----------------------------|

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 1064 | AR1232 250 PPB STD | PP24343 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.75000ml of W3177 + 0.25000ml of PP24340 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|-------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1065 | AR1232 50 PPB STD | PP24344 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.90000ml of W3177 + 0.10000ml of PP24342 = Final Quantity: 1.000 ml |
|-------------|--|
|-------------|--|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------------------|----------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 215 | AR1242 1000 PPB WORKING STD | <u>PP24345</u> | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 0.10000ml of P12931 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1067 | AR1242 750 PPB STD | PP24346 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 7 10 001 1111 20 |
| | | | | | | | | 04/03/2025 |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|--------------------|---------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME. | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 224 | AR1242 500 PPB STD | PP24347 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.50000ml of W3177 + 0.50000ml of PP24345 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1068 | AR1242 250 PPB STD | PP24348 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|-------------------|---------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 1069 | AR1242 50 PPB STD | PP24349 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.90000ml of W3177 + 0.10000ml of PP24347 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| 216 AR1248 1000 PPB WORKING PP24350 03/18/2025 08/22/2025 Yogesh Patel None None | Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--|--------------|--------------------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| SID | 216 | AR1248 1000 PPB WORKING STD | PP24350 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

| FROM | 0.10000ml of P12936 | + 99.40000ml of W3177 | + 0.50000ml of PP24329 | = Final Quantity: 100.000 ml |
|------|---------------------|-----------------------|------------------------|------------------------------|
|------|---------------------|-----------------------|------------------------|------------------------------|

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipettelD | Supervised By |
|--------------|--------------------|-----|------------|--------------------|----------------|---------|-----------|---------------|
| 1075 | AR1248 750 PPB STD | | 03/18/2025 | | Yogesh Patel | None | None | Abdul Mirza |
| | | | | | | | | 04/03/2025 |

FROM 0.25000ml of W3177 + 0.75000ml of PP24350 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 225 | AR1248 500 PPB STD | PP24352 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 1076 | AR1248 250 PPB STD | PP24353 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.75000ml of W3177 + 0.25000ml of PP24350 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|-------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1077 | AR1248 50 PPB STD | PP24354 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.90000ml of W3177 + 0.10000ml of PP24352 = Final Quantity: 1.000 ml |
|-------------|--|
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| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 217 | AR1254 1000 PPB WORKING STD | PP24355 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 0.10000ml of P13830 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1071 | AR1254 750 PPB STD | PP24356 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 226 | AR1254 500 PPB STD | PP24357 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.50000ml of W3177 + 0.50000ml of PP24355 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1072 | AR1254 250 PPB STD | PP24358 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | <u> </u> | | | | | | | 04/03/2025 |

| FROM | 0.75000ml of W3177 + 0.25000ml of PP24355 = | = Final Quantity: 1.000 ml |
|------|---|----------------------------|
|------|---|----------------------------|

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|-------------------|---------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | NAME. | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 1073 | AR1254 50 PPB STD | PP24359 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.90000ml of W3177 + 0.10000ml of PP24357 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | <u>NAME</u> | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|-------------------------------------|---------|------------|--------------------|----------------|----------------|------------------|---------------------------|
| 1529 | AR1262 1000 PPB Working Solution | PP24360 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |
| | | | | | | | | |

| FROM | 0.10000ml of P13883 + 99.40000ml of W3177 + 0.50000ml of I | PP24329 = Final Quantity: 100.000 ml |
|------|--|--------------------------------------|
|------|--|--------------------------------------|

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|--------------|--------------------|-----|------------|--------------------|----------------|---------|-----------|---------------|
| 3753 | AR1262 750 PPB STD | | 03/18/2025 | ' | Yogesh Patel | None | None | Abdul Mirza |
| | | | | | | | | 04/03/2025 |

FROM 0.25000ml of W3177 + 0.75000ml of PP24360 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1530 | AR1262 500 PPB STD | PP24362 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|--------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 3754 | AR1262 250 PPB STD | PP24363 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.75000ml of W3177 + 0.25000ml of PP24360 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|-------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3755 | AR1262 50 PPB STD | PP24364 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.90000ml of W3177 + 0.10000ml of PP24362 = Final Quantity: 1.000 ml |
|-------------|--|
|-------------|--|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|-------------------------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1532 | AR1268 1000 PPB Working Solution | PP24365 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 0.10000ml of P13381 + 99.40000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3820 | AR1268 750 PPB STD | PP24366 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | <u> </u> | | | | | | | 04/03/2025 |

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|--------------------|---------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 1533 | AR1268 500 PPB STD | PP24367 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.50000ml of W3177 + 0.50000ml of PP24365 = Final Quantity: 1.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3821 | AR1268 250 PPB STD | PP24368 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 0.4/00/0005 |
| | | | | | | | | 04/03/2025 |

| FROM | 0.75000ml of W3177 + 0.25000ml of PP24365 = Final Quantity: 1. | .000 | ml |
|------|--|------|----|
|------|--|------|----|

| Recipe | | | | Expiration | <u>Prepared</u> | | | Supervised By |
|-----------|-------------------|---------|------------|-------------|-----------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | NO. | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 3822 | AR1268 50 PPB STD | PP24369 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 0.90000ml of W3177 + 0.10000ml of PP24367 = Final Quantity: 1.000 ml



Aliance

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Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME. | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|---|---------|------------|--------------------|----------------|----------------|------------------|---------------------------|
| 404 | AR1660 100 PPM Stock Solution 2nd Source | PP24370 | 03/18/2025 | 09/18/2025 | Yogesh Patel | None | None | 04/03/2025 |
| | | | | | | | | |

| FROM 1.00000ml of P12949 + 9.00000ml of E3804 = Final Quantity: 10.000 | ml |
|--|----|
|--|----|

| Recipe | | | | Expiration | Prepared | | | Supervised By |
|-----------|-----------------------------|------------|------------|-------------|--------------|----------------|------------------|---------------|
| <u>ID</u> | <u>NAME</u> | <u>NO.</u> | Prep Date | <u>Date</u> | <u>By</u> | <u>ScaleID</u> | <u>PipetteID</u> | Abdul Mirza |
| 405 | AR1660 1000/100 PPB ICV STD | PP24371 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

FROM 98.50000ml of W3177 + 0.50000ml of PP24329 + 1.00000ml of PP24370 = Final Quantity: 100.000 ml



Aliance
TECHNICAL GROUP

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Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 406 | AR1660 500 PPB ICV | PP24372 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM 0.50000ml of W3177 + 0.50000ml of PP24371 = Final Quanti | y: 1.000 | ml |
|--|----------|----|
|--|----------|----|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3789 | AR1221 1000 PPB WORKING SOL.2ND SOURCE(AGILENT) | PP24373 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P13373 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1886 | AR1221 500 PPB ICV | PP24374 | 03/18/2025 | 08/12/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.50000ml of E3877 + 0.50000ml of W3177 | = Final Quantity: 1.000 ml |
|-------------|---|----------------------------|
|-------------|---|----------------------------|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1887 | AR1232 1000 PPB Working Sol. 2nd Source | PP24375 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P12699 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1888 | AR1232 500 PPB ICV | PP24376 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | <u> </u> | | | | | | | 04/03/2025 |

| FROM | 0.50000ml of W3177 + 0.50000ml of PP24375 = Final Quantity: 1.000 ml |
|-------------|--|
|-------------|--|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1889 | AR1242 1000 PPB Working Sol. 2nd Source | PP24377 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P13589 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml



Alliance

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Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1891 | AR1242 500 PPB ICV | PP24378 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.50000ml of W3177 + 0.50000ml of PP24377 | = Final Quantity: 1.000 ml |
|-------------|---|----------------------------|
|-------------|---|----------------------------|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1890 | AR1248 1000 PPB Working Sol. 2nd Source | PP24379 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P13591 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml



Aliance TECHNICAL GROUP

Fax: 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1892 | AR1248 500 PPB ICV | PP24380 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| FROM | 0.50000ml of W3177 + 0.50000ml of PP24379 = Final Quantity: 1.000 ml |
|-------------|--|
|-------------|--|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1893 | AR1254 1000 PPB Working Sol. 2nd Source | PP24381 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P12957 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|--------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 1894 | AR1254 500 PPB ICV | PP24382 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|---|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3757 | AR1262 1000 PPB Working Solution second source | PP24384 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P12702 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|------------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3758 | AR1262 500 PPB STD ICV | PP24385 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | | | | | | | | 04/03/2025 |

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|---|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3817 | AR1268 1000 ppb Working Soln. 2nd source | PP24386 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | 04/03/2025 |

FROM 1.00000ml of P11522 + 98.50000ml of W3177 + 0.50000ml of PP24329 = Final Quantity: 100.000 ml



Alliance

Fax: 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Abdul Mirza |
|--------------|------------------------|---------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3823 | AR1268 500 PPB STD ICV | PP24387 | 03/18/2025 | 08/22/2025 | Yogesh Patel | None | None | |
| | <u> </u> | | | | | | | 04/03/2025 |

| <u>FROM</u> | 0.50000ml of W3177 + 0.50000 ml of PP24386 = Final Quantity: 1.000 n | nl |
|-------------|--|----|
|-------------|--|----|

| Recipe ID | NAME | <u>NO.</u> | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Yogesh Patel |
|--------------|-------------------------------------|------------|------------|--------------------|----------------|----------------|------------------|----------------------------|
| 465 | 200 PPB Pest/PCB Surrogate Spike | PP24460 | 04/11/2025 | 10/03/2025 | Abdul Mirza | None | None | 04/16/2025 |

FROM 1.00000ml of P13355 + 999.00000ml of E3917 = Final Quantity: 1000.000 ml





Pest/Pcb STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | <u>ScaleID</u> | <u>PipetteID</u> | Supervised By Yogesh Patel |
|--------------|---|------------|----------------|--------------------|----------------|----------------|------------------|----------------------------|
| 3857 | 5000 PPB PCB SPIKE SOLUTION 2ND SOURCE | PP24461 | 04/11/2025 | 10/03/2025 | Abdul Mirza | None | None | 04/16/2025 |
| FROM | 0.50000ml of P12955 + 99.50000ml | of E3917 = | Final Quantity | y: 100.000 ml | | | | |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|--------------------------------|---|-----------------|-----------------------------|---|--|-----------------------|
| Seidler Chemical | BA-3382-05 / Sand, Purified (cs/4x2.5kg) | 0000243821 | 06/30/2025 | 04/30/2020 / RAJESH | 04/28/2020 / RAJESH | E2865 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 07/01/2025 | 01/03/2024 / Rajesh | 07/20/2023 / Rajesh | E3551 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | 9005-05 / Acetone Ultra (cs/4x4L) | 24E0761004 | 11/05/2025 | 10/01/2024 / Rajesh | 09/25/2024 / Rajesh | E3804 |
| Supplier | ItemCode / ItemName | Lot # | Expiration | Date Opened / | Received Date / | Chemtech |
| Cappiloi | itemcode / itemname | LOT # | Date | Opened By | Received By | Lot # |
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 243570 | Date 08/12/2025 | · - | Received By 02/12/2025 / Rajesh | Lot # E3877 |
| | BA-9262-03 / Hexane, | | | Opened By 02/12/2025 / | 02/12/2025 / | |
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 243570 | 08/12/2025 Expiration | Opened By 02/12/2025 / Rajesh Date Opened / | 02/12/2025 / Rajesh | E3877 |
| Seidler Chemical Supplier | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) ItemCode / ItemName BA-9262-03 / Hexane, | 243570 Lot # | 08/12/2025 Expiration Date | Opened By 02/12/2025 / Rajesh Date Opened / Opened By 04/03/2025 / | 02/12/2025 / Rajesh Received Date / Received By 03/31/2025 / | E3877 Chemtech Lot # |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------------|---|------------|--------------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L) | 25C0362005 | 10/22/2025 | 04/18/2025 / RUPESH | 04/16/2025 / RUPESH | E3928 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| 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 / Received By | Chemtech Lot # |
| Agilent Technologies | PP-382-1 / Aroclor 1268 | 0006587800 | 09/18/2025 | 03/18/2025 / yogesh | 02/21/2022 / Ankita | P11522 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Absolute Standards,Inc | 91867 / Aroclor 1232 100 ug/mL | 020823 | 09/18/2025 | 03/18/2025 / yogesh | 08/07/2023 / Ankita | P12699 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| Absolute Standards,Inc | x9166 / Aroclor 1262 100 ug/mL | 060523 | 09/18/2025 | 03/18/2025 / yogesh | 08/07/2023 / Ankita | P12702 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32009 / PCB Mix, Aroclor 1242, 1000ug/mL, Hexane, 1mL/ampul | a0203672 | 09/18/2025 | 03/18/2025 / yogesh | 12/07/2023 / Ankita | P12931 |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--|----------|--------------------|----------------------------|--------------------------------|-------------------|
| Restek | 32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul | a0202803 | 09/18/2025 | 03/18/2025 / yogesh | 12/07/2023 / Ankita | P12936 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Absolute Standards, Inc. | 20064 / Aroclor 1016/1260 | 022023 | 09/18/2025 | 03/18/2025 / yogesh | 12/20/2023 / Yogesh | P12949 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Absolute Standards, Inc. | 20064 / Aroclor 1016/1260 | 022023 | 10/11/2025 | 04/11/2025 / Abdul | 12/20/2023 / Yogesh | P12955 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Absolute Standards, Inc. | / Arochlor 1254 | 121823 | 04/03/2025 | 10/03/2024 / Ankita | 12/20/2023 / Yogesh | P12957 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL | A0206810 | 10/11/2025 | 04/11/2025 / Abdul | 04/22/2024 / Abdul | P13355 |
| | | | Expiration | Date Opened / | Received Date / | Chemtech |
| Supplier | ItemCode / ItemName | Lot # | Date | Opened By | Received By | Lot # |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------------|--|------------|--------------------|----------------------------|--------------------------------|-------------------|
| Agilent Technologies | PP-292-1 / Aroclor 1221 | 0006783205 | 09/18/2025 | 03/18/2025 / yogesh | 05/02/2024 / Ankita | P13373 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane | A0207475 | 09/18/2025 | 03/18/2025 / yogesh | 05/03/2024 / Abdul | P13381 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Agilent Technologies | PP-312-1 / Aroclor 1242 | 0006665550 | 09/18/2025 | 03/18/2025 / yogesh | 10/14/2024 / Ankita | P13589 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| Agilent Technologies | PP-342-1 / Aroclor 1248 | 0006726317 | 09/18/2025 | 03/18/2025 / yogesh | 10/14/2024 / Ankita | P13591 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / | Chemtech Lot # |
| Restek | 32039 / PCB Mix, Aroclor 1016/1260, 1000ug/mL, hexane, 1mL/ampul | A0210629 | 09/18/2025 | 03/18/2025 / yogesh | 10/17/2024 / yogesh | P13697 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32007 / PCB Mix, Aroclor 1221, 1000ug/mL, Hexane, 1mL/ampul | A0215270 | 09/18/2025 | 03/18/2025 / yogesh | 10/17/2024 / yogesh | P13702 |
| | • | • | • | • | • | |



CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---|---------------------|--------------------|----------------------------|--------------------------------|-------------------|
| Restek | 32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul | A0217391 | 09/18/2025 | 03/18/2025 / yogesh | 12/09/2024 / Ankita | P13830 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32008 / PCB Mix, Aroclor 1232, 1000ug/mL, Hexane, 1mL/ampul | A0219655 | 09/18/2025 | 03/18/2025 / yogesh | 01/23/2025 / Ankita | P13878 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Restek | 32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane | A0220950 | 09/18/2025 | 03/18/2025 / yogesh | 01/23/2025 / Ankita | P13883 |
| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |
| 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 | 08/22/2025 | 02/03/2025 / jignesh | 01/31/2025 / jignesh | W3177 |

Sand
Purified
Washed and Ignited





Material No.: 3382-05

Batch No.: 0000243821

Manufactured Date: 2018/04/09 Retest Date: 2025/04/07

Revision No: 1

Certificate of Analysis

| Test | Specification | Result |
|---------------------------|---------------|--------|
| Substances Soluble in HCI | <= 0.16 % | 0.01 |

For Laboratory, Research or Manufacturing Use Meets Reagent Specifications for testing USP/NF monographs

Country of Origin:

US

Packaging Site:

Paris Mfg Ctr & DC







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





Material No.: 9005-05 Batch No.: 24E0761004

Manufactured Date: 2024-05-02

Retest Date: 2029-05-01

Revision No.: 0

Certificate of Analysis

| Specification | Result | |
|---|---|---|
| ≥ 99.5 % | 99.8 % | |
| ≤ 10 | | |
| ≤ 5 ppm | | |
| ≤ 0.3 | | |
| ≤ 0.5 | | Ĺ |
| ≤ 0.5 % | | • |
| Passes Test | | |
| ≤ 0.2 ppm | | |
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| - * * | • • • | |
| ≤ 10.0 ppp | < 1.0 ppb | |
| | ≥ 99.5 % ≤ 10 ≤ 5 ppm ≤ 0.3 ≤ 0.5 ≤ 0.5 % | ≥ 99.5 % ≤ 10 < 5 Final State of the part of the p |

Reed by RP on 9/25/20

>>> Continued on page 2 >>>

E 3804





Material No.: 9005-05 Batch No.: 24E0761004

| Test | Specification | Result |
|---|---------------|------------|
| Trace Impurities – Molybdenum (Mo) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Nickel (Ni) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities - Niobium (Nb) | ≤ 50.0 ppb | < 1.0 ppb |
| Trace Impurities – Potassium (K) | ≤ 10.0 ppb | < 10.0 ppb |
| Trace Impurities – Silicon (Si) | ≤ 50 ppb | < 10 ppb |
| Trace Impurities – Silver (Ag) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities – Sodium (Na) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Strontium (Sr) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Tantalum (Ta) | ≤ 50.0 ppb | < 5.0 ppb |
| Trace Impurities - Thallium (TI) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Tin (Sn) | ≤ 20.0 ppb | < 10.0 ppb |
| Trace Impurities - Titanium (Ti) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Vanadium (V) | ≤ 10.0 ppb | < 1.0 ppb |
| Trace Impurities - Zinc (Zn) | ≤ 20.0 ppb | 7.9 ppb |
| Trace Impurities ~ Zirconium (Zr) | ≤ 10.0 ppb | < 1.0 ppb |
| Particle Count - 0.5 µm and greater (Rion KS42AF) | ≤ 100 par/ml | 8 par/ml |
| Particle Count - 1.0 µm and greater (Rion KS42AF) | ≤ 8 par/ml | 2 par/mi |

Acetone CMOS





Material No.: 9005-05 Batch No.: 24E0761004

Test Specification Result

For Microelectronic Use

Country of Origin: USA

Packaging Site: Paris Mfg Ctr & DC

Olulelle Bales
Michelle Bales
Sr. Manager, Quality Assurance



Certificate of Analysis

1 Reagent Lane Fair Lawn, NJ 07410 201.796.7100 tel 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

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

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

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

Recarby RP S

on 2/12/25

Harout Sahagian - Quality Control Manager - Fair Lawn

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

^{*}Based on suggested storage condition.



Certificate of Analysis

1 Reagent Lane Fair Lawn, NJ 07410 201.796.7100 tel

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System

Standard ISO9001:2015 by SAI Global Certificate Number CERT - 0120633 201.796.1329 fax

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

| Catalog Number | H303 | ne following information is the actual analytical results obtained. | | |
|-------------------|--------------------------------|---|-------------------------------------|--|
| Lot Number | 243570 | Quality Test / Release Date | 11/07/2024 | |
| Description | HEXANES - OPTIMA | · | | |
| Country of Origin | United States | Suggested D | | |
| hemical Origin | Organic - non animal | Suggested Retest Date | Nov/2029 | |
| SE/TSE Comment | No animal products are used as | starting raw material ingredients, or used aterial that might migrate to the finished pro | in processing, including lubricants | |

| N/A | | legal filters | |
|----------------------------|------------|---------------------------------|-------------------------|
| Result Name | Units | 0 | |
| APPEARANCE | | Specifications | Test Value |
| ASSAY (N-HEXANE) | % | REPORT | Clear, colorless liquid |
| ASSAY (SUM C6 HYDROCARBONS | 5) % | >= 60 | 69 |
| COLOR | APHA | >= 99.9 | >99.9 |
| DENSITY AT 25 DEGREES C | | <= 5 | <5 |
| EVAPORATION RESIDUE | GM/ML | Inclusive Between 0.653 - 0.673 | 0.669 |
| FLUORESCENCE BACKGROUND | ppm | <= 1 | <1 |
| DENTIFICATION | ppb | <= 1 | <1 |
| OPTICAL ABS AT 195 NM | PASS/FAIL | = PASS TEST | PASS TEST |
| OPTICAL ABS AT 210 NM | ABS. UNITS | <= 1 | 0.74 |
| OPTICAL ABS AT 200 AM | ABS. UNITS | <= 0.25 | |
| OPTICAL ABS AT 220 NM | ABS. UNITS | <= 0.07 | 0.17 |
| PTICAL ABS AT 254 NM | ABS. UNITS | <= 0.005 | 0.05 |
| ESTICIDE RESIDUE ANALYSIS | NG/L | <= 10 | 0.001 |
| EFRACTIVE INDEX @ 25 DEG C | | | <10 |
| UITABILITY FOR GC/MS | | Inclusive Between 1.375 - 1.385 | 1.379 |
| ULFUR COMPOUNDS | % | = PASS TEST | PASS TEST |
| HIOPHENE | PASS/FAIL | <= 0.005 | <0.005 |
| ATER (H2O) | % | = PASS TEST | PASS TEST |
| ATER-SOLUBLE TITRABLE ACID | MEQ/G | <= 0.01 | <0.01 |
| | INCO/G | <= 0.0003 | 0.0001 |

ut Salym

Recd. by RP on 3/31/25

Harout Sahagian - Quality Control Manager - Fair Lawn

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

Acetone BAKER RESI-ANALYZED® Reagent For Organic Residue Analysis



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 ((CH ₃) ₂ CO) (by GC, corrected forwater) Color (APHA) | >= 99.4 % | |
| Residue after Evaporation | <= 10 | 100.0 % 5 |
| Substances Reducing Permanganate | <= 1.0 ppm | 0.0 ppm |
| Titrable Acid (µeq/g) | Passes Test | Passes Test |
| Fitrable Base (µeq/g) | <= 0.3 | 0.2 |
| Vater (H ₂ O) | <= 0.6 | <0.1 |
| ID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak | <= 0.5 % | <0.1 % |
| CD Sensitive Impurities (as HeptachlorEpoxide) Single Peak | \ - 3 | 1 |
| og/mL) (as neptachlorEpoxide) Single Peak | <= 10 | 1 |

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP cn 03/31/25



Director Quality Operations, Bioscience Production

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



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date:2026-04-30

Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL) | <= 5 | 1 |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL) | <= 10 | 6 |
| ECD-Sensitive Impurities (as EthyleneDibromide) – Single Impurity Peak (ng/mL) | <= 5 | 5 |
| Assay (Total Saturated C6 Isomers) (byGC, corrected for water) | >= 99.5 % | 100.0 % |
| Assay (as n-Hexane) (by GC, correctedfor water) | >= 95 % | 100 % |
| Color (APHA) | <= 10 | 10 |
| Residue after Evaporation | <= 1.0 ppm | 0.1 ppm |
| Substances Darkened by H ₂ SO ₄ | Passes Test | Passes Test |
| Water (by KF, coulometric) | <= 0.05 % | <0.01 % |

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

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3928



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





Certificate of Analysis

P11518 AJ P11522 02/21/22

Product Name:

Aroclor 1268 Standard

Product Number:

PP-382-1

Lot Issue Date:

09-Feb-2021

Lot Number:

0006587800

Expiration Date:

31-Mar-2029

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte

CAS#

Analyte Lot

Concentration ± Uncertainty

Aroclor 1268

011100-14-4

RM00937

 $100.0 \pm 0.5 \,\mu g/mL$

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions:

Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative

ISO 17034 Cert

No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026 Page: 1 of 1

> www.agilent.com/quality/ CSD-QA-015.1



ISO 17025 Cert No. AT-1937

Absolute Standards, Inc.

800-368-1131 www.absolutestandards.com



Certified Refere

Solventi

Aceton

CERTIFIED WEIGHT REPORT

Part Number:

Description:

91867

Lot Number:

020823

WP 037 - Arcclor 1232

Expiration Date:

PCB Technical Mixture

020833

Recommended Storage:

Weight(s) shown below were combined and diluted to (mL):

Ambient (20 °C)

Nominal Concentration (µg/mL):

NIST Test ID#:

100

6UTB

100.0

5E-05 Balance Uncertainty

0.057 Flask Uncertainty

Lot Nominal Purity Uncertainty Target Compound RM# Number Conc (µg/mL) (96)Purity Weight (g Arocior 1232

- 17 45-6A 100 100 0.5 0.01000 The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above). Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.

 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions. . Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measure

Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Comments

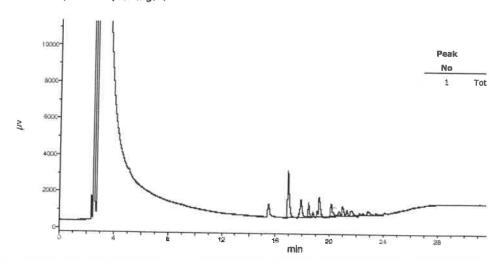
GC3-M1 Analysis by Molissa Stonier Column ID SPB-608 30 meter X 0.53mm X5µm film thickness

Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)

Rate = 8°C/min, Total run time = 35 min Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1

Standard injection =1.5µL, Range=3





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

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

Lot No.: A0203672 32009 Catalog No.:

Aroclor® 1242 Standard Description:

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

25°C nominal > 1 mL Ship: Pkg Amt: Storage: This product contains PCBs. January 31, 2030 2 mL Expiration Date: Container Size: Handling:

Ambient

p 12932 826218

CERTIFIED VALUES

| Expanded Uncertainty * (95% C.L.; K=2) | +/- 55.7515 |
|--|------------------|
| Grav. Conc. (weight/volume) | % 1,004.7 µg/mL |
| Purity | % |
| Lot # | 01141 |
| CAS# | 53469-21-9 01141 |
| | |
| Compound | |
| | Aroclor 1242 |
| Elution Order | 1 |

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

110-54-3

Hexane CAS# Purity

Solvent:

%66

Quality Confirmation Test

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

helium-constant pressure 20 psi. Carrier Gas:

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

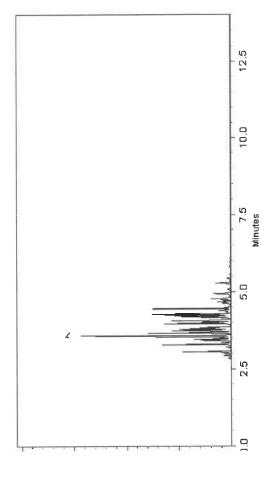
Inj. Temp: 250°C

Det. Temp: 300°C

Det. Type:

Split Vent: 10 ml/min.

Inj. Vol



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

Bull 1. S.

26-Oct-2023 Date Mixed: Russ Bookhamer - Operations Technician I

B442140311 Balance Serial #

> Jennifer Pollino - Operations Tech III - ARM QC

06-Nov-2023 Date Passed:

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

01-Nov-2022 rev.



CERTIFIED REFERENCE MATERIAL

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

Certificate of Analysis chromatographic plus

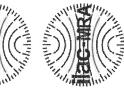
www.restek.com













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.

Lot No.: A0202803

32010 Catalog No.:

Aroclor® 1248 Standard Description:

Aroclor® 1248 Standard 1,000μg/mL, Hexane, 1mL/ampul

Pkg Amt: 2 mL Expiration Date: Container Size:

Handling:

25°C nominal ×1mL Ship: Storage: This product contains PCBs. January 31, 2030

Ambient

CERTIFIED VALUES

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

110-54-3

Hexane CAS# Purity

Solvent:

%66

Quality Confirmation Test

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:

Det. Temp: 300°C 250°C

Det. Type: ECD

Split Vent: 10 ml/min.

Inj. Vol 0.2µl

10.0 Minutes 0.0

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.

12.5

Laith Clemente - Operations Technician I

03-Oct-2023 Date Mixed:

1128360905 Balance Serial #

Jennifer Pollino - Operations Tech III - ARM QC

09-Oct-2023 Date Passed:

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



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



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

| nc. | |
|-----|-----|
| ďs, | COM |

CERTIFIED WEIGHT REPORT

| Part Number: Lot Number: Description: | | 20064 022023 CLP PCB'S - Aroclor Mix | Aroclor Mix | | 9, | Solvent(s): Hexane | Lot# 273615 | | | 18 | | 022023 | PIZGUE M.P. | M. P. C. |
|--|-----------|--|--------------------------|--------|---------------------------|-----------------------|----------------|----------------------------|----------------|------------|--|-------------------|-------------|----------|
| Expiration Date: | | Aroclors 1016 & 1260 022033 | 16 & 1260 | | | | | | Formulated By: | 1 By: | Benson Chan | | Less) | |
| Recommended Storage: | | Ambient (20 °C) | (2) | | | | | | | N. | The state of the s | |) | |
| NIST Test ID#: | | 6UTB | | 5E-05 | 5E-05 Balance Uncertainty | | | | Reviewed Bv: | | Pedro L. Rentas | 022023 DATE | | |
| Weight(s) shown below were combined and diluted to (mL): | and dilut | led to (mL): | 200.0 | 0.010 | 0.010 Flask Uncertainty | | | | | | | | | |
| | | | | | | | | | Expanded | | SDS information | | | |
| | | Lot | Nominal | Purity | Purity Uncertainty | Target | Actual | Actual | Uncertainty | | (Solvent Safety Info. On Attached pg.) | thed pg.) | | |
| Compound | RM# | Number | Conc (ug/mL) (%) | (%) | Purity | Weight(g) | Weight(g) | Conc (µg/mL) (+/-) (µg/mL) | (+/-) (mg/mr) | CAS# | OSHA PEL (TWA) | 1050 | | |
| 1. Aroclar 1016 | 15 | 020491JC | 15 020491JC 1000 100 0.2 | 9 | 0.2 | 0.20004 | 0.20060 | 1002.8 | 4.0 | 12674-11-2 | Š | 42 | | |
| 2. Aroclor 1260 | 21 | 21 020491JC | 1000 | 100 | 0.2 | 0.20004 | 0.20081 | 1003.9 | 1 | 11096-82-5 | 0.5ma/m3 | orl-rat 1315mo/ko | | |
| | | | | | | | | | | | 0 | Bulking and | | |

The certified value is the concentration calculated from gravinetric and volumetric measurements unless otherwise stated.
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (#-) 0.5% of the stated value, makes otherwise stated.
 All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Perhaining and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Comments

GOS-M1 Analysis by Melissa Stonier

GOS-M1 Analysis by Melissa Stonier

Column (10 SPB-608 30 maler X 0.53mm X5µm illim thicknees

Flow rates: Hellum (carrier) = 30mL/min. Helium (make-up) = 25mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min

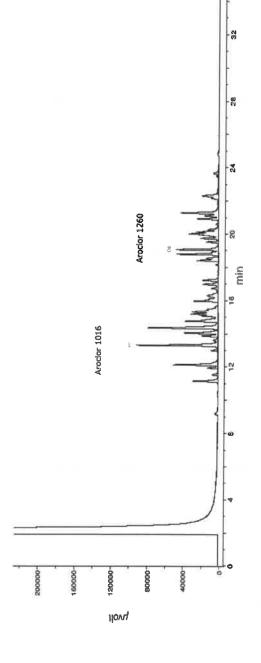
Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 25mL/min

Rate = 30mL/min. I clast run inten = 35 mln

Injector temp. = 200°C, FID Temp = 300°C. FID Signal = Edaq Channel 1

Standard injection = 1.5µL, Range=3



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



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

| nc. | |
|-----|-----|
| ďs, | COM |

CERTIFIED WEIGHT REPORT

| Part Number: Lot Number: Description: | | 20064 022023 CLP PCB'S - Aroclor Mix | Aroclor Mix | | 9, | Solvent(s): Hexane | Lot# 273615 | | | 18 | | 022023 | PIZGUE M.P. | M. P. C. |
|--|-----------|--|--------------------------|--------|---------------------------|-----------------------|----------------|----------------------------|----------------|------------|--|-------------------|-------------|----------|
| Expiration Date: | | Aroclors 1016 & 1260 022033 | 16 & 1260 | | | | | | Formulated By: | 1 By: | Benson Chan | | Less) | |
| Recommended Storage: | | Ambient (20 °C) | (2) | | | | | | | N. | The state of the s | |) | |
| NIST Test ID#: | | 6UTB | | 5E-05 | 5E-05 Balance Uncertainty | | | | Reviewed Bv: | | Pedro L. Rentas | 022023 DATE | | |
| Weight(s) shown below were combined and diluted to (mL): | and dilut | led to (mL): | 200.0 | 0.010 | 0.010 Flask Uncertainty | | | | | | | | | |
| | | | | | | | | | Expanded | | SDS information | | | |
| | | Lot | Nominal | Purity | Purity Uncertainty | Target | Actual | Actual | Uncertainty | | (Solvent Safety Info. On Attached pg.) | thed pg.) | | |
| Compound | RM# | Number | Conc (ug/mL) (%) | (%) | Purity | Weight(g) | Weight(g) | Conc (µg/mL) (+/-) (µg/mL) | (+/-) (mg/m/) | CAS# | OSHA PEL (TWA) | 1050 | | |
| 1. Aroclar 1016 | 15 | 020491JC | 15 020491JC 1000 100 0.2 | 9 | 0.2 | 0.20004 | 0.20060 | 1002.8 | 4.0 | 12674-11-2 | Š | 42 | | |
| 2. Aroclor 1260 | 21 | 21 020491JC | 1000 | 100 | 0.2 | 0.20004 | 0.20081 | 1003.9 | 1 | 11096-82-5 | 0.5ma/m3 | orl-rat 1315mo/ko | | |
| | | | | | | | | | | | 0 | Bulking and | | |

The certified value is the concentration calculated from gravinetric and volumetric measurements unless otherwise stated.
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (#-) 0.5% of the stated value, makes otherwise stated.
 All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Perhaining and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Comments

GOS-M1 Analysis by Melissa Stonier

GOS-M1 Analysis by Melissa Stonier

Column (10 SPB-608 30 maler X 0.53mm X5µm illim thicknees

Flow rates: Hellum (carrier) = 30mL/min. Helium (make-up) = 25mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min

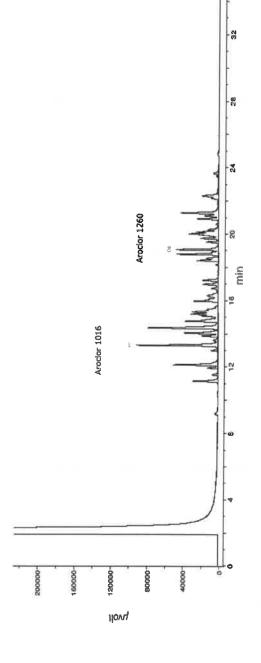
Hydogen (make-up) = 30mL/min. Air (make-up) = 350mL/min

Hydogen (make-up) = 30mL/min. Air (make-up) = 25mL/min

Rate = 30mL/min. I clast run inten = 35 mln

Injector temp. = 200°C, FID Temp = 300°C. FID Signal = Edaq Channel 1

Standard injection = 1.5µL, Range=3





Absolute Standards, Inc. 800-368-1131

www.absolutestandards.com



ANAB ISO 17034 Accredited

CERTIFIED WEIGHT REPORT

| AR-1539 Certificate Number https://absolutestandards.com | |
|--|-------------|
| | |
| itled Heference Material CRM | Lot# |
| Certified Refere | Solvent(s): |
| | 99139 |

| Dart Nimbar | | 00120 | | • | Date and Alah. | 1000 | Œ | | | | | | |
|--|----------------|-----------------|----------|------------------------|---------------------|--|------------|----------------|--|---|------------|--------------------|---------|
| TOTAL SAMERY | | 20100 | | ~ | Solven(s): | Log | | | , | | | | |
| Lot Number: | | 121823 | | | Iso-octane | 82227 | | | The state of the s | 4 | | | |
| Description: | | Aroclor 1254 | | | | | | 1 | | ŵ | 121823 | 121823 P12957 7 42 | 140 |
| 1 | | | | | | | | Formulated By: | Anthony Mahoney | Mahoney | DATE | 33 | 1 |
| Expiration Date: | | 121833 | | | | | | | | Ę | | | |
| Recommended Storage: | | Ambient (20 °C) | Ó | | | | | | 1 | 7 | | > | 12/2/21 |
| Nominal Concentration (µg/mL): | | 100 | | | | | | ~ ` | lear la | Jan | 121823 176 | मिह्या । | |
| NIST Test ID#: | | 6UTB | | 5E-05 Balance | Salance Uncertainty | | | Reviewed Bv: | Padm Pantas | Pentae | DATE |) } | |
| Volume(s) shown below were combined and diluted to (mL): | ed and diluted | to (mL): | 20.0 | 0.003 | Flask Uncertainty | | 린 | | | | 3100 | | |
| Note: Aroclor 1254 is a mix of isomers. | lers. | | | | • | | | Expanded | SDS In | SDS Information | | | |
| | Part | Lot | Dilution | Mittal | fritial Uncertainty | Initial | Final | Uncertainty | (Solvent Safety Info. On Attached pg.) | o. On Attached | 00.) | | |
| Compound | Number | Number | Factor | Vol. (mL) Pipette (mL) | | Conc.(µg/ml.) Conc.(µg/ml.) (+/-) (µg/ml.) | mc.(ug/mL) | (+/-) (ma/mf.) | CAS# OSHAP | OSHA PEL (TWA) | 1050 | | |
| | | | | | | | | | | () () () () () () () () | 2000 | | |

orl-rat 1295mg/kg

0.5mg/m3 (skin)

11097-69-1

<u>~</u>

1001

1003.3

0.017

2.00

0.10

121823

79100

1. Aroclor 1254

Comments
Column IS SPB-608 30 meter X 0.53mm X5,rm flm frickness
Column ID SPB-608 30 meter X 0.53mm X5,rm flm frickness
Flow rathes: Helium (carrier) = 5ml. rinh, Helium (make-up) = 25ml. rinh
Flydogen (make-up) = 30ml. rinh, Afr (make-up) = 350ml. rinh
Civen Profile: Temp 1 = 150.°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8 Chini, Total Lun fine = 35 min
Standard, Flower = 200°C, FlD (Flower = 200°C) FlD (Flower = 200°C) Flower = 200°C (Flower = 200°C)

| Comment and the second | | Peak | | PIO RT | |
|---|-----|-----------------|-------------------|---------|----------|
| | | No. | Name | (milm.) | |
| _ | | 200 | Total Arodor 1254 | 18.12 | |
| 20000 | | | | | |
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|] | G. | | | | |
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| | | | | | |

Part # 99139

The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



CERTIFIED REFERENCE MATERIAL











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. P133401

Catalog No.:

32000

Lot No.: A0206810

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

use.

Pkg Amt:

> 1 mL

Expiration Date:

April 30, 2030

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

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% | 200.3 μg/mL | +/- 11.1143 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638 | 99% | 200.6 μg/mL | +/- 11.1298 |

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

Solvent:

Acetone

CAS# **Purity**

67-64-1 99%

Tech Tips:

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

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

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

Quality Confirmation Test

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:

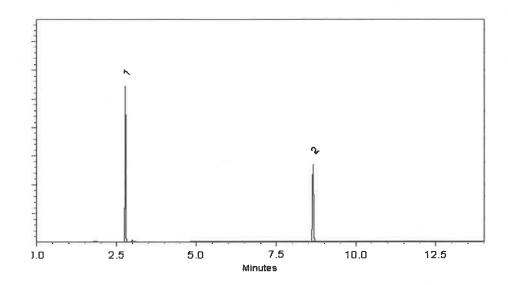
FCD

Split Vent:

10 ml/min.

Inj. Vol

1μl



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

Laith Clemente - Operations Technician I

Date Mixed:

22-Jan-2024

Balance Serial #

1128360905

Gunga J Address

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

24-Jan-2024

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

P13357
P13357
P13357
04/25/2025



CERTIFIED REFERENCE MATERIAL











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. P133401

Catalog No.:

32000

Lot No.: A0206810

Description:

Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

Container Size:

use.

Pkg Amt:

> 1 mL

Expiration Date:

April 30, 2030

Storage:

10°C or colder

Handling:

Contains PCBs - sonicate prior to

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% | 200.3 μg/mL | +/- 11.1143 |
| 2 | Decachlorobiphenyl (BZ# 209) | 2051-24-3 | 30638 | 99% | 200.6 μg/mL | +/- 11.1298 |

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

Solvent:

Acetone

CAS# **Purity**

67-64-1 99%

Tech Tips:

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

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

Quality Confirmation Test

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:

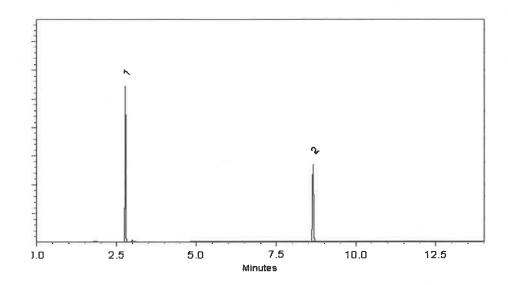
FCD

Split Vent:

10 ml/min.

Inj. Vol

1μl



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

Laith Clemente - Operations Technician I

Date Mixed:

22-Jan-2024

Balance Serial #

1128360905

Gunga J Address

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

24-Jan-2024

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

P13357
P13357
P13357
04/25/2025



ISO 17034

Reference Material Certificate

Product Information Sheet

Aroclor 1221 Standard Product Name:

PP-292-1 Product Number: 31-Mar-2032 Expiration Date:

20-Feb-2024 0006783205

Lot Issue Date:

Lot Number:

Store at Room Temperature (15° to 30°C). Storage Conditions:

| Analyte Lot | 2 NT01017 |
|----------------|--------------|
| CAS# | 011104-28- |
| Uncertainty | 0.5 µg/mL |
| Concentration | 100.3 ± |
| Component Name | Aroclor 1221 |

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P133\$2

Plaats

05 106124

Page: 1 of 2

CSD-QA-015.2

Cert No. AT-1937 ISO 17025



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois QMS Representative

> AND NATIONAL ACCUMENTATION BOARD
>
> REFLICTE MATERIAL
>
> PRODUCER ANAB

ISO 17034 Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015 Quality Management System. Cert# 951215321 Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.2

Cert No. AT-1937 ISO 17025

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



CERTIFIED REFERENCE MATERIAL











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.:

32410

Lot No.: A0207475

Description:

Aroclor® 1268 Standard

Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane

Container Size:

2 mL

Pkg Amt: > 1 mL

Expiration Date:

May 31, 2030

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ship: **Ambient**

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|--------------|------------|----------|--------|--------------------------------|--|
| 1 | Aroclor 1268 | 11100-14-4 | 10947000 | % | 1,000.0 μg/mL | +/- 55.4925 |

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

Solvent: Hexane

CAS#

110-54-3

Purity 99% P 1338° 18/2024

Quality Confirmation Test

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:

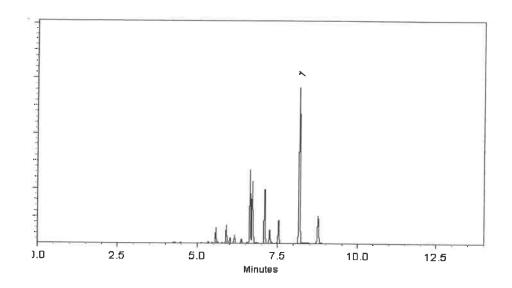
ECD ...

Split Vent:

Split ratio 500:1

Inj. Vol

0.2μΙ



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.

migran mega

Michael Maye - Operations Tech I

Date Mixed:

06-Feb-2024

Balance Serial #

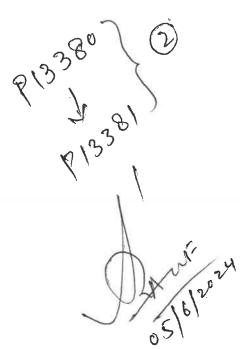
B442140311

Dillan Murphy - Operations Technician I

Date Passed:

09-Feb-2024

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



ISO 17034



Reference Material Certificate

Product Name:

Aroclor 1242 Standard

Lot Number:

0006665550

Product Number:

PP-312-1

Lot Issue Date:

08-Feb-2022

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date:

31-Jan-2027

| | CERTIFI | ED VALUES | | |
|----------------|---------------|----------------------|-------------|-------------|
| Component Name | Concentration | Expanded Uncertainty | CAS# | Analyte Lot |
| Aroclor 1242 | 100.4 : | ± 0.5 μg/mL | 053469-21-9 | NT01020 |

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Page: 1 of 2

P13589 AJ
10/14/24

CSD-QA-015.1



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois QMS Representative



ISO 17034 Cert No. AR-1936 RM was produced in accordance with the TUV/SUD registered ISO 9001:2015

Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/ CSD-QA-015.1



ISO 17025 Cert No. AT-



ISO 17034

Reference Material Certificate **Product Information Sheet**

Product Name:

Aroclor 1248 Standard

Lot Number:

0006726317

Product Number:

PP-342-1

Lot Issue Date:

27-Jan-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 28-Feb-2031

| Component Name | Concentration | Uncertainty | CAS# | Analyte Lot |
|----------------|---------------|-------------|-------------|-------------|
| Aroclor 1248 | 100.3 ± | 0.5 μg/mL | 012672-29-6 | NT01582 |

Matrix: isooctane (2,2,4-trimethylpentane)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material (RM) standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above. Purity values are taken from approved vendor raw material certificates.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference (RM) standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference (RM) standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard (RM) is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

P13591 AJ 1011412024 P13592

ISO 17025

Page: 1 of 2

CSD-QA-015.1



Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois QMS Representative





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.:

Description:

32039

Lot No.: A0210629

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

July 31, 2030

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

Pkg Amt: > 1 mL Storage:

25°C nominal

Handling:

This product contains PCBs.

Aroclor® 1016/1260 Mix

Ship: **Ambient**

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|--------------|------------|---------|--------|--------------------------------|--|
| 1 | Aroclor 1016 | 12674-11-2 | 07 | % | 1,005.3 μg/mL | +/- 55.7809 |
| 2 | Aroclor 1260 | 11096-82-5 | 1320657 | % | 1,000.0 μg/mL | +/- 55.4850 |

* 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

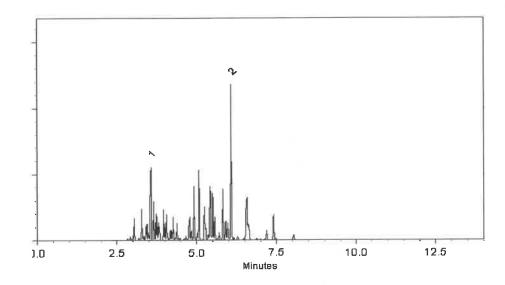
Det. Type:

ECD

Split Vent:

10 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.

Laith Clemente - Operations Technician I

Date Mixed:

22-Арт-2024

Balance Serial #

B442140311

Dillan Murphy - Operations Technician I

Date Passed:

24-Apr-2024

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED REFERENCE MATERIAL

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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.:

32007

Lot No.: A0215270

Description:

Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size :

2 mL

Pkg Amt:

t: > 1 mL

Expiration Date:

November 30, 2030

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ship: Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|--------------|------------|----------|--------|--------------------------------|--|
| 1 | Aroclor 1221 | 11104-28-2 | 14969200 | % | 1,005.0 μg/mL | +/- 55.7700 |

* 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

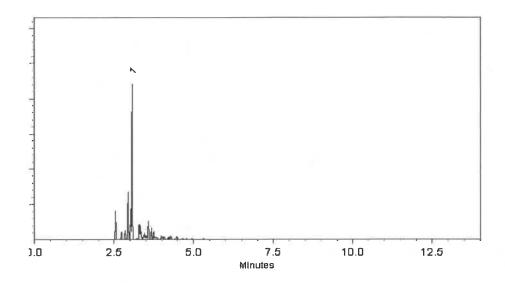
Split Vent:

10 ml/min.

Inj. Vol

1μΙ ,

Talle and Continue



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.

Michael Maye - Operations Tech I

Date Mixed:

16-Aug-2024

Balance Serial #

1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

20-Aug-2024



General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



CERTIFIED REFERENCE MATERIAL









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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.:

32011

Lot No.: A0217391

Description:

Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

Container Size :

2 mL

Pkg Amt:

Expiration Date:

January 31, 2031

Storage:

25°C nominal

Handling:

This product contains PCBs.

Ship: Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS# | Lot# | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|--------------|------------|-----------|--------|--------------------------------|--|
| 1 | Aroclor 1254 | 11097-69-1 | 124-191-B | % | 1,004.7 μg/mL | +/- 55.7515 |

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

Solvent:

Hexane

CAS# 110-54-3 **Purity** 99%

P13830
AJ
12109124

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

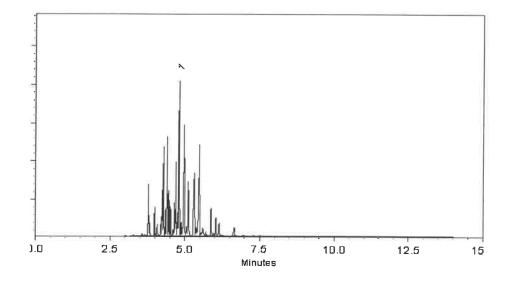
Det. Type:

ECD

Split Vent:

300 ml/min.

Inj. Vol 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.

Michael Maye - Operations Tech I

Date Mixed:

02-Oct-2024

Balance Serial #

C322230531

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed:

07-Oct-2024



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

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.

Lot No.: A0219655

32008 Catalog No.:

Aroclor® 1232 Standard Description:

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

2 mL Expiration Date: Container Size:

This product contains PCBs.

Handling:

March 31, 2031

> 1 mL Pkg Amt:

25°C nominal Storage:

Ambient Ship:

VALUE CERTIFIED

| Slution Order Aroclor 1232 | CERTIFIED VALUES CAS# Lot# Purity Grav. Conc. Uncertainty * (weight/volume) (95% C.L.; K=2) | 11141-16-5 15665-01% 1,007.0 µg/mL +/- 55.8810 |
|-------------------------------|--|--|
| | on Compound | Aroclor 1232 |

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

Hexane Solvent:

110-54-3 CAS#

%66 Purity

038619 8 +8610

Column:

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

Carrier Gas:

helium-constant pressure 20 psi.

Temp. Program:

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

Inj. Temp: 250°C

Det. Temp: 300°C

Det. Type: ECD

Split Vent: 10 ml/min.

Inj. Vol

12.5 10.0 7.5 Minutes

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

Michael Maye - Operations Tech I

02-Dec-2024 Date Mixed:

C322230531 Balance Serial#

Date Passed:

Brittany Federinko - Operations Tech I

公本品工

05-Dec-2024



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

Certificate of Analysis

chromatographic plus

www.restek.com

CERTIFIED REFERENCE MATERIAL









SO/IEC 17025 Ancredited
Testing Laboratory
Certificate #3222.02



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE

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

Lot No.: A0220950

32409 Catalog No.:

Aroclor® 1262 Standard Description:

Aroclor® 1262 Standard 1,000 µg/mL, 1mL/ampul, Hexane

Pkg Amt: 2 mL Expiration Date: Container Size:

Storage: This product contains PCBs. April 30, 2031

Handling:

25°C nominal

> 1 mL

Ambient

Ship:

VALUE CERTIFIED

S

| Elution Order | Compound | CAS# | Lot# | Purity (| Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|------------------|--------------|---------------------|----------|----------|--------------------------------|--|
| | Aroclor 1262 | 37324-23-5 10849100 | 10849100 | % | % 1,002.0 µg/mL | +/- 55.6035 |

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

Hexane Solvent: 110-54-3 CAS#

Purity

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:

Det. Temp: 300°C

Det. Type: ECD

Split Vent: 300 ml/min.

Inj. Vol

10.0 Minutes

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

specific instrument, method, and application.

Tom Suckar Mix Technician

09-Jan-2025 Date Mixed:

C322230531 Balance Serial#

Sutter Simbo

14-Jan-2025 Date Passed: Brittany Federinko - Operations Tech I

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





Johns Certificate of Analysis

Material No.: 9262-03 Batch No.: 24G1962003

Manufactured Date: 2024-05-23 Expiration Date: 2025-08-22

Revision No.: 0

| Test | Specification | Result |
|---|---------------|-------------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 3 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 1 |
| ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| Assay (Total Saturated Colsomers) (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

Jamie Croak Director Quality Operations, Bioscience Production