CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY

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

## RETENTION TIMES OF INITIAL CALIBRATION

**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** P2403 **SAS No.:** P2403 **SDG NO.:** P2403

**Instrument ID:** ECD_Q **Calibration Date(s):** 04/23/2024 04/23/2024

**Calibration Times:** 10:25 17:00

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GC Column: ZB-MR1 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PQ066195.D RT 750 = PQ066196.D

RT 500 = PQ066197.D RT 250 = PQ066198.D RT 050 = PQ066199.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.45 | 4.65 |
| Aroclor-1016-2 | (2) | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.47 | 4.67 |
| Aroclor-1016-3 | (3) | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.53 | 4.73 |
| Aroclor-1016-4 | (4) | 4.72 | 4.72 | 4.72 | 4.72 | 4.72 | 4.72 | 4.62 | 4.82 |
| Aroclor-1016-5 | (5) | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.91 | 5.11 |
| Aroclor-1260-1 | (1) | 6.12 | 6.12 | 6.12 | 6.12 | 6.11 | 6.12 | 6.02 | 6.22 |
| Aroclor-1260-2 | (2) | 6.38 | 6.38 | 6.38 | 6.38 | 6.38 | 6.38 | 6.28 | 6.48 |
| Aroclor-1260-3 | (3) | 6.73 | 6.73 | 6.73 | 6.73 | 6.73 | 6.73 | 6.63 | 6.83 |
| Aroclor-1260-4 | (4) | 6.95 | 6.95 | 6.95 | 6.95 | 6.95 | 6.95 | 6.85 | 7.05 |
| Aroclor-1260-5 | (5) | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.16 | 7.36 |
| Decachlorobiphenyl | | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.55 | 8.75 |
| Tetrachloro-m-xylene | | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.34 | 3.54 |
| Aroclor-1242-1 | (1) | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.45 | 4.65 |
| Aroclor-1242-2 | (2) | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.57 | 4.47 | 4.67 |
| Aroclor-1242-3 | (3) | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.53 | 4.73 |
| Aroclor-1242-4 | (4) | 4.72 | 4.72 | 4.72 | 4.72 | 4.72 | 4.72 | 4.62 | 4.82 |
| Aroclor-1242-5 | (5) | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.34 | 5.54 |
| Decachlorobiphenyl | | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.55 | 8.75 |
| Tetrachloro-m-xylene | | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.34 | 3.54 |
| Aroclor-1248-1 | (1) | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.45 | 4.65 |
| Aroclor-1248-2 | (2) | 4.82 | 4.82 | 4.82 | 4.82 | 4.82 | 4.82 | 4.72 | 4.92 |
| Aroclor-1248-3 | (3) | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.91 | 5.11 |
| Aroclor-1248-4 | (4) | 5.40 | 5.40 | 5.41 | 5.41 | 5.41 | 5.41 | 5.31 | 5.51 |
| Aroclor-1248-5 | (5) | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.44 | 5.34 | 5.54 |
| Decachlorobiphenyl | | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.55 | 8.75 |
| Tetrachloro-m-xylene | | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.34 | 3.54 |
| Aroclor-1254-1 | (1) | 5.38 | 5.38 | 5.38 | 5.38 | 5.38 | 5.38 | 5.28 | 5.48 |
| Aroclor-1254-2 | (2) | 5.59 | 5.59 | 5.60 | 5.60 | 5.59 | 5.59 | 5.49 | 5.69 |
| Aroclor-1254-3 | (3) | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.95 | 5.85 | 6.05 |
| Aroclor-1254-4 | (4) | 6.24 | 6.23 | 6.24 | 6.24 | 6.23 | 6.24 | 6.14 | 6.34 |
| Aroclor-1254-5 | (5) | 6.65 | 6.65 | 6.65 | 6.65 | 6.65 | 6.65 | 6.55 | 6.75 |
| Decachlorobiphenyl | | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.55 | 8.75 |
| Tetrachloro-m-xylene | | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.34 | 3.54 |
| Aroclor-1268-1 | (1) | 7.53 | 7.53 | 7.53 | 7.53 | 7.53 | 7.53 | 7.43 | 7.63 |
| Aroclor-1268-2 | (2) | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.61 | 7.51 | 7.71 |
| Aroclor-1268-3 | (3) | 7.79 | 7.79 | 7.79 | 7.79 | 7.79 | 7.79 | 7.69 | 7.89 |
| Aroclor-1268-4 | (4) | 8.12 | 8.12 | 8.12 | 8.12 | 8.12 | 8.12 | 8.02 | 8.22 |
| Aroclor-1268-5 | (5) | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.31 | 8.51 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.65 | 8.55 | 8.75 |
| Tetrachloro-m-xylene | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.44 | 3.34 | 3.54 |

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**Contract:** CHEM02

**Lab Code:** CHEM **Case No.:** P2403 **SAS No.:** P2403 **SDG NO.:** P2403

**Instrument ID:** ECD_Q **Calibration Date(s):** 04/23/2024 04/23/2024

**Calibration Times:** 10:25 17:00

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GC Column: ZB-MR2 ID: 0.32 (mm)

**LAB FILE ID:** RT 1000 = PQ066195.D RT 750 = PQ066196.D

RT 500 = PQ066197.D RT 250 = PQ066198.D RT 050 = PQ066199.D

| COMPOUND | | RT 1000 | RT 750 | RT 500 | RT 250 | RT 050 | MEAN RT | RT WINDOW FROM | RT WINDOW TO |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016-1 | (1) | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.63 | 3.83 |
| Aroclor-1016-2 | (2) | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.65 | 3.85 |
| Aroclor-1016-3 | (3) | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.81 | 4.01 |
| Aroclor-1016-4 | (4) | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.86 | 4.06 |
| Aroclor-1016-5 | (5) | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 | 4.05 | 4.25 |
| Aroclor-1260-1 | (1) | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.14 | 5.04 | 5.24 |
| Aroclor-1260-2 | (2) | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.33 | 5.23 | 5.43 |
| Aroclor-1260-3 | (3) | 5.47 | 5.47 | 5.47 | 5.47 | 5.47 | 5.47 | 5.37 | 5.57 |
| Aroclor-1260-4 | (4) | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.84 | 6.04 |
| Aroclor-1260-5 | (5) | 6.18 | 6.18 | 6.18 | 6.18 | 6.18 | 6.18 | 6.08 | 6.28 |
| Decachlorobiphenyl | | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.63 | 2.83 |
| Aroclor-1242-1 | (1) | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.63 | 3.83 |
| Aroclor-1242-2 | (2) | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.65 | 3.85 |
| Aroclor-1242-3 | (3) | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.91 | 3.81 | 4.01 |
| Aroclor-1242-4 | (4) | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.89 | 4.09 |
| Aroclor-1242-5 | (5) | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.39 | 4.59 |
| Decachlorobiphenyl | | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.63 | 2.83 |
| Aroclor-1248-1 | (1) | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.63 | 3.83 |
| Aroclor-1248-2 | (2) | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.96 | 3.86 | 4.06 |
| Aroclor-1248-3 | (3) | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.89 | 4.09 |
| Aroclor-1248-4 | (4) | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 | 4.15 | 4.05 | 4.25 |
| Aroclor-1248-5 | (5) | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.42 | 4.62 |
| Decachlorobiphenyl | | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.63 | 2.83 |
| Aroclor-1254-1 | (1) | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.49 | 4.39 | 4.59 |
| Aroclor-1254-2 | (2) | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.53 | 4.73 |
| Aroclor-1254-3 | (3) | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 4.91 | 5.11 |
| Aroclor-1254-4 | (4) | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.24 | 5.14 | 5.34 |
| Aroclor-1254-5 | (5) | 5.64 | 5.65 | 5.65 | 5.65 | 5.65 | 5.65 | 5.55 | 5.75 |
| Decachlorobiphenyl | | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.63 | 2.83 |
| Aroclor-1268-1 | (1) | 6.46 | 6.46 | 6.46 | 6.46 | 6.46 | 6.46 | 6.36 | 6.56 |
| Aroclor-1268-2 | (2) | 6.52 | 6.52 | 6.52 | 6.52 | 6.52 | 6.52 | 6.42 | 6.62 |
| Aroclor-1268-3 | (3) | 6.72 | 6.72 | 6.72 | 6.72 | 6.72 | 6.72 | 6.62 | 6.82 |
| Aroclor-1268-4 | (4) | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 7.02 | 6.92 | 7.12 |
| Aroclor-1268-5 | (5) | 7.28 | 7.28 | 7.29 | 7.29 | 7.28 | 7.28 | 7.18 | 7.38 |

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**RETENTION TIMES OF INITIAL CALIBRATION**

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|---|---|---|---|---|---|---|---|---|
| Decachlorobiphenyl | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.40 | 7.60 |
| Tetrachloro-m-xylene | 2.74 | 2.73 | 2.74 | 2.73 | 2.73 | 2.73 | 2.63 | 2.83 |