284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CHEM02

Lab Code: ACE SDG No.: Q2987

Instrument ID: BNA_P Calibration Date(s): 09/08/2025 09/08/2025

Calibration Time(s): 14:41 18:07

LAB FILE ID: RRFAL1 = BP025684.D RRFAL2 = BP025685.D RRFAL3 = BP025686.D
RRFAL4 = BP025687.D RRFAL5 = BP025688.D RRFAL6 = BP025689.D

| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| 1,4-Dioxane | 0.487 | 0.522 | 0.525 | 0.525 | 0.524 | | 0.517 | 3.2 |
| Benzaldehyde | | 0.981 | 0.979 | 0.814 | 0.578 | 0.369 | 0.744 | 35.8 |
| Hexachloroethane | 0.548 | 0.578 | 0.592 | 0.590 | 0.572 | | 0.576 | 3.0 |
| Nitrobenzene | 0.321 | 0.368 | 0.382 | 0.400 | 0.391 | | 0.372 | 8.4 |
| Isophorone | 0.704 | 0.760 | 0.792 | 0.792 | 0.764 | | 0.762 | 4.7 |
| 2-Nitrophenol | 0.155 | 0.177 | 0.187 | 0.197 | 0.193 | | 0.182 | 9.2 |
| 2,4-Dimethylphenol | 0.340 | 0.374 | 0.372 | 0.397 | 0.382 | | 0.373 | 5.5 |
| Bis(2-Chloroethoxy)methane | 0.384 | 0.442 | 0.457 | 0.461 | 0.445 | | 0.438 | 7.0 |
| 2,4-Dichlorophenol | 0.263 | 0.302 | 0.317 | 0.329 | 0.321 | | 0.306 | 8.6 |
| Naphthalene | 1.021 | 1.056 | 1.071 | 1.066 | 1.015 | | 1.046 | 2.5 |
| 4-Chloroaniline | | 0.423 | 0.440 | 0.458 | 0.454 | 0.425 | 0.440 | 3.7 |
| Hexachlorobutadiene | 0.225 | 0.228 | 0.234 | 0.233 | 0.220 | | 0.228 | 2.5 |
| Phenol | | 1.498 | 1.675 | 1.722 | 1.773 | 1.629 | 1.659 | 6.3 |
| Caprolactam | | 0.122 | 0.127 | 0.129 | 0.129 | 0.121 | 0.126 | 2.8 |
| 4-Chloro-3-methylphenol | 0.321 | 0.345 | 0.381 | 0.378 | 0.377 | | 0.360 | 7.3 |
| 2-Methylnaphthalene | 0.712 | 0.751 | 0.776 | 0.760 | 0.735 | | 0.747 | 3.2 |
| Hexachlorocyclopentadiene | | 0.222 | 0.272 | 0.321 | 0.341 | 0.355 | 0.302 | 18.2 |
| 2,4,6-Trichlorophenol | 0.338 | 0.378 | 0.403 | 0.420 | 0.406 | | 0.389 | 8.3 |
| 2,4,5-Trichlorophenol | 0.388 | 0.403 | 0.433 | 0.456 | 0.452 | | 0.426 | 7.0 |
| 1,1-Biphenyl | 1.332 | 1.412 | 1.450 | 1.459 | 1.357 | | 1.402 | 4.0 |
| 2-Chloronaphthalene | 1.011 | 1.114 | 1.137 | 1.157 | 1.099 | | 1.104 | 5.1 |
| 2-Nitroaniline | 0.292 | 0.333 | 0.356 | 0.386 | 0.384 | | 0.350 | 11.1 |
| Bis(2-Chloroethyl)ether | | 1.249 | 1.355 | 1.358 | 1.347 | 1.238 | 1.309 | 4.6 |
| Dimethylphthalate | 1.478 | 1.508 | 1.518 | 1.501 | 1.411 | | 1.483 | 2.9 |
| 2,6-Dinitrotoluene | 0.263 | 0.291 | 0.307 | 0.322 | 0.321 | | 0.300 | 8.2 |
| Acenaphthylene | 1.781 | 1.863 | 1.902 | 1.931 | 1.817 | | 1.859 | 3.3 |
| 3-Nitroaniline | | 0.253 | 0.293 | 0.292 | 0.264 | 0.234 | 0.267 | 9.5 |
| Acenaphthene | 1.157 | 1.220 | 1.209 | 1.224 | 1.162 | | 1.194 | 2.7 |
| 2,4-Dinitrophenol | | 0.130 | 0.167 | 0.193 | 0.216 | 0.217 | 0.185 | 20.0 |
| 4-Nitrophenol | | 0.145 | 0.200 | 0.224 | 0.234 | 0.217 | 0.204 | 17.3 |
| Dibenzofuran | 1.672 | 1.756 | 1.723 | 1.740 | 1.648 | | 1.708 | 2.7 |
| 2,4-Dinitrotoluene | 0.385 | 0.443 | 0.461 | 0.485 | 0.477 | | 0.450 | 8.9 |
| Diethylphthalate | 1.518 | 1.567 | 1.571 | 1.506 | 1.463 | | 1.525 | 3.0 |
| 2-Chlorophenol | 1.102 | 1.288 | 1.330 | 1.344 | 1.359 | | 1.285 | 8.2 |

All other compounds must meet a minimum RRF of 0.010.

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| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Fluorene | 1.389 | 1.447 | 1.428 | 1.401 | 1.310 | | 1.395 | 3.8 |
| 4-Chlorophenyl-phenylether | 0.723 | 0.741 | 0.723 | 0.709 | 0.674 | | 0.714 | 3.5 |
| 4-Nitroaniline | | 0.281 | 0.296 | 0.290 | 0.248 | 0.202 | 0.263 | 14.9 |
| 4,6-Dinitro-2-methylphenol | | 0.125 | 0.136 | 0.147 | 0.145 | 0.137 | 0.138 | 6.3 |
| N-Nitrosodiphenylamine | 0.534 | 0.595 | 0.588 | 0.612 | 0.563 | | 0.578 | 5.3 |
| 1,2,4,5-Tetrachlorobenzene | 0.547 | 0.586 | 0.607 | 0.635 | 0.600 | | 0.595 | 5.4 |
| 4-Bromophenyl-phenylether | 0.197 | 0.219 | 0.215 | 0.223 | 0.212 | | 0.213 | 4.7 |
| Hexachlorobenzene | 0.231 | 0.251 | 0.251 | 0.247 | 0.241 | | 0.244 | 3.4 |
| Atrazine | | 0.239 | 0.251 | 0.250 | 0.230 | 0.216 | 0.237 | 6.2 |
| Pentachlorophenol | | 0.140 | 0.154 | 0.164 | 0.167 | 0.157 | 0.156 | 6.8 |
| 2-Methylphenol | | 1.185 | 1.295 | 1.313 | 1.343 | 1.225 | 1.272 | 5.1 |
| Phenanthrene | 1.064 | 1.150 | 1.114 | 1.119 | 1.040 | | 1.097 | 4.1 |
| Anthracene | 1.064 | 1.149 | 1.140 | 1.151 | 1.060 | | 1.113 | 4.2 |
| Carbazole | | 1.026 | 1.055 | 1.055 | 0.996 | 0.867 | 1.000 | 7.8 |
| Di-n-butylphthalate | 1.237 | 1.322 | 1.351 | 1.296 | 1.221 | | 1.285 | 4.3 |
| Fluoranthene | 1.192 | 1.269 | 1.271 | 1.265 | 1.234 | | 1.246 | 2.7 |
| Pyrene | 1.281 | 1.323 | 1.327 | 1.327 | 1.254 | | 1.303 | 2.6 |
| Butylbenzylphthalate | 0.567 | 0.582 | 0.596 | 0.594 | 0.563 | | 0.580 | 2.6 |
| 3,3-Dichlorobenzidine | | 0.452 | 0.454 | 0.461 | 0.417 | 0.360 | 0.429 | 9.8 |
| 2,2-oxybis(1-Chloropropane) | | 2.063 | 2.173 | 2.119 | 2.101 | 1.925 | 2.076 | 4.5 |
| Benzo(a)anthracene | 1.258 | 1.347 | 1.358 | 1.370 | 1.328 | | 1.332 | 3.3 |
| Chrysene | 1.195 | 1.284 | 1.271 | 1.298 | 1.221 | | 1.254 | 3.5 |
| Bis(2-ethylhexyl)phthalate | 0.839 | 0.891 | 0.895 | 0.838 | 0.801 | | 0.853 | 4.7 |
| Di-n-octyl phthalate | | 1.409 | 1.419 | 1.340 | 1.320 | 1.261 | 1.350 | 4.8 |
| Benzo(b)fluoranthene | 1.082 | 1.187 | 1.191 | 1.225 | 1.169 | | 1.171 | 4.6 |
| Benzo(k)fluoranthene | 1.162 | 1.193 | 1.208 | 1.195 | 1.179 | | 1.188 | 1.5 |
| Benzo(a)pyrene | 1.077 | 1.132 | 1.119 | 1.163 | 1.134 | | 1.125 | 2.8 |
| Indeno(1,2,3-cd)pyrene | 1.303 | 1.415 | 1.409 | 1.464 | 1.446 | | 1.407 | 4.4 |
| Dibenzo(a,h)anthracene | 1.010 | 1.153 | 1.159 | 1.207 | 1.172 | | 1.140 | 6.6 |
| Benzo(g,h,i)perylene | 1.068 | 1.133 | 1.130 | 1.200 | 1.175 | | 1.141 | 4.4 |
| Acetophenone | | 2.017 | 2.153 | 2.128 | 2.175 | 1.874 | 2.069 | 6.0 |
| 2,3,4,6-Tetrachlorophenol | 0.343 | 0.370 | 0.388 | 0.387 | 0.382 | | 0.374 | 5.0 |
| 1,4-Dioxane-d8 | 0.476 | 0.496 | 0.488 | 0.485 | 0.498 | | 0.489 | 1.8 |
| Pyridine-d5 | | 1.338 | 1.381 | 1.532 | 1.483 | 1.350 | 1.417 | 6.1 |
| Phenol-d5 | | 1.465 | 1.591 | 1.678 | 1.732 | 1.612 | 1.616 | 6.3 |

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| COMPOUND | RRFAL1 | RRFAL2 | RRFAL3 | RRFAL4 | RRFAL5 | RRFAL6 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| Bis-(2-Chloroethyl)ether-d8 | | 0.949 | 1.015 | 1.021 | 1.018 | 0.936 | 0.988 | 4.2 |
| 2-Chlorophenol-d4 | 1.121 | 1.207 | 1.313 | 1.319 | 1.332 | | 1.258 | 7.3 |
| 4-Methylphenol-d8 | | 1.225 | 1.363 | 1.391 | 1.423 | 1.287 | 1.338 | 6.0 |
| Nitrobenzene-d5 | 0.133 | 0.150 | 0.157 | 0.168 | 0.161 | | 0.154 | 8.8 |
| 2-Nitrophenol-d4 | 0.151 | 0.164 | 0.180 | 0.190 | 0.189 | | 0.175 | 9.7 |
| 2,4-Dichlorophenol-d3 | 0.267 | 0.311 | 0.329 | 0.339 | 0.329 | | 0.315 | 9.2 |
| 4-Chloroaniline-d4 | | 0.409 | 0.450 | 0.457 | 0.459 | 0.432 | 0.442 | 4.7 |
| 4-Methylphenol | | 1.264 | 1.416 | 1.429 | 1.471 | 1.314 | 1.379 | 6.3 |
| Dimethylphthalate-d6 | 1.477 | 1.552 | 1.542 | 1.537 | 1.451 | | 1.512 | 3.0 |
| Acenaphthylene-d8 | 1.559 | 1.657 | 1.701 | 1.712 | 1.672 | | 1.660 | 3.7 |
| 4-Nitrophenol-d4 | | 0.186 | 0.248 | 0.274 | 0.283 | 0.263 | 0.251 | 15.3 |
| Fluorene-d10 | 1.218 | 1.285 | 1.297 | 1.278 | 1.218 | | 1.259 | 3.0 |
| 4,6-Dinitro-2-methylphenol- | | 0.122 | 0.134 | 0.143 | 0.143 | 0.139 | 0.136 | 6.6 |
| Anthracene-d10 | 0.927 | 0.998 | 0.978 | 0.982 | 0.928 | | 0.963 | 3.4 |
| Pyrene-d10 | 1.053 | 1.124 | 1.119 | 1.105 | 1.071 | | 1.095 | 2.8 |
| Benzo(a)pyrene-d12 | 0.975 | 1.017 | 1.040 | 1.061 | 1.040 | | 1.027 | 3.2 |
| N-Nitroso-di-n-propylamine | 0.980 | 1.082 | 1.165 | 1.130 | 1.138 | | 1.099 | 6.7 |

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