284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01

Lab Code: ACE SDG No.: Q3174

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

Heated Purge: (Y/N) Y Calibration Time(s): 10:00 12:08

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY023303.D RRF010 = VY023304.D RRF020 = VY023305.D
RRF050 = VY023306.D RRF100 = VY023307.D RRF150 = VY023308.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.471 | 0.447 | 0.434 | 0.365 | 0.345 | 0.345 | 0.401 | 13.9 |
| Chloromethane | 0.661 | 0.637 | 0.604 | 0.534 | 0.507 | 0.502 | 0.574 | 12 |
| Vinyl Chloride | 0.800 | 0.786 | 0.757 | 0.695 | 0.653 | 0.647 | 0.723 | 9.3 |
| Bromomethane | 0.709 | 0.630 | 0.611 | 0.533 | 0.524 | 0.537 | 0.590 | 12.4 |
| Chloroethane | 0.544 | 0.529 | 0.504 | 0.471 | 0.447 | 0.441 | 0.489 | 8.8 |
| Trichlorofluoromethane | 0.990 | 0.998 | 0.953 | 0.870 | 0.843 | 0.822 | 0.913 | 8.4 |
| 1,1,2-Trichlorotrifluoroethane | 0.556 | 0.524 | 0.511 | 0.470 | 0.446 | 0.437 | 0.491 | 9.6 |
| 1,1-Dichloroethene | 0.501 | 0.504 | 0.481 | 0.458 | 0.446 | 0.443 | 0.472 | 5.7 |
| Acetone | 0.112 | 0.110 | 0.096 | 0.100 | 0.095 | 0.087 | 0.100 | 9.3 |
| Carbon Disulfide | 1.643 | 1.589 | 1.553 | 1.452 | 1.383 | 1.351 | 1.495 | 7.9 |
| Methyl tert-butyl Ether | 1.070 | 1.130 | 1.123 | 1.121 | 1.121 | 1.096 | 1.110 | 2 |
| Methyl Acetate | 0.255 | 0.275 | 0.254 | 0.233 | 0.235 | 0.220 | 0.245 | 8.1 |
| Methylene Chloride | 0.654 | 0.569 | 0.542 | 0.503 | 0.478 | 0.467 | 0.535 | 13 |
| trans-1,2-Dichloroethene | 0.555 | 0.544 | 0.542 | 0.519 | 0.506 | 0.498 | 0.528 | 4.4 |
| 1,1-Dichloroethane | 0.918 | 0.913 | 0.899 | 0.844 | 0.823 | 0.816 | 0.869 | 5.3 |
| Cyclohexane | 0.882 | 0.799 | 0.790 | 0.728 | 0.711 | 0.704 | 0.769 | 8.9 |
| 2-Butanone | 0.123 | 0.130 | 0.126 | 0.122 | 0.123 | 0.116 | 0.123 | 3.7 |
| Carbon Tetrachloride | 0.513 | 0.525 | 0.506 | 0.503 | 0.483 | 0.475 | 0.501 | 3.7 |
| cis-1,2-Dichloroethene | 0.595 | 0.617 | 0.606 | 0.592 | 0.590 | 0.586 | 0.597 | 2 |
| Bromochloromethane | 0.376 | 0.357 | 0.355 | 0.329 | 0.317 | 0.317 | 0.342 | 7.1 |
| Chloroform | 0.994 | 0.996 | 0.961 | 0.907 | 0.878 | 0.865 | 0.934 | 6.2 |
| 1,1,1-Trichloroethane | 0.885 | 0.889 | 0.860 | 0.807 | 0.785 | 0.778 | 0.834 | 6 |
| Methylcyclohexane | 0.529 | 0.531 | 0.559 | 0.580 | 0.571 | 0.571 | 0.557 | 3.9 |
| Benzene | 1.380 | 1.361 | 1.391 | 1.369 | 1.318 | 1.299 | 1.353 | 2.7 |
| 1,2-Dichloroethane | 0.357 | 0.367 | 0.352 | 0.344 | 0.330 | 0.318 | 0.344 | 5.2 |
| Trichloroethene | 0.387 | 0.378 | 0.388 | 0.381 | 0.369 | 0.359 | 0.377 | 3 |
| 1,2-Dichloropropane | 0.313 | 0.315 | 0.316 | 0.305 | 0.297 | 0.288 | 0.306 | 3.6 |
| Bromodichloromethane | 0.476 | 0.487 | 0.474 | 0.474 | 0.453 | 0.445 | 0.468 | 3.4 |
| 4-Methyl-2-Pentanone | 0.156 | 0.170 | 0.173 | 0.181 | 0.181 | 0.173 | 0.172 | 5.3 |
| Toluene | 0.794 | 0.831 | 0.885 | 0.896 | 0.879 | 0.868 | 0.859 | 4.5 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.374 | 0.395 | 0.401 | 0.420 | 0.417 | 0.410 | 0.403 | 4.2 |
| cis-1,3-Dichloropropene | 0.450 | 0.477 | 0.492 | 0.497 | 0.491 | 0.483 | 0.482 | 3.6 |
| 1,1,2-Trichloroethane | 0.250 | 0.256 | 0.250 | 0.250 | 0.244 | 0.235 | 0.248 | 3 |
| 2-Hexanone | 0.106 | 0.116 | 0.120 | 0.126 | 0.127 | 0.120 | 0.119 | 6.6 |
| Dibromochloromethane | 0.334 | 0.340 | 0.338 | 0.343 | 0.334 | 0.326 | 0.336 | 1.8 |
| 1,2-Dibromoethane | 0.232 | 0.234 | 0.236 | 0.235 | 0.231 | 0.223 | 0.232 | 2 |
| Tetrachloroethene | 0.534 | 0.483 | 0.546 | 0.512 | 0.472 | 0.442 | 0.498 | 7.9 |
| Chlorobenzene | 1.113 | 1.087 | 1.124 | 1.106 | 1.081 | 1.061 | 1.095 | 2.1 |
| Ethyl Benzene | 1.664 | 1.694 | 1.828 | 1.874 | 1.848 | 1.828 | 1.790 | 4.9 |
| m/p-Xylenes | 0.655 | 0.682 | 0.738 | 0.753 | 0.735 | 0.736 | 0.717 | 5.4 |
| o-Xylene | 0.587 | 0.613 | 0.676 | 0.703 | 0.699 | 0.701 | 0.663 | 7.6 |
| Styrene | 0.925 | 1.020 | 1.127 | 1.187 | 1.172 | 1.165 | 1.099 | 9.5 |
| Bromoform | 0.232 | 0.230 | 0.229 | 0.231 | 0.228 | 0.223 | 0.229 | 1.5 |
| Isopropylbenzene | 3.112 | 3.173 | 3.434 | 3.542 | 3.466 | 3.482 | 3.368 | 5.3 |
| 1,1,2,2-Tetrachloroethane | 0.564 | 0.627 | 0.549 | 0.557 | 0.554 | 0.541 | 0.565 | 5.6 |
| 1,3-Dichlorobenzene | 1.712 | 1.672 | 1.704 | 1.742 | 1.688 | 1.699 | 1.703 | 1.4 |
| 1,4-Dichlorobenzene | 1.775 | 1.681 | 1.711 | 1.695 | 1.632 | 1.624 | 1.686 | 3.3 |
| 1,2-Dichlorobenzene | 1.508 | 1.480 | 1.491 | 1.513 | 1.467 | 1.448 | 1.485 | 1.7 |
| 1,2-Dibromo-3-Chloropropane | 0.096 | 0.089 | 0.089 | 0.087 | 0.087 | 0.084 | 0.089 | 4.4 |
| 1,2,4-Trichlorobenzene | 0.786 | 0.797 | 0.844 | 0.905 | 0.924 | 0.940 | 0.866 | 7.7 |
| 1,2,3-Trichlorobenzene | 0.697 | 0.704 | 0.733 | 0.787 | 0.786 | 0.805 | 0.752 | 6.2 |
| 1,2-Dichloroethane-d4 | 0.472 | 0.456 | 0.455 | 0.430 | 0.417 | 0.407 | 0.439 | 5.8 |
| Dibromofluoromethane | 0.300 | 0.313 | 0.311 | 0.312 | 0.300 | 0.300 | 0.306 | 2.2 |
| Toluene-d8 | 1.121 | 1.125 | 1.176 | 1.187 | 1.155 | 1.159 | 1.154 | 2.3 |
| 4-Bromofluorobenzene | 0.355 | 0.339 | 0.363 | 0.378 | 0.373 | 0.371 | 0.363 | 4 |

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