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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR16

Lab Code: CHEM Case No.: Q1927 SAS No.: Q1927 SDG No.: Q1927

Instrument ID: MSVOA_L Calibration Date(s): 05/01/2025 05/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:03 14:10

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF010 = VL042458.D RRF002 = VL042459.D RRF001 = VL042460.D
RRF0.5 = VL042461.D RRF0.1 = VL042462.D RRF015 = VL042465.D

| COMPOUND | RRF010 | RRF002 | RRF001 | RRF0.5 | RRF0.1 | RRF015 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 1.470 | 1.629 | 1.650 | 1.887 | | 1.639 | 1.655 | 9 |
| Chloromethane | 0.624 | 0.734 | 0.696 | 0.738 | | 0.666 | 0.692 | 6.9 |
| Vinyl Chloride | 0.567 | 0.623 | 0.625 | 0.708 | 0.964 | 0.631 | 0.696 | 19.2 |
| Bromomethane | 0.286 | 0.327 | 0.359 | 0.349 | | 0.324 | 0.329 | 8.6 |
| Chloroethane | 0.231 | 0.271 | 0.272 | 0.250 | | 0.261 | 0.257 | 6.5 |
| Tetrahydrofuran | 0.326 | 0.387 | 0.354 | 0.329 | | 0.322 | 0.344 | 8 |
| Trichlorofluoromethane | 1.376 | 1.528 | 1.489 | 1.660 | | 1.582 | 1.527 | 7 |
| 1,1,2-Trichlorotrifluoroethane | 1.099 | 1.245 | 1.234 | 1.318 | | 1.201 | 1.219 | 6.5 |
| Dichlorotetrafluoroethane | 1.235 | 1.402 | 1.371 | 1.445 | | 1.368 | 1.364 | 5.8 |
| tert-Butyl alcohol | 1.489 | 1.620 | 1.615 | 1.816 | | 1.502 | 1.608 | 8.1 |
| Heptane | 1.445 | 1.593 | 1.634 | 1.276 | | 1.474 | 1.484 | 9.5 |
| 1,1-Dichloroethene | 0.495 | 0.567 | 0.587 | 0.650 | | 0.547 | 0.569 | 10 |
| Acetone | 1.318 | 2.022 | 2.094 | 2.229 | | 1.465 | 1.826 | 22.3 |
| Carbon Disulfide | 1.418 | 1.499 | 1.446 | 1.509 | | 1.558 | 1.486 | 3.7 |
| Methyl tert-Butyl Ether | 0.671 | 0.759 | 0.853 | 0.802 | | 0.740 | 0.765 | 8.9 |
| Methylene Chloride | 0.449 | 0.518 | 0.547 | 0.753 | | 0.477 | 0.549 | 21.9 |
| trans-1,2-Dichloroethene | 0.552 | 0.645 | 0.742 | 0.741 | | 0.644 | 0.665 | 12 |
| 1,1-Dichloroethane | 1.196 | 1.368 | 1.465 | 1.432 | | 1.322 | 1.357 | 7.8 |
| Cyclohexane | 1.045 | 1.096 | 0.998 | 1.135 | | 1.048 | 1.065 | 4.9 |
| 2-Butanone | 0.659 | 0.774 | 0.732 | 0.802 | | 0.650 | 0.723 | 9.3 |
| Carbon Tetrachloride | 0.827 | 0.875 | 0.935 | 0.856 | 0.799 | 0.902 | 0.908 | 13.4 |
| cis-1,2-Dichloroethene | 1.342 | 1.545 | 1.605 | 1.551 | | 1.386 | 1.486 | 7.7 |
| Chloroform | 2.198 | 2.399 | 2.482 | 2.551 | | 2.301 | 2.386 | 5.9 |
| 1,1,1-Trichloroethane | 2.288 | 2.511 | 2.501 | 2.567 | 2.842 | 2.433 | 2.589 | 9.3 |
| 2,2,4-Trimethylpentane | 1.437 | 1.633 | 1.590 | 1.490 | | 1.498 | 1.530 | 5.2 |
| Benzene | 0.892 | 1.036 | 0.974 | 0.924 | | 0.892 | 0.944 | 6.5 |
| 1,2-Dichloroethane | 0.666 | 0.769 | 0.755 | 0.738 | | 0.709 | 0.727 | 5.7 |
| Trichloroethene | 0.347 | 0.404 | 0.364 | 0.389 | 0.419 | 0.355 | 0.360 | 16.3 |
| 1,2-Dichloropropane | 0.317 | 0.362 | 0.405 | 0.368 | | 0.315 | 0.353 | 10.7 |
| Bromodichloromethane | 0.839 | 0.931 | 0.921 | 0.848 | | 0.904 | 0.889 | 4.8 |

* 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 | RRF010 | RRF002 | RRF001 | RRF0.5 | RRF0.1 | RRF015 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-Pentanone | 0.870 | 0.985 | 0.980 | 0.852 | | 0.887 | 0.915 | 6.9 |
| Toluene | 1.016 | 1.025 | 0.969 | 0.935 | | 1.050 | 0.999 | 4.6 |
| t-1,3-Dichloropropene | 0.480 | 0.460 | 0.423 | 0.438 | | 0.510 | 0.462 | 7.5 |
| cis-1,3-Dichloropropene | 0.555 | 0.549 | 0.539 | 0.526 | | 0.577 | 0.549 | 3.5 |
| 1,1,2-Trichloroethane | 0.357 | 0.428 | 0.409 | 0.372 | | 0.371 | 0.387 | 7.7 |
| Dibromochloromethane | 0.630 | 0.673 | 0.643 | 0.651 | | 0.674 | 0.654 | 3 |
| 1,2-Dibromoethane | 0.554 | 0.610 | 0.599 | 0.589 | 0.625 | 0.577 | 0.592 | 4.3 |
| Tetrachloroethene | 0.305 | 0.338 | 0.339 | 0.325 | 0.380 | 0.318 | 0.359 | 19.5 |
| Chlorobenzene | 0.904 | 1.036 | 1.060 | 1.101 | | 0.923 | 1.005 | 8.6 |
| Ethyl Benzene | 1.725 | 1.752 | 1.634 | 1.492 | | 1.754 | 1.671 | 6.7 |
| m/p-Xylene | 1.429 | 1.506 | 1.378 | 1.212 | | 1.479 | 1.401 | 8.3 |
| o-Xylene | 1.423 | 1.519 | 1.393 | 1.197 | | 1.481 | 1.403 | 8.9 |
| Styrene | 0.583 | 0.538 | 0.500 | 0.415 | | 0.582 | 0.523 | 13.3 |
| Bromoform | 0.527 | 0.573 | 0.535 | 0.540 | | 0.568 | 0.549 | 3.7 |
| 1,1,2,2-Tetrachloroethane | 0.846 | 0.990 | 0.985 | 0.976 | 0.945 | 0.887 | 0.967 | 9.7 |
| 2-Chlorotoluene | 1.597 | 1.697 | 1.569 | 1.405 | | 1.667 | 1.587 | 7.2 |
| 1,3,5-Trimethylbenzene | 1.475 | 1.618 | 1.467 | 1.177 | | 1.535 | 1.455 | 11.4 |
| 1,2,4-Trimethylbenzene | 1.646 | 2.075 | 1.788 | 1.568 | | 1.723 | 1.760 | 11.1 |
| 1,3-Dichlorobenzene | 0.893 | 1.056 | 1.022 | 0.975 | | 0.952 | 0.980 | 6.4 |
| 1,4-Dichlorobenzene | 0.907 | 0.966 | 0.945 | 0.869 | | 0.949 | 0.927 | 4.2 |
| 1,2-Dichlorobenzene | 0.864 | 1.033 | 1.007 | 0.977 | | 0.914 | 0.959 | 7.2 |
| 1,2,4-Trichlorobenzene | 0.778 | 0.947 | 0.798 | 0.599 | | 0.828 | 0.790 | 15.8 |
| Hexachloro-1,3-Butadiene | 0.772 | 1.070 | 1.081 | 1.028 | | 0.838 | 0.958 | 14.9 |
| 1,3-Butadiene | 0.681 | 0.836 | 0.874 | 0.883 | | 0.751 | 0.805 | 10.8 |
| Naphthalene | 1.527 | 2.155 | 1.657 | 1.168 | 0.720 | 1.661 | 1.482 | 33 |
| 4-Ethyltoluene | 1.722 | 1.828 | 1.647 | 1.281 | | 1.792 | 1.654 | 13.3 |
| 1-Bromo-4-Fluorobenzene | 0.951 | 0.915 | 0.928 | 0.902 | 0.911 | 0.963 | 0.927 | 2.4 |
| Hexane | 1.215 | 1.345 | 1.290 | 1.278 | | 1.239 | 1.273 | 3.9 |
| Allyl Chloride | 1.076 | 1.164 | 1.181 | 1.283 | | 1.166 | 1.174 | 6.3 |
| 1,4-Dioxane | 150.544 | 172.245 | 185.047 | 175.632 | | 143.678 | 165.429 | 10.6 |

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| COMPOUND | RRF010 | RRF002 | RRF001 | RRF0.5 | RRF0.1 | RRF015 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Methyl Methacrylate | 0.363 | 0.362 | 0.341 | 0.328 | | 0.366 | 0.352 | 4.7 |

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All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.