

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 82N051822W.M  
 Title : SW846 8260  
 Last Update : Sat May 28 02:15:09 2022  
 Response Via : Initial Calibration

## Calibration Files

1 =VN072537.D 5 =VN072538.D 10 =VN072539.D 20 =VN072540.D 50 =VN072541.D 100 =VN072542.D

|        | Compound            | 1              | 5     | 10    | 20    | 50    | 100   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.659          | 0.591 | 0.564 | 0.550 | 0.459 | 0.611 | 0.572 | 11.79  |
| 3) P   | Chloromethane       | 0.646          | 0.491 | 0.496 | 0.499 | 0.391 | 0.583 | 0.517 | 16.92  |
| 4) C   | Vinyl Chloride      | 0.424          | 0.457 | 0.446 | 0.435 | 0.330 | 0.442 | 0.422 | 11.01# |
| 5) T   | Bromomethane        |                | 0.474 | 0.419 | 0.400 | 0.300 | 0.389 | 0.396 | 15.88  |
| 6) T   | Chloroethane        | 0.889          | 0.507 | 0.498 | 0.324 | 0.308 | 0.361 | 0.481 | 45.22  |
| 7) T   | Trichlorofluor...   | 1.070          | 1.035 | 1.025 | 0.986 | 0.749 | 0.983 | 0.975 | 11.83  |
| 8) T   | Diethyl Ether       | 0.268          | 0.319 | 0.306 | 0.295 | 0.238 | 0.311 | 0.289 | 10.59  |
| 9) T   | 1,1,2-Trichlor...   | 0.515          | 0.493 | 0.480 | 0.472 | 0.360 | 0.464 | 0.464 | 11.61  |
| 10) T  | Methyl Iodide       |                | 0.562 | 0.572 | 0.620 | 0.523 | 0.687 | 0.593 | 10.66  |
| 11) T  | Tert butyl alc...   |                | 0.069 | 0.078 | 0.078 | 0.066 | 0.089 | 0.076 | 11.99  |
| 12) CM | 1,1-Dichloroet...   | 0.383          | 0.424 | 0.452 | 0.426 | 0.333 | 0.430 | 0.408 | 10.55# |
| 13) T  | Acrolein            |                | 0.110 | 0.097 | 0.095 | 0.083 | 0.109 | 0.099 | 11.47  |
| 14) T  | Allyl chloride      | 0.660          | 0.675 | 0.710 | 0.697 | 0.657 | 0.764 | 0.694 | 5.79   |
| 15) T  | Acrylonitrile       | 0.284          | 0.261 | 0.285 | 0.281 | 0.257 | 0.279 | 0.274 | 4.50   |
| 16) T  | Acetone             | 0.262          | 0.228 | 0.256 | 0.243 | 0.187 | 0.238 | 0.235 | 11.41  |
| 17) T  | Carbon Disulfide    | 1.207          | 1.044 | 1.044 | 1.041 | 0.895 | 1.109 | 1.057 | 9.66   |
| 18) T  | Methyl Acetate      | 1.025          | 0.696 | 0.699 | 0.656 | 0.589 | 0.669 | 0.722 | 21.24  |
| 19) T  | Methyl tert-bu...   | 1.680          | 1.627 | 1.713 | 1.731 | 1.557 | 1.803 | 1.685 | 5.08   |
| 20) T  | Methylene Chlo...   | 0.756          | 0.554 | 0.549 | 0.508 | 0.464 | 0.524 | 0.559 | 18.24  |
| 21) T  | trans-1,2-Dich...   | 0.475          | 0.457 | 0.457 | 0.463 | 0.421 | 0.470 | 0.457 | 4.14   |
| 22) T  | Diisopropyl ether   | 1.464          | 1.551 | 1.570 | 1.558 | 1.419 | 1.606 | 1.528 | 4.64   |
| 23) T  | Vinyl Acetate       | 1.191          | 1.284 | 1.370 | 1.369 | 1.261 | 1.452 | 1.321 | 7.08   |
| 24) P  | 1,1-Dichloroet...   | 0.970          | 0.973 | 0.960 | 0.909 | 0.825 | 0.940 | 0.929 | 6.04   |
| 25) T  | 2-Butanone          | 0.411          | 0.505 | 0.379 | 0.372 | 0.328 | 0.383 | 0.396 | 15.06  |
| 26) T  | 2,2-Dichloropr...   | 0.902          | 0.836 | 0.891 | 0.899 | 0.743 | 0.903 | 0.862 | 7.40   |
| 27) T  | cis-1,2-Dichlo...   | 0.578          | 0.594 | 0.578 | 0.583 | 0.481 | 0.565 | 0.563 | 7.36   |
| 28) T  | Bromochloromet...   | 0.407          | 0.360 | 0.418 | 0.362 | 0.353 | 0.380 | 0.380 | 7.06   |
| 29) T  | Tetrahydrofuran     | 0.220          | 0.199 | 0.231 | 0.234 | 0.220 | 0.240 | 0.224 | 6.50   |
| 30) C  | Chloroform          | 1.166          | 1.093 | 1.099 | 1.058 | 0.916 | 1.049 | 1.064 | 7.84#  |
| 31) T  | Cyclohexane         |                | 1.008 | 0.913 | 0.840 | 0.736 | 0.821 | 0.863 | 11.87  |
| 32) T  | 1,1,1-Trichlor...   | 0.973          | 0.977 | 0.993 | 1.032 | 0.879 | 1.036 | 0.982 | 5.80   |
| 33) S  | 1,2-Dichloroet...   |                | 0.795 | 0.835 | 0.766 | 0.687 | 0.802 | 0.777 | 7.20   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   |                | 0.337 | 0.347 | 0.328 | 0.318 | 0.357 | 0.337 | 4.57   |
| 36) T  | 1,1-Dichloropr...   | 0.465          | 0.464 | 0.447 | 0.466 | 0.418 | 0.496 | 0.459 | 5.61   |
| 37) T  | Ethyl Acetate       | 0.594          | 0.461 | 0.526 | 0.506 | 0.417 | 0.524 | 0.505 | 12.02  |
| 38) T  | Carbon Tetrach...   | 0.606          | 0.552 | 0.583 | 0.590 | 0.486 | 0.593 | 0.568 | 7.78   |
| 39) T  | Methylcyclohexane   | 0.605          | 0.498 | 0.530 | 0.531 | 0.475 | 0.578 | 0.536 | 9.05   |
| 40) TM | Benzene             | 1.433          | 1.321 | 1.365 | 1.358 | 1.208 | 1.367 | 1.342 | 5.57   |
| 41) T  | Methacrylonitrile   | 0.268          | 0.254 | 0.246 | 0.246 | 0.235 | 0.263 | 0.252 | 4.83   |
| 42) TM | 1,2-Dichloroet...   | 0.688          | 0.618 | 0.639 | 0.643 | 0.522 | 0.626 | 0.623 | 8.83   |
| 43) T  | Isopropyl Acetate   | 0.821          | 0.794 | 0.804 | 0.826 | 0.746 | 0.879 | 0.812 | 5.35   |
| 44) TM | Trichloroethene     | 0.394          | 0.347 | 0.375 | 0.387 | 0.309 | 0.378 | 0.365 | 8.72   |
| 45) C  | 1,2-Dichloropr...   | 0.351          | 0.313 | 0.345 | 0.346 | 0.284 | 0.340 | 0.330 | 7.87#  |
| 46) T  | Dibromomethane      | 0.255          | 0.262 | 0.255 | 0.248 | 0.219 | 0.258 | 0.249 | 6.30   |
| 47) T  | Bromodichlorom...   | 0.478          | 0.516 | 0.529 | 0.546 | 0.477 | 0.572 | 0.520 | 7.25   |
| 48) T  | Methyl methacr...   | 0.381          | 0.369 | 0.359 | 0.390 | 0.352 | 0.469 | 0.386 | 11.04  |
| 49) T  | 1,4-Dioxane         |                | 0.003 | 0.003 | 0.004 | 0.003 | 0.004 | 0.003 | 17.10  |
| 50) S  | Toluene-d8          |                | 1.244 | 1.286 | 1.263 | 1.223 | 1.369 | 1.277 | 4.42   |
| 51) T  | 4-Methyl-2-Pen...   | 0.481          | 0.484 | 0.520 | 0.589 | 0.519 | 0.620 | 0.536 | 10.58  |
| 52) CM | Toluene             | 0.743          | 0.869 | 0.889 | 0.923 | 0.846 | 0.950 | 0.870 | 8.32#  |
| 53) T  | t-1,3-Dichloro...   | 0.529          | 0.527 | 0.531 | 0.571 | 0.539 | 0.652 | 0.558 | 8.73   |
| 54) T  | cis-1,3-Dichlo...   | 0.520          | 0.507 | 0.554 | 0.574 | 0.535 | 0.616 | 0.551 | 7.25   |
| 55) T  | 1,1,2-Trichlor...   | 0.367          | 0.385 | 0.380 | 0.383 | 0.358 | 0.396 | 0.378 | 3.53   |
| 56) T  | Ethyl methacry...   | 0.450          | 0.489 | 0.535 | 0.631 | 0.585 | 0.707 | 0.566 | 16.77  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.642          | 0.605 | 0.648 | 0.650 | 0.599 | 0.681 | 0.638 | 4.78  |
| 58) | T  | 2-Chloroethyl ...     | 0.129          | 0.118 | 0.141 | 0.127 | 0.147 | 0.168 | 0.138 | 12.94 |
| 59) | T  | 2-Hexanone            | 0.332          | 0.328 | 0.368 | 0.404 | 0.366 | 0.435 | 0.372 | 11.15 |
| 60) | T  | Dibromochlorom...     | 0.388          | 0.428 | 0.427 | 0.439 | 0.411 | 0.499 | 0.432 | 8.63  |
| 61) | T  | 1,2-Dibromoethane     | 0.345          | 0.395 | 0.382 | 0.421 | 0.377 | 0.433 | 0.392 | 8.11  |
| 62) | S  | 4-Bromofluorob...     | 0.442          | 0.442 | 0.483 | 0.473 | 0.586 | 0.485 |       | 12.21 |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.367          | 0.346 | 0.380 | 0.356 | 0.302 | 0.331 | 0.347 | 8.05  |
| 65) | PM | Chlorobenzene         | 1.037          | 1.036 | 1.028 | 1.055 | 0.944 | 1.049 | 1.025 | 3.98  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.443          | 0.417 | 0.405 | 0.408 | 0.372 | 0.423 | 0.411 | 5.73  |
| 67) | C  | Ethyl Benzene         | 1.697          | 1.601 | 1.816 | 1.897 | 1.698 | 1.933 | 1.773 | 7.30# |
| 68) | T  | m/p-Xylenes           | 0.615          | 0.650 | 0.679 | 0.740 | 0.667 | 0.746 | 0.683 | 7.54  |
| 69) | T  | o-Xylene              | 0.666          | 0.650 | 0.689 | 0.748 | 0.669 | 0.752 | 0.696 | 6.28  |
| 70) | T  | Styrene               | 0.858          | 0.981 | 1.061 | 1.173 | 1.097 | 1.254 | 1.071 | 13.07 |
| 71) | P  | Bromoform             | 0.288          | 0.309 | 0.339 | 0.328 | 0.286 | 0.349 | 0.317 | 8.26  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.663          | 4.082 | 4.214 | 4.549 | 3.988 | 4.307 | 4.134 | 7.29  |
| 74) | T  | N-amyl acetate        | 1.630          | 1.319 | 1.353 | 1.312 | 1.262 | 1.386 | 1.377 | 9.49  |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.424          | 1.379 | 1.307 | 1.244 | 1.029 | 1.130 | 1.252 | 12.04 |
| 76) | T  | 1,2,3-Trichlor...     | 1.444          | 1.376 | 1.166 | 1.668 | 1.470 | 1.552 | 1.446 | 11.76 |
| 77) | T  | Bromobenzene          | 1.281          | 1.079 | 1.009 | 1.072 | 0.916 | 0.995 | 1.059 | 11.70 |
| 78) | T  | n-propylbenzene       | 4.038          | 4.315 | 4.512 | 4.865 | 4.490 | 4.905 | 4.521 | 7.28  |
| 79) | T  | 2-Chlorotoluene       | 3.107          | 2.984 | 3.063 | 3.105 | 2.929 | 2.983 | 3.029 | 2.43  |
| 80) | T  | 1,3,5-Trimethy...     | 3.129          | 3.553 | 3.636 | 3.890 | 3.601 | 3.701 | 3.585 | 7.03  |
| 81) | T  | trans-1,4-Dich...     | 0.373          | 0.360 | 0.362 | 0.349 | 0.368 | 0.362 |       | 2.51  |
| 82) | T  | 4-Chlorotoluene       | 2.715          | 2.846 | 2.854 | 2.892 | 2.697 | 2.924 | 2.821 | 3.32  |
| 83) | T  | tert-Butylbenzene     | 2.562          | 3.043 | 3.205 | 3.376 | 2.854 | 3.230 | 3.045 | 9.74  |
| 84) | T  | 1,2,4-Trimethy...     | 2.958          | 3.358 | 3.652 | 3.855 | 3.221 | 3.589 | 3.439 | 9.44  |
| 85) | T  | sec-Butylbenzene      | 3.385          | 3.855 | 4.027 | 4.360 | 3.775 | 4.324 | 3.954 | 9.27  |
| 86) | T  | p-Isopropyltol...     | 2.661          | 3.045 | 3.395 | 3.634 | 3.187 | 3.589 | 3.252 | 11.31 |
| 87) | T  | 1,3-Dichlorobe...     | 1.745          | 1.804 | 1.802 | 1.794 | 1.556 | 1.705 | 1.734 | 5.51  |
| 88) | T  | 1,4-Dichlorobe...     | 1.802          | 1.704 | 1.697 | 1.686 | 1.544 | 1.689 | 1.687 | 4.91  |
| 89) | T  | n-Butylbenzene        | 2.261          | 2.197 | 2.369 | 2.684 | 2.513 | 2.747 | 2.462 | 9.13  |
| 90) | T  | Hexachloroethane      | 0.535          | 0.607 | 0.592 | 0.614 | 0.567 | 0.575 | 0.582 | 5.01  |
| 91) | T  | 1,2-Dichlorobe...     | 1.948          | 1.735 | 1.697 | 1.798 | 1.606 | 1.653 | 1.740 | 7.01  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.191          | 0.285 | 0.285 | 0.271 | 0.274 | 0.284 | 0.265 | 13.93 |
| 93) | T  | 1,2,4-Trichlor...     | 0.853          | 0.609 | 0.705 | 0.697 | 0.830 | 0.867 | 0.760 | 13.78 |
| 94) | T  | Hexachlorobuta...     | 0.520          | 0.546 | 0.493 | 0.419 | 0.461 | 0.424 | 0.477 | 10.77 |
| 95) | T  | Naphthalene           | 2.523          | 1.632 | 1.848 | 2.004 | 2.502 | 2.707 | 2.203 | 19.66 |
| 96) | T  | 1,2,3-Trichlor...     | 0.928          | 0.662 | 0.710 | 0.716 | 0.840 | 0.848 | 0.784 | 13.14 |

(#) = Out of Range