

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\  
 Method File : 82U092821W.M  
 Title : SW846 8260  
 Last Update : Tue Sep 28 12:27:55 2021  
 Response Via : Initial Calibration

## Calibration Files

1 =VU044929.D 5 =VU044930.D 20 =VU044931.D 50 =VU044932.D 100 =VU044933.D 150 =VU044934.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.578          | 0.618 | 0.613 | 0.662 | 0.624 | 0.621 | 0.619 | 4.32  |
| 3) P   | Chloromethane       | 0.985          | 0.822 | 0.731 | 0.788 | 0.745 | 0.742 | 0.802 | 11.96 |
| 4) C   | Vinyl Chloride      | 0.753          | 0.831 | 0.791 | 0.848 | 0.799 | 0.783 | 0.801 | 4.29# |
| 5) T   | Bromomethane        |                | 0.355 | 0.305 | 0.316 | 0.299 | 0.295 | 0.314 | 7.72  |
| 6) T   | Chloroethane        | 0.671          | 0.719 | 0.583 | 0.598 | 0.504 |       | 0.615 | 13.51 |
| 7) T   | Trichlorofluor...   | 0.998          | 1.115 | 1.018 | 1.115 | 1.046 | 1.052 | 1.058 | 4.60  |
| 8) T   | Diethyl Ether       | 0.473          | 0.495 | 0.461 | 0.506 | 0.489 | 0.483 | 0.485 | 3.30  |
| 9) T   | 1,1,2-Trichlor...   | 0.560          | 0.639 | 0.569 | 0.633 | 0.600 | 0.608 | 0.601 | 5.40  |
| 10) T  | Methyl Iodide       |                | 0.522 | 0.583 | 0.721 | 0.700 | 0.683 | 0.642 | 13.30 |
| 11) T  | Tert butyl alc...   |                | 0.240 | 0.219 | 0.249 | 0.251 | 0.236 | 0.239 | 5.31  |
| 12) CM | 1,1-Dichloroet...   | 0.533          | 0.600 | 0.568 | 0.630 | 0.610 | 0.617 | 0.593 | 6.11# |
| 13) T  | Acrolein            |                | 0.083 | 0.037 | 0.045 | 0.047 | 0.047 | 0.052 | 34.70 |
| 14) T  | Allyl chloride      | 1.091          | 1.145 | 1.039 | 1.163 | 1.079 | 1.066 | 1.097 | 4.36  |
| 15) T  | Acrylonitrile       | 0.438          | 0.497 | 0.460 | 0.508 | 0.498 | 0.490 | 0.482 | 5.56  |
| 16) T  | Acetone             | 0.528          | 0.511 | 0.491 | 0.516 | 0.476 | 0.443 | 0.494 | 6.33  |
| 17) T  | Carbon Disulfide    | 1.859          | 1.717 | 1.579 | 1.800 | 1.760 | 1.785 | 1.750 | 5.49  |
| 18) T  | Methyl Acetate      | 1.368          | 1.536 | 1.361 | 1.515 | 1.445 | 1.438 | 1.444 | 5.00  |
| 19) T  | Methyl tert-bu...   | 2.087          | 2.311 | 2.174 | 2.440 | 2.359 | 2.359 | 2.288 | 5.77  |
| 20) T  | Methylene Chlo...   | 0.783          | 0.766 | 0.703 | 0.759 | 0.725 | 0.729 | 0.744 | 4.01  |
| 21) T  | trans-1,2-Dich...   | 0.610          | 0.668 | 0.615 | 0.676 | 0.661 | 0.661 | 0.648 | 4.44  |
| 22) T  | Diisopropyl ether   | 2.057          | 2.307 | 2.134 | 2.380 | 2.277 | 2.284 | 2.240 | 5.36  |
| 23) T  | Vinyl Acetate       | 1.559          | 1.785 | 1.722 | 1.968 | 1.945 | 1.951 | 1.822 | 8.99  |
| 24) P  | 1,1-Dichloroet...   | 1.199          | 1.317 | 1.231 | 1.347 | 1.309 | 1.312 | 1.286 | 4.49  |
| 25) T  | 2-Butanone          | 0.619          | 0.726 | 0.685 | 0.755 | 0.731 | 0.695 | 0.702 | 6.80  |
| 26) T  | 2,2-Dichloropr...   | 1.045          | 1.098 | 1.016 | 1.150 | 1.105 | 1.110 | 1.087 | 4.45  |
| 27) T  | cis-1,2-Dichlo...   | 0.731          | 0.776 | 0.712 | 0.805 | 0.783 | 0.788 | 0.766 | 4.70  |
| 28) T  | Bromochloromet...   | 0.475          | 0.569 | 0.469 | 0.553 | 0.569 | 0.563 | 0.533 | 8.98  |
| 29) T  | Tetrahydrofuran     | 0.373          | 0.424 | 0.397 | 0.446 | 0.438 | 0.429 | 0.418 | 6.60  |
| 30) C  | Chloroform          | 1.285          | 1.300 | 1.221 | 1.367 | 1.304 | 1.298 | 1.296 | 3.61# |
| 31) T  | Cyclohexane         |                | 1.469 | 1.180 | 1.268 | 1.208 | 1.196 | 1.264 | 9.44  |
| 32) T  | 1,1,1-Trichlor...   | 0.964          | 1.105 | 1.007 | 1.132 | 1.097 | 1.111 | 1.069 | 6.30  |
| 33) S  | 1,2-Dichloroet...   |                | 0.858 | 0.759 | 0.793 | 0.872 | 0.879 | 0.832 | 6.41  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.322 | 0.279 | 0.307 | 0.333 | 0.336 | 0.315 | 7.40  |
| 36) T  | 1,1-Dichloropr...   | 0.485          | 0.532 | 0.491 | 0.558 | 0.533 | 0.539 | 0.523 | 5.50  |
| 37) T  | Ethyl Acetate       | 0.701          | 0.695 | 0.637 | 0.727 | 0.693 | 0.698 | 0.692 | 4.26  |
| 38) T  | Carbon Tetrach...   | 0.388          | 0.458 | 0.426 | 0.491 | 0.472 | 0.479 | 0.452 | 8.51  |
| 39) T  | Methylcyclohexane   | 0.588          | 0.629 | 0.607 | 0.693 | 0.666 | 0.668 | 0.642 | 6.24  |
| 40) TM | Benzene             | 1.520          | 1.587 | 1.475 | 1.652 | 1.554 | 1.556 | 1.557 | 3.85  |
| 41) T  | Methacrylonitrile   | 0.317          | 0.360 | 0.338 | 0.390 | 0.374 | 0.358 | 0.356 | 7.21  |
| 42) TM | 1,2-Dichloroet...   | 0.591          | 0.629 | 0.587 | 0.650 | 0.608 | 0.607 | 0.612 | 3.88  |
| 43) T  | Isopropyl Acetate   | 0.936          | 1.074 | 0.953 | 1.110 | 1.084 | 1.087 | 1.041 | 7.27  |
| 44) TM | Trichloroethene     | 0.356          | 0.380 | 0.341 | 0.387 | 0.369 | 0.370 | 0.367 | 4.57  |
| 45) C  | 1,2-Dichloropr...   | 0.399          | 0.422 | 0.384 | 0.436 | 0.415 | 0.420 | 0.413 | 4.47# |
| 46) T  | Dibromomethane      | 0.249          | 0.290 | 0.261 | 0.297 | 0.284 | 0.287 | 0.278 | 6.78  |
| 47) T  | Bromodichlorom...   | 0.483          | 0.525 | 0.496 | 0.582 | 0.570 | 0.584 | 0.540 | 8.26  |
| 48) T  | Methyl methacr...   | 0.458          | 0.491 | 0.465 | 0.542 | 0.540 | 0.544 | 0.507 | 7.96  |
| 49) T  | 1,4-Dioxane         | 0.006          | 0.014 | 0.013 | 0.014 | 0.013 | 0.012 | 0.012 | 24.40 |
| 50) S  | Toluene-d8          |                | 1.220 | 1.110 | 1.219 | 1.333 | 1.350 | 1.246 | 7.86  |
| 51) T  | 4-Methyl-2-Pen...   | 0.630          | 0.753 | 0.712 | 0.825 | 0.824 | 0.802 | 0.758 | 10.07 |
| 52) CM | Toluene             | 0.918          | 0.997 | 0.896 | 1.042 | 0.996 | 0.998 | 0.975 | 5.70# |
| 53) T  | t-1,3-Dichloro...   | 0.515          | 0.573 | 0.557 | 0.680 | 0.676 | 0.705 | 0.618 | 12.80 |
| 54) T  | cis-1,3-Dichlo...   | 0.554          | 0.602 | 0.597 | 0.699 | 0.695 | 0.713 | 0.643 | 10.45 |
| 55) T  | 1,1,2-Trichlor...   | 0.364          | 0.413 | 0.376 | 0.430 | 0.422 | 0.432 | 0.406 | 7.15  |
| 56) T  | Ethyl methacry...   | 0.520          | 0.679 | 0.649 | 0.785 | 0.798 | 0.813 | 0.707 | 16.07 |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.653          | 0.754 | 0.672 | 0.766 | 0.741 | 0.762 | 0.725 | 6.77  |
| 58) | T  | 2-Chloroethyl ...     | 0.110          | 0.187 | 0.167 | 0.234 | 0.255 | 0.275 | 0.205 | 30.13 |
| 59) | T  | 2-Hexanone            | 0.472          | 0.629 | 0.595 | 0.688 | 0.677 | 0.642 | 0.617 | 12.77 |
| 60) | T  | Dibromochlorom...     | 0.283          | 0.371 | 0.349 | 0.428 | 0.429 | 0.450 | 0.385 | 16.39 |
| 61) | T  | 1,2-Dibromoethane     | 0.374          | 0.431 | 0.400 | 0.466 | 0.455 | 0.464 | 0.432 | 8.68  |
| 62) | S  | 4-Bromofluorob...     | 0.474          | 0.430 | 0.504 | 0.579 | 0.587 | 0.515 |       | 13.14 |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.318          | 0.347 | 0.322 | 0.341 | 0.322 | 0.308 | 0.326 | 4.48  |
| 65) | PM | Chlorobenzene         | 0.974          | 1.092 | 0.986 | 1.103 | 1.070 | 1.064 | 1.048 | 5.23  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.304          | 0.373 | 0.349 | 0.394 | 0.388 | 0.389 | 0.366 | 9.46  |
| 67) | C  | Ethyl Benzene         | 1.745          | 1.922 | 1.827 | 2.088 | 1.997 | 1.995 | 1.929 | 6.50# |
| 68) | T  | m/p-Xylenes           | 0.697          | 0.751 | 0.710 | 0.805 | 0.768 | 0.765 | 0.749 | 5.35  |
| 69) | T  | o-Xylene              | 0.650          | 0.749 | 0.721 | 0.804 | 0.771 | 0.767 | 0.744 | 7.19  |
| 70) | T  | Styrene               | 0.996          | 1.186 | 1.186 | 1.386 | 1.372 | 1.360 | 1.248 | 12.32 |
| 71) | P  | Bromoform             | 0.212          | 0.295 | 0.290 | 0.353 | 0.368 | 0.351 | 0.311 | 18.79 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.550          | 3.744 | 3.575 | 3.861 | 3.671 | 3.940 | 3.723 | 4.18  |
| 74) | T  | N-amyl acetate        | 1.647          | 1.830 | 1.778 | 2.016 | 1.964 | 2.014 | 1.875 | 7.93  |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.482          | 1.742 | 1.561 | 1.688 | 1.603 | 1.590 | 1.611 | 5.74  |
| 76) | T  | 1,2,3-Trichlor...     | 1.345          | 1.531 | 1.446 | 1.562 | 1.344 | 1.522 | 1.458 | 6.58  |
| 77) | T  | Bromobenzene          | 0.878          | 0.945 | 0.841 | 0.927 | 0.879 | 0.925 | 0.899 | 4.37  |
| 78) | T  | n-propylbenzene       | 4.186          | 4.398 | 4.308 | 4.814 | 4.591 | 4.927 | 4.537 | 6.44  |
| 79) | T  | 2-Chlorotoluene       | 2.803          | 3.004 | 2.673 | 2.914 | 2.756 | 2.915 | 2.844 | 4.29  |
| 80) | T  | 1,3,5-Trimethy...     | 2.932          | 3.295 | 3.133 | 3.471 | 3.280 | 3.461 | 3.262 | 6.29  |
| 81) | T  | trans-1,4-Dich...     | 0.461          | 0.475 | 0.559 | 0.563 | 0.570 | 0.526 |       | 10.08 |
| 82) | T  | 4-Chlorotoluene       | 2.937          | 3.219 | 3.065 | 3.382 | 3.265 | 3.420 | 3.215 | 5.77  |
| 83) | T  | tert-Butylbenzene     | 2.806          | 3.264 | 3.029 | 3.347 | 3.202 | 3.388 | 3.173 | 6.93  |
| 84) | T  | 1,2,4-Trimethy...     | 2.742          | 3.194 | 3.139 | 3.492 | 3.325 | 3.470 | 3.227 | 8.58  |
| 85) | T  | sec-Butylbenzene      | 3.602          | 3.981 | 3.933 | 4.387 | 4.190 | 4.423 | 4.086 | 7.61  |
| 86) | T  | p-Isopropyltol...     | 2.728          | 3.148 | 3.155 | 3.606 | 3.482 | 3.600 | 3.287 | 10.42 |
| 87) | T  | 1,3-Dichlorobe...     | 1.721          | 1.704 | 1.613 | 1.808 | 1.726 | 1.760 | 1.722 | 3.76  |
| 88) | T  | 1,4-Dichlorobe...     | 1.832          | 1.802 | 1.629 | 1.814 | 1.733 | 1.758 | 1.761 | 4.22  |
| 89) | T  | n-Butylbenzene        | 2.564          | 2.715 | 2.770 | 3.331 | 3.314 | 3.469 | 3.027 | 12.78 |
| 90) | T  | Hexachloroethane      | 0.520          | 0.593 | 0.537 | 0.626 | 0.626 | 0.660 | 0.593 | 9.23  |
| 91) | T  | 1,2-Dichlorobe...     | 1.730          | 1.862 | 1.652 | 1.838 | 1.740 | 1.739 | 1.760 | 4.40  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.346          | 0.377 | 0.363 | 0.405 | 0.394 | 0.396 | 0.380 | 5.93  |
| 93) | T  | 1,2,4-Trichlor...     | 0.998          | 0.872 | 0.895 | 1.045 | 1.012 | 1.064 | 0.981 | 8.08  |
| 94) | T  | Hexachlorobuta...     | 0.394          | 0.408 | 0.402 | 0.429 | 0.406 | 0.419 | 0.409 | 3.07  |
| 95) | T  | Naphthalene           | 4.075          | 3.203 | 3.318 | 3.885 | 3.773 | 3.881 | 3.689 | 9.43  |
| 96) | T  | 1,2,3-Trichlor...     | 1.037          | 0.892 | 0.905 | 1.039 | 1.001 | 1.038 | 0.985 | 6.99  |

(#) = Out of Range