

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\  
 Method File : 82U050621W.M  
 Title : SW846 8260  
 Last Update : Thu May 13 08:11:56 2021  
 Response Via : Initial Calibration

## Calibration Files

1 =VU043564.D 5 =VU043565.D 20 =VU043566.D 50 =VU043567.D 100 =VU043568.D 150 =VU043569.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.451          | 0.642 | 0.665 | 0.677 | 0.709 | 0.707 | 0.642 | 15.08  |
| 3) P   | Chloromethane       | 1.253          | 0.973 | 0.834 | 0.835 | 0.860 | 0.870 | 0.937 | 17.37  |
| 4) C   | Vinyl Chloride      | 0.810          | 0.834 | 0.726 | 0.770 | 0.806 | 0.817 | 0.794 | 4.93#  |
| 5) T   | Bromomethane        |                | 0.523 | 0.438 | 0.441 | 0.403 | 0.429 | 0.447 | 10.05  |
| 6) T   | Chloroethane        | 0.655          | 0.509 | 0.440 | 0.485 | 0.488 | 0.478 | 0.509 | 14.77  |
| 7) T   | Trichlorofluor...   | 1.011          | 1.156 | 1.014 | 1.085 | 1.104 | 1.080 | 1.075 | 5.13   |
| 8) T   | Diethyl Ether       | 0.346          | 0.425 | 0.364 | 0.396 | 0.406 | 0.402 | 0.390 | 7.49   |
| 9) T   | 1,1,2-Trichlor...   | 0.544          | 0.638 | 0.569 | 0.597 | 0.618 | 0.608 | 0.596 | 5.76   |
| 10) T  | Methyl Iodide       |                | 0.640 | 0.645 | 0.757 | 0.821 | 0.791 | 0.731 | 11.47  |
| 11) T  | Tert butyl alc...   |                | 0.322 | 0.226 | 0.243 | 0.273 | 0.294 | 0.272 | 14.17  |
| 12) CM | 1,1-Dichloroet...   | 0.455          | 0.652 | 0.542 | 0.599 | 0.611 | 0.614 | 0.579 | 12.14# |
| 13) T  | Acrolein            |                | 0.182 | 0.102 | 0.113 | 0.121 | 0.122 | 0.128 | 24.41  |
| 14) T  | Allyl chloride      | 1.311          | 1.466 | 1.338 | 1.475 | 1.575 | 1.536 | 1.450 | 7.27   |
| 15) T  | Acrylonitrile       | 0.407          | 0.505 | 0.458 | 0.505 | 0.537 | 0.545 | 0.493 | 10.56  |
| 16) T  | Acetone             | 0.549          | 0.604 | 0.515 | 0.539 | 0.585 | 0.579 | 0.562 | 5.89   |
| 17) T  | Carbon Disulfide    | 1.782          | 1.920 | 1.699 | 1.813 | 1.885 | 1.914 | 1.836 | 4.73   |
| 18) T  | Methyl Acetate      | 1.024          | 1.390 | 1.205 | 1.303 | 1.399 | 1.386 | 1.284 | 11.51  |
| 19) T  | Methyl tert-bu...   | 1.656          | 1.937 | 1.850 | 2.109 | 2.202 | 2.190 | 1.991 | 10.85  |
| 20) T  | Methylene Chlo...   | 0.990          | 0.805 | 0.703 | 0.739 | 0.761 | 0.746 | 0.791 | 13.06  |
| 21) T  | trans-1,2-Dich...   | 0.491          | 0.662 | 0.589 | 0.667 | 0.691 | 0.676 | 0.629 | 12.17  |
| 22) T  | Diisopropyl ether   | 1.915          | 2.503 | 2.340 | 2.672 | 2.774 | 2.722 | 2.488 | 12.98  |
| 23) T  | Vinyl Acetate       | 1.905          | 2.439 | 2.358 | 2.742 | 2.948 | 2.932 | 2.554 | 15.72  |
| 24) P  | 1,1-Dichloroet...   | 1.372          | 1.485 | 1.340 | 1.454 | 1.497 | 1.481 | 1.438 | 4.59   |
| 25) T  | 2-Butanone          | 0.723          | 0.865 | 0.784 | 0.880 | 0.968 | 0.976 | 0.866 | 11.53  |
| 26) T  | 2,2-Dichloropr...   | 0.760          | 1.130 | 0.902 | 0.990 | 1.025 | 1.008 | 0.969 | 12.96  |
| 27) T  | cis-1,2-Dichlo...   | 0.545          | 0.766 | 0.701 | 0.769 | 0.792 | 0.784 | 0.726 | 13.02  |
| 28) T  | Bromochloromet...   | 0.701          | 0.732 | 0.676 | 0.707 | 0.752 | 0.762 | 0.722 | 4.53   |
| 29) T  | Tetrahydrofuran     | 0.377          | 0.483 | 0.458 | 0.512 | 0.564 | 0.558 | 0.492 | 14.16  |
| 30) C  | Chloroform          | 1.336          | 1.439 | 1.294 | 1.417 | 1.457 | 1.398 | 1.390 | 4.53#  |
| 31) T  | Cyclohexane         |                | 1.400 | 1.072 | 1.151 | 1.211 | 1.207 | 1.208 | 10.01  |
| 32) T  | 1,1,1-Trichlor...   | 1.106          | 1.219 | 1.122 | 1.208 | 1.241 | 1.214 | 1.185 | 4.77   |
| 33) S  | 1,2-Dichloroet...   | 1.144          | 1.111 | 0.928 | 0.950 | 1.021 | 1.050 | 1.034 | 8.30   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.482          | 0.432 | 0.373 | 0.374 | 0.407 | 0.407 | 0.413 | 9.88   |
| 36) T  | 1,1-Dichloropr...   | 0.453          | 0.577 | 0.533 | 0.597 | 0.637 | 0.608 | 0.568 | 11.65  |
| 37) T  | Ethyl Acetate       | 0.845          | 0.979 | 0.875 | 0.978 | 1.059 | 1.033 | 0.961 | 8.85   |
| 38) T  | Carbon Tetrach...   | 0.531          | 0.568 | 0.534 | 0.589 | 0.630 | 0.601 | 0.575 | 6.74   |
| 39) T  | Methylcyclohexane   | 0.442          | 0.545 | 0.490 | 0.564 | 0.630 | 0.619 | 0.548 | 13.35  |
| 40) TM | Benzene             | 1.483          | 1.795 | 1.593 | 1.757 | 1.819 | 1.763 | 1.702 | 7.84   |
| 41) T  | Methacrylonitrile   | 0.336          | 0.485 | 0.460 | 0.532 | 0.582 | 0.568 | 0.494 | 18.29  |
| 42) TM | 1,2-Dichloroet...   | 0.636          | 0.837 | 0.704 | 0.767 | 0.788 | 0.751 | 0.747 | 9.35   |
| 43) T  | Isopropyl Acetate   | 1.164          | 1.385 | 1.294 | 1.453 | 1.588 | 1.576 | 1.410 | 11.69  |
| 44) TM | Trichloroethene     | 0.316          | 0.414 | 0.375 | 0.419 | 0.446 | 0.428 | 0.400 | 11.79  |
| 45) C  | 1,2-Dichloropr...   | 0.474          | 0.526 | 0.457 | 0.505 | 0.533 | 0.513 | 0.501 | 5.98#  |
| 46) T  | Dibromomethane      | 0.244          | 0.330 | 0.300 | 0.337 | 0.351 | 0.333 | 0.316 | 12.31  |
| 47) T  | Bromodichlorom...   | 0.500          | 0.686 | 0.607 | 0.670 | 0.699 | 0.677 | 0.640 | 11.83  |
| 48) T  | Methyl methacr...   | 0.587          | 0.673 | 0.631 | 0.732 | 0.802 | 0.826 | 0.708 | 13.37  |
| 49) T  | 1,4-Dioxane         | 0.007          | 0.010 | 0.011 | 0.012 | 0.014 | 0.014 | 0.011 | 22.47  |
| 50) S  | Toluene-d8          | 1.262          | 1.440 | 1.282 | 1.349 | 1.493 | 1.504 | 1.389 | 7.62   |
| 51) T  | 4-Methyl-2-Pen...   | 0.725          | 0.950 | 0.891 | 1.031 | 1.165 | 1.250 | 1.002 | 18.98  |
| 52) CM | Toluene             | 0.767          | 0.990 | 0.935 | 1.049 | 1.100 | 1.060 | 0.984 | 12.27# |
| 53) T  | t-1,3-Dichloro...   | 0.496          | 0.644 | 0.619 | 0.700 | 0.748 | 0.766 | 0.662 | 15.02  |
| 54) T  | cis-1,3-Dichlo...   | 0.556          | 0.690 | 0.642 | 0.732 | 0.793 | 0.785 | 0.700 | 12.96  |
| 55) T  | 1,1,2-Trichlor...   | 0.362          | 0.447 | 0.397 | 0.440 | 0.460 | 0.467 | 0.429 | 9.57   |
| 56) T  | Ethyl methacry...   | 0.405          | 0.609 | 0.599 | 0.720 | 0.822 | 0.881 | 0.673 | 25.65  |

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|                |    |                       |       |       |       |       |       |       |       |        |
|----------------|----|-----------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| 57)            | T  | 1,3-Dichloropr...     | 0.649 | 0.759 | 0.703 | 0.785 | 0.841 | 0.839 | 0.763 | 9.99   |
| 58)            | T  | 2-Chloroethyl ...     | 0.130 | 0.183 | 0.171 | 0.223 | 0.256 | 0.273 | 0.206 | 26.46  |
| 59)            | T  | 2-Hexanone            | 0.545 | 0.739 | 0.699 | 0.828 | 0.962 | 1.021 | 0.799 | 22.03  |
| 60)            | T  | Dibromochlorom...     | 0.363 | 0.452 | 0.421 | 0.470 | 0.508 | 0.522 | 0.456 | 12.82  |
| 61)            | T  | 1,2-Dibromoethane     | 0.375 | 0.465 | 0.435 | 0.484 | 0.513 | 0.507 | 0.463 | 11.22  |
| 62)            | S  | 4-Bromofluorob...     | 0.557 | 0.499 | 0.445 | 0.497 | 0.575 | 0.674 | 0.541 | 14.78  |
| -----ISTD----- |    |                       |       |       |       |       |       |       |       |        |
| 63)            | I  | Chlorobenzene-d5      |       |       |       |       |       |       |       |        |
| 64)            | T  | Tetrachloroethene     | 0.314 | 0.401 | 0.382 | 0.409 | 0.420 | 0.391 | 0.386 | 9.81   |
| 65)            | PM | Chlorobenzene         | 0.949 | 1.161 | 1.023 | 1.139 | 1.181 | 1.166 | 1.103 | 8.59   |
| 66)            | T  | 1,1,1,2-Tetrac...     | 0.370 | 0.427 | 0.394 | 0.440 | 0.458 | 0.457 | 0.424 | 8.36   |
| 67)            | C  | Ethyl Benzene         | 1.446 | 1.935 | 1.850 | 2.167 | 2.293 | 2.235 | 1.988 | 15.94# |
| 68)            | T  | m/p-Xylenes           | 0.540 | 0.690 | 0.687 | 0.805 | 0.837 | 0.812 | 0.728 | 15.44  |
| 69)            | T  | o-Xylene              | 0.491 | 0.678 | 0.663 | 0.767 | 0.807 | 0.811 | 0.703 | 17.29  |
| 70)            | T  | Styrene               | 0.719 | 1.063 | 1.122 | 1.343 | 1.416 | 1.464 | 1.188 | 23.59  |
| 71)            | P  | Bromoform             | 0.266 | 0.381 | 0.357 | 0.397 | 0.444 | 0.474 | 0.387 | 18.87  |
| -----ISTD----- |    |                       |       |       |       |       |       |       |       |        |
| 72)            | I  | 1,4-Dichlorobenzen... |       |       |       |       |       |       |       |        |
| 73)            | T  | Isopropylbenzene      | 2.984 | 3.526 | 3.405 | 3.904 | 3.931 | 3.755 | 3.584 | 10.04  |
| 74)            | T  | N-amyl acetate        | 1.915 | 2.125 | 2.030 | 2.519 | 2.814 | 2.749 | 2.359 | 16.36  |
| 75)            | P  | 1,1,2,2-Tetrac...     | 1.671 | 1.851 | 1.479 | 1.700 | 1.759 | 1.684 | 1.691 | 7.27   |
| 76)            | T  | 1,2,3-Trichlor...     | 1.485 | 1.706 | 1.424 | 1.567 | 1.714 | 1.643 | 1.590 | 7.48   |
| 77)            | T  | Bromobenzene          | 0.771 | 0.980 | 0.879 | 0.970 | 0.975 | 0.960 | 0.923 | 9.00   |
| 78)            | T  | n-propylbenzene       | 3.299 | 4.222 | 4.185 | 4.867 | 4.922 | 4.797 | 4.382 | 14.20  |
| 79)            | T  | 2-Chlorotoluene       | 2.339 | 2.770 | 2.547 | 2.908 | 2.887 | 2.848 | 2.716 | 8.35   |
| 80)            | T  | 1,3,5-Trimethy...     | 2.078 | 2.860 | 2.981 | 3.450 | 3.476 | 3.378 | 3.037 | 17.63  |
| 81)            | T  | trans-1,4-Dich...     |       | 0.480 | 0.399 | 0.475 | 0.547 | 0.540 | 0.488 | 12.19  |
| 82)            | T  | 4-Chlorotoluene       | 2.246 | 3.087 | 3.017 | 3.405 | 3.461 | 3.408 | 3.104 | 14.79  |
| 83)            | T  | tert-Butylbenzene     | 2.340 | 2.967 | 2.782 | 3.213 | 3.299 | 3.278 | 2.980 | 12.51  |
| 84)            | T  | 1,2,4-Trimethy...     | 2.034 | 2.888 | 2.959 | 3.448 | 3.512 | 3.450 | 3.049 | 18.55  |
| 85)            | T  | sec-Butylbenzene      | 2.571 | 3.453 | 3.482 | 4.086 | 4.147 | 4.136 | 3.646 | 16.93  |
| 86)            | T  | p-Isopropyltol...     | 2.010 | 2.842 | 2.965 | 3.494 | 3.599 | 3.556 | 3.078 | 19.94  |
| 87)            | T  | 1,3-Dichlorobe...     | 1.610 | 1.822 | 1.617 | 1.797 | 1.830 | 1.796 | 1.745 | 5.90   |
| 88)            | T  | 1,4-Dichlorobe...     | 1.795 | 1.909 | 1.650 | 1.855 | 1.850 | 1.800 | 1.810 | 4.90   |
| 89)            | T  | n-Butylbenzene        | 2.135 | 2.651 | 2.666 | 3.315 | 3.568 | 3.571 | 2.984 | 19.70  |
| 90)            | T  | Hexachloroethane      | 0.476 | 0.500 | 0.451 | 0.504 | 0.537 | 0.541 | 0.501 | 6.94   |
| 91)            | T  | 1,2-Dichlorobe...     | 1.731 | 1.846 | 1.651 | 1.871 | 1.913 | 1.800 | 1.802 | 5.38   |
| 92)            | T  | 1,2-Dibromo-3-...     | 0.327 | 0.417 | 0.377 | 0.438 | 0.488 | 0.454 | 0.417 | 13.76  |
| 93)            | T  | 1,2,4-Trichlor...     | 1.202 | 1.008 | 1.024 | 1.249 | 1.320 | 1.226 | 1.171 | 10.81  |
| 94)            | T  | Hexachlorobuta...     | 0.440 | 0.600 | 0.510 | 0.600 | 0.616 | 0.580 | 0.558 | 12.28  |
| 95)            | T  | Naphthalene           | 3.188 | 2.864 | 3.205 | 4.219 | 4.630 | 4.206 | 3.719 | 19.37  |
| 96)            | T  | 1,2,3-Trichlor...     | 1.010 | 1.102 | 1.068 | 1.261 | 1.348 | 1.222 | 1.168 | 11.06  |

(#) = Out of Range