

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 82N051022W.M  
 Title : SW846 8260  
 Last Update : Tue May 10 15:43:28 2022  
 Response Via : Initial Calibration

## Calibration Files

1 =VN072388.D 5 =VN072389.D 10 =VN072390.D 20 =VN072391.D 50 =VN072392.D 100 =VN072393.D

|        | Compound            | 1              | 5     | 10    | 20    | 50    | 100   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.676          | 0.640 | 0.647 | 0.628 | 0.569 | 0.581 | 0.624 | 6.54  |
| 3) P   | Chloromethane       | 0.876          | 0.700 | 0.677 | 0.623 | 0.584 | 0.575 | 0.672 | 16.53 |
| 4) C   | Vinyl Chloride      | 0.543          | 0.552 | 0.562 | 0.535 | 0.495 | 0.499 | 0.531 | 5.20# |
| 5) T   | Bromomethane        |                | 0.356 | 0.351 | 0.313 | 0.279 | 0.281 | 0.316 | 11.51 |
| 6) T   | Chloroethane        | 0.492          | 0.338 | 0.346 | 0.295 | 0.272 | 0.275 | 0.336 | 24.45 |
| 7) T   | Trichlorofluor...   | 0.934          | 1.050 | 1.067 | 1.004 | 0.924 | 0.926 | 0.984 | 6.59  |
| 8) T   | Diethyl Ether       | 0.328          | 0.392 | 0.359 | 0.355 | 0.345 | 0.351 | 0.355 | 5.94  |
| 9) T   | 1,1,2-Trichlor...   | 0.549          | 0.574 | 0.570 | 0.540 | 0.496 | 0.494 | 0.537 | 6.49  |
| 10) T  | Methyl Iodide       |                | 0.715 | 0.700 | 0.734 | 0.696 | 0.714 | 0.712 | 2.08  |
| 11) T  | Tert butyl alc...   |                | 0.145 | 0.127 | 0.122 | 0.113 | 0.119 | 0.125 | 9.97  |
| 12) CM | 1,1-Dichloroet...   | 0.489          | 0.550 | 0.545 | 0.502 | 0.466 | 0.467 | 0.503 | 7.31# |
| 13) T  | Acrolein            |                | 0.144 | 0.114 | 0.118 | 0.117 | 0.118 | 0.123 | 10.05 |
| 14) T  | Allyl chloride      | 0.920          | 0.962 | 0.972 | 0.943 | 0.900 | 0.924 | 0.937 | 2.91  |
| 15) T  | Acrylonitrile       | 0.315          | 0.354 | 0.358 | 0.350 | 0.329 | 0.334 | 0.340 | 4.89  |
| 16) T  | Acetone             | 0.329          | 0.311 | 0.317 | 0.306 | 0.277 | 0.280 | 0.303 | 6.75  |
| 17) T  | Carbon Disulfide    | 1.309          | 1.364 | 1.376 | 1.295 | 1.228 | 1.257 | 1.305 | 4.46  |
| 18) T  | Methyl Acetate      | 0.921          | 0.893 | 0.962 | 0.897 | 0.837 | 0.848 | 0.893 | 5.19  |
| 19) T  | Methyl tert-bu...   | 1.737          | 1.788 | 1.881 | 1.858 | 1.811 | 1.835 | 1.818 | 2.85  |
| 20) T  | Methylene Chlo...   | 0.702          | 0.643 | 0.670 | 0.602 | 0.554 | 0.560 | 0.622 | 9.67  |
| 21) T  | trans-1,2-Dich...   | 0.505          | 0.542 | 0.583 | 0.533 | 0.498 | 0.498 | 0.526 | 6.28  |
| 22) T  | Diisopropyl ether   | 1.870          | 1.891 | 2.051 | 1.958 | 1.803 | 1.849 | 1.904 | 4.64  |
| 23) T  | Vinyl Acetate       | 1.431          | 1.586 | 1.689 | 1.650 | 1.581 | 1.619 | 1.593 | 5.60  |
| 24) P  | 1,1-Dichloroet...   | 1.069          | 1.127 | 1.141 | 1.072 | 1.014 | 1.022 | 1.074 | 4.86  |
| 25) T  | 2-Butanone          | 0.526          | 0.487 | 0.479 | 0.473 | 0.452 | 0.455 | 0.479 | 5.65  |
| 26) T  | 2,2-Dichloropr...   | 0.950          | 0.944 | 0.938 | 0.889 | 0.842 | 0.853 | 0.903 | 5.33  |
| 27) T  | cis-1,2-Dichlo...   | 0.637          | 0.654 | 0.667 | 0.639 | 0.598 | 0.603 | 0.633 | 4.34  |
| 28) T  | Bromochloromet...   | 0.448          | 0.474 | 0.491 | 0.422 | 0.425 | 0.476 | 0.456 | 6.26  |
| 29) T  | Tetrahydrofuran     | 0.292          | 0.318 | 0.326 | 0.326 | 0.304 | 0.301 | 0.311 | 4.51  |
| 30) C  | Chloroform          | 1.036          | 1.174 | 1.162 | 1.121 | 1.032 | 1.033 | 1.093 | 6.15# |
| 31) T  | Cyclohexane         |                | 1.189 | 1.078 | 0.980 | 0.911 | 0.915 | 1.015 | 11.67 |
| 32) T  | 1,1,1-Trichlor...   | 0.990          | 1.018 | 1.074 | 1.013 | 0.952 | 0.967 | 1.002 | 4.34  |
| 33) S  | 1,2-Dichloroet...   |                | 0.805 | 0.860 | 0.730 | 0.672 | 0.762 | 0.766 | 9.37  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.355 | 0.352 | 0.315 | 0.310 | 0.331 | 0.333 | 6.17  |
| 36) T  | 1,1-Dichloropr...   | 0.485          | 0.458 | 0.510 | 0.476 | 0.475 | 0.463 | 0.478 | 3.88  |
| 37) T  | Ethyl Acetate       | 0.494          | 0.612 | 0.622 | 0.601 | 0.560 | 0.550 | 0.573 | 8.43  |
| 38) T  | Carbon Tetrach...   | 0.529          | 0.550 | 0.562 | 0.535 | 0.522 | 0.510 | 0.535 | 3.50  |
| 39) T  | Methylcyclohexane   | 0.470          | 0.522 | 0.549 | 0.560 | 0.560 | 0.561 | 0.537 | 6.75  |
| 40) TM | Benzene             | 1.345          | 1.510 | 1.527 | 1.440 | 1.389 | 1.352 | 1.427 | 5.49  |
| 41) T  | Methacrylonitrile   | 0.244          | 0.321 | 0.253 | 0.300 | 0.272 | 0.314 | 0.284 | 11.34 |
| 42) TM | 1,2-Dichloroet...   | 0.567          | 0.625 | 0.600 | 0.580 | 0.546 | 0.523 | 0.574 | 6.40  |
| 43) T  | Isopropyl Acetate   | 0.828          | 0.876 | 0.939 | 0.903 | 0.868 | 0.870 | 0.880 | 4.24  |
| 44) TM | Trichloroethene     | 0.349          | 0.394 | 0.372 | 0.365 | 0.348 | 0.345 | 0.362 | 5.21  |
| 45) C  | 1,2-Dichloropr...   | 0.312          | 0.386 | 0.391 | 0.378 | 0.366 | 0.353 | 0.364 | 7.97# |
| 46) T  | Dibromomethane      | 0.240          | 0.264 | 0.274 | 0.259 | 0.249 | 0.237 | 0.254 | 5.64  |
| 47) T  | Bromodichlorom...   | 0.474          | 0.518 | 0.551 | 0.537 | 0.513 | 0.512 | 0.517 | 5.06  |
| 48) T  | Methyl methacr...   | 0.366          | 0.387 | 0.402 | 0.446 | 0.431 | 0.432 | 0.411 | 7.49  |
| 49) T  | 1,4-Dioxane         | 0.006          | 0.007 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 8.39  |
| 50) S  | Toluene-d8          |                | 1.245 | 1.378 | 1.209 | 1.208 | 1.294 | 1.267 | 5.62  |
| 51) T  | 4-Methyl-2-Pen...   | 0.439          | 0.562 | 0.575 | 0.585 | 0.565 | 0.554 | 0.547 | 9.87  |
| 52) CM | Toluene             | 0.763          | 0.912 | 0.925 | 0.913 | 0.896 | 0.873 | 0.880 | 6.83# |
| 53) T  | t-1,3-Dichloro...   | 0.459          | 0.520 | 0.541 | 0.531 | 0.552 | 0.556 | 0.527 | 6.74  |
| 54) T  | cis-1,3-Dichlo...   | 0.466          | 0.559 | 0.588 | 0.587 | 0.587 | 0.585 | 0.562 | 8.62  |
| 55) T  | 1,1,2-Trichlor...   | 0.351          | 0.378 | 0.392 | 0.380 | 0.354 | 0.345 | 0.367 | 5.22  |
| 56) T  | Ethyl methacry...   | 0.396          | 0.498 | 0.546 | 0.556 | 0.578 | 0.580 | 0.525 | 13.37 |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.580          | 0.639 | 0.652 | 0.644 | 0.622 | 0.609 | 0.624 | 4.26  |
| 58) | T  | 2-Chloroethyl ...     | 0.061          | 0.089 | 0.094 | 0.114 | 0.127 | 0.152 | 0.106 | 30.06 |
| 59) | T  | 2-Hexanone            | 0.311          | 0.372 | 0.395 | 0.413 | 0.408 | 0.402 | 0.383 | 10.04 |
| 60) | T  | Dibromochlorom...     | 0.341          | 0.402 | 0.403 | 0.395 | 0.397 | 0.399 | 0.389 | 6.12  |
| 61) | T  | 1,2-Dibromoethane     | 0.322          | 0.383 | 0.373 | 0.375 | 0.369 | 0.370 | 0.365 | 5.98  |
| 62) | S  | 4-Bromofluorob...     | 0.386          | 0.433 | 0.406 | 0.412 | 0.465 | 0.421 |       | 7.17  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.378          | 0.386 | 0.370 | 0.367 | 0.331 | 0.328 | 0.360 | 6.76  |
| 65) | PM | Chlorobenzene         | 1.009          | 1.043 | 1.083 | 1.035 | 0.982 | 0.977 | 1.022 | 3.93  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.432          | 0.410 | 0.445 | 0.394 | 0.384 | 0.388 | 0.409 | 6.12  |
| 67) | C  | Ethyl Benzene         | 1.512          | 1.725 | 1.874 | 1.835 | 1.791 | 1.838 | 1.763 | 7.55# |
| 68) | T  | m/p-Xylenes           | 0.555          | 0.644 | 0.709 | 0.711 | 0.689 | 0.703 | 0.668 | 9.11  |
| 69) | T  | o-Xylene              | 0.523          | 0.616 | 0.718 | 0.702 | 0.684 | 0.697 | 0.657 | 11.33 |
| 70) | T  | Styrene               | 0.762          | 0.919 | 1.047 | 1.081 | 1.085 | 1.134 | 1.005 | 13.85 |
| 71) | P  | Bromoform             | 0.276          | 0.304 | 0.316 | 0.300 | 0.304 | 0.310 | 0.302 | 4.53  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.675          | 4.187 | 4.541 | 4.303 | 4.126 | 4.021 | 4.142 | 7.00  |
| 74) | T  | N-amyl acetate        | 1.385          | 1.407 | 1.540 | 1.505 | 1.455 | 1.492 | 1.464 | 4.08  |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.811          | 1.649 | 1.604 | 1.427 | 1.304 | 1.227 | 1.504 | 14.82 |
| 76) | T  | 1,2,3-Trichlor...     | 1.333          | 1.497 | 1.399 | 1.282 | 1.184 | 1.130 | 1.304 | 10.42 |
| 77) | T  | Bromobenzene          | 1.008          | 1.045 | 1.041 | 0.990 | 0.949 | 0.914 | 0.991 | 5.24  |
| 78) | T  | n-propylbenzene       | 3.977          | 4.235 | 4.608 | 4.649 | 4.572 | 4.554 | 4.432 | 6.04  |
| 79) | T  | 2-Chlorotoluene       | 2.708          | 3.046 | 3.168 | 2.941 | 2.846 | 2.763 | 2.912 | 5.99  |
| 80) | T  | 1,3,5-Trimethy...     | 2.739          | 3.462 | 3.752 | 3.537 | 3.513 | 3.352 | 3.392 | 10.20 |
| 81) | T  | trans-1,4-Dich...     | 0.385          | 0.410 | 0.373 | 0.394 | 0.393 | 0.391 |       | 3.47  |
| 82) | T  | 4-Chlorotoluene       | 2.659          | 2.808 | 2.907 | 2.759 | 2.702 | 2.722 | 2.759 | 3.20  |
| 83) | T  | tert-Butylbenzene     | 2.420          | 3.014 | 3.203 | 3.156 | 3.054 | 2.973 | 2.970 | 9.52  |
| 84) | T  | 1,2,4-Trimethy...     | 2.764          | 3.287 | 3.598 | 3.474 | 3.384 | 3.294 | 3.300 | 8.72  |
| 85) | T  | sec-Butylbenzene      | 3.313          | 3.925 | 4.203 | 4.129 | 4.124 | 4.071 | 3.961 | 8.35  |
| 86) | T  | p-Isopropyltol...     | 2.266          | 2.990 | 3.310 | 3.285 | 3.353 | 3.307 | 3.085 | 13.69 |
| 87) | T  | 1,3-Dichlorobe...     | 1.675          | 1.796 | 1.803 | 1.686 | 1.657 | 1.638 | 1.709 | 4.19  |
| 88) | T  | 1,4-Dichlorobe...     | 1.847          | 1.750 | 1.741 | 1.648 | 1.603 | 1.613 | 1.700 | 5.61  |
| 89) | T  | n-Butylbenzene        | 2.001          | 2.193 | 2.350 | 2.395 | 2.555 | 2.656 | 2.358 | 10.10 |
| 90) | T  | Hexachloroethane      | 0.649          | 0.621 | 0.630 | 0.604 | 0.603 | 0.592 | 0.617 | 3.41  |
| 91) | T  | 1,2-Dichlorobe...     | 1.805          | 1.676 | 1.784 | 1.738 | 1.655 | 1.584 | 1.707 | 4.91  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.195          | 0.270 | 0.300 | 0.267 | 0.270 | 0.268 | 0.261 | 13.31 |
| 93) | T  | 1,2,4-Trichlor...     | 0.593          | 0.504 | 0.620 | 0.664 | 0.727 | 0.772 | 0.647 | 14.89 |
| 94) | T  | Hexachlorobuta...     | 0.474          | 0.454 | 0.457 | 0.408 | 0.410 | 0.364 | 0.428 | 9.61  |
| 95) | T  | Naphthalene           | 1.700          | 1.304 | 1.588 | 1.858 | 2.271 | 2.512 | 1.872 | 23.91 |
| 96) | T  | 1,2,3-Trichlor...     | 0.599          | 0.559 | 0.579 | 0.661 | 0.735 | 0.755 | 0.648 | 12.81 |

(#) = Out of Range