

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y063023S.M  
 Title : SW846 8260  
 Last Update : Fri Jun 30 19:02:11 2023  
 Response Via : Initial Calibration

## Calibration Files

5 =VY014511.D 10 =VY014512.D 20 =VY014513.D 50 =VY014514.D 100 =VY014515.D 150 =VY014516.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.447          | 0.481 | 0.463 | 0.358 | 0.346 | 0.333 | 0.405 | 16.32 |
| 3) P   | Chloromethane       | 0.607          | 0.676 | 0.626 | 0.550 | 0.515 | 0.499 | 0.579 | 11.86 |
| 4) C   | Vinyl Chloride      | 0.685          | 0.756 | 0.712 | 0.639 | 0.614 | 0.598 | 0.667 | 9.15# |
| 5) T   | Bromomethane        | 0.595          | 0.591 | 0.544 | 0.473 | 0.454 | 0.448 | 0.518 | 13.07 |
| 6) T   | Chloroethane        | 0.441          | 0.465 | 0.454 | 0.419 | 0.403 | 0.397 | 0.430 | 6.53  |
| 7) T   | Trichlorofluor...   | 0.844          | 0.895 | 0.851 | 0.778 | 0.757 | 0.739 | 0.811 | 7.56  |
| 8) T   | Diethyl Ether       | 0.318          | 0.320 | 0.309 | 0.307 | 0.293 | 0.295 | 0.307 | 3.69  |
| 9) T   | 1,1,2-Trichlor...   | 0.524          | 0.527 | 0.499 | 0.463 | 0.449 | 0.442 | 0.484 | 7.77  |
| 10) T  | Methyl Iodide       | 0.458          | 0.521 | 0.542 | 0.587 | 0.602 | 0.605 | 0.552 | 10.33 |
| 11) T  | Tert butyl alc...   | 0.144          | 0.102 | 0.107 | 0.085 | 0.082 | 0.082 | 0.100 | 23.81 |
| 12) CM | 1,1-Dichloroet...   | 0.468          | 0.502 | 0.480 | 0.466 | 0.451 | 0.448 | 0.469 | 4.23# |
| 13) T  | Acrolein            | 0.032          | 0.075 | 0.073 | 0.066 | 0.065 | 0.066 | 0.063 | 25.18 |
| 14) T  | Allyl chloride      | 0.693          | 0.725 | 0.718 | 0.714 | 0.697 | 0.695 | 0.707 | 1.96  |
| 15) T  | Acrylonitrile       | 0.167          | 0.177 | 0.170 | 0.184 | 0.180 | 0.180 | 0.176 | 3.70  |
| 16) T  | Acetone             | 0.180          | 0.159 | 0.145 | 0.157 | 0.148 | 0.142 | 0.155 | 8.91  |
| 17) T  | Carbon Disulfide    | 1.318          | 1.593 | 1.531 | 1.419 | 1.364 | 1.350 | 1.429 | 7.68  |
| 18) T  | Methyl Acetate      | 0.779          | 0.695 | 0.673 | 0.704 | 0.700 | 0.691 | 0.707 | 5.19  |
| 19) T  | Methyl tert-bu...   | 1.270          | 1.340 | 1.322 | 1.398 | 1.375 | 1.381 | 1.348 | 3.49  |
| 20) T  | Methylene Chlo...   | 0.976          | 0.774 | 0.658 | 0.577 | 0.532 | 0.520 | 0.673 | 26.14 |
| 21) T  | trans-1,2-Dich...   | 0.516          | 0.573 | 0.544 | 0.533 | 0.513 | 0.506 | 0.531 | 4.72  |
| 22) T  | Diisopropyl ether   | 1.328          | 1.512 | 1.516 | 1.529 | 1.441 | 1.414 | 1.457 | 5.36  |
| 23) T  | Vinyl Acetate       | 0.684          | 0.846 | 0.842 | 0.918 | 0.884 | 0.882 | 0.843 | 9.80  |
| 24) P  | 1,1-Dichloroet...   | 0.943          | 0.973 | 0.926 | 0.912 | 0.871 | 0.861 | 0.914 | 4.67  |
| 25) T  | 2-Butanone          | 0.221          | 0.232 | 0.216 | 0.243 | 0.233 | 0.234 | 0.230 | 4.33  |
| 26) T  | 2,2-Dichloropr...   | 0.867          | 0.835 | 0.791 | 0.757 | 0.719 | 0.708 | 0.779 | 8.16  |
| 27) T  | cis-1,2-Dichlo...   | 0.590          | 0.630 | 0.599 | 0.614 | 0.589 | 0.591 | 0.602 | 2.78  |
| 28) T  | Bromochloromet...   | 0.364          | 0.431 | 0.419 | 0.386 | 0.358 | 0.346 | 0.384 | 8.95  |
| 29) T  | Tetrahydrofuran     | 0.128          | 0.149 | 0.142 | 0.161 | 0.155 | 0.156 | 0.148 | 8.05  |
| 30) C  | Chloroform          | 1.008          | 1.009 | 0.975 | 0.948 | 0.898 | 0.886 | 0.954 | 5.57# |
| 31) T  | Cyclohexane         | 0.844          | 0.841 | 0.795 | 0.752 | 0.724 | 0.726 | 0.780 | 7.00  |
| 32) T  | 1,1,1-Trichlor...   | 0.853          | 0.869 | 0.822 | 0.806 | 0.775 | 0.766 | 0.815 | 5.04  |
| 33) S  | 1,2-Dichloroet...   | 0.510          | 0.533 | 0.505 | 0.501 | 0.471 | 0.465 | 0.497 | 5.10  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   | 0.298          | 0.317 | 0.305 | 0.314 | 0.306 | 0.308 | 0.308 | 2.22  |
| 36) T  | 1,1-Dichloropr...   | 0.464          | 0.493 | 0.479 | 0.472 | 0.458 | 0.463 | 0.472 | 2.75  |
| 37) T  | Ethyl Acetate       | 0.285          | 0.333 | 0.313 | 0.337 | 0.336 | 0.337 | 0.323 | 6.52  |
| 38) T  | Carbon Tetrach...   | 0.506          | 0.517 | 0.495 | 0.485 | 0.477 | 0.474 | 0.492 | 3.41  |
| 39) T  | Methylcyclohexane   | 0.522          | 0.570 | 0.563 | 0.571 | 0.574 | 0.582 | 0.564 | 3.78  |
| 40) TM | Benzene             | 1.436          | 1.494 | 1.447 | 1.429 | 1.379 | 1.379 | 1.427 | 3.06  |
| 41) T  | Methacrylonitrile   | 0.163          | 0.145 | 0.141 | 0.163 | 0.165 | 0.172 | 0.158 | 7.85  |
| 42) TM | 1,2-Dichloroet...   | 0.426          | 0.445 | 0.422 | 0.422 | 0.403 | 0.399 | 0.420 | 3.98  |
| 43) T  | Isopropyl Acetate   | 0.511          | 0.535 | 0.528 | 0.572 | 0.566 | 0.575 | 0.548 | 4.90  |
| 44) TM | Trichloroethene     | 0.406          | 0.415 | 0.402 | 0.395 | 0.384 | 0.385 | 0.398 | 3.09  |
| 45) C  | 1,2-Dichloropr...   | 0.373          | 0.387 | 0.366 | 0.367 | 0.351 | 0.353 | 0.366 | 3.63# |
| 46) T  | Dibromomethane      | 0.220          | 0.235 | 0.221 | 0.225 | 0.218 | 0.219 | 0.223 | 2.77  |
| 47) T  | Bromodichlorom...   | 0.499          | 0.513 | 0.490 | 0.493 | 0.477 | 0.474 | 0.491 | 2.95  |
| 48) T  | Methyl methacr...   | 0.209          | 0.247 | 0.247 | 0.264 | 0.262 | 0.266 | 0.249 | 8.59  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 12.90 |
| 50) S  | Toluene-d8          | 1.263          | 1.251 | 1.225 | 1.220 | 1.170 | 1.174 | 1.217 | 3.16  |
| 51) T  | 4-Methyl-2-Pen...   | 0.288          | 0.322 | 0.314 | 0.346 | 0.338 | 0.339 | 0.324 | 6.57  |
| 52) CM | Toluene             | 0.878          | 0.921 | 0.910 | 0.910 | 0.884 | 0.885 | 0.898 | 2.00# |
| 53) T  | t-1,3-Dichloro...   | 0.499          | 0.532 | 0.514 | 0.541 | 0.531 | 0.535 | 0.525 | 3.03  |
| 54) T  | cis-1,3-Dichlo...   | 0.563          | 0.606 | 0.589 | 0.597 | 0.579 | 0.582 | 0.586 | 2.53  |
| 55) T  | 1,1,2-Trichlor...   | 0.326          | 0.336 | 0.318 | 0.333 | 0.315 | 0.318 | 0.324 | 2.61  |
| 56) T  | Ethyl methacry...   | 0.371          | 0.426 | 0.427 | 0.469 | 0.474 | 0.479 | 0.441 | 9.41  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.519          | 0.552 | 0.525 | 0.532 | 0.523 | 0.520 | 0.529 | 2.38  |
| 58) | T  | 2-Chloroethyl ...     | 0.155          | 0.214 | 0.220 | 0.233 | 0.232 | 0.229 | 0.214 | 13.94 |
| 59) | T  | 2-Hexanone            | 0.197          | 0.230 | 0.223 | 0.254 | 0.250 | 0.252 | 0.234 | 9.50  |
| 60) | T  | Dibromochlorom...     | 0.369          | 0.390 | 0.377 | 0.386 | 0.379 | 0.379 | 0.380 | 1.94  |
| 61) | T  | 1,2-Dibromoethane     | 0.301          | 0.322 | 0.315 | 0.325 | 0.318 | 0.319 | 0.317 | 2.62  |
| 62) | S  | 4-Bromofluorob...     | 0.422          | 0.433 | 0.423 | 0.429 | 0.414 | 0.416 | 0.423 | 1.77  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.473          | 0.485 | 0.460 | 0.441 | 0.414 | 0.408 | 0.447 | 7.06  |
| 65) | PM | Chlorobenzene         | 1.095          | 1.099 | 1.058 | 1.064 | 1.037 | 1.040 | 1.066 | 2.51  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.406          | 0.421 | 0.398 | 0.406 | 0.399 | 0.401 | 0.405 | 2.11  |
| 67) | C  | Ethyl Benzene         | 1.748          | 1.840 | 1.785 | 1.849 | 1.837 | 1.843 | 1.817 | 2.26# |
| 68) | T  | m/p-Xylenes           | 0.685          | 0.728 | 0.718 | 0.740 | 0.726 | 0.728 | 0.721 | 2.62  |
| 69) | T  | o-Xylene              | 0.637          | 0.682 | 0.672 | 0.706 | 0.701 | 0.704 | 0.684 | 3.90  |
| 70) | T  | Styrene               | 1.071          | 1.164 | 1.168 | 1.231 | 1.214 | 1.209 | 1.176 | 4.92  |
| 71) | P  | Bromoform             | 0.295          | 0.311 | 0.298 | 0.314 | 0.314 | 0.315 | 0.308 | 2.93  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.112          | 3.228 | 3.271 | 3.344 | 3.315 | 3.379 | 3.275 | 2.93  |
| 74) | T  | N-amyl acetate        | 0.861          | 0.970 | 0.945 | 1.045 | 1.033 | 1.077 | 0.988 | 8.04  |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.843          | 0.831 | 0.808 | 0.859 | 0.839 | 0.863 | 0.840 | 2.38  |
| 76) | T  | 1,2,3-Trichlor...     | 0.599          | 0.600 | 0.559 | 0.592 | 0.586 | 0.584 | 0.587 | 2.55  |
| 77) | T  | Bromobenzene          | 0.877          | 0.899 | 0.887 | 0.904 | 0.894 | 0.905 | 0.894 | 1.23  |
| 78) | T  | n-propylbenzene       | 3.845          | 3.984 | 4.017 | 4.084 | 4.004 | 4.033 | 3.995 | 2.01  |
| 79) | T  | 2-Chlorotoluene       | 2.245          | 2.322 | 2.317 | 2.325 | 2.272 | 2.311 | 2.299 | 1.43  |
| 80) | T  | 1,3,5-Trimethy...     | 2.601          | 2.766 | 2.792 | 2.843 | 2.800 | 2.832 | 2.772 | 3.19  |
| 81) | T  | trans-1,4-Dich...     | 0.284          | 0.295 | 0.287 | 0.307 | 0.314 | 0.322 | 0.301 | 5.01  |
| 82) | T  | 4-Chlorotoluene       | 2.345          | 2.490 | 2.432 | 2.425 | 2.370 | 2.389 | 2.408 | 2.15  |
| 83) | T  | tert-Butylbenzene     | 2.291          | 2.406 | 2.406 | 2.495 | 2.486 | 2.535 | 2.436 | 3.60  |
| 84) | T  | 1,2,4-Trimethy...     | 2.550          | 2.778 | 2.765 | 2.858 | 2.802 | 2.845 | 2.766 | 4.06  |
| 85) | T  | sec-Butylbenzene      | 3.477          | 3.642 | 3.590 | 3.637 | 3.625 | 3.601 | 3.595 | 1.71  |
| 86) | T  | p-Isopropyltol...     | 2.840          | 3.021 | 2.985 | 3.093 | 3.090 | 3.123 | 3.026 | 3.44  |
| 87) | T  | 1,3-Dichlorobe...     | 1.782          | 1.782 | 1.742 | 1.739 | 1.713 | 1.735 | 1.749 | 1.58  |
| 88) | T  | 1,4-Dichlorobe...     | 1.839          | 1.823 | 1.722 | 1.724 | 1.698 | 1.710 | 1.753 | 3.51  |
| 89) | T  | n-Butylbenzene        | 2.728          | 2.769 | 2.782 | 2.824 | 2.837 | 2.837 | 2.796 | 1.57  |
| 90) | T  | Hexachloroethane      | 0.632          | 0.634 | 0.584 | 0.587 | 0.580 | 0.579 | 0.599 | 4.39  |
| 91) | T  | 1,2-Dichlorobe...     | 1.592          | 1.643 | 1.574 | 1.577 | 1.557 | 1.561 | 1.584 | 1.98  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.156          | 0.154 | 0.139 | 0.156 | 0.157 | 0.162 | 0.154 | 4.97  |
| 93) | T  | 1,2,4-Trichlor...     | 0.975          | 1.000 | 0.952 | 1.040 | 1.074 | 1.098 | 1.023 | 5.60  |
| 94) | T  | Hexachlorobuta...     | 0.649          | 0.657 | 0.599 | 0.616 | 0.628 | 0.622 | 0.629 | 3.39  |
| 95) | T  | Naphthalene           | 1.823          | 1.987 | 1.924 | 2.282 | 2.470 | 2.575 | 2.177 | 14.24 |
| 96) | T  | 1,2,3-Trichlor...     | 0.872          | 0.914 | 0.863 | 0.952 | 0.985 | 1.007 | 0.932 | 6.32  |

(#) = Out of Range