

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D061121S.M  
 Title : SW846 8260  
 Last Update : Fri Jun 11 12:42:12 2021  
 Response Via : Initial Calibration

## Calibration Files

10 =VD069411.D 5 =VD069410.D 20 =VD069412.D 50 =VD069413.D 100 =VD069414.D 150 =VD069415.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.495          | 0.607 | 0.473 | 0.489 | 0.469 | 0.457 | 0.498 | 11.06  |
| 3) P   | Chloromethane       | 0.486          | 0.631 | 0.477 | 0.495 | 0.465 | 0.435 | 0.498 | 13.68  |
| 4) C   | Vinyl Chloride      | 0.603          | 0.720 | 0.566 | 0.603 | 0.570 | 0.554 | 0.603 | 10.12# |
| 5) T   | Bromomethane        | 0.490          | 0.641 | 0.453 | 0.456 | 0.457 | 0.447 | 0.491 | 15.35  |
| 6) T   | Chloroethane        | 0.415          | 0.485 | 0.405 | 0.413 | 0.391 | 0.379 | 0.415 | 8.88   |
| 7) T   | Trichlorofluor...   | 0.968          | 1.180 | 0.966 | 0.947 | 0.948 | 0.906 | 0.986 | 9.94   |
| 8) T   | Diethyl Ether       | 0.222          | 0.241 | 0.231 | 0.259 | 0.267 | 0.265 | 0.247 | 7.67   |
| 9) T   | 1,1,2-Trichlor...   | 0.575          | 0.691 | 0.589 | 0.568 | 0.553 | 0.541 | 0.586 | 9.21   |
| 10) T  | Methyl Iodide       | 0.411          | 0.469 | 0.473 | 0.597 | 0.639 | 0.630 | 0.536 | 18.16  |
| 11) T  | Tert butyl alc...   | 0.034          | 0.030 | 0.029 | 0.028 | 0.028 | 0.027 | 0.029 | 8.15   |
| 12) CM | 1,1-Dichloroet...   | 0.499          | 0.592 | 0.492 | 0.538 | 0.537 | 0.524 | 0.530 | 6.72#  |
| 13) T  | Acrolein            | 0.032          | 0.032 | 0.037 | 0.039 | 0.040 | 0.039 | 0.037 | 9.21   |
| 14) T  | Allyl chloride      | 0.571          | 0.635 | 0.570 | 0.632 | 0.672 | 0.662 | 0.624 | 7.06   |
| 15) T  | Acrylonitrile       | 0.087          | 0.096 | 0.091 | 0.097 | 0.101 | 0.098 | 0.095 | 5.59   |
| 16) T  | Acetone             | 0.093          | 0.107 | 0.089 | 0.098 | 0.096 | 0.078 | 0.093 | 10.36  |
| 17) T  | Carbon Disulfide    | 1.585          | 2.011 | 1.547 | 1.759 | 1.722 | 1.667 | 1.715 | 9.66   |
| 18) T  | Methyl Acetate      | 0.260          | 0.347 | 0.253 | 0.222 | 0.226 | 0.217 | 0.254 | 19.16  |
| 19) T  | Methyl tert-bu...   | 0.800          | 0.892 | 0.905 | 1.030 | 1.093 | 1.080 | 0.967 | 12.25  |
| 20) T  | Methylene Chlo...   | 1.000          | 1.477 | 0.811 | 0.698 | 0.648 | 0.614 | 0.875 | 37.31  |
| 21) T  | trans-1,2-Dich...   | 0.581          | 0.669 | 0.591 | 0.630 | 0.635 | 0.620 | 0.621 | 5.11   |
| 22) T  | Diisopropyl ether   | 1.113          | 1.090 | 1.225 | 1.334 | 1.354 | 1.325 | 1.240 | 9.41   |
| 23) T  | Vinyl Acetate       | 0.548          | 0.502 | 0.621 | 0.790 | 0.846 | 0.832 | 0.690 | 21.95  |
| 24) P  | 1,1-Dichloroet...   | 1.015          | 1.158 | 0.997 | 1.021 | 1.016 | 0.987 | 1.032 | 6.11   |
| 25) T  | 2-Butanone          | 0.108          | 0.111 | 0.107 | 0.124 | 0.128 | 0.121 | 0.116 | 7.70   |
| 26) T  | 2,2-Dichloropr...   | 0.906          | 0.974 | 0.902 | 0.901 | 0.901 | 0.874 | 0.910 | 3.69   |
| 27) T  | cis-1,2-Dichlo...   | 0.623          | 0.711 | 0.620 | 0.690 | 0.701 | 0.687 | 0.672 | 5.93   |
| 28) T  | Bromochloromet...   | 0.362          | 0.402 | 0.348 | 0.401 | 0.384 | 0.373 | 0.378 | 5.74   |
| 29) T  | Tetrahydrofuran     | 0.053          | 0.061 | 0.062 | 0.071 | 0.074 | 0.072 | 0.066 | 12.47  |
| 30) C  | Chloroform          | 1.138          | 1.362 | 1.100 | 1.127 | 1.106 | 1.068 | 1.150 | 9.28#  |
| 31) T  | Cyclohexane         | 0.725          | 0.893 | 0.695 | 0.768 | 0.768 | 0.751 | 0.767 | 8.85   |
| 32) T  | 1,1,1-Trichlor...   | 1.007          | 1.151 | 0.966 | 1.005 | 0.977 | 0.956 | 1.010 | 7.13   |
| 33) S  | 1,2-Dichloroet...   | 0.549          | 0.627 | 0.543 | 0.564 | 0.557 | 0.545 | 0.564 | 5.64   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.347          | 0.406 | 0.365 | 0.383 | 0.379 | 0.367 | 0.375 | 5.24   |
| 36) T  | 1,1-Dichloropr...   | 0.478          | 0.544 | 0.496 | 0.543 | 0.545 | 0.517 | 0.521 | 5.47   |
| 37) T  | Ethyl Acetate       | 0.146          | 0.177 | 0.170 | 0.184 | 0.192 | 0.176 | 0.174 | 9.18   |
| 38) T  | Carbon Tetrach...   | 0.533          | 0.624 | 0.552 | 0.573 | 0.563 | 0.539 | 0.564 | 5.86   |
| 39) T  | Methylcyclohexane   | 0.407          | 0.523 | 0.465 | 0.566 | 0.603 | 0.578 | 0.524 | 14.33  |
| 40) TM | Benzene             | 1.400          | 1.629 | 1.453 | 1.561 | 1.565 | 1.483 | 1.515 | 5.57   |
| 41) T  | Methacrylonitrile   | 0.080          | 0.083 | 0.076 | 0.088 | 0.091 | 0.102 | 0.087 | 10.61  |
| 42) TM | 1,2-Dichloroet...   | 0.396          | 0.468 | 0.401 | 0.419 | 0.417 | 0.395 | 0.416 | 6.59   |
| 43) T  | Isopropyl Acetate   | 0.299          | 0.308 | 0.318 | 0.348 | 0.361 | 0.342 | 0.329 | 7.47   |
| 44) TM | Trichloroethene     | 0.394          | 0.466 | 0.410 | 0.429 | 0.429 | 0.408 | 0.423 | 5.96   |
| 45) C  | 1,2-Dichloropr...   | 0.353          | 0.394 | 0.359 | 0.380 | 0.376 | 0.357 | 0.370 | 4.34#  |
| 46) T  | Dibromomethane      | 0.201          | 0.218 | 0.213 | 0.215 | 0.218 | 0.206 | 0.212 | 3.25   |
| 47) T  | Bromodichlorom...   | 0.524          | 0.596 | 0.534 | 0.552 | 0.552 | 0.522 | 0.546 | 5.04   |
| 48) T  | Methyl methacr...   | 0.142          | 0.119 | 0.134 | 0.163 | 0.167 | 0.174 | 0.150 | 14.40  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 13.21  |
| 50) S  | Toluene-d8          | 1.234          | 1.275 | 1.366 | 1.450 | 1.463 | 1.431 | 1.370 | 7.03   |
| 51) T  | 4-Methyl-2-Pen...   | 0.148          | 0.147 | 0.162 | 0.187 | 0.187 | 0.177 | 0.168 | 10.99  |
| 52) CM | Toluene             | 0.878          | 0.927 | 0.927 | 1.022 | 1.033 | 0.987 | 0.962 | 6.39#  |
| 53) T  | t-1,3-Dichloro...   | 0.421          | 0.450 | 0.455 | 0.490 | 0.506 | 0.488 | 0.468 | 6.80   |
| 54) T  | cis-1,3-Dichlo...   | 0.506          | 0.561 | 0.542 | 0.584 | 0.601 | 0.582 | 0.563 | 6.13   |
| 55) T  | 1,1,2-Trichlor...   | 0.281          | 0.307 | 0.286 | 0.299 | 0.303 | 0.283 | 0.293 | 3.89   |
| 56) T  | Ethyl methacry...   | 0.239          | 0.231 | 0.270 | 0.333 | 0.357 | 0.343 | 0.296 | 18.79  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.434          | 0.492 | 0.457 | 0.493 | 0.508 | 0.478 | 0.477 | 5.71  |
| 58) | T  | 2-Chloroethyl ...     | 0.118          | 0.115 | 0.139 | 0.172 | 0.179 | 0.171 | 0.149 | 19.25 |
| 59) | T  | 2-Hexanone            | 0.095          | 0.091 | 0.109 | 0.126 | 0.131 | 0.121 | 0.112 | 14.72 |
| 60) | T  | Dibromochlorom...     | 0.350          | 0.387 | 0.371 | 0.385 | 0.382 | 0.367 | 0.373 | 3.79  |
| 61) | T  | 1,2-Dibromoethane     | 0.259          | 0.289 | 0.283 | 0.288 | 0.292 | 0.278 | 0.281 | 4.33  |
| 62) | S  | 4-Bromofluorob...     | 0.380          | 0.427 | 0.413 | 0.459 | 0.482 | 0.476 | 0.439 | 9.08  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.369          | 0.469 | 0.373 | 0.387 | 0.370 | 0.351 | 0.387 | 10.86 |
| 65) | PM | Chlorobenzene         | 1.031          | 1.185 | 1.063 | 1.124 | 1.126 | 1.070 | 1.100 | 5.06  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.394          | 0.462 | 0.420 | 0.428 | 0.426 | 0.404 | 0.422 | 5.57  |
| 67) | C  | Ethyl Benzene         | 1.596          | 1.721 | 1.749 | 1.994 | 2.048 | 1.958 | 1.844 | 9.77# |
| 68) | T  | m/p-Xylenes           | 0.651          | 0.675 | 0.702 | 0.805 | 0.802 | 0.761 | 0.733 | 9.01  |
| 69) | T  | o-Xylene              | 0.529          | 0.581 | 0.619 | 0.715 | 0.736 | 0.709 | 0.648 | 13.00 |
| 70) | T  | Styrene               | 0.982          | 0.952 | 1.109 | 1.273 | 1.298 | 1.230 | 1.141 | 13.12 |
| 71) | P  | Bromoform             | 0.204          | 0.224 | 0.217 | 0.225 | 0.229 | 0.213 | 0.219 | 4.16  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.016          | 3.176 | 3.294 | 3.823 | 3.895 | 3.887 | 3.515 | 11.31 |
| 74) | T  | N-amyl acetate        | 0.528          | 0.541 | 0.586 | 0.689 | 0.724 | 0.716 | 0.631 | 14.16 |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.637          | 0.730 | 0.654 | 0.679 | 0.681 | 0.668 | 0.675 | 4.67  |
| 76) | T  | 1,2,3-Trichlor...     | 0.478          | 0.507 | 0.505 | 0.525 | 0.516 | 0.510 | 0.507 | 3.14  |
| 77) | T  | Bromobenzene          | 0.834          | 0.892 | 0.823 | 0.908 | 0.920 | 0.912 | 0.881 | 4.77  |
| 78) | T  | n-propylbenzene       | 3.724          | 3.916 | 4.131 | 4.735 | 4.733 | 4.644 | 4.314 | 10.38 |
| 79) | T  | 2-Chlorotoluene       | 2.172          | 2.322 | 2.348 | 2.643 | 2.615 | 2.612 | 2.452 | 8.05  |
| 80) | T  | 1,3,5-Trimethy...     | 2.500          | 2.569 | 2.858 | 3.284 | 3.299 | 3.270 | 2.963 | 12.54 |
| 81) | T  | trans-1,4-Dich...     | 0.171          | 0.175 | 0.173 | 0.204 | 0.212 | 0.206 | 0.190 | 9.94  |
| 82) | T  | 4-Chlorotoluene       | 2.350          | 2.477 | 2.528 | 2.772 | 2.774 | 2.757 | 2.610 | 7.01  |
| 83) | T  | tert-Butylbenzene     | 2.129          | 2.315 | 2.359 | 2.723 | 2.817 | 2.794 | 2.523 | 11.56 |
| 84) | T  | 1,2,4-Trimethy...     | 2.559          | 2.518 | 2.841 | 3.292 | 3.297 | 3.269 | 2.963 | 12.53 |
| 85) | T  | sec-Butylbenzene      | 3.189          | 3.450 | 3.514 | 4.048 | 4.068 | 3.984 | 3.709 | 10.05 |
| 86) | T  | p-Isopropyltol...     | 2.710          | 2.803 | 3.045 | 3.625 | 3.596 | 3.553 | 3.222 | 13.03 |
| 87) | T  | 1,3-Dichlorobe...     | 1.639          | 1.851 | 1.676 | 1.835 | 1.816 | 1.773 | 1.765 | 4.98  |
| 88) | T  | 1,4-Dichlorobe...     | 1.657          | 1.958 | 1.683 | 1.773 | 1.755 | 1.723 | 1.758 | 6.08  |
| 89) | T  | n-Butylbenzene        | 2.546          | 2.764 | 2.783 | 3.286 | 3.325 | 3.279 | 2.997 | 11.31 |
| 90) | T  | Hexachloroethane      | 0.596          | 0.709 | 0.580 | 0.639 | 0.631 | 0.608 | 0.627 | 7.28  |
| 91) | T  | 1,2-Dichlorobe...     | 1.451          | 1.611 | 1.507 | 1.589 | 1.566 | 1.516 | 1.540 | 3.87  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.094          | 0.117 | 0.095 | 0.100 | 0.102 | 0.101 | 0.102 | 7.96  |
| 93) | T  | 1,2,4-Trichlor...     | 0.799          | 0.843 | 0.832 | 0.964 | 0.985 | 0.953 | 0.896 | 8.96  |
| 94) | T  | Hexachlorobuta...     | 0.524          | 0.575 | 0.540 | 0.598 | 0.570 | 0.556 | 0.560 | 4.71  |
| 95) | T  | Naphthalene           | 1.140          | 1.261 | 1.338 | 1.702 | 1.841 | 1.809 | 1.515 | 20.11 |
| 96) | T  | 1,2,3-Trichlor...     | 0.653          | 0.717 | 0.748 | 0.853 | 0.855 | 0.842 | 0.778 | 10.90 |

(#) = Out of Range