

Method Path : Z:\VOASRV\HPCHEM1\MSVOA D\METHOD\  
 Method File : 82D060618S.M  
 Title : SW846 8260  
 Last Update : Thu Jun 07 08:57:33 2018  
 Response Via : Initial Calibration

## Calibration Files

5 =VD057957.D 10 =VD057958.D 20 =VD057959.D  
 50 =VD057960.D 100 =VD057962.D 75 =VD057961.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 75    | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| -----  |                     |                |       |       |       |       |       |       |        |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluorom   | 0.650          | 0.747 | 0.753 | 0.655 | 0.657 | 0.565 | 0.671 | 10.46  |
| 3) P   | Chloromethane       | 0.348          | 0.362 | 0.363 | 0.302 | 0.329 | 0.279 | 0.330 | 10.27  |
| 4) C   | Vinyl Chloride      | 0.299          | 0.332 | 0.337 | 0.312 | 0.353 | 0.287 | 0.320 | 7.84#  |
| 5) T   | Bromomethane        | 0.130          | 0.141 | 0.114 | 0.139 | 0.115 | 0.114 | 0.125 | 10.13  |
| 6) T   | Chloroethane        | 0.138          | 0.146 | 0.111 | 0.141 | 0.108 | 0.114 | 0.126 | 13.62  |
| 7) T   | Trichlorofluorome   | 0.439          | 0.488 | 0.441 | 0.449 | 0.426 | 0.382 | 0.437 | 7.87   |
| 8) T   | Diethyl Ether       | 0.069          | 0.083 | 0.081 | 0.086 | 0.094 | 0.075 | 0.081 | 10.37  |
| 9) T   | 1,1,2-Trichlorotr   | 0.233          | 0.269 | 0.287 | 0.272 | 0.274 | 0.230 | 0.261 | 9.06   |
| 10) T  | Methyl Iodide       | 0.263          | 0.328 | 0.336 | 0.345 | 0.416 | 0.332 | 0.337 | 14.44  |
| 11) T  | Tert butyl alcoho   | 0.012          | 0.011 | 0.013 | 0.015 | 0.014 | 0.014 | 0.013 | 11.12  |
| 12) CM | 1,1-Dichloroethen   | 0.197          | 0.205 | 0.205 | 0.206 | 0.213 | 0.178 | 0.201 | 6.18#  |
| 13) T  | Acrolein            | 0.017          | 0.020 | 0.021 | 0.018 | 0.021 | 0.018 | 0.019 | 8.50   |
| 14) T  | Allyl chloride      | 0.453          | 0.476 | 0.471 | 0.458 | 0.507 | 0.411 | 0.463 | 6.79   |
| 15) T  | Acrylonitrile       | 0.079          | 0.080 | 0.081 | 0.077 | 0.082 | 0.072 | 0.078 | 4.64   |
| 16) T  | Acetone             | 0.077          | 0.070 | 0.068 | 0.073 | 0.075 | 0.068 | 0.072 | 5.21   |
| 17) T  | Carbon Disulfide    | 0.645          | 0.750 | 0.737 | 0.738 | 0.817 | 0.671 | 0.726 | 8.42   |
| 18) T  | Methyl Acetate      | 0.167          | 0.132 | 0.146 | 0.127 | 0.146 | 0.118 | 0.139 | 12.49  |
| 19) T  | Methyl tert-butyl   | 0.818          | 0.905 | 0.941 | 0.894 | 0.925 | 0.811 | 0.882 | 6.24   |
| 20) T  | Methylene Chlorid   | 0.361          | 0.254 | 0.242 | 0.210 | 0.223 | 0.187 | 0.246 | 24.72  |
| 21) T  | trans-1,2-Dichlor   | 0.421          | 0.495 | 0.486 | 0.453 | 0.435 | 0.390 | 0.447 | 8.91   |
| 22) T  | Diisopropyl ether   | 1.773          | 1.947 | 1.981 | 1.884 | 1.811 | 1.600 | 1.833 | 7.56   |
| 23) T  | Vinyl Acetate       | 0.858          | 0.929 | 1.002 | 1.015 | 0.997 | 0.880 | 0.947 | 7.14   |
| 24) P  | 1,1-Dichloroethan   | 1.004          | 1.074 | 1.076 | 0.999 | 1.014 | 0.876 | 1.007 | 7.25   |
| 25) T  | 2-Butanone          | 0.167          | 0.157 | 0.168 | 0.169 | 0.171 | 0.150 | 0.164 | 4.97   |
| 26) T  | 2,2-Dichloropropa   | 0.833          | 0.872 | 0.878 | 0.835 | 0.836 | 0.724 | 0.830 | 6.68   |
| 27) T  | cis-1,2-Dichloroe   | 0.536          | 0.573 | 0.561 | 0.531 | 0.520 | 0.457 | 0.530 | 7.69   |
| 28) T  | Bromochloromethan   | 0.350          | 0.471 | 0.475 | 0.443 | 0.452 | 0.425 | 0.436 | 10.51  |
| 29)    | Tetrahydrofuran     | 0.085          | 0.085 | 0.091 | 0.087 | 0.088 | 0.079 | 0.086 | 4.52   |
| 30) C  | Chloroform          | 0.937          | 1.081 | 1.082 | 1.022 | 1.038 | 0.922 | 1.014 | 6.87#  |
| 31) T  | Cyclohexane         | 1.051          | 0.973 | 0.904 | 0.807 | 0.761 | 0.720 | 0.869 | 14.81  |
| 32) T  | 1,1,1-Trichloroet   | 0.803          | 0.834 | 0.906 | 0.855 | 0.903 | 0.791 | 0.849 | 5.72   |
| 33) S  | 1,2-Dichloroethan   | 0.499          | 0.542 | 0.534 | 0.487 | 0.493 | 0.444 | 0.500 | 7.09   |
|        |                     |                |       |       |       |       |       |       |        |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorometh   | 0.394          | 0.413 | 0.426 | 0.375 | 0.373 | 0.341 | 0.387 | 7.89   |
| 36) T  | 1,1-Dichloroprope   | 0.601          | 0.580 | 0.613 | 0.543 | 0.508 | 0.460 | 0.551 | 10.71  |
| 37) T  | Ethyl Acetate       | 0.314          | 0.293 | 0.322 | 0.298 | 0.306 | 0.270 | 0.301 | 6.08   |
| 38) T  | Carbon Tetrachlor   | 0.535          | 0.569 | 0.563 | 0.542 | 0.557 | 0.491 | 0.543 | 5.22   |
| 39) T  | Methylcyclohexane   | 0.558          | 0.581 | 0.591 | 0.557 | 0.517 | 0.473 | 0.546 | 8.03   |
| 40) TM | Benzene             | 1.388          | 1.371 | 1.429 | 1.277 | 1.167 | 1.088 | 1.287 | 10.51  |
| 41) T  | Methacrylonitrile   | 0.147          | 0.124 | 0.140 | 0.141 | 0.144 | 0.128 | 0.137 | 6.50   |
| 42) TM | 1,2-Dichloroethan   | 0.510          | 0.508 | 0.563 | 0.533 | 0.543 | 0.465 | 0.520 | 6.56   |
| 43) T  | Isopropyl Acetate   | 0.380          | 0.373 | 0.418 | 0.407 | 0.426 | 0.359 | 0.394 | 6.89   |
| 44) TM | Trichloroethene     | 0.374          | 0.387 | 0.397 | 0.386 | 0.369 | 0.341 | 0.376 | 5.28   |
| 45) C  | 1,2-Dichloropropa   | 0.351          | 0.366 | 0.399 | 0.364 | 0.350 | 0.317 | 0.358 | 7.47#  |
| 46) T  | Dibromomethane      | 0.230          | 0.230 | 0.235 | 0.234 | 0.240 | 0.209 | 0.230 | 4.72   |
| 47) T  | Bromodichlorometh   | 0.497          | 0.535 | 0.572 | 0.565 | 0.566 | 0.494 | 0.538 | 6.58   |
| 48) T  | Methyl methacryla   | 0.232          | 0.240 | 0.252 | 0.245 | 0.261 | 0.224 | 0.242 | 5.46   |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 5.02   |
| 50) S  | Toluene-d8          | 0.949          | 1.050 | 1.038 | 0.871 | 0.852 | 0.759 | 0.920 | 12.35  |
| 51) T  | 4-Methyl-2-Pentan   | 0.269          | 0.256 | 0.259 | 0.258 | 0.245 | 0.228 | 0.253 | 5.68   |
| 52) CM | Toluene             | 0.806          | 0.788 | 0.825 | 0.726 | 0.666 | 0.621 | 0.739 | 11.13# |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 53) T  | t-1,3-Dichloropro     | 0.441          | 0.465 | 0.500 | 0.471 | 0.480 | 0.424 | 0.463 | 5.90   |
| 54) T  | cis-1,3-Dichlorop     | 0.514          | 0.533 | 0.602 | 0.573 | 0.558 | 0.496 | 0.546 | 7.17   |
| 55) T  | 1,1,2-Trichloroet     | 0.246          | 0.247 | 0.251 | 0.239 | 0.237 | 0.214 | 0.239 | 5.57   |
| 56) T  | Ethyl methacrylat     | 0.285          | 0.290 | 0.315 | 0.303 | 0.302 | 0.264 | 0.293 | 6.07   |
| 57) T  | 1,3-Dichloropropa     | 0.422          | 0.412 | 0.454 | 0.425 | 0.426 | 0.376 | 0.419 | 6.08   |
| 58) T  | 2-Chloroethyl Vin     | 0.163          | 0.152 | 0.163 | 0.147 | 0.137 | 0.127 | 0.148 | 9.62   |
| 59) T  | 2-Hexanone            | 0.185          | 0.188 | 0.201 | 0.188 | 0.183 | 0.165 | 0.185 | 6.33   |
| 60) T  | Dibromochlorometh     | 0.304          | 0.310 | 0.353 | 0.355 | 0.377 | 0.322 | 0.337 | 8.61   |
| 61) T  | 1,2-Dibromoethane     | 0.275          | 0.267 | 0.284 | 0.278 | 0.288 | 0.256 | 0.275 | 4.26   |
| 62) S  | 4-Bromofluorobenz     | 0.428          | 0.457 | 0.441 | 0.384 | 0.362 | 0.335 | 0.401 | 11.99  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |        |
| 64) T  | Tetrachloroethene     | 0.446          | 0.466 | 0.491 | 0.446 | 0.439 | 0.394 | 0.447 | 7.24   |
| 65) PM | Chlorobenzene         | 1.056          | 1.052 | 1.125 | 1.006 | 0.976 | 0.857 | 1.012 | 9.02   |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.390          | 0.398 | 0.427 | 0.403 | 0.382 | 0.334 | 0.389 | 7.95   |
| 67) C  | Ethyl Benzene         | 2.035          | 2.006 | 2.057 | 1.815 | 1.599 | 1.460 | 1.829 | 13.72# |
| 68) T  | m/p-Xylenes           | 0.648          | 0.640 | 0.699 | 0.570 | 0.528 | 0.492 | 0.596 | 13.29  |
| 69) T  | o-Xylene              | 0.599          | 0.652 | 0.670 | 0.588 | 0.536 | 0.504 | 0.592 | 10.89  |
| 70) T  | Stvrene               | 1.007          | 1.071 | 1.102 | 0.984 | 0.885 | 0.830 | 0.980 | 10.74  |
| 71) P  | Bromoform             | 0.241          | 0.265 | 0.302 | 0.318 | 0.340 | 0.289 | 0.293 | 12.27  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |        |
| 73) T  | Isopropylbenzene      | 3.508          | 3.596 | 3.406 | 3.305 | 3.224 | 2.832 | 3.312 | 8.17   |
| 74) T  | N-amyl acetate        | 1.282          | 1.237 | 1.279 | 1.330 | 1.345 | 1.195 | 1.278 | 4.38   |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.753          | 0.731 | 0.743 | 0.724 | 0.738 | 0.643 | 0.722 | 5.54   |
| 76) T  | 1,2,3-Trichloropr     | 0.761          | 0.809 | 0.742 | 0.762 | 0.753 | 0.678 | 0.751 | 5.65   |
| 77) T  | Bromobenzene          | 1.026          | 1.004 | 1.010 | 0.995 | 1.005 | 0.841 | 0.980 | 7.02   |
| 78) T  | n-propylbenzene       | 4.826          | 4.799 | 4.580 | 4.177 | 3.909 | 3.565 | 4.309 | 11.89  |
| 79) T  | 2-Chlorotoluene       | 2.615          | 2.661 | 2.503 | 2.456 | 2.409 | 2.107 | 2.458 | 8.00   |
| 80) T  | 1,3,5-Trimethylbe     | 2.881          | 2.856 | 2.688 | 2.479 | 2.432 | 2.160 | 2.583 | 10.78  |
| 81) T  | trans-1,4-Dichlor     | 0.155          | 0.156 | 0.187 | 0.214 | 0.215 | 0.189 | 0.186 | 14.16  |
| 82) T  | 4-Chlorotoluene       | 3.272          | 2.993 | 2.795 | 2.520 | 2.387 | 2.144 | 2.685 | 15.45  |
| 83) T  | tert-Butylbenzene     | 3.142          | 3.093 | 2.991 | 2.937 | 2.888 | 2.447 | 2.916 | 8.53   |
| 84) T  | 1,2,4-Trimethylbe     | 2.806          | 2.998 | 2.944 | 2.802 | 2.720 | 2.392 | 2.777 | 7.71   |
| 85) T  | sec-Butylbenzene      | 3.835          | 3.691 | 3.779 | 3.491 | 3.381 | 2.939 | 3.520 | 9.45   |
| 86) T  | p-Isopropyltoluen     | 3.078          | 2.972 | 2.939 | 2.833 | 2.764 | 2.434 | 2.837 | 7.95   |
| 87) T  | 1,3-Dichlorobenze     | 1.808          | 1.705 | 1.778 | 1.646 | 1.592 | 1.420 | 1.658 | 8.54   |
| 88) T  | 1,4-Dichlorobenze     | 1.736          | 1.695 | 1.686 | 1.561 | 1.601 | 1.415 | 1.616 | 7.27   |
| 89) T  | n-Butylbenzene        | 3.486          | 3.267 | 3.228 | 2.742 | 2.483 | 2.311 | 2.919 | 16.27  |
| 90) T  | Hexachloroethane      | 0.661          | 0.692 | 0.762 | 0.764 | 0.773 | 0.692 | 0.724 | 6.59   |
| 91) T  | 1,2-Dichlorobenze     | 1.526          | 1.478 | 1.466 | 1.252 | 1.215 | 1.103 | 1.340 | 12.89  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.103          | 0.103 | 0.103 | 0.122 | 0.126 | 0.112 | 0.111 | 9.34   |
| 93) T  | 1,2,4-Trichlorobe     | 1.291          | 1.320 | 1.248 | 1.286 | 1.261 | 1.106 | 1.252 | 6.04   |
| 94) T  | Hexachlorobutadie     | 0.988          | 0.990 | 0.972 | 1.024 | 1.038 | 0.896 | 0.985 | 5.06   |
| 95) T  | Naphthalene           | 1.591          | 1.576 | 1.644 | 1.630 | 1.749 | 1.496 | 1.614 | 5.21   |
| 96) T  | 1,2,3-Trichlorobe     | 1.092          | 1.058 | 1.093 | 1.094 | 1.113 | 0.952 | 1.067 | 5.56   |

(#) = Out of Range