

Method Path : Z:\VOASRV\HPCHEM1\MSVOA F\METHODS\  
 Method File : 82F073018S.M  
 Title : SW846 8260  
 Last Update : Tue Jul 31 15:23:22 2018  
 Response Via : Initial Calibration

## Calibration Files

5 =VF059694.D 20 =VF059696.D 50 =VF059689.D  
 100 =VF059691.D 150 =VF059697.D 10 =VF059695.D

|        | Compound            | 5              | 20    | 50    | 100   | 150   | 10    | Avq   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluorom   | 0.835          | 0.839 | 0.518 | 0.531 | 0.522 | 0.790 | 0.672 | 24.38  |
| 3) P   | Chloromethane       | 0.449          | 0.383 | 0.278 | 0.281 | 0.270 | 0.389 | 0.342 | 22.03  |
| 4) C   | Vinyl Chloride      | 0.407          | 0.408 | 0.285 | 0.309 | 0.292 | 0.392 | 0.349 | 17.02# |
| 5) T   | Bromomethane        | 0.325          | 0.344 | 0.245 | 0.250 | 0.238 | 0.310 | 0.285 | 16.27  |
| 6) T   | Chloroethane        | 0.265          | 0.240 | 0.173 | 0.190 | 0.175 | 0.264 | 0.218 | 20.06  |
| 7) T   | Trichlorofluorome   | 1.085          | 1.008 | 0.851 | 0.830 | 0.794 | 1.034 | 0.934 | 13.19  |
| 8) T   | Diethyl Ether       | 0.192          | 0.155 | 0.145 | 0.142 | 0.143 | 0.181 | 0.160 | 13.48  |
| 9) T   | 1,1,2-Trichlorotr   | 0.514          | 0.553 | 0.447 | 0.442 | 0.432 | 0.547 | 0.489 | 11.26  |
| 10) T  | Methyl Iodide       | 0.893          | 0.848 | 0.658 | 0.696 | 0.642 | 0.876 | 0.769 | 15.04  |
| 11) T  | Tert butyl alcoho   | 0.054          | 0.038 | 0.032 | 0.036 | 0.037 | 0.040 | 0.040 | 19.22  |
| 12) CM | 1,1-Dichloroethen   | 0.462          | 0.436 | 0.319 | 0.364 | 0.338 | 0.405 | 0.387 | 14.58# |
| 13) T  | Acrolein            | 0.020          | 0.010 | 0.020 | 0.021 | 0.019 | 0.013 | 0.017 | 26.19  |
| 14) T  | Allyl chloride      | 0.631          | 0.723 | 0.522 | 0.575 | 0.558 | 0.701 | 0.618 | 13.08  |
| 15) T  | Acrylonitrile       | 0.083          | 0.065 | 0.051 | 0.056 | 0.060 | 0.065 | 0.063 | 17.37  |
| 16) T  | Acetone             | 0.195          | 0.160 | 0.147 | 0.154 | 0.147 | 0.167 | 0.162 | 11.28  |
| 17) T  | Carbon Disulfide    | 1.143          | 1.157 | 0.717 | 0.771 | 0.728 | 1.122 | 0.940 | 23.55  |
| 18) T  | Methyl Acetate      | 0.396          | 0.334 | 0.223 | 0.247 | 0.233 | 0.375 | 0.301 | 25.36  |
| 19) T  | Methyl tert-butyl   | 1.410          | 1.212 | 1.068 | 1.080 | 1.060 | 1.255 | 1.181 | 11.78  |
| 20) T  | Methylene Chlorid   | 0.741          | 0.456 | 0.339 | 0.343 | 0.313 | 0.522 | 0.453 | 35.97  |
| 21) T  | trans-1,2-Dichlor   | 0.496          | 0.428 | 0.302 | 0.327 | 0.332 | 0.433 | 0.386 | 19.89  |
| 22) T  | Diisopropyl ether   | 1.395          | 1.433 | 1.157 | 1.211 | 1.211 | 1.436 | 1.307 | 9.73   |
| 23) T  | Vinyl Acetate       | 0.692          | 0.700 | 0.634 | 0.632 | 0.659 | 0.716 | 0.672 | 5.26   |
| 24) P  | 1,1-Dichloroethan   | 0.996          | 1.028 | 0.788 | 0.820 | 0.807 | 1.012 | 0.908 | 12.59  |
| 25) T  | 2-Butanone          | 0.196          | 0.179 | 0.200 | 0.155 | 0.162 | 0.190 | 0.180 | 10.19  |
| 26) T  | 2,2-Dichloropropa   | 0.727          | 0.715 | 0.588 | 0.586 | 0.570 | 0.698 | 0.647 | 11.30  |
| 27) T  | cis-1,2-Dichloroe   | 0.474          | 0.571 | 0.437 | 0.439 | 0.427 | 0.571 | 0.486 | 13.84  |
| 28) T  | Bromochloromethan   | 0.426          | 0.408 | 0.309 | 0.312 | 0.293 | 0.411 | 0.360 | 16.97  |
| 29)    | Tetrahydrofuran     | 0.077          | 0.074 | 0.061 | 0.064 | 0.062 | 0.078 | 0.069 | 11.78  |
| 30) C  | Chloroform          | 1.433          | 1.395 | 1.156 | 1.124 | 1.173 | 1.411 | 1.282 | 11.30# |
| 31) T  | Cyclohexane         | 0.494          | 0.600 | 0.399 | 0.443 | 0.409 | 0.603 | 0.491 | 18.61  |
| 32) T  | 1,1,1-Trichloroet   | 1.113          | 1.102 | 0.877 | 0.872 | 0.866 | 1.137 | 0.994 | 13.59  |
| 33) S  | 1,2-Dichloroethan   | 0.912          | 0.919 | 0.844 | 0.890 | 0.858 | 0.969 | 0.899 | 5.04   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorometh   | 0.550          | 0.517 | 0.493 | 0.491 | 0.473 | 0.590 | 0.519 | 8.43   |
| 36) T  | 1,1-Dichloroprope   | 0.692          | 0.640 | 0.489 | 0.495 | 0.476 | 0.648 | 0.573 | 16.84  |
| 37) T  | Ethyl Acetate       | 0.337          | 0.299 | 0.254 | 0.236 | 0.234 | 0.365 | 0.288 | 19.19  |
| 38) T  | Carbon Tetrachlor   | 0.885          | 0.847 | 0.712 | 0.708 | 0.701 | 0.918 | 0.795 | 12.51  |
| 39) T  | Methylcyclohexane   | 0.507          | 0.513 | 0.377 | 0.381 | 0.359 | 0.461 | 0.433 | 15.99  |
| 40) TM | Benzene             | 1.107          | 1.124 | 0.876 | 0.894 | 0.890 | 1.168 | 1.010 | 13.50  |
| 41) T  | Methacrylonitrile   | 0.156          | 0.149 | 0.128 | 0.114 | 0.125 | 0.172 | 0.141 | 15.76  |
| 42) TM | 1,2-Dichloroethan   | 0.758          | 0.788 | 0.654 | 0.632 | 0.653 | 0.754 | 0.707 | 9.56   |
| 43) T  | Isopropyl Acetate   | 0.321          | 0.307 | 0.267 | 0.282 | 0.301 | 0.315 | 0.299 | 6.92   |
| 44) TM | Trichloroethene     | 0.452          | 0.429 | 0.347 | 0.327 | 0.311 | 0.471 | 0.389 | 17.82  |
| 45) C  | 1,2-Dichloropropa   | 0.283          | 0.295 | 0.254 | 0.244 | 0.237 | 0.287 | 0.267 | 9.29#  |
| 46) T  | Dibromomethane      | 0.285          | 0.269 | 0.239 | 0.228 | 0.239 | 0.260 | 0.253 | 8.56   |
| 47) T  | Bromodichlorometh   | 0.713          | 0.769 | 0.653 | 0.634 | 0.642 | 0.726 | 0.689 | 7.95   |
| 48) T  | Methyl methacryla   | 0.232          | 0.223 | 0.213 | 0.217 | 0.230 | 0.234 | 0.225 | 3.94   |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 15.23  |
| 50) S  | Toluene-d8          | 1.273          | 1.184 | 1.138 | 1.158 | 1.114 | 1.399 | 1.211 | 8.85   |
| 51) T  | 4-Methyl-2-Pentan   | 0.231          | 0.249 | 0.220 | 0.208 | 0.210 | 0.247 | 0.227 | 7.86   |
| 52) CM | Toluene             | 0.895          | 0.824 | 0.655 | 0.632 | 0.659 | 0.826 | 0.748 | 15.07# |

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|        | Compound              | 5              | 20    | 50    | 100   | 150   | 10    | Avg   | %RSD   |
|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 53) T  | t-1,3-Dichloropro     | 0.644          | 0.661 | 0.545 | 0.522 | 0.545 | 0.673 | 0.598 | 11.39  |
| 54) T  | cis-1,3-Dichlorop     | 0.608          | 0.615 | 0.558 | 0.527 | 0.553 | 0.616 | 0.579 | 6.59   |
| 55) T  | 1,1,2-Trichloroet     | 0.288          | 0.285 | 0.258 | 0.248 | 0.266 | 0.296 | 0.273 | 6.90   |
| 56) T  | Ethyl methacrylat     | 0.265          | 0.294 | 0.290 | 0.290 | 0.296 | 0.275 | 0.285 | 4.25   |
| 57) T  | 1,3-Dichloropropa     | 0.491          | 0.490 | 0.435 | 0.427 | 0.453 | 0.518 | 0.469 | 7.71   |
| 58) T  | 2-Chloroethyl Vin     | 0.036          | 0.035 | 0.029 | 0.029 | 0.029 | 0.040 | 0.033 | 13.99  |
| 59) T  | 2-Hexanone            | 0.226          | 0.173 | 0.170 | 0.163 | 0.166 | 0.194 | 0.182 | 13.24  |
| 60) T  | Dibromochlorometh     | 0.480          | 0.486 | 0.462 | 0.449 | 0.486 | 0.533 | 0.483 | 5.95   |
| 61) T  | 1,2-Dibromoethane     | 0.315          | 0.332 | 0.297 | 0.305 | 0.319 | 0.348 | 0.319 | 5.79   |
| 62) S  | 4-Bromofluorobenz     | 0.777          | 0.645 | 0.644 | 0.611 | 0.611 | 0.734 | 0.670 | 10.32  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |        |
| 64) T  | Tetrachloroethene     | 0.456          | 0.465 | 0.323 | 0.323 | 0.318 | 0.431 | 0.386 | 18.62  |
| 65) PM | Chlorobenzene         | 1.198          | 1.099 | 0.891 | 0.858 | 0.865 | 1.090 | 1.000 | 14.67  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.519          | 0.532 | 0.435 | 0.407 | 0.421 | 0.488 | 0.467 | 11.38  |
| 67) C  | Ethyl Benzene         | 1.945          | 1.944 | 1.605 | 1.494 | 1.491 | 1.904 | 1.731 | 12.94# |
| 68) T  | m/p-Xylenes           | 0.711          | 0.661 | 0.544 | 0.518 | 0.511 | 0.708 | 0.609 | 15.61  |
| 69) T  | o-Xylene              | 0.742          | 0.642 | 0.602 | 0.578 | 0.575 | 0.688 | 0.638 | 10.48  |
| 70) T  | Stvrene               | 1.102          | 1.086 | 0.894 | 0.840 | 0.847 | 1.027 | 0.966 | 12.40  |
| 71) P  | Bromoform             | 0.324          | 0.322 | 0.293 | 0.281 | 0.285 | 0.321 | 0.304 | 6.58   |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |        |
| 73) T  | Isopropylbenzene      | 3.450          | 3.796 | 2.992 | 2.933 | 2.759 | 3.754 | 3.281 | 13.59  |
| 74) T  | N-amyl acetate        | 1.010          | 0.802 | 0.735 | 0.783 | 0.730 | 0.907 | 0.828 | 13.25  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.697          | 0.674 | 0.562 | 0.569 | 0.545 | 0.658 | 0.618 | 10.70  |
| 76) T  | 1,2,3-Trichloropr     | 0.619          | 0.572 | 0.458 | 0.467 | 0.464 | 0.572 | 0.525 | 13.42  |
| 77) T  | Bromobenzene          | 0.960          | 0.996 | 0.754 | 0.765 | 0.714 | 0.952 | 0.857 | 14.63  |
| 78) T  | n-propylbenzene       | 4.192          | 4.497 | 3.340 | 3.273 | 3.098 | 4.486 | 3.814 | 16.96  |
| 79) T  | 2-Chlorotoluene       | 2.681          | 2.725 | 2.098 | 2.081 | 1.965 | 2.682 | 2.372 | 15.10  |
| 80) T  | 1,3,5-Trimethylbe     | 3.223          | 3.471 | 2.577 | 2.555 | 2.408 | 3.381 | 2.936 | 16.12  |
| 81) T  | trans-1,4-Dichlor     | 0.206          | 0.247 | 0.197 | 0.215 | 0.210 | 0.231 | 0.217 | 8.42   |
| 82) T  | 4-Chlorotoluene       | 2.913          | 2.915 | 2.204 | 2.187 | 2.133 | 2.929 | 2.547 | 16.03  |
| 83) T  | tert-Butylbenzene     | 3.272          | 3.386 | 2.704 | 2.623 | 2.376 | 3.310 | 2.945 | 14.57  |
| 84) T  | 1,2,4-Trimethylbe     | 3.244          | 3.423 | 2.651 | 2.571 | 2.453 | 3.397 | 2.956 | 15.05  |
| 85) T  | sec-Butylbenzene      | 4.105          | 4.435 | 3.437 | 3.294 | 3.041 | 4.332 | 3.774 | 15.62  |
| 86) T  | p-Isopropyltoluen     | 3.565          | 3.877 | 2.974 | 2.876 | 2.641 | 3.945 | 3.313 | 16.75  |
| 87) T  | 1,3-Dichlorobenze     | 1.921          | 1.877 | 1.411 | 1.351 | 1.281 | 1.956 | 1.633 | 19.36  |
| 88) T  | 1,4-Dichlorobenze     | 1.826          | 1.805 | 1.386 | 1.388 | 1.328 | 1.810 | 1.591 | 15.45  |
| 89) T  | n-Butylbenzene        | 3.505          | 3.778 | 2.824 | 2.756 | 2.487 | 3.481 | 3.138 | 16.43  |
| 90) T  | Hexachloroethane      | 0.888          | 0.976 | 0.749 | 0.760 | 0.711 | 0.881 | 0.827 | 12.40  |
| 91) T  | 1,2-Dichlorobenze     | 1.904          | 1.813 | 1.333 | 1.308 | 1.290 | 1.761 | 1.568 | 18.28  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.140          | 0.152 | 0.143 | 0.150 | 0.152 | 0.169 | 0.151 | 6.71   |
| 93) T  | 1,2,4-Trichlorobe     | 1.406          | 1.435 | 1.111 | 1.048 | 1.010 | 1.356 | 1.228 | 15.64  |
| 94) T  | Hexachlorobutadie     | 0.898          | 0.942 | 0.758 | 0.742 | 0.695 | 0.886 | 0.820 | 12.32  |
| 95) T  | Naphthalene           | 2.204          | 2.322 | 2.017 | 2.073 | 2.030 | 2.290 | 2.156 | 6.22   |
| 96) T  | 1,2,3-Trichlorobe     | 1.343          | 1.365 | 1.118 | 1.035 | 1.021 | 1.268 | 1.192 | 12.89  |

(#) = Out of Range