

Method Path : Z:\VOASRV\HPCHEM1\MSVOA F\METHODS\  
 Method File : 82F082918S.M  
 Title : SW846 8260  
 Last Update : Wed Aug 29 03:22:03 2018  
 Response Via : Initial Calibration

## Calibration Files

5 =VF060166.D 20 =VF060168.D 50 =VF060169.D  
 100 =VF060171.D 150 =VF060172.D 10 =VF060167.D

|        | Compound            | 5              | 20    | 50    | 100   | 150   | 10    | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| -----  |                     |                |       |       |       |       |       |       |       |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 1.096          | 0.929 | 1.052 | 1.119 | 1.007 | 0.971 | 1.029 | 7.13  |
| 3) P   | Chloromethane       | 0.427          | 0.357 | 0.361 | 0.414 | 0.380 | 0.362 | 0.384 | 7.78  |
| 4) C   | Vinyl Chloride      | 0.370          | 0.381 | 0.374 | 0.395 | 0.405 | 0.382 | 0.384 | 3.40# |
| 5) T   | Bromomethane        | 0.195          | 0.161 | 0.179 | 0.236 | 0.210 | 0.171 | 0.192 | 14.35 |
| 6) T   | Chloroethane        | 0.210          | 0.233 | 0.232 | 0.244 | 0.244 | 0.215 | 0.230 | 6.17  |
| 7) T   | Trichlorofluorome   | 1.750          | 1.731 | 1.753 | 1.878 | 1.695 | 1.747 | 1.759 | 3.54  |
| 8) T   | Diethyl Ether       | 0.059          | 0.062 | 0.065 | 0.071 | 0.075 | 0.062 | 0.066 | 9.17  |
| 9) T   | 1,1,2-Trichlorotr   | 0.762          | 0.757 | 0.781 | 0.830 | 0.748 | 0.766 | 0.774 | 3.79  |
| 10) T  | Methyl Iodide       | 0.363          | 0.330 | 0.354 | 0.435 | 0.410 | 0.334 | 0.371 | 11.47 |
| 11) T  | Tert butyl alcoho   | 0.002          | 0.005 | 0.005 | 0.006 | 0.007 | 0.005 | 0.005 | 37.65 |
| 12) CM | 1,1-Dichloroethen   | 0.474          | 0.480 | 0.483 | 0.521 | 0.479 | 0.457 | 0.482 | 4.32# |
| 13) T  | Acrolein            | 0.005          | 0.007 | 0.007 | 0.006 | 0.007 | 0.008 | 0.007 | 14.85 |
| 14) T  | Allyl chloride      | 0.344          | 0.370 | 0.395 | 0.468 | 0.480 | 0.347 | 0.401 | 14.90 |
| 15) T  | Acrylonitrile       | 0.014          | 0.014 | 0.015 | 0.017 | 0.017 | 0.015 | 0.015 | 8.36  |
| 16) T  | Acetone             | 0.049          | 0.042 | 0.037 | 0.035 | 0.032 | 0.050 | 0.041 | 17.97 |
| 17) T  | Carbon Disulfide    | 1.427          | 1.374 | 1.459 | 1.546 | 1.381 | 1.314 | 1.417 | 5.66  |
| 18) T  | Methyl Acetate      | 0.187          | 0.087 | 0.055 | 0.067 | 0.079 | 0.107 | 0.097 | 49.22 |
| 19) T  | Methyl tert-butyl   | 0.327          | 0.338 | 0.328 | 0.388 | 0.394 | 0.357 | 0.355 | 8.40  |
| 20) T  | Methylene Chlorid   | 0.391          | 0.262 | 0.239 | 0.238 | 0.226 | 0.330 | 0.281 | 23.36 |
| 21) T  | trans-1,2-Dichlor   | 0.363          | 0.397 | 0.414 | 0.452 | 0.427 | 0.390 | 0.407 | 7.65  |
| 22) T  | Diisopropyl ether   | 0.591          | 0.708 | 0.629 | 0.722 | 0.708 | 0.597 | 0.659 | 9.12  |
| 23) T  | Vinyl Acetate       | 0.094          | 0.152 | 0.167 | 0.212 | 0.212 | 0.150 | 0.165 | 26.84 |
| 24) P  | 1,1-Dichloroethan   | 0.634          | 0.661 | 0.674 | 0.731 | 0.695 | 0.723 | 0.686 | 5.44  |
| 25) T  | 2-Butanone          | 0.029          | 0.039 | 0.037 | 0.039 | 0.040 | 0.036 | 0.037 | 10.95 |
| 26) T  | 2,2-Dichloropropa   | 0.354          | 0.429 | 0.504 | 0.574 | 0.584 | 0.488 | 0.489 | 17.88 |
| 27) T  | cis-1,2-Dichloroe   | 0.246          | 0.278 | 0.295 | 0.316 | 0.312 | 0.271 | 0.287 | 9.25  |
| 28) T  | Bromochloromethan   | 0.164          | 0.142 | 0.136 | 0.153 | 0.137 | 0.155 | 0.148 | 7.69  |
| 29)    | Tetrahydrofuran     | 0.007          | 0.016 | 0.019 | 0.019 | 0.020 | 0.020 | 0.017 | 30.75 |
| 30) C  | Chloroform          | 0.660          | 0.795 | 0.748 | 0.810 | 0.756 | 0.850 | 0.770 | 8.48# |
| 31) T  | Cyclohexane         | 0.564          | 0.589 | 0.701 | 0.777 | 0.744 | 0.572 | 0.658 | 14.35 |
| 32) T  | 1,1,1-Trichloroet   | 0.943          | 1.113 | 1.118 | 1.215 | 1.133 | 1.080 | 1.100 | 8.13  |
| 33) S  | 1,2-Dichloroethan   | 0.310          | 0.291 | 0.314 | 0.308 | 0.318 | 0.333 | 0.312 | 4.45  |
|        |                     |                |       |       |       |       |       |       |       |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.292          | 0.323 | 0.330 | 0.322 | 0.344 | 0.319 | 0.322 | 5.34  |
| 36) T  | 1,1-Dichloroprope   | 0.682          | 0.630 | 0.670 | 0.771 | 0.758 | 0.629 | 0.690 | 8.95  |
| 37) T  | Ethyl Acetate       | 0.045          | 0.080 | 0.079 | 0.095 | 0.099 | 0.098 | 0.083 | 24.68 |
| 38) T  | Carbon Tetrachlor   | 0.848          | 0.868 | 0.997 | 1.073 | 1.052 | 0.863 | 0.950 | 10.77 |
| 39) T  | Methylcyclohexane   | 0.578          | 0.632 | 0.728 | 0.737 | 0.776 | 0.559 | 0.668 | 13.60 |
| 40) TM | Benzene             | 0.958          | 0.914 | 0.902 | 0.974 | 1.009 | 0.878 | 0.939 | 5.27  |
| 41) T  | Methacrylonitrile   | 0.038          | 0.056 | 0.044 | 0.055 | 0.051 | 0.045 | 0.048 | 14.65 |
| 42) TM | 1,2-Dichloroethan   | 0.379          | 0.311 | 0.312 | 0.340 | 0.331 | 0.357 | 0.338 | 7.89  |
| 43) T  | Isopropyl Acetate   | 0.106          | 0.098 | 0.093 | 0.113 | 0.120 | 0.114 | 0.107 | 9.66  |
| 44) TM | Trichloroethene     | 0.406          | 0.424 | 0.402 | 0.410 | 0.413 | 0.363 | 0.403 | 5.18  |
| 45) C  | 1,2-Dichloropropa   | 0.185          | 0.180 | 0.195 | 0.215 | 0.214 | 0.203 | 0.199 | 7.29# |
| 46) T  | Dibromomethane      | 0.075          | 0.100 | 0.107 | 0.122 | 0.116 | 0.115 | 0.106 | 16.06 |
| 47) T  | Bromodichlorometh   | 0.354          | 0.381 | 0.376 | 0.421 | 0.416 | 0.401 | 0.392 | 6.55  |
| 48) T  | Methyl methacryla   | 0.123          | 0.073 | 0.075 | 0.087 | 0.080 | 0.095 | 0.089 | 20.77 |
| 49) T  | 1,4-Dioxane         | 0.000          | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 15.07 |
| 50) S  | Toluene-d8          | 0.983          | 1.070 | 1.105 | 1.197 | 1.182 | 1.064 | 1.100 | 7.27  |
| 51) T  | 4-Methyl-2-Pentan   | 0.080          | 0.096 | 0.085 | 0.103 | 0.105 | 0.093 | 0.094 | 10.63 |
| 52) CM | Toluene             | 0.701          | 0.737 | 0.734 | 0.773 | 0.718 | 0.692 | 0.726 | 4.03# |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.177          | 0.205 | 0.226 | 0.280 | 0.260 | 0.201 | 0.225 | 17.29 |
| 54) T  | cis-1,3-Dichlorop     | 0.225          | 0.258 | 0.278 | 0.352 | 0.366 | 0.275 | 0.292 | 18.91 |
| 55) T  | 1,1,2-Trichloroet     | 0.129          | 0.117 | 0.111 | 0.134 | 0.133 | 0.122 | 0.124 | 7.41  |
| 56) T  | Ethyl methacrylat     | 0.087          | 0.099 | 0.105 | 0.129 | 0.130 | 0.095 | 0.107 | 16.75 |
| 57) T  | 1,3-Dichloropropa     | 0.175          | 0.206 | 0.205 | 0.241 | 0.250 | 0.215 | 0.215 | 12.63 |
| 58) T  | 2-Chloroethyl Vin     | 0.027          | 0.031 | 0.031 | 0.031 | 0.030 | 0.030 | 0.030 | 4.80  |
| 59) T  | 2-Hexanone            | 0.054          | 0.060 | 0.061 | 0.076 | 0.079 | 0.064 | 0.066 | 14.90 |
| 60) T  | Dibromochlorometh     | 0.151          | 0.205 | 0.206 | 0.230 | 0.235 | 0.209 | 0.206 | 14.50 |
| 61) T  | 1,2-Dibromoethane     | 0.102          | 0.130 | 0.119 | 0.133 | 0.143 | 0.138 | 0.127 | 11.51 |
| 62) S  | 4-Bromofluorobenz     | 0.463          | 0.366 | 0.387 | 0.406 | 0.392 | 0.420 | 0.406 | 8.22  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.616          | 0.604 | 0.624 | 0.649 | 0.620 | 0.581 | 0.616 | 3.64  |
| 65) PM | Chlorobenzene         | 1.018          | 1.011 | 0.981 | 1.032 | 1.012 | 0.964 | 1.003 | 2.53  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.258          | 0.383 | 0.348 | 0.336 | 0.345 | 0.350 | 0.337 | 12.40 |
| 67) C  | Ethyl Benzene         | 2.220          | 2.327 | 2.416 | 2.343 | 2.252 | 2.144 | 2.284 | 4.26# |
| 68) T  | m/p-Xylenes           | 0.647          | 0.828 | 0.951 | 0.782 | 0.783 | 0.707 | 0.783 | 13.31 |
| 69) T  | o-Xylene              | 0.598          | 0.672 | 0.697 | 0.724 | 0.709 | 0.618 | 0.670 | 7.63  |
| 70) T  | Styrene               | 0.745          | 0.831 | 0.854 | 0.913 | 0.872 | 0.751 | 0.828 | 8.14  |
| 71) P  | Bromoform             | 0.083          | 0.131 | 0.129 | 0.136 | 0.136 | 0.094 | 0.118 | 19.74 |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 4.892          | 5.746 | 5.796 | 5.762 | 5.858 | 4.808 | 5.477 | 8.91  |
| 74) T  | N-amyl acetate        | 0.376          | 0.382 | 0.362 | 0.464 | 0.498 | 0.378 | 0.410 | 13.73 |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.383          | 0.376 | 0.338 | 0.361 | 0.383 | 0.364 | 0.367 | 4.67  |
| 76) T  | 1,2,3-Trichloropr     | 0.287          | 0.372 | 0.311 | 0.311 | 0.332 | 0.277 | 0.315 | 10.75 |
| 77) T  | Bromobenzene          | 0.688          | 0.847 | 0.795 | 0.851 | 0.847 | 0.756 | 0.797 | 8.23  |
| 78) T  | n-propylbenzene       | 6.209          | 6.902 | 6.871 | 6.909 | 6.941 | 5.709 | 6.590 | 7.81  |
| 79) T  | 2-Chlorotoluene       | 2.822          | 3.086 | 3.133 | 3.251 | 3.336 | 2.748 | 3.063 | 7.63  |
| 80) T  | 1,3,5-Trimethylbe     | 3.626          | 4.430 | 4.297 | 4.323 | 4.480 | 3.741 | 4.149 | 8.89  |
| 81) T  | trans-1,4-Dichlor     | 0.067          | 0.092 | 0.076 | 0.084 | 0.095 | 0.063 | 0.079 | 16.23 |
| 82) T  | 4-Chlorotoluene       | 2.671          | 3.270 | 3.027 | 3.194 | 3.084 | 2.783 | 3.005 | 7.78  |
| 83) T  | tert-Butylbenzene     | 3.689          | 4.607 | 4.338 | 4.679 | 4.718 | 4.059 | 4.348 | 9.38  |
| 84) T  | 1,2,4-Trimethylbe     | 3.006          | 3.466 | 3.726 | 3.965 | 3.827 | 3.199 | 3.532 | 10.63 |
| 85) T  | sec-Butylbenzene      | 5.987          | 6.835 | 6.796 | 6.704 | 6.801 | 5.934 | 6.510 | 6.58  |
| 86) T  | p-Isopropyltoluen     | 4.209          | 4.732 | 5.203 | 5.366 | 5.306 | 4.167 | 4.830 | 11.30 |
| 87) T  | 1,3-Dichlorobenze     | 1.850          | 1.811 | 1.696 | 1.661 | 1.639 | 1.570 | 1.705 | 6.25  |
| 88) T  | 1,4-Dichlorobenze     | 1.426          | 1.572 | 1.506 | 1.592 | 1.602 | 1.525 | 1.537 | 4.31  |
| 89) T  | n-Butylbenzene        | 3.109          | 3.617 | 4.492 | 4.991 | 4.912 | 3.589 | 4.118 | 19.06 |
| 90) T  | Hexachloroethane      | 0.923          | 1.074 | 1.093 | 1.091 | 1.107 | 0.928 | 1.036 | 8.32  |
| 91) T  | 1,2-Dichlorobenze     | 1.305          | 1.329 | 1.311 | 1.360 | 1.314 | 1.286 | 1.318 | 1.90  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.059          | 0.063 | 0.063 | 0.061 | 0.068 | 0.064 | 0.063 | 4.58  |
| 93) T  | 1,2,4-Trichlorobe     | 0.409          | 0.493 | 0.599 | 0.743 | 0.713 | 0.526 | 0.581 | 22.39 |
| 94) T  | Hexachlorobutadie     | 1.074          | 1.168 | 1.203 | 1.198 | 1.206 | 1.145 | 1.166 | 4.34  |
| 95) T  | Naphthalene           | 0.237          | 0.378 | 0.425 | 0.602 | 0.635 | 0.336 | 0.436 | 35.64 |
| 96) T  | 1,2,3-Trichlorobe     | 0.357          | 0.406 | 0.477 | 0.595 | 0.599 | 0.392 | 0.471 | 22.33 |

(#) = Out of Range