

Method Path : Z:\VOASRV\HPCHEM1\MSVOA F\METHODS\  
 Method File : 82F100118S.M  
 Title : SW846 8260  
 Last Update : Tue Oct 02 11:42:56 2018  
 Response Via : Initial Calibration

## Calibration Files

5 =VF060387.D 20 =VF060389.D 50 =VF060390.D  
 100 =VF060392.D 150 =VF060393.D 10 =VF060388.D

|        | Compound            | 5              | 20    | 50    | 100   | 150   | 10    | Avq   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| -----  |                     |                |       |       |       |       |       |       |        |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluorom   | 1.053          | 1.451 | 1.168 | 1.023 | 0.977 | 1.413 | 1.181 | 17.33  |
| 3) P   | Chloromethane       | 0.629          | 0.713 | 0.680 | 0.648 | 0.633 | 0.770 | 0.679 | 8.08   |
| 4) C   | Vinyl Chloride      | 0.693          | 0.750 | 0.712 | 0.677 | 0.663 | 0.743 | 0.706 | 5.00#  |
| 5) T   | Bromomethane        | 0.504          | 0.598 | 0.586 | 0.512 | 0.466 | 0.615 | 0.547 | 11.13  |
| 6) T   | Chloroethane        | 0.358          | 0.382 | 0.373 | 0.335 | 0.300 | 0.366 | 0.352 | 8.54   |
| 7) T   | Trichlorofluorome   | 1.535          | 1.802 | 1.759 | 1.543 | 1.367 | 1.825 | 1.639 | 11.25  |
| 8) T   | Diethyl Ether       | 0.240          | 0.229 | 0.212 | 0.218 | 0.206 | 0.243 | 0.225 | 6.87   |
| 9) T   | 1,1,2-Trichlorotr   | 0.832          | 0.811 | 0.794 | 0.720 | 0.680 | 0.874 | 0.785 | 9.20   |
| 10) T  | Methyl Iodide       | 1.128          | 1.282 | 1.202 | 1.172 | 1.137 | 1.261 | 1.197 | 5.33   |
| 11) T  | Tert butyl alcoho   | 0.058          | 0.040 | 0.047 | 0.047 | 0.046 | 0.045 | 0.047 | 12.80  |
| 12) CM | 1,1-Dichloroethen   | 0.621          | 0.666 | 0.600 | 0.571 | 0.557 | 0.624 | 0.606 | 6.54#  |
| 13) T  | Acrolein            | 0.043          | 0.040 | 0.039 | 0.037 | 0.035 | 0.036 | 0.038 | 7.92   |
| 14) T  | Allyl chloride      | 0.925          | 0.888 | 0.994 | 1.027 | 0.944 | 1.052 | 0.972 | 6.49   |
| 15) T  | Acrylonitrile       | 0.088          | 0.085 | 0.080 | 0.078 | 0.080 | 0.076 | 0.081 | 5.52   |
| 16) T  | Acetone             | 0.229          | 0.194 | 0.172 | 0.151 |       | 0.212 | 0.191 | 16.20  |
| 17) T  | Carbon Disulfide    | 1.831          | 1.978 | 1.866 | 1.759 | 1.682 | 1.903 | 1.837 | 5.73   |
| 18) T  | Methyl Acetate      | 0.429          | 0.301 | 0.291 | 0.282 | 0.290 | 0.365 | 0.326 | 17.92  |
| 19) T  | Methyl tert-butyl   | 1.430          | 1.552 | 1.526 | 1.408 | 1.407 | 1.541 | 1.477 | 4.68   |
| 20) T  | Methylene Chlorid   | 1.043          | 0.655 | 0.587 | 0.566 | 0.516 | 0.748 | 0.686 | 28.07  |
| 21) T  | trans-1,2-Dichlor   | 0.611          | 0.610 | 0.606 | 0.589 | 0.576 | 0.644 | 0.606 | 3.80   |
| 22) T  | Diisopropyl ether   | 1.859          | 1.845 | 1.746 | 1.671 | 1.664 | 1.799 | 1.764 | 4.79   |
| 23) T  | Vinyl Acetate       | 0.777          | 0.699 | 0.695 | 0.648 | 0.668 | 0.717 | 0.701 | 6.38   |
| 24) P  | 1,1-Dichloroethan   | 1.202          | 1.298 | 1.193 | 1.124 | 1.081 | 1.259 | 1.193 | 6.78   |
| 25) T  | 2-Butanone          | 0.237          | 0.206 | 0.188 | 0.182 | 0.180 | 0.223 | 0.203 | 11.54  |
| 26) T  | 2,2-Dichloropropa   | 0.751          | 0.700 | 0.696 | 0.610 | 0.562 | 0.734 | 0.676 | 10.92  |
| 27) T  | cis-1,2-Dichloroe   | 0.638          | 0.734 | 0.668 | 0.633 | 0.659 | 0.731 | 0.677 | 6.58   |
| 28) T  | Bromochloromethan   | 0.453          | 0.458 | 0.480 | 0.400 | 0.409 | 0.438 | 0.440 | 6.95   |
| 29)    | Tetrahydrofuran     | 0.113          | 0.075 | 0.077 | 0.075 | 0.076 | 0.075 | 0.082 | 18.71  |
| 30) C  | Chloroform          | 1.586          | 1.515 | 1.528 | 1.367 | 1.327 | 1.510 | 1.472 | 6.88#  |
| 31) T  | Cyclohexane         | 0.918          | 0.850 | 0.876 | 0.770 | 0.847 | 0.878 | 0.857 | 5.78   |
| 32) T  | 1,1,1-Trichloroet   | 1.301          | 1.177 | 1.309 | 1.159 | 1.078 | 1.325 | 1.225 | 8.26   |
| 33) S  | 1,2-Dichloroethan   | 0.844          | 0.752 | 0.825 | 0.737 | 0.720 | 0.817 | 0.782 | 6.69   |
|        |                     |                |       |       |       |       |       |       |        |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorometh   | 0.495          | 0.469 | 0.486 | 0.455 | 0.420 | 0.493 | 0.470 | 6.10   |
| 36) T  | 1,1-Dichloroprope   | 0.615          | 0.681 | 0.622 | 0.592 | 0.547 | 0.642 | 0.616 | 7.38   |
| 37) T  | Ethyl Acetate       | 0.250          | 0.233 | 0.222 | 0.235 | 0.208 | 0.268 | 0.236 | 8.90   |
| 38) T  | Carbon Tetrachlor   | 0.766          | 0.764 | 0.788 | 0.739 | 0.650 | 0.795 | 0.750 | 7.07   |
| 39) T  | Methylcyclohexane   | 0.650          | 0.677 | 0.555 | 0.567 | 0.534 | 0.643 | 0.604 | 9.87   |
| 40) TM | Benzene             | 1.285          | 1.331 | 1.150 | 1.140 | 1.103 | 1.334 | 1.224 | 8.50   |
| 41) T  | Methacrylonitrile   | 0.150          | 0.119 | 0.115 | 0.121 | 0.118 | 0.128 | 0.125 | 10.16  |
| 42) TM | 1,2-Dichloroethan   | 0.607          | 0.626 | 0.583 | 0.570 | 0.517 | 0.599 | 0.584 | 6.47   |
| 43) T  | Isopropyl Acetate   | 0.323          | 0.255 | 0.265 | 0.296 | 0.282 | 0.290 | 0.285 | 8.38   |
| 44) TM | Trichloroethene     | 0.431          | 0.434 | 0.367 | 0.365 | 0.336 | 0.423 | 0.393 | 10.65  |
| 45) C  | 1,2-Dichloropropa   | 0.348          | 0.332 | 0.316 | 0.312 | 0.302 | 0.345 | 0.326 | 5.72#  |
| 46) T  | Dibromomethane      | 0.280          | 0.274 | 0.261 | 0.253 | 0.230 | 0.274 | 0.262 | 7.14   |
| 47) T  | Bromodichlorometh   | 0.714          | 0.705 | 0.642 | 0.629 | 0.558 | 0.645 | 0.649 | 8.75   |
| 48) T  | Methyl methacryla   | 0.214          | 0.205 | 0.199 | 0.207 | 0.186 | 0.218 | 0.205 | 5.52   |
| 49) T  | 1,4-Dioxane         | 0.001          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 9.91   |
| 50) S  | Toluene-d8          | 1.202          | 1.152 | 1.207 | 1.105 | 1.022 | 1.252 | 1.157 | 7.18   |
| 51) T  | 4-Methyl-2-Pentan   | 0.249          | 0.196 | 0.188 | 0.191 | 0.179 | 0.216 | 0.203 | 12.68  |
| 52) CM | Toluene             | 0.924          | 0.869 | 0.768 | 0.774 | 0.721 | 0.930 | 0.831 | 10.66# |

Method Path : Z:\V0ASRV\HPCHEM1\MSVOA F\METHODS\  
 Method File : 82F100118S.M  
 Title : SW846 8260  
 Last Update : Tue Oct 02 11:42:56 2018  
 Response Via : Initial Calibration

## Calibration Files

5 =VF060387.D 20 =VF060389.D 50 =VF060390.D  
 100 =VF060392.D 150 =VF060393.D 10 =VF060388.D

|        | Compound              | 5              | 20    | 50    | 100   | 150   | 10    | Avg   | %RSD   |
|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 53) T  | t-1,3-Dichloropro     | 0.588          | 0.497 | 0.480 | 0.482 | 0.446 | 0.558 | 0.509 | 10.56  |
| 54) T  | cis-1,3-Dichlorop     | 0.648          | 0.606 | 0.606 | 0.561 | 0.519 | 0.625 | 0.594 | 7.86   |
| 55) T  | 1,1,2-Trichloroet     | 0.291          | 0.257 | 0.251 | 0.261 | 0.234 | 0.287 | 0.263 | 8.19   |
| 56) T  | Ethyl methacrylat     | 0.324          | 0.276 | 0.281 | 0.301 | 0.280 | 0.335 | 0.299 | 8.35   |
| 57) T  | 1,3-Dichloropropa     | 0.482          | 0.436 | 0.424 | 0.440 | 0.399 | 0.494 | 0.446 | 8.01   |
| 58) T  | 2-Chloroethyl Vin     | 0.031          | 0.036 | 0.029 | 0.028 | 0.025 | 0.034 | 0.031 | 13.38  |
| 59) T  | 2-Hexanone            | 0.179          | 0.146 | 0.130 | 0.138 | 0.127 | 0.174 | 0.149 | 15.01  |
| 60) T  | Dibromochlorometh     | 0.390          | 0.410 | 0.398 | 0.407 | 0.370 | 0.404 | 0.397 | 3.74   |
| 61) T  | 1,2-Dibromoethane     | 0.300          | 0.294 | 0.283 | 0.287 | 0.273 | 0.295 | 0.288 | 3.39   |
| 62) S  | 4-Bromofluorobenz     | 0.578          | 0.524 | 0.532 | 0.498 | 0.449 | 0.588 | 0.528 | 9.78   |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |        |
| 64) T  | Tetrachloroethene     | 0.447          | 0.413 | 0.391 | 0.367 | 0.354 | 0.414 | 0.397 | 8.59   |
| 65) PM | Chlorobenzene         | 1.059          | 1.053 | 1.015 | 0.991 | 0.948 | 1.097 | 1.027 | 5.18   |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.472          | 0.484 | 0.452 | 0.413 | 0.402 | 0.468 | 0.448 | 7.46   |
| 67) C  | Ethyl Benzene         | 2.235          | 2.035 | 1.924 | 1.742 | 1.659 | 2.122 | 1.953 | 11.37# |
| 68) T  | m/p-Xylenes           | 0.725          | 0.703 | 0.643 | 0.604 | 0.591 | 0.761 | 0.671 | 10.27  |
| 69) T  | o-Xylene              | 0.770          | 0.772 | 0.736 | 0.683 | 0.664 | 0.766 | 0.732 | 6.45   |
| 70) T  | Styrene               | 1.146          | 1.078 | 1.007 | 0.939 | 0.937 | 1.138 | 1.041 | 9.04   |
| 71) P  | Bromoform             | 0.248          | 0.237 | 0.246 | 0.238 | 0.237 | 0.226 | 0.239 | 3.34   |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |        |
| 73) T  | Isopropylbenzene      | 4.159          | 4.239 | 3.795 | 3.603 | 3.455 | 4.370 | 3.937 | 9.45   |
| 74) T  | N-amyl acetate        | 0.945          | 0.854 | 0.849 | 0.931 | 0.915 | 0.928 | 0.904 | 4.58   |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.751          | 0.743 | 0.693 | 0.696 | 0.672 | 0.752 | 0.718 | 4.88   |
| 76) T  | 1,2,3-Trichloropr     | 0.556          | 0.520 | 0.510 | 0.523 | 0.495 | 0.567 | 0.528 | 5.24   |
| 77) T  | Bromobenzene          | 0.937          | 0.883 | 0.840 | 0.819 | 0.822 | 0.979 | 0.880 | 7.50   |
| 78) T  | n-propylbenzene       | 5.381          | 4.984 | 4.673 | 4.330 | 3.835 | 5.433 | 4.773 | 13.04  |
| 79) T  | 2-Chlorotoluene       | 2.822          | 3.023 | 2.734 | 2.567 | 2.409 | 3.195 | 2.792 | 10.35  |
| 80) T  | 1,3,5-Trimethylbe     | 3.642          | 3.620 | 3.265 | 2.999 | 2.768 | 3.776 | 3.345 | 12.02  |
| 81) T  | trans-1,4-Dichlor     | 0.221          | 0.210 | 0.239 | 0.230 | 0.267 | 0.240 | 0.234 | 8.37   |
| 82) T  | 4-Chlorotoluene       | 3.206          | 2.855 | 2.740 | 2.678 | 2.465 | 3.195 | 2.857 | 10.34  |
| 83) T  | tert-Butylbenzene     | 3.380          | 3.595 | 3.309 | 3.025 | 2.711 | 3.774 | 3.299 | 11.67  |
| 84) T  | 1,2,4-Trimethylbe     | 3.413          | 3.538 | 3.250 | 3.073 | 2.851 | 3.778 | 3.317 | 10.02  |
| 85) T  | sec-Butylbenzene      | 4.980          | 4.714 | 4.458 | 4.149 | 3.745 | 5.276 | 4.554 | 12.25  |
| 86) T  | p-Isopropyltoluen     | 4.098          | 3.985 | 3.649 | 3.264 | 3.023 | 4.303 | 3.720 | 13.45  |
| 87) T  | 1,3-Dichlorobenze     | 1.812          | 1.658 | 1.584 | 1.520 | 1.455 | 1.906 | 1.656 | 10.49  |
| 88) T  | 1,4-Dichlorobenze     | 1.806          | 1.689 | 1.582 | 1.478 | 1.443 | 1.800 | 1.633 | 9.62   |
| 89) T  | n-Butylbenzene        | 4.262          | 4.195 | 3.961 | 3.534 | 3.096 | 4.573 | 3.937 | 13.67  |
| 90) T  | Hexachloroethane      | 0.949          | 1.028 | 0.977 | 0.920 | 0.876 | 1.019 | 0.962 | 6.10   |
| 91) T  | 1,2-Dichlorobenze     | 1.731          | 1.612 | 1.540 | 1.488 | 1.395 | 1.754 | 1.587 | 8.83   |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.141          | 0.138 | 0.133 | 0.151 | 0.149 | 0.123 | 0.139 | 7.49   |
| 93) T  | 1,2,4-Trichlorobe     | 1.283          | 1.224 | 1.154 | 1.131 | 1.039 | 1.285 | 1.186 | 8.12   |
| 94) T  | Hexachlorobutadie     | 0.834          | 0.884 | 0.806 | 0.790 | 0.741 | 0.912 | 0.828 | 7.59   |
| 95) T  | Naphthalene           | 1.921          | 2.092 | 2.120 | 2.247 | 2.194 | 2.148 | 2.120 | 5.28   |
| 96) T  | 1,2,3-Trichlorobe     | 1.108          | 1.173 | 1.113 | 1.098 | 1.030 | 1.148 | 1.112 | 4.41   |

(#) = Out of Range