

Method Path : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\  
 Method File : 82F060618S.M  
 Title : SW846 8260  
 Last Update : Thu Jun 07 07:15:01 2018  
 Response Via : Initial Calibration

## Calibration Files

5 =VF058109.D 20 =VF058111.D 50 =VF058112.D  
 100 =VF058114.D 150 =VF058115.D 10 =VF058110.D

|        | Compound            | 5              | 20    | 50    | 100   | 150   | 10    | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| -----  |                     |                |       |       |       |       |       |       |       |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 0.591          | 0.592 | 0.551 | 0.555 | 0.554 | 0.553 | 0.566 | 3.51  |
| 3) P   | Chloromethane       | 0.488          | 0.423 | 0.444 | 0.407 | 0.428 | 0.440 | 0.438 | 6.33  |
| 4) C   | Vinyl Chloride      | 0.396          | 0.384 | 0.402 | 0.395 | 0.417 | 0.379 | 0.395 | 3.35# |
| 5) T   | Bromomethane        | 0.249          | 0.216 | 0.224 | 0.226 | 0.231 | 0.236 | 0.230 | 4.87  |
| 6) T   | Chloroethane        | 0.147          | 0.161 | 0.172 | 0.169 | 0.164 | 0.172 | 0.164 | 5.85  |
| 7) T   | Trichlorofluorome   | 0.564          | 0.608 | 0.657 | 0.652 | 0.617 | 0.590 | 0.615 | 5.82  |
| 8) T   | Diethyl Ether       | 0.183          | 0.145 | 0.155 | 0.150 | 0.146 | 0.148 | 0.155 | 9.12  |
| 9) T   | 1,1,2-Trichlorotr   | 0.434          | 0.383 | 0.394 | 0.373 | 0.345 | 0.422 | 0.392 | 8.27  |
| 10) T  | Methyl Iodide       | 0.736          | 0.681 | 0.703 | 0.681 | 0.648 | 0.665 | 0.686 | 4.49  |
| 11) T  | Tert butyl alcoho   | 0.047          | 0.036 | 0.037 | 0.040 | 0.035 | 0.038 | 0.039 | 11.60 |
| 12) CM | 1,1-Dichloroethen   | 0.358          | 0.328 | 0.343 | 0.332 | 0.306 | 0.310 | 0.329 | 6.04# |
| 13) T  | Acrolein            | 0.040          | 0.037 | 0.029 | 0.032 | 0.032 | 0.032 | 0.034 | 12.82 |
| 14) T  | Allyl chloride      | 0.758          | 0.642 | 0.633 | 0.625 | 0.619 | 0.603 | 0.647 | 8.69  |
| 15) T  | Acrylonitrile       | 0.072          | 0.076 | 0.084 | 0.087 | 0.075 | 0.070 | 0.077 | 8.72  |
| 16) T  | Acetone             | 0.153          | 0.141 | 0.144 | 0.152 | 0.137 | 0.143 | 0.145 | 4.29  |
| 17) T  | Carbon Disulfide    | 0.977          | 0.894 | 0.955 | 0.955 | 0.927 | 0.843 | 0.925 | 5.32  |
| 18) T  | Methyl Acetate      | 0.369          | 0.229 | 0.233 | 0.254 | 0.250 | 0.231 | 0.261 | 20.64 |
| 19) T  | Methyl tert-butyl   | 1.075          | 1.027 | 1.024 | 1.063 | 0.971 | 0.976 | 1.023 | 4.23  |
| 20) T  | Methylene Chlorid   | 0.413          | 0.335 | 0.331 | 0.321 | 0.313 | 0.367 | 0.347 | 10.84 |
| 21) T  | trans-1,2-Dichlor   | 0.414          | 0.361 | 0.357 | 0.352 | 0.340 | 0.343 | 0.361 | 7.50  |
| 22) T  | Diisopropyl ether   | 1.386          | 1.270 | 1.217 | 1.294 | 1.229 | 1.231 | 1.271 | 4.96  |
| 23) T  | Vinyl Acetate       | 0.857          | 0.896 | 0.849 | 0.836 | 0.760 | 0.830 | 0.838 | 5.34  |
| 24) P  | 1,1-Dichloroethan   | 0.805          | 0.793 | 0.744 | 0.785 | 0.731 | 0.765 | 0.771 | 3.74  |
| 25) T  | 2-Butanone          | 0.251          | 0.222 | 0.208 | 0.226 | 0.210 | 0.230 | 0.224 | 7.13  |
| 26) T  | 2,2-Dichloropropa   | 0.630          | 0.571 | 0.555 | 0.527 | 0.482 | 0.591 | 0.559 | 9.20  |
| 27) T  | cis-1,2-Dichloroe   | 0.583          | 0.581 | 0.562 | 0.549 | 0.520 | 0.541 | 0.556 | 4.36  |
| 28) T  | Bromochloromethan   | 0.342          | 0.386 | 0.322 | 0.334 | 0.309 | 0.388 | 0.347 | 9.52  |
| 29)    | Tetrahydrofuran     | 0.103          | 0.102 | 0.096 | 0.100 | 0.094 | 0.099 | 0.099 | 3.53  |
| 30) C  | Chloroform          | 1.162          | 1.133 | 1.117 | 1.080 | 1.020 | 1.102 | 1.102 | 4.43# |
| 31) T  | Cyclohexane         | 0.764          | 0.658 | 0.669 | 0.641 | 0.632 | 0.676 | 0.673 | 7.06  |
| 32) T  | 1,1,1-Trichloroet   | 0.872          | 0.862 | 0.830 | 0.790 | 0.768 | 0.817 | 0.823 | 4.90  |
| 33) S  | 1,2-Dichloroethan   | 0.620          | 0.579 | 0.609 | 0.636 | 0.596 | 0.598 | 0.606 | 3.29  |
| -----  |                     |                |       |       |       |       |       |       |       |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.375          | 0.357 | 0.382 | 0.340 | 0.322 | 0.328 | 0.351 | 7.05  |
| 36) T  | 1,1-Dichloroprope   | 0.539          | 0.471 | 0.516 | 0.463 | 0.447 | 0.471 | 0.485 | 7.27  |
| 37) T  | Ethyl Acetate       | 0.339          | 0.324 | 0.291 | 0.296 | 0.272 | 0.275 | 0.299 | 8.96  |
| 38) T  | Carbon Tetrachlor   | 0.523          | 0.545 | 0.575 | 0.515 | 0.487 | 0.506 | 0.525 | 5.91  |
| 39) T  | Methylcyclohexane   | 0.565          | 0.482 | 0.535 | 0.469 | 0.436 | 0.477 | 0.494 | 9.57  |
| 40) TM | Benzene             | 1.308          | 1.131 | 1.156 | 1.071 | 1.004 | 1.078 | 1.125 | 9.26  |
| 41) T  | Methacrylonitrile   | 0.157          | 0.146 | 0.149 | 0.152 | 0.142 | 0.137 | 0.147 | 5.05  |
| 42) TM | 1,2-Dichloroethan   | 0.501          | 0.514 | 0.537 | 0.511 | 0.472 | 0.492 | 0.505 | 4.33  |
| 43) T  | Isopropyl Acetate   | 0.441          | 0.377 | 0.387 | 0.418 | 0.396 | 0.386 | 0.401 | 6.00  |
| 44) TM | Trichloroethene     | 0.394          | 0.352 | 0.357 | 0.333 | 0.315 | 0.358 | 0.351 | 7.60  |
| 45) C  | 1,2-Dichloropropa   | 0.354          | 0.334 | 0.335 | 0.308 | 0.291 | 0.325 | 0.324 | 6.86# |
| 46) T  | Dibromomethane      | 0.245          | 0.242 | 0.262 | 0.250 | 0.230 | 0.236 | 0.244 | 4.55  |
| 47) T  | Bromodichlorometh   | 0.595          | 0.561 | 0.592 | 0.543 | 0.493 | 0.546 | 0.555 | 6.82  |
| 48) T  | Methyl methacryla   | 0.236          | 0.242 | 0.258 | 0.260 | 0.246 | 0.241 | 0.247 | 3.90  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.001 | 0.002 | 0.002 | 15.15 |
| 50) S  | Toluene-d8          | 1.149          | 1.005 | 1.129 | 0.977 | 0.926 | 0.998 | 1.031 | 8.60  |
| 51) T  | 4-Methyl-2-Pentan   | 0.327          | 0.279 | 0.267 | 0.262 | 0.229 | 0.284 | 0.275 | 11.73 |
| 52) CM | Toluene             | 0.919          | 0.815 | 0.831 | 0.753 | 0.705 | 0.838 | 0.810 | 9.15# |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.621          | 0.543 | 0.523 | 0.520 | 0.481 | 0.538 | 0.538 | 8.59  |
| 54) T  | cis-1,3-Dichlorop     | 0.645          | 0.653 | 0.640 | 0.599 | 0.564 | 0.605 | 0.618 | 5.54  |
| 55) T  | 1,1,2-Trichloroet     | 0.304          | 0.307 | 0.309 | 0.287 | 0.270 | 0.285 | 0.294 | 5.26  |
| 56) T  | Ethyl methacrylat     | 0.381          | 0.367 | 0.371 | 0.384 | 0.359 | 0.359 | 0.370 | 2.84  |
| 57) T  | 1,3-Dichloropropa     | 0.526          | 0.524 | 0.528 | 0.492 | 0.466 | 0.478 | 0.502 | 5.42  |
| 58) T  | 2-Chloroethyl Vin     | 0.030          | 0.027 | 0.026 | 0.024 | 0.023 | 0.029 | 0.026 | 9.74  |
| 59) T  | 2-Hexanone            | 0.269          | 0.216 | 0.209 | 0.209 | 0.181 | 0.220 | 0.217 | 13.19 |
| 60) T  | Dibromochlorometh     | 0.429          | 0.430 | 0.446 | 0.428 | 0.396 | 0.402 | 0.422 | 4.49  |
| 61) T  | 1,2-Dibromoethane     | 0.358          | 0.346 | 0.353 | 0.347 | 0.324 | 0.317 | 0.341 | 4.83  |
| 62) S  | 4-Bromofluorobenz     | 0.615          | 0.531 | 0.540 | 0.491 | 0.447 | 0.547 | 0.529 | 10.68 |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.412          | 0.355 | 0.372 | 0.353 | 0.334 | 0.375 | 0.367 | 7.27  |
| 65) PM | Chlorobenzene         | 1.065          | 1.020 | 0.988 | 0.952 | 0.913 | 1.003 | 0.990 | 5.33  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.415          | 0.415 | 0.388 | 0.379 | 0.357 | 0.409 | 0.394 | 5.86  |
| 67) C  | Ethyl Benzene         | 1.874          | 1.799 | 1.748 | 1.604 | 1.456 | 1.841 | 1.720 | 9.31# |
| 68) T  | m/p-Xylenes           | 0.715          | 0.694 | 0.596 | 0.575 | 0.544 | 0.740 | 0.644 | 12.80 |
| 69) T  | o-Xylene              | 0.767          | 0.730 | 0.689 | 0.667 | 0.607 | 0.717 | 0.696 | 7.99  |
| 70) T  | Styrene               | 1.186          | 1.097 | 1.042 | 0.982 | 0.916 | 1.096 | 1.053 | 9.04  |
| 71) P  | Bromoform             | 0.259          | 0.271 | 0.267 | 0.279 | 0.267 | 0.261 | 0.267 | 2.72  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.892          | 3.644 | 3.519 | 3.181 | 2.882 | 3.653 | 3.462 | 10.60 |
| 74) T  | N-amyl acetate        | 1.347          | 1.306 | 1.186 | 1.214 | 1.110 | 1.257 | 1.237 | 6.91  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.906          | 0.847 | 0.797 | 0.797 | 0.750 | 0.828 | 0.821 | 6.47  |
| 76) T  | 1,2,3-Trichloropr     | 0.648          | 0.619 | 0.582 | 0.598 | 0.559 | 0.630 | 0.606 | 5.43  |
| 77) T  | Bromobenzene          | 0.928          | 0.901 | 0.874 | 0.838 | 0.801 | 0.885 | 0.871 | 5.23  |
| 78) T  | n-propylbenzene       | 4.722          | 4.277 | 4.146 | 3.685 | 3.330 | 4.424 | 4.097 | 12.39 |
| 79) T  | 2-Chlorotoluene       | 2.767          | 2.530 | 2.405 | 2.184 | 2.081 | 2.556 | 2.421 | 10.47 |
| 80) T  | 1,3,5-Trimethylbe     | 3.280          | 2.997 | 2.914 | 2.558 | 2.378 | 3.063 | 2.865 | 11.71 |
| 81) T  | trans-1,4-Dichlor     | 0.438          | 0.396 | 0.373 | 0.404 | 0.370 | 0.377 | 0.393 | 6.59  |
| 82) T  | 4-Chlorotoluene       | 2.947          | 2.692 | 2.555 | 2.366 | 2.202 | 2.699 | 2.577 | 10.28 |
| 83) T  | tert-Butylbenzene     | 3.272          | 3.074 | 2.947 | 2.527 | 2.252 | 2.997 | 2.845 | 13.35 |
| 84) T  | 1,2,4-Trimethylbe     | 3.382          | 3.085 | 3.125 | 2.593 | 2.443 | 3.184 | 2.969 | 12.36 |
| 85) T  | sec-Butylbenzene      | 4.567          | 4.004 | 3.929 | 3.418 | 3.188 | 4.087 | 3.866 | 12.79 |
| 86) T  | p-Isopropyltoluen     | 3.524          | 3.405 | 3.335 | 2.885 | 2.544 | 3.358 | 3.175 | 11.93 |
| 87) T  | 1,3-Dichlorobenze     | 1.883          | 1.680 | 1.589 | 1.462 | 1.310 | 1.729 | 1.608 | 12.62 |
| 88) T  | 1,4-Dichlorobenze     | 1.704          | 1.622 | 1.562 | 1.476 | 1.355 | 1.582 | 1.550 | 7.83  |
| 89) T  | n-Butylbenzene        | 3.883          | 3.681 | 3.453 | 2.806 | 2.519 | 3.609 | 3.325 | 16.21 |
| 90) T  | Hexachloroethane      | 0.826          | 0.830 | 0.805 | 0.752 | 0.688 | 0.790 | 0.782 | 6.93  |
| 91) T  | 1,2-Dichlorobenze     | 1.727          | 1.608 | 1.525 | 1.465 | 1.327 | 1.645 | 1.550 | 9.20  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.149          | 0.164 | 0.166 | 0.172 | 0.161 | 0.154 | 0.161 | 5.15  |
| 93) T  | 1,2,4-Trichlorobe     | 1.178          | 1.136 | 1.099 | 1.039 | 0.899 | 1.151 | 1.084 | 9.47  |
| 94) T  | Hexachlorobutadie     | 0.679          | 0.640 | 0.661 | 0.588 | 0.544 | 0.651 | 0.627 | 8.17  |
| 95) T  | Naphthalene           | 2.356          | 2.355 | 2.346 | 2.399 | 2.213 | 2.222 | 2.315 | 3.36  |
| 96) T  | 1,2,3-Trichlorobe     | 1.030          | 1.057 | 1.064 | 1.001 | 0.914 | 0.943 | 1.002 | 6.13  |

(#) = Out of Range