

Method Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\  
 Method File : 82W110918S.M  
 Title : SW846 8260  
 Last Update : Mon Nov 12 00:52:45 2018  
 Response Via : Initial Calibration

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BFB

## Calibration Files

10 =VW006783.D 5 =VW006782.D 20 =VW006784.D  
 50 =VW006785.D 100 =VW006787.D 150 =VW006788.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 0.492          | 0.361 | 0.469 | 0.374 | 0.393 | 0.351 | 0.407 | 14.63 |
| 3) P   | Chloromethane       | 0.557          | 0.478 | 0.545 | 0.457 | 0.468 | 0.424 | 0.488 | 10.70 |
| 4) C   | Vinyl Chloride      | 0.575          | 0.504 | 0.565 | 0.491 | 0.498 | 0.446 | 0.513 | 9.50# |
| 5) T   | Bromomethane        | 0.412          | 0.380 | 0.366 | 0.340 | 0.316 | 0.261 | 0.346 | 15.31 |
| 6) T   | Chloroethane        | 0.381          | 0.360 | 0.361 | 0.309 | 0.318 | 0.285 | 0.336 | 11.05 |
| 7) T   | Trichlorofluorome   | 0.704          | 0.651 | 0.688 | 0.586 | 0.640 | 0.599 | 0.645 | 7.26  |
| 8) T   | Diethyl Ether       | 0.190          | 0.193 | 0.198 | 0.168 | 0.191 | 0.185 | 0.188 | 5.69  |
| 9) T   | 1,1,2-Trichlorotr   | 0.472          | 0.468 | 0.457 | 0.383 | 0.407 | 0.383 | 0.428 | 9.83  |
| 10) T  | Methyl Iodide       | 0.600          | 0.543 | 0.619 | 0.589 | 0.638 | 0.581 | 0.595 | 5.53  |
| 11) T  | Tert butyl alcoho   | 0.025          | 0.024 | 0.023 | 0.021 | 0.026 | 0.025 | 0.024 | 6.67  |
| 12) CM | 1,1-Dichloroethen   | 0.371          | 0.342 | 0.380 | 0.330 | 0.371 | 0.349 | 0.357 | 5.50# |
| 13) T  | Acrolein            | 0.025          | 0.024 | 0.026 | 0.023 | 0.027 | 0.026 | 0.025 | 6.14  |
| 14) T  | Allyl chloride      | 0.485          | 0.471 | 0.502 | 0.448 | 0.503 | 0.480 | 0.481 | 4.31  |
| 15) T  | Acrylonitrile       | 0.076          | 0.069 | 0.076 | 0.071 | 0.081 | 0.076 | 0.075 | 5.75  |
| 16) T  | Acetone             | 0.055          | 0.063 | 0.052 | 0.045 | 0.053 | 0.051 | 0.053 | 11.07 |
| 17) T  | Carbon Disulfide    | 1.196          | 1.105 | 1.227 | 1.141 | 1.243 | 1.158 | 1.178 | 4.51  |
| 18) T  | Methyl Acetate      | 0.187          | 0.224 | 0.181 | 0.159 | 0.188 | 0.179 | 0.186 | 11.41 |
| 19) T  | Methyl tert-butyl   | 0.881          | 0.811 | 0.949 | 0.822 | 0.920 | 0.866 | 0.875 | 6.16  |
| 20) T  | Methylene Chlorid   | 0.595          | 0.699 | 0.521 | 0.437 | 0.431 | 0.393 | 0.513 | 22.80 |
| 21) T  | trans-1,2-Dichlor   | 0.452          | 0.430 | 0.451 | 0.392 | 0.429 | 0.410 | 0.427 | 5.42  |
| 22) T  | Diisopropyl ether   | 1.009          | 0.932 | 1.109 | 0.966 | 1.063 | 1.009 | 1.015 | 6.31  |
| 23) T  | Vinyl Acetate       | 0.578          | 0.493 | 0.631 | 0.555 | 0.624 | 0.591 | 0.579 | 8.74  |
| 24) P  | 1,1-Dichloroethan   | 0.685          | 0.666 | 0.699 | 0.618 | 0.671 | 0.643 | 0.664 | 4.43  |
| 25) T  | 2-Butanone          | 0.090          | 0.086 | 0.092 | 0.081 | 0.091 | 0.086 | 0.088 | 4.80  |
| 26) T  | 2,2-Dichloropropa   | 0.688          | 0.697 | 0.673 | 0.573 | 0.604 | 0.559 | 0.632 | 9.63  |
| 27) T  | cis-1,2-Dichloroe   | 0.474          | 0.452 | 0.487 | 0.421 | 0.468 | 0.447 | 0.458 | 5.10  |
| 28) T  | Bromochloromethan   | 0.250          | 0.256 | 0.253 | 0.235 | 0.251 | 0.248 | 0.249 | 2.97  |
| 29) T  | Tetrahydrofuran     | 0.059          | 0.054 | 0.058 | 0.053 | 0.062 | 0.059 | 0.057 | 5.52  |
| 30) C  | Chloroform          | 0.767          | 0.778 | 0.771 | 0.673 | 0.729 | 0.696 | 0.736 | 5.95# |
| 31) T  | Cyclohexane         | 0.751          | 0.778 | 0.740 | 0.620 | 0.636 | 0.576 | 0.684 | 12.16 |
| 32) T  | 1,1,1-Trichloroet   | 0.757          | 0.740 | 0.754 | 0.642 | 0.669 | 0.627 | 0.698 | 8.45  |
| 33) S  | 1,2-Dichloroethan   | 0.399          | 0.404 | 0.385 | 0.320 | 0.337 | 0.354 | 0.366 | 9.43  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.304          | 0.290 | 0.292 | 0.261 | 0.275 | 0.286 | 0.285 | 5.25  |
| 36) T  | 1,1-Dichloroprope   | 0.480          | 0.461 | 0.503 | 0.429 | 0.448 | 0.401 | 0.454 | 8.00  |
| 37) T  | Ethyl Acetate       | 0.174          | 0.162 | 0.166 | 0.147 | 0.165 | 0.152 | 0.161 | 6.11  |
| 38) T  | Carbon Tetrachlor   | 0.520          | 0.515 | 0.525 | 0.448 | 0.471 | 0.431 | 0.485 | 8.38  |
| 39) T  | Methylcyclohexane   | 0.579          | 0.548 | 0.593 | 0.566 | 0.620 | 0.560 | 0.578 | 4.46  |
| 40) TM | Benzene             | 1.334          | 1.294 | 1.372 | 1.223 | 1.296 | 1.168 | 1.281 | 5.80  |
| 41) T  | Methacrylonitrile   | 0.097          | 0.085 | 0.096 | 0.081 | 0.103 | 0.098 | 0.093 | 9.04  |
| 42) TM | 1,2-Dichloroethan   | 0.368          | 0.369 | 0.371 | 0.324 | 0.343 | 0.318 | 0.349 | 6.88  |
| 43) T  | Isopropyl Acetate   | 0.296          | 0.287 | 0.307 | 0.283 | 0.328 | 0.310 | 0.302 | 5.58  |
| 44) TM | Trichloroethene     | 0.409          | 0.403 | 0.435 | 0.371 | 0.391 | 0.355 | 0.394 | 7.16  |
| 45) C  | 1,2-Dichloropropa   | 0.316          | 0.312 | 0.327 | 0.282 | 0.298 | 0.270 | 0.301 | 7.25# |
| 46) T  | Dibromomethane      | 0.178          | 0.170 | 0.177 | 0.160 | 0.169 | 0.160 | 0.169 | 4.59  |
| 47) T  | Bromodichlorometh   | 0.425          | 0.427 | 0.442 | 0.384 | 0.407 | 0.375 | 0.410 | 6.41  |
| 48) T  | Methyl methacryla   | 0.139          | 0.125 | 0.144 | 0.139 | 0.160 | 0.148 | 0.142 | 8.03  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 | 0.003 | 4.52  |
| 50) S  | Toluene-d8          | 1.285          | 1.233 | 1.235 | 1.136 | 1.153 | 1.143 | 1.198 | 5.15  |
| 51) T  | 4-Methyl-2-Pentan   | 0.156          | 0.146 | 0.155 | 0.152 | 0.169 | 0.154 | 0.155 | 4.97  |
| 52) CM | Toluene             | 0.925          | 0.881 | 0.934 | 0.897 | 0.929 | 0.838 | 0.901 | 4.11# |
| 53) T  | t-1,3-Dichloropro   | 0.386          | 0.356 | 0.419 | 0.390 | 0.433 | 0.401 | 0.397 | 6.85  |
| 54) T  | cis-1,3-Dichlorop   | 0.471          | 0.448 | 0.508 | 0.450 | 0.495 | 0.455 | 0.471 | 5.30  |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 55) T  | 1,1,2-Trichloroet     | 0.252          | 0.260 | 0.257 | 0.234 | 0.257 | 0.233 | 0.249 | 4.92  |
| 56) T  | Ethyl methacrylat     | 0.256          | 0.234 | 0.268 | 0.285 | 0.314 | 0.292 | 0.275 | 10.30 |
| 57) T  | 1,3-Dichloropropa     | 0.401          | 0.397 | 0.424 | 0.379 | 0.409 | 0.376 | 0.398 | 4.59  |
| 58) T  | 2-Chloroethyl Vin     | 0.131          | 0.123 | 0.138 | 0.133 | 0.151 | 0.145 | 0.137 | 7.28  |
| 59) T  | 2-Hexanone            | 0.104          | 0.092 | 0.104 | 0.108 | 0.118 | 0.106 | 0.105 | 7.88  |
| 60) T  | Dibromochlorometh     | 0.297          | 0.281 | 0.312 | 0.286 | 0.322 | 0.297 | 0.299 | 5.10  |
| 61) T  | 1,2-Dibromoethane     | 0.242          | 0.233 | 0.250 | 0.229 | 0.252 | 0.231 | 0.239 | 4.15  |
| 62) S  | 4-Bromofluorobenz     | 0.463          | 0.440 | 0.441 | 0.418 | 0.425 | 0.430 | 0.436 | 3.67  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.405          | 0.385 | 0.397 | 0.370 | 0.386 | 0.349 | 0.382 | 5.18  |
| 65) PM | Chlorobenzene         | 1.117          | 1.065 | 1.115 | 1.030 | 1.082 | 0.977 | 1.064 | 5.07  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.348          | 0.315 | 0.361 | 0.325 | 0.361 | 0.336 | 0.341 | 5.61  |
| 67) C  | Ethyl Benzene         | 1.800          | 1.707 | 1.861 | 1.771 | 1.890 | 1.713 | 1.790 | 4.20# |
| 68) T  | m/p-Xylenes           | 0.733          | 0.686 | 0.769 | 0.721 | 0.772 | 0.701 | 0.730 | 4.80  |
| 69) T  | o-Xylene              | 0.664          | 0.621 | 0.698 | 0.668 | 0.723 | 0.660 | 0.672 | 5.23  |
| 70) T  | Styrene               | 1.068          | 0.956 | 1.140 | 1.103 | 1.198 | 1.092 | 1.093 | 7.41  |
| 71) P  | Bromoform             | 0.181          | 0.168 | 0.192 | 0.182 | 0.212 | 0.199 | 0.189 | 8.10  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.112          | 2.960 | 3.314 | 3.202 | 3.474 | 3.240 | 3.217 | 5.45  |
| 74) T  | N-amyl acetate        | 0.502          | 0.447 | 0.527 | 0.524 | 0.591 | 0.555 | 0.524 | 9.26  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.489          | 0.454 | 0.495 | 0.459 | 0.506 | 0.474 | 0.479 | 4.34  |
| 76) T  | 1,2,3-Trichloropr     | 0.353          | 0.348 | 0.383 | 0.352 | 0.386 | 0.366 | 0.365 | 4.50  |
| 77) T  | Bromobenzene          | 0.850          | 0.815 | 0.869 | 0.811 | 0.854 | 0.792 | 0.832 | 3.61  |
| 78) T  | n-propylbenzene       | 3.766          | 3.562 | 4.002 | 3.802 | 4.052 | 3.750 | 3.822 | 4.71  |
| 79) T  | 2-Chlorotoluene       | 2.139          | 2.105 | 2.254 | 2.106 | 2.239 | 2.077 | 2.153 | 3.47  |
| 80) T  | 1,3,5-Trimethylbe     | 2.783          | 2.608 | 2.934 | 2.761 | 2.926 | 2.712 | 2.787 | 4.51  |
| 81) T  | trans-1,4-Dichlor     | 0.120          | 0.118 | 0.136 | 0.135 | 0.159 | 0.155 | 0.137 | 12.63 |
| 82) T  | 4-Chlorotoluene       | 2.333          | 2.207 | 2.419 | 2.252 | 2.384 | 2.215 | 2.301 | 3.90  |
| 83) T  | tert-Butylbenzene     | 2.363          | 2.218 | 2.480 | 2.407 | 2.581 | 2.402 | 2.408 | 5.03  |
| 84) T  | 1,2,4-Trimethylbe     | 2.847          | 2.661 | 3.040 | 2.844 | 2.991 | 2.751 | 2.856 | 4.99  |
| 85) T  | sec-Butylbenzene      | 3.430          | 3.228 | 3.587 | 3.428 | 3.641 | 3.369 | 3.447 | 4.35  |
| 86) T  | p-Isopropyltoluen     | 3.102          | 2.850 | 3.313 | 3.176 | 3.345 | 3.079 | 3.144 | 5.74  |
| 87) T  | 1,3-Dichlorobenze     | 1.746          | 1.709 | 1.755 | 1.645 | 1.713 | 1.572 | 1.690 | 4.13  |
| 88) T  | 1,4-Dichlorobenze     | 1.754          | 1.740 | 1.767 | 1.629 | 1.676 | 1.532 | 1.683 | 5.38  |
| 89) T  | n-Butylbenzene        | 2.913          | 2.713 | 3.050 | 2.899 | 3.041 | 2.796 | 2.902 | 4.57  |
| 90) T  | Hexachloroethane      | 0.480          | 0.444 | 0.506 | 0.496 | 0.532 | 0.502 | 0.493 | 6.00  |
| 91) T  | 1,2-Dichlorobenze     | 1.550          | 1.478 | 1.564 | 1.445 | 1.482 | 1.352 | 1.478 | 5.20  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.077          | 0.076 | 0.077 | 0.077 | 0.081 | 0.076 | 0.077 | 2.68  |
| 93) T  | 1,2,4-Trichlorobe     | 1.127          | 1.067 | 1.150 | 1.100 | 1.104 | 1.018 | 1.094 | 4.25  |
| 94) T  | Hexachlorobutadie     | 0.739          | 0.729 | 0.716 | 0.685 | 0.655 | 0.608 | 0.689 | 7.28  |
| 95) T  | Naphthalene           | 1.595          | 1.384 | 1.672 | 1.760 | 1.876 | 1.761 | 1.675 | 10.22 |
| 96) T  | 1,2,3-Trichlorobe     | 0.984          | 0.916 | 0.982 | 0.963 | 0.951 | 0.884 | 0.947 | 4.17  |

(#) = Out of Range