

Method Path : Z:\VOASRV\HPCHEM1\MSVOA W\METHOD\  
 Method File : 82W122118S.M  
 Title : SW846 8260  
 Last Update : Thu Dec 20 06:30:23 2018  
 Response Via : Initial Calibration

## Calibration Files

10 =VW007699.D 5 =VW007698.D 20 =VW007700.D  
 50 =VW007701.D 100 =VW007703.D 150 =VW007704.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 0.419          | 0.482 | 0.435 | 0.444 | 0.470 | 0.417 | 0.444 | 5.99  |
| 3) P   | Chloromethane       | 0.251          | 0.273 | 0.280 | 0.264 | 0.299 | 0.271 | 0.273 | 5.87  |
| 4) C   | Vinyl Chloride      | 0.339          | 0.357 | 0.363 | 0.333 | 0.365 | 0.328 | 0.347 | 4.69# |
| 5) T   | Bromomethane        | 0.240          | 0.256 | 0.241 | 0.223 | 0.256 | 0.235 | 0.242 | 5.21  |
| 6) T   | Chloroethane        | 0.190          | 0.172 | 0.192 | 0.176 | 0.201 | 0.184 | 0.186 | 5.72  |
| 7) T   | Trichlorofluorome   | 0.336          | 0.359 | 0.339 | 0.347 | 0.404 | 0.385 | 0.362 | 7.61  |
| 8) T   | Diethyl Ether       | 0.236          | 0.224 | 0.207 | 0.222 | 0.235 | 0.206 | 0.222 | 5.83  |
| 9) T   | 1,1,2-Trichlorotr   | 0.535          | 0.569 | 0.557 | 0.513 | 0.537 | 0.486 | 0.533 | 5.58  |
| 10) T  | Methyl Iodide       | 0.850          | 0.876 | 0.880 | 0.818 | 0.874 | 0.786 | 0.847 | 4.48  |
| 11) T  | Tert butyl alcoho   | 0.038          | 0.039 | 0.040 | 0.034 | 0.037 | 0.034 | 0.037 | 7.36  |
| 12) CM | 1,1-Dichloroethen   | 0.489          | 0.506 | 0.513 | 0.473 | 0.513 | 0.467 | 0.493 | 4.10# |
| 13) T  | Acrolein            | 0.031          | 0.031 | 0.034 | 0.027 | 0.029 | 0.025 | 0.030 | 11.14 |
| 14) T  | Allyl chloride      | 0.641          | 0.688 | 0.667 | 0.615 | 0.668 | 0.604 | 0.647 | 5.07  |
| 15) T  | Acrylonitrile       | 0.095          | 0.091 | 0.099 | 0.092 | 0.102 | 0.089 | 0.095 | 5.09  |
| 16) T  | Acetone             | 0.106          | 0.116 | 0.105 | 0.101 | 0.101 | 0.086 | 0.103 | 9.49  |
| 17) T  | Carbon Disulfide    | 1.522          | 1.655 | 1.565 | 1.451 | 1.562 | 1.405 | 1.527 | 5.84  |
| 18) T  | Methyl Acetate      | 0.241          | 0.233 | 0.244 | 0.247 | 0.265 | 0.235 | 0.244 | 4.74  |
| 19) T  | Methyl tert-butyl   | 0.698          | 0.736 | 0.753 | 0.700 | 0.730 | 0.632 | 0.708 | 6.03  |
| 20) T  | Methylene Chlorid   | 0.661          | 0.927 | 0.632 | 0.518 | 0.520 | 0.452 | 0.619 | 27.50 |
| 21) T  | trans-1,2-Dichlor   | 0.551          | 0.586 | 0.555 | 0.510 | 0.558 | 0.495 | 0.543 | 6.21  |
| 22) T  | Diisopropyl ether   | 1.206          | 1.210 | 1.278 | 1.191 | 1.260 | 1.123 | 1.211 | 4.53  |
| 23) T  | Vinyl Acetate       | 0.696          | 0.698 | 0.749 | 0.710 | 0.780 | 0.686 | 0.720 | 5.09  |
| 24) P  | 1,1-Dichloroethan   | 0.882          | 0.955 | 0.931 | 0.844 | 0.924 | 0.812 | 0.891 | 6.21  |
| 25) T  | 2-Butanone          | 0.118          | 0.127 | 0.127 | 0.116 | 0.126 | 0.108 | 0.120 | 6.58  |
| 26) T  | 2,2-Dichloropropa   | 0.665          | 0.731 | 0.701 | 0.608 | 0.643 | 0.565 | 0.652 | 9.29  |
| 27) T  | cis-1,2-Dichloroe   | 0.577          | 0.616 | 0.598 | 0.552 | 0.594 | 0.531 | 0.578 | 5.43  |
| 28) T  | Bromochloromethan   | 0.288          | 0.319 | 0.310 | 0.294 | 0.318 | 0.294 | 0.304 | 4.42  |
| 29) T  | Tetrahydrofuran     | 0.069          | 0.068 | 0.076 | 0.071 | 0.079 | 0.068 | 0.072 | 6.46  |
| 30) C  | Chloroform          | 0.988          | 1.058 | 1.068 | 0.970 | 1.042 | 0.924 | 1.008 | 5.64# |
| 31) T  | Cyclohexane         | 0.826          | 1.000 | 0.834 | 0.733 | 0.794 | 0.709 | 0.816 | 12.63 |
| 32) T  | 1,1,1-Trichloroet   | 0.932          | 0.960 | 0.954 | 0.879 | 0.946 | 0.841 | 0.918 | 5.19  |
| 33) S  | 1,2-Dichloroethan   | 0.533          | 0.563 | 0.560 | 0.529 | 0.576 | 0.527 | 0.548 | 3.82  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.289          | 0.317 | 0.307 | 0.299 | 0.320 | 0.297 | 0.305 | 3.93  |
| 36) T  | 1,1-Dichloroprope   | 0.482          | 0.512 | 0.496 | 0.470 | 0.496 | 0.439 | 0.483 | 5.32  |
| 37) T  | Ethyl Acetate       | 0.167          | 0.172 | 0.169 | 0.165 | 0.175 | 0.152 | 0.167 | 4.73  |
| 38) T  | Carbon Tetrachlor   | 0.553          | 0.598 | 0.581 | 0.555 | 0.596 | 0.527 | 0.568 | 4.94  |
| 39) T  | Methylcyclohexane   | 0.578          | 0.645 | 0.617 | 0.583 | 0.623 | 0.552 | 0.600 | 5.69  |
| 40) TM | Benzene             | 1.268          | 1.400 | 1.334 | 1.244 | 1.317 | 1.163 | 1.288 | 6.35  |
| 41) T  | Methacrylonitrile   | 0.103          | 0.080 | 0.094 | 0.095 | 0.106 | 0.090 | 0.095 | 9.86  |
| 42) TM | 1,2-Dichloroethan   | 0.433          | 0.435 | 0.448 | 0.422 | 0.453 | 0.399 | 0.432 | 4.51  |
| 43) T  | Isopropyl Acetate   | 0.321          | 0.337 | 0.339 | 0.333 | 0.360 | 0.312 | 0.334 | 4.99  |
| 44) TM | Trichloroethene     | 0.378          | 0.433 | 0.401 | 0.373 | 0.399 | 0.354 | 0.389 | 7.02  |
| 45) C  | 1,2-Dichloropropa   | 0.278          | 0.297 | 0.294 | 0.284 | 0.300 | 0.262 | 0.286 | 5.03# |
| 46) T  | Dibromomethane      | 0.173          | 0.180 | 0.183 | 0.173 | 0.185 | 0.162 | 0.176 | 4.75  |
| 47) T  | Bromodichlorometh   | 0.456          | 0.472 | 0.475 | 0.454 | 0.488 | 0.430 | 0.462 | 4.43  |
| 48) T  | Methyl methacryla   | 0.157          | 0.165 | 0.171 | 0.165 | 0.182 | 0.160 | 0.167 | 5.24  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 5.85  |
| 50) S  | Toluene-d8          | 1.106          | 1.193 | 1.157 | 1.140 | 1.195 | 1.108 | 1.150 | 3.43  |
| 51) T  | 4-Methyl-2-Pentan   | 0.158          | 0.154 | 0.163 | 0.156 | 0.170 | 0.145 | 0.158 | 5.22  |
| 52) CM | Toluene             | 0.866          | 0.945 | 0.877 | 0.836 | 0.880 | 0.779 | 0.864 | 6.35# |

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|        | Compound              | 10             | 5     | 20    | 50    | 100   | 150   | Avq   | %RSD  |
|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.445          | 0.457 | 0.473 | 0.448 | 0.499 | 0.438 | 0.460 | 4.92  |
| 54) T  | cis-1,3-Dichlorop     | 0.497          | 0.522 | 0.523 | 0.494 | 0.538 | 0.475 | 0.508 | 4.60  |
| 55) T  | 1,1,2-Trichloroet     | 0.241          | 0.244 | 0.260 | 0.232 | 0.258 | 0.220 | 0.242 | 6.29  |
| 56) T  | Ethyl methacrylat     | 0.277          | 0.252 | 0.295 | 0.294 | 0.321 | 0.279 | 0.287 | 7.98  |
| 57) T  | 1,3-Dichloropropa     | 0.404          | 0.411 | 0.417 | 0.390 | 0.422 | 0.372 | 0.403 | 4.71  |
| 58) T  | 2-Chloroethyl Vin     | 0.134          | 0.130 | 0.138 | 0.133 | 0.137 | 0.113 | 0.131 | 7.17  |
| 59) T  | 2-Hexanone            | 0.109          | 0.104 | 0.113 | 0.112 | 0.122 | 0.104 | 0.111 | 6.21  |
| 60) T  | Dibromochlorometh     | 0.306          | 0.331 | 0.331 | 0.316 | 0.341 | 0.302 | 0.321 | 4.88  |
| 61) T  | 1,2-Dibromoethane     | 0.248          | 0.249 | 0.250 | 0.236 | 0.261 | 0.228 | 0.246 | 4.73  |
| 62) S  | 4-Bromofluorobenz     | 0.443          | 0.453 | 0.457 | 0.436 | 0.456 | 0.421 | 0.444 | 3.15  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.344          | 0.384 | 0.371 | 0.343 | 0.361 | 0.321 | 0.354 | 6.45  |
| 65) PM | Chlorobenzene         | 1.062          | 1.184 | 1.146 | 1.038 | 1.100 | 0.963 | 1.082 | 7.30  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.370          | 0.418 | 0.402 | 0.379 | 0.402 | 0.349 | 0.387 | 6.56  |
| 67) C  | Ethyl Benzene         | 1.830          | 1.942 | 1.961 | 1.807 | 1.918 | 1.685 | 1.857 | 5.62# |
| 68) T  | m/p-Xylenes           | 0.704          | 0.767 | 0.772 | 0.705 | 0.734 | 0.641 | 0.720 | 6.76  |
| 69) T  | o-Xylene              | 0.668          | 0.682 | 0.729 | 0.663 | 0.699 | 0.610 | 0.675 | 5.90  |
| 70) T  | Stvrene               | 1.091          | 1.115 | 1.171 | 1.099 | 1.175 | 1.009 | 1.110 | 5.53  |
| 71) P  | Bromoform             | 0.192          | 0.195 | 0.207 | 0.201 | 0.220 | 0.189 | 0.201 | 5.73  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.634          | 3.881 | 3.930 | 3.690 | 3.987 | 3.554 | 3.779 | 4.68  |
| 74) T  | N-amyl acetate        | 0.623          | 0.602 | 0.671 | 0.654 | 0.730 | 0.647 | 0.655 | 6.77  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.553          | 0.568 | 0.588 | 0.559 | 0.602 | 0.529 | 0.567 | 4.59  |
| 76) T  | 1,2,3-Trichloropr     | 0.355          | 0.357 | 0.369 | 0.431 | 0.476 | 0.330 | 0.386 | 14.32 |
| 77) T  | Bromobenzene          | 0.858          | 0.898 | 0.899 | 0.849 | 0.902 | 0.791 | 0.866 | 4.98  |
| 78) T  | n-propylbenzene       | 4.233          | 4.521 | 4.624 | 4.316 | 4.609 | 4.095 | 4.400 | 4.95  |
| 79) T  | 2-Chlorotoluene       | 2.505          | 2.677 | 2.642 | 2.480 | 2.695 | 2.379 | 2.563 | 4.96  |
| 80) T  | 1,3,5-Trimethylbe     | 3.118          | 3.330 | 3.463 | 3.213 | 3.408 | 3.030 | 3.260 | 5.19  |
| 81) T  | trans-1,4-Dichlor     | 0.178          | 0.163 | 0.190 | 0.189 | 0.204 | 0.181 | 0.184 | 7.50  |
| 82) T  | 4-Chlorotoluene       | 2.708          | 2.827 | 2.832 | 2.654 | 2.827 | 2.526 | 2.729 | 4.56  |
| 83) T  | tert-Butylbenzene     | 2.709          | 2.928 | 3.055 | 2.817 | 3.003 | 2.651 | 2.860 | 5.67  |
| 84) T  | 1,2,4-Trimethylbe     | 3.161          | 3.340 | 3.566 | 3.246 | 3.412 | 3.012 | 3.290 | 5.92  |
| 85) T  | sec-Butylbenzene      | 3.822          | 4.112 | 4.164 | 3.864 | 4.074 | 3.618 | 3.942 | 5.34  |
| 86) T  | p-Isopropyltoluen     | 3.573          | 3.671 | 3.863 | 3.516 | 3.643 | 3.242 | 3.585 | 5.72  |
| 87) T  | 1,3-Dichlorobenze     | 1.778          | 1.809 | 1.823 | 1.658 | 1.741 | 1.509 | 1.720 | 6.91  |
| 88) T  | 1,4-Dichlorobenze     | 1.718          | 1.868 | 1.780 | 1.664 | 1.753 | 1.538 | 1.720 | 6.51  |
| 89) T  | n-Butylbenzene        | 3.248          | 3.375 | 3.466 | 3.236 | 3.382 | 3.013 | 3.287 | 4.87  |
| 90) T  | Hexachloroethane      | 0.601          | 0.685 | 0.638 | 0.615 | 0.652 | 0.585 | 0.629 | 5.81  |
| 91) T  | 1,2-Dichlorobenze     | 1.548          | 1.577 | 1.652 | 1.503 | 1.588 | 1.370 | 1.540 | 6.27  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.113          | 0.107 | 0.118 | 0.119 | 0.131 | 0.110 | 0.116 | 7.38  |
| 93) T  | 1,2,4-Trichlorobe     | 1.065          | 1.087 | 1.120 | 1.044 | 1.124 | 0.974 | 1.069 | 5.23  |
| 94) T  | Hexachlorobutadie     | 0.563          | 0.606 | 0.602 | 0.553 | 0.588 | 0.516 | 0.571 | 6.00  |
| 95) T  | Naphthalene           | 1.848          | 1.780 | 2.066 | 2.028 | 2.233 | 1.902 | 1.976 | 8.39  |
| 96) T  | 1,2,3-Trichlorobe     | 0.867          | 0.929 | 0.956 | 0.910 | 0.987 | 0.840 | 0.915 | 6.00  |

(#) = Out of Range