

Method Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\  
 Method File : 82W120418S.M  
 Title : SW846 8260  
 Last Update : Wed Dec 05 01:35:23 2018  
 Response Via : Initial Calibration

## Calibration Files

10 =VW007180.D 5 =VW007179.D 20 =VW007181.D  
 50 =VW007182.D 100 =VW007184.D 150 =VW007185.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 0.631          | 0.625 | 0.593 | 0.497 | 0.473 | 0.463 | 0.547 | 14.21 |
| 3) P   | Chloromethane       | 0.796          | 0.752 | 0.759 | 0.654 | 0.604 | 0.593 | 0.693 | 12.59 |
| 4) C   | Vinyl Chloride      | 0.473          | 0.469 | 0.451 | 0.429 | 0.398 | 0.383 | 0.434 | 8.61# |
| 5) T   | Bromomethane        | 0.236          | 0.242 | 0.204 | 0.218 | 0.202 | 0.201 | 0.217 | 8.27  |
| 6) T   | Chloroethane        | 0.266          | 0.261 | 0.246 | 0.241 | 0.228 | 0.218 | 0.243 | 7.63  |
| 7) T   | Trichlorofluorome   | 0.862          | 0.856 | 0.884 | 0.812 | 0.835 | 0.825 | 0.846 | 3.14  |
| 8) T   | Diethyl Ether       | 0.224          | 0.207 | 0.250 | 0.239 | 0.242 | 0.252 | 0.236 | 7.20  |
| 9) T   | 1,1,2-Trichlorotr   | 0.510          | 0.523 | 0.533 | 0.499 | 0.496 | 0.503 | 0.511 | 2.86  |
| 10) T  | Methyl Iodide       | 0.393          | 0.413 | 0.398 | 0.426 | 0.470 | 0.512 | 0.435 | 10.66 |
| 11) T  | Tert butyl alcoho   | 0.054          | 0.090 | 0.056 | 0.042 | 0.041 | 0.043 | 0.054 | 34.61 |
| 12) CM | 1,1-Dichloroethen   | 0.481          | 0.495 | 0.496 | 0.463 | 0.469 | 0.468 | 0.479 | 3.01# |
| 13) T  | Acrolein            | 0.030          | 0.031 | 0.035 | 0.032 | 0.033 | 0.035 | 0.033 | 6.33  |
| 14) T  | Allyl chloride      | 0.793          | 0.755 | 0.774 | 0.761 | 0.760 | 0.762 | 0.767 | 1.83  |
| 15) T  | Acrylonitrile       | 0.089          | 0.088 | 0.101 | 0.105 | 0.103 | 0.104 | 0.099 | 7.80  |
| 16) T  | Acetone             | 0.098          | 0.105 | 0.103 | 0.128 | 0.115 | 0.112 | 0.110 | 9.48  |
| 17) T  | Carbon Disulfide    | 1.563          | 1.564 | 1.610 | 1.580 | 1.587 | 1.565 | 1.578 | 1.16  |
| 18) T  | Methyl Acetate      | 0.233          | 0.229 | 0.267 | 0.255 | 0.258 | 0.267 | 0.252 | 6.66  |
| 19) T  | Methyl tert-butyl   | 1.055          | 1.050 | 1.166 | 1.166 | 1.149 | 1.176 | 1.127 | 5.18  |
| 20) T  | Methylene Chlorid   | 0.789          | 0.850 | 0.690 | 0.566 | 0.523 | 0.516 | 0.655 | 21.76 |
| 21) T  | trans-1,2-Dichlor   | 0.534          | 0.525 | 0.550 | 0.529 | 0.537 | 0.533 | 0.535 | 1.64  |
| 22) T  | Diisopropyl ether   | 1.387          | 1.342 | 1.415 | 1.442 | 1.336 | 1.343 | 1.378 | 3.21  |
| 23) T  | Vinyl Acetate       | 0.713          | 0.688 | 0.774 | 0.800 | 0.747 | 0.787 | 0.752 | 5.83  |
| 24) P  | 1,1-Dichloroethan   | 0.874          | 0.853 | 0.910 | 0.880 | 0.883 | 0.898 | 0.883 | 2.21  |
| 25) T  | 2-Butanone          | 0.116          | 0.119 | 0.127 | 0.138 | 0.130 | 0.136 | 0.128 | 6.95  |
| 26) T  | 2,2-Dichloropropa   | 0.874          | 0.901 | 0.849 | 0.837 | 0.817 | 0.813 | 0.848 | 4.02  |
| 27) T  | cis-1,2-Dichloroe   | 0.581          | 0.550 | 0.582 | 0.571 | 0.571 | 0.583 | 0.573 | 2.18  |
| 28) T  | Bromochloromethan   | 0.313          | 0.325 | 0.328 | 0.308 | 0.309 | 0.327 | 0.318 | 3.00  |
| 29) T  | Tetrahydrofuran     | 0.071          | 0.070 | 0.082 | 0.083 | 0.083 | 0.086 | 0.079 | 8.90  |
| 30) C  | Chloroform          | 0.910          | 0.888 | 0.941 | 0.907 | 0.925 | 0.934 | 0.918 | 2.13# |
| 31) T  | Cyclohexane         | 0.986          | 1.075 | 0.960 | 0.894 | 0.824 | 0.804 | 0.924 | 11.19 |
| 32) T  | 1,1,1-Trichloroet   | 0.878          | 0.876 | 0.876 | 0.869 | 0.842 | 0.840 | 0.864 | 2.05  |
| 33) S  | 1,2-Dichloroethan   | 0.447          | 0.459 | 0.438 | 0.466 | 0.487 | 0.497 | 0.466 | 4.89  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.274          | 0.273 | 0.270 | 0.290 | 0.304 | 0.306 | 0.286 | 5.72  |
| 36) T  | 1,1-Dichloroprope   | 0.488          | 0.507 | 0.510 | 0.499 | 0.469 | 0.446 | 0.487 | 5.10  |
| 37) T  | Ethyl Acetate       | 0.161          | 0.178 | 0.180 | 0.181 | 0.178 | 0.176 | 0.176 | 4.23  |
| 38) T  | Carbon Tetrachlor   | 0.509          | 0.523 | 0.501 | 0.499 | 0.482 | 0.465 | 0.497 | 4.14  |
| 39) T  | Methylcyclohexane   | 0.661          | 0.701 | 0.665 | 0.653 | 0.624 | 0.604 | 0.651 | 5.22  |
| 40) TM | Benzene             | 1.347          | 1.342 | 1.370 | 1.365 | 1.326 | 1.254 | 1.334 | 3.17  |
| 41) T  | Methacrylonitrile   | 0.111          | 0.090 | 0.108 | 0.115 | 0.102 | 0.106 | 0.105 | 8.28  |
| 42) TM | 1,2-Dichloroethan   | 0.364          | 0.368 | 0.379 | 0.373 | 0.375 | 0.378 | 0.373 | 1.58  |
| 43) T  | Isopropyl Acetate   | 0.302          | 0.320 | 0.350 | 0.361 | 0.357 | 0.361 | 0.342 | 7.28  |
| 44) TM | Trichloroethene     | 0.375          | 0.381 | 0.388 | 0.388 | 0.369 | 0.348 | 0.375 | 4.01  |
| 45) C  | 1,2-Dichloropropa   | 0.302          | 0.321 | 0.325 | 0.316 | 0.304 | 0.295 | 0.310 | 3.80# |
| 46) T  | Dibromomethane      | 0.152          | 0.156 | 0.169 | 0.160 | 0.164 | 0.167 | 0.161 | 4.01  |
| 47) T  | Bromodichlorometh   | 0.427          | 0.408 | 0.434 | 0.432 | 0.422 | 0.424 | 0.424 | 2.21  |
| 48) T  | Methyl methacryla   | 0.171          | 0.157 | 0.167 | 0.196 | 0.182 | 0.191 | 0.177 | 8.45  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 4.04  |
| 50) S  | Toluene-d8          | 1.272          | 1.309 | 1.179 | 1.287 | 1.277 | 1.243 | 1.261 | 3.61  |
| 51) T  | 4-Methyl-2-Pentan   | 0.149          | 0.160 | 0.167 | 0.185 | 0.176 | 0.174 | 0.168 | 7.49  |
| 52) CM | Toluene             | 0.964          | 0.961 | 0.934 | 0.945 | 0.895 | 0.869 | 0.928 | 4.09# |

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| Compound |                       | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| -----    |                       |                |       |       |       |       |       |       |       |
| 53) T    | t-1,3-Dichloropro     | 0.387          | 0.420 | 0.434 | 0.448 | 0.438 | 0.433 | 0.427 | 5.05  |
| 54) T    | cis-1,3-Dichlorop     | 0.478          | 0.488 | 0.506 | 0.527 | 0.505 | 0.498 | 0.500 | 3.38  |
| 55) T    | 1,1,2-Trichloroet     | 0.219          | 0.224 | 0.247 | 0.232 | 0.233 | 0.222 | 0.229 | 4.39  |
| 56) T    | Ethyl methacrylat     | 0.271          | 0.280 | 0.298 | 0.322 | 0.308 | 0.317 | 0.299 | 6.75  |
| 57) T    | 1,3-Dichloropropa     | 0.363          | 0.383 | 0.404 | 0.399 | 0.386 | 0.388 | 0.387 | 3.76  |
| 58) T    | 2-Chloroethyl Vin     | 0.114          | 0.119 | 0.137 | 0.124 | 0.122 | 0.105 | 0.120 | 8.85  |
| 59) T    | 2-Hexanone            | 0.107          | 0.116 | 0.124 | 0.136 | 0.131 | 0.118 | 0.122 | 8.79  |
| 60) T    | Dibromochlorometh     | 0.263          | 0.271 | 0.286 | 0.288 | 0.294 | 0.290 | 0.282 | 4.34  |
| 61) T    | 1,2-Dibromoethane     | 0.207          | 0.208 | 0.230 | 0.232 | 0.223 | 0.221 | 0.220 | 4.86  |
| 62) S    | 4-Bromofluorobenz     | 0.478          | 0.505 | 0.450 | 0.491 | 0.463 | 0.469 | 0.476 | 4.16  |
|          |                       |                |       |       |       |       |       |       |       |
| 63) I    | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T    | Tetrachloroethene     | 0.365          | 0.386 | 0.374 | 0.380 | 0.346 | 0.342 | 0.365 | 4.95  |
| 65) PM   | Chlorobenzene         | 1.165          | 1.131 | 1.130 | 1.170 | 1.073 | 1.031 | 1.117 | 4.85  |
| 66) T    | 1,1,1,2-Tetrachlo     | 0.337          | 0.335 | 0.361 | 0.360 | 0.343 | 0.333 | 0.345 | 3.65  |
| 67) C    | Ethyl Benzene         | 2.047          | 2.124 | 2.114 | 2.078 | 1.950 | 1.899 | 2.035 | 4.49# |
| 68) T    | m/p-Xylenes           | 0.797          | 0.823 | 0.845 | 0.818 | 0.755 | 0.752 | 0.798 | 4.75  |
| 69) T    | o-Xylene              | 0.760          | 0.763 | 0.756 | 0.774 | 0.713 | 0.709 | 0.746 | 3.70  |
| 70) T    | Styrene               | 1.250          | 1.254 | 1.228 | 1.271 | 1.177 | 1.147 | 1.221 | 3.99  |
| 71) P    | Bromoform             | 0.157          | 0.151 | 0.179 | 0.187 | 0.181 | 0.181 | 0.173 | 8.64  |
|          |                       |                |       |       |       |       |       |       |       |
| 72) I    | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T    | Isopropylbenzene      | 4.175          | 4.121 | 3.930 | 4.309 | 3.907 | 3.959 | 4.067 | 3.96  |
| 74) T    | N-amyl acetate        | 0.679          | 0.663 | 0.695 | 0.824 | 0.703 | 0.760 | 0.721 | 8.37  |
| 75) P    | 1,1,2,2-Tetrachlo     | 0.527          | 0.498 | 0.508 | 0.581 | 0.523 | 0.531 | 0.528 | 5.42  |
| 76) T    | 1,2,3-Trichloropr     | 0.409          | 0.297 | 0.411 | 0.355 | 0.415 | 0.435 | 0.387 | 13.29 |
| 77) T    | Bromobenzene          | 0.916          | 0.888 | 0.867 | 0.904 | 0.837 | 0.855 | 0.878 | 3.45  |
| 78) T    | n-propylbenzene       | 5.157          | 5.109 | 4.787 | 4.843 | 4.466 | 4.708 | 4.845 | 5.32  |
| 79) T    | 2-Chlorotoluene       | 2.907          | 2.834 | 2.674 | 2.864 | 2.557 | 2.579 | 2.736 | 5.57  |
| 80) T    | 1,3,5-Trimethylbe     | 3.598          | 3.604 | 3.443 | 3.656 | 3.285 | 3.288 | 3.479 | 4.75  |
| 81) T    | trans-1,4-Dichlor     | 0.167          | 0.159 | 0.166 | 0.208 | 0.183 | 0.195 | 0.180 | 10.48 |
| 82) T    | 4-Chlorotoluene       | 2.974          | 2.945 | 2.988 | 2.934 | 2.739 | 2.885 | 2.911 | 3.14  |
| 83) T    | tert-Butylbenzene     | 3.129          | 3.165 | 2.978 | 3.087 | 2.902 | 2.980 | 3.040 | 3.36  |
| 84) T    | 1,2,4-Trimethylbe     | 3.643          | 3.759 | 3.622 | 3.693 | 3.296 | 3.294 | 3.551 | 5.75  |
| 85) T    | sec-Butylbenzene      | 4.606          | 4.504 | 4.457 | 4.334 | 4.123 | 4.018 | 4.340 | 5.28  |
| 86) T    | p-Isopropyltoluen     | 4.038          | 4.072 | 3.909 | 3.871 | 3.722 | 3.570 | 3.864 | 4.93  |
| 87) T    | 1,3-Dichlorobenze     | 1.872          | 1.872 | 1.877 | 1.809 | 1.721 | 1.661 | 1.802 | 5.07  |
| 88) T    | 1,4-Dichlorobenze     | 1.837          | 1.892 | 1.846 | 1.870 | 1.705 | 1.770 | 1.820 | 3.84  |
| 89) T    | n-Butylbenzene        | 3.816          | 3.758 | 3.575 | 3.659 | 3.400 | 3.454 | 3.611 | 4.57  |
| 90) T    | Hexachloroethane      | 0.598          | 0.587 | 0.555 | 0.627 | 0.574 | 0.591 | 0.589 | 4.06  |
| 91) T    | 1,2-Dichlorobenze     | 1.594          | 1.581 | 1.555 | 1.645 | 1.496 | 1.490 | 1.560 | 3.82  |
| 92) T    | 1,2-Dibromo-3-Chl     | 0.097          | 0.092 | 0.102 | 0.112 | 0.104 | 0.106 | 0.102 | 6.99  |
| 93) T    | 1,2,4-Trichlorobe     | 1.053          | 1.091 | 1.087 | 1.139 | 1.055 | 1.062 | 1.081 | 3.02  |
| 94) T    | Hexachlorobutadie     | 0.609          | 0.590 | 0.593 | 0.600 | 0.550 | 0.555 | 0.583 | 4.20  |
| 95) T    | Naphthalene           | 1.802          | 1.795 | 1.893 | 2.133 | 1.973 | 2.029 | 1.938 | 6.87  |
| 96) T    | 1,2,3-Trichlorobe     | 0.883          | 0.924 | 0.904 | 0.950 | 0.901 | 0.908 | 0.912 | 2.49  |

(#) = Out of Range