

Method Path : Z:\VOASRV\HPCHEM1\MSVOA W\METHOD\  
 Method File : 82W051619S.M  
 Title : SW846 8260  
 Last Update : Fri May 17 09:10:13 2019  
 Response Via : Initial Calibration

## Calibration Files

10 =VW010410.D 5 =VW010409.D 20 =VW010411.D  
 50 =VW010412.D 100 =VW010413.D 150 =VW010414.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| -----  |                     |                |       |       |       |       |       |       |       |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 0.272          | 0.420 | 0.271 | 0.280 | 0.283 | 0.282 | 0.301 | 19.39 |
| 3) P   | Chloromethane       | 0.379          | 0.504 | 0.355 | 0.378 | 0.416 | 0.420 | 0.409 | 12.90 |
| 4) C   | Vinyl Chloride      | 0.541          | 0.635 | 0.506 | 0.520 | 0.524 | 0.498 | 0.537 | 9.36# |
| 5) T   | Bromomethane        | 0.357          | 0.382 | 0.326 | 0.343 | 0.351 | 0.349 | 0.351 | 5.20  |
| 6) T   | Chloroethane        | 0.310          | 0.332 | 0.302 | 0.313 | 0.322 | 0.323 | 0.317 | 3.35  |
| 7) T   | Trichlorofluorome   | 0.278          | 0.288 | 0.254 | 0.299 | 0.315 | 0.322 | 0.293 | 8.48  |
| 8) T   | Diethyl Ether       | 0.268          | 0.285 | 0.243 | 0.258 | 0.249 | 0.245 | 0.258 | 6.15  |
| 9) T   | 1,1,2-Trichlorotr   | 0.484          | 0.498 | 0.432 | 0.449 | 0.443 | 0.424 | 0.455 | 6.51  |
| 10) T  | Methyl Iodide       | 0.773          | 0.790 | 0.725 | 0.734 | 0.728 | 0.712 | 0.744 | 4.15  |
| 11) T  | Tert butyl alcoho   | 0.042          | 0.043 | 0.038 | 0.044 | 0.042 | 0.040 | 0.041 | 5.54  |
| 12) CM | 1,1-Dichloroethen   | 0.497          | 0.555 | 0.456 | 0.474 | 0.474 | 0.459 | 0.486 | 7.56# |
| 13) T  | Acrolein            | 0.031          | 0.023 | 0.028 | 0.023 | 0.024 | 0.022 | 0.025 | 14.13 |
| 14) T  | Allyl chloride      | 0.651          | 0.648 | 0.575 | 0.605 | 0.592 | 0.568 | 0.607 | 5.91  |
| 15) T  | Acrylonitrile       | 0.114          | 0.116 | 0.108 | 0.121 | 0.115 | 0.114 | 0.115 | 3.51  |
| 16) T  | Acetone             | 0.090          | 0.098 | 0.083 | 0.101 | 0.097 | 0.092 | 0.094 | 7.17  |
| 17) T  | Carbon Disulfide    | 1.355          | 1.500 | 1.270 | 1.281 | 1.257 | 1.217 | 1.313 | 7.76  |
| 18) T  | Methyl Acetate      | 0.301          | 0.335 | 0.273 | 0.286 | 0.284 | 0.306 | 0.297 | 7.42  |
| 19) T  | Methyl tert-butyl   | 0.728          | 0.702 | 0.662 | 0.697 | 0.646 | 0.629 | 0.677 | 5.58  |
| 20) T  | Methylene Chlorid   | 0.594          | 0.653 | 0.519 | 0.497 | 0.482 | 0.474 | 0.536 | 13.32 |
| 21) T  | trans-1,2-Dichlor   | 0.565          | 0.582 | 0.519 | 0.540 | 0.522 | 0.507 | 0.539 | 5.38  |
| 22) T  | Diisopropyl ether   | 1.557          | 1.488 | 1.414 | 1.500 | 1.477 | 1.465 | 1.483 | 3.16  |
| 23) T  | Vinyl Acetate       | 1.051          | 1.024 | 0.964 | 1.069 | 1.043 | 1.024 | 1.029 | 3.52  |
| 24) P  | 1,1-Dichloroethan   | 0.946          | 0.958 | 0.886 | 0.924 | 0.904 | 0.880 | 0.916 | 3.47  |
| 25) T  | 2-Butanone          | 0.174          | 0.175 | 0.163 | 0.188 | 0.181 | 0.178 | 0.177 | 4.58  |
| 26) T  | 2,2-Dichloropropa   | 0.510          | 0.508 | 0.456 | 0.463 | 0.435 | 0.406 | 0.463 | 8.86  |
| 27) T  | cis-1,2-Dichloroe   | 0.661          | 0.664 | 0.600 | 0.625 | 0.605 | 0.589 | 0.624 | 5.14  |
| 28) T  | Bromochloromethan   | 0.389          | 0.293 | 0.390 | 0.418 | 0.419 | 0.413 | 0.387 | 12.37 |
| 29) T  | Tetrahydrofuran     | 0.119          | 0.117 | 0.110 | 0.124 | 0.119 | 0.118 | 0.118 | 4.01  |
| 30) C  | Chloroform          | 1.008          | 1.004 | 0.920 | 0.968 | 0.937 | 0.919 | 0.959 | 4.20# |
| 31) T  | Cyclohexane         | 0.966          | 1.117 | 0.833 | 0.826 | 0.805 | 0.754 | 0.883 | 15.22 |
| 32) T  | 1,1,1-Trichloroet   | 0.794          | 0.809 | 0.731 | 0.745 | 0.718 | 0.684 | 0.747 | 6.32  |
| 33) S  | 1,2-Dichloroethan   | 0.544          | 0.448 | 0.490 | 0.553 | 0.527 | 0.499 | 0.510 | 7.63  |
| -----  |                     |                |       |       |       |       |       |       |       |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.317          | 0.283 | 0.286 | 0.317 | 0.299 | 0.277 | 0.297 | 5.79  |
| 36) T  | 1,1-Dichloroprope   | 0.466          | 0.473 | 0.416 | 0.430 | 0.412 | 0.389 | 0.431 | 7.59  |
| 37) T  | Ethyl Acetate       | 0.225          | 0.208 | 0.206 | 0.238 | 0.227 | 0.219 | 0.220 | 5.54  |
| 38) T  | Carbon Tetrachlor   | 0.462          | 0.479 | 0.423 | 0.442 | 0.421 | 0.398 | 0.438 | 6.77  |
| 39) T  | Methylcyclohexane   | 0.616          | 0.628 | 0.551 | 0.564 | 0.549 | 0.508 | 0.569 | 7.94  |
| 40) TM | Benzene             | 1.350          | 1.362 | 1.213 | 1.257 | 1.207 | 1.158 | 1.258 | 6.54  |
| 41) T  | Methacrylonitrile   | 0.131          | 0.127 | 0.121 | 0.140 | 0.136 | 0.133 | 0.131 | 5.07  |
| 42) TM | 1,2-Dichloroethan   | 0.384          | 0.384 | 0.353 | 0.375 | 0.354 | 0.347 | 0.366 | 4.58  |
| 43) T  | Isopropyl Acetate   | 0.459          | 0.464 | 0.417 | 0.478 | 0.454 | 0.441 | 0.452 | 4.64  |
| 44) TM | Trichloroethene     | 0.382          | 0.397 | 0.343 | 0.360 | 0.341 | 0.327 | 0.359 | 7.44  |
| 45) C  | 1,2-Dichloropropa   | 0.336          | 0.332 | 0.298 | 0.318 | 0.301 | 0.291 | 0.313 | 6.02# |
| 46) T  | Dibromomethane      | 0.189          | 0.192 | 0.176 | 0.186 | 0.176 | 0.171 | 0.181 | 4.65  |
| 47) T  | Bromodichlorometh   | 0.479          | 0.448 | 0.431 | 0.459 | 0.434 | 0.421 | 0.445 | 4.82  |
| 48) T  | Methyl methacryla   | 0.209          | 0.224 | 0.190 | 0.213 | 0.205 | 0.203 | 0.207 | 5.45  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 5.79  |
| 50) S  | Toluene-d8          | 1.212          | 1.012 | 1.093 | 1.217 | 1.160 | 1.065 | 1.127 | 7.39  |
| 51) T  | 4-Methyl-2-Pentan   | 0.235          | 0.239 | 0.218 | 0.246 | 0.238 | 0.233 | 0.235 | 4.03  |
| 52) CM | Toluene             | 0.901          | 0.895 | 0.812 | 0.846 | 0.809 | 0.777 | 0.840 | 5.95# |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.488          | 0.490 | 0.450 | 0.484 | 0.461 | 0.451 | 0.471 | 3.98  |
| 54) T  | cis-1,3-Dichlorop     | 0.566          | 0.558 | 0.510 | 0.543 | 0.514 | 0.500 | 0.532 | 5.16  |
| 55) T  | 1,1,2-Trichloroet     | 0.281          | 0.273 | 0.248 | 0.271 | 0.256 | 0.249 | 0.263 | 5.28  |
| 56) T  | Ethyl methacrylat     | 0.382          | 0.387 | 0.356 | 0.392 | 0.377 | 0.366 | 0.377 | 3.56  |
| 57) T  | 1,3-Dichloropropa     | 0.459          | 0.459 | 0.423 | 0.454 | 0.430 | 0.418 | 0.440 | 4.33  |
| 58) T  | 2-Chloroethyl Vin     | 0.156          | 0.138 | 0.153 | 0.180 | 0.175 | 0.170 | 0.162 | 9.79  |
| 59) T  | 2-Hexanone            | 0.168          | 0.165 | 0.152 | 0.176 | 0.170 | 0.166 | 0.166 | 4.73  |
| 60) T  | Dibromochlorometh     | 0.352          | 0.327 | 0.317 | 0.338 | 0.324 | 0.314 | 0.328 | 4.36  |
| 61) T  | 1,2-Dibromoethane     | 0.277          | 0.272 | 0.257 | 0.273 | 0.261 | 0.252 | 0.266 | 3.79  |
| 62) S  | 4-Bromofluorobenz     | 0.470          | 0.434 | 0.428 | 0.475 | 0.444 | 0.416 | 0.444 | 5.35  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.358          | 0.360 | 0.322 | 0.327 | 0.321 | 0.301 | 0.332 | 7.01  |
| 65) PM | Chlorobenzene         | 1.053          | 1.054 | 0.973 | 1.005 | 0.970 | 0.911 | 0.994 | 5.52  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.389          | 0.403 | 0.356 | 0.368 | 0.354 | 0.337 | 0.368 | 6.60  |
| 67) C  | Ethyl Benzene         | 1.902          | 1.928 | 1.714 | 1.762 | 1.704 | 1.589 | 1.767 | 7.27# |
| 68) T  | m/p-Xylenes           | 0.741          | 0.751 | 0.674 | 0.695 | 0.666 | 0.625 | 0.692 | 6.85  |
| 69) T  | o-Xylene              | 0.719          | 0.707 | 0.648 | 0.670 | 0.647 | 0.614 | 0.668 | 5.93  |
| 70) T  | Styrene               | 1.234          | 1.230 | 1.127 | 1.175 | 1.136 | 1.083 | 1.164 | 5.18  |
| 71) P  | Bromoform             | 0.222          | 0.215 | 0.205 | 0.226 | 0.214 | 0.204 | 0.215 | 4.11  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.894          | 3.951 | 3.502 | 3.653 | 3.554 | 3.387 | 3.657 | 6.12  |
| 74) T  | N-amyl acetate        | 1.033          | 0.995 | 0.935 | 1.074 | 1.081 | 1.082 | 1.033 | 5.71  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.744          | 0.748 | 0.664 | 0.746 | 0.723 | 0.700 | 0.721 | 4.61  |
| 76) T  | 1,2,3-Trichloropr     | 0.614          | 0.507 | 0.548 | 0.512 | 0.591 | 0.491 | 0.544 | 9.14  |
| 77) T  | Bromobenzene          | 0.905          | 0.898 | 0.804 | 0.860 | 0.820 | 0.795 | 0.847 | 5.67  |
| 78) T  | n-propylbenzene       | 4.650          | 4.614 | 4.077 | 4.262 | 4.140 | 3.897 | 4.273 | 7.07  |
| 79) T  | 2-Chlorotoluene       | 2.674          | 2.635 | 2.362 | 2.501 | 2.425 | 2.335 | 2.489 | 5.67  |
| 80) T  | 1,3,5-Trimethylbe     | 3.392          | 3.433 | 3.036 | 3.129 | 3.027 | 2.872 | 3.148 | 7.02  |
| 81) T  | trans-1,4-Dichlor     | 0.268          | 0.275 | 0.238 | 0.267 | 0.269 | 0.264 | 0.264 | 4.99  |
| 82) T  | 4-Chlorotoluene       | 2.810          | 2.716 | 2.478 | 2.610 | 2.554 | 2.479 | 2.608 | 5.12  |
| 83) T  | tert-Butylbenzene     | 2.849          | 2.876 | 2.563 | 2.660 | 2.556 | 2.409 | 2.652 | 6.86  |
| 84) T  | 1,2,4-Trimethylbe     | 3.397          | 3.433 | 3.022 | 3.135 | 3.022 | 2.882 | 3.148 | 7.05  |
| 85) T  | sec-Butylbenzene      | 4.081          | 4.092 | 3.610 | 3.746 | 3.595 | 3.379 | 3.751 | 7.61  |
| 86) T  | p-Isopropyltoluen     | 3.707          | 3.718 | 3.324 | 3.411 | 3.264 | 3.080 | 3.417 | 7.40  |
| 87) T  | 1,3-Dichlorobenze     | 1.764          | 1.779 | 1.581 | 1.636 | 1.567 | 1.515 | 1.640 | 6.62  |
| 88) T  | 1,4-Dichlorobenze     | 1.775          | 1.752 | 1.577 | 1.651 | 1.579 | 1.502 | 1.639 | 6.56  |
| 89) T  | n-Butylbenzene        | 3.500          | 3.559 | 3.112 | 3.258 | 3.142 | 2.975 | 3.258 | 7.06  |
| 90) T  | Hexachloroethane      | 0.735          | 0.721 | 0.650 | 0.686 | 0.652 | 0.617 | 0.677 | 6.71  |
| 91) T  | 1,2-Dichlorobenze     | 1.635          | 1.598 | 1.446 | 1.511 | 1.442 | 1.390 | 1.504 | 6.38  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.138          | 0.145 | 0.122 | 0.143 | 0.133 | 0.128 | 0.135 | 6.61  |
| 93) T  | 1,2,4-Trichlorobe     | 1.121          | 1.085 | 1.019 | 1.051 | 1.006 | 0.969 | 1.042 | 5.32  |
| 94) T  | Hexachlorobutadie     | 0.548          | 0.581 | 0.505 | 0.539 | 0.520 | 0.488 | 0.530 | 6.21  |
| 95) T  | Naphthalene           | 2.414          | 2.358 | 2.223 | 2.438 | 2.334 | 2.223 | 2.332 | 3.95  |
| 96) T  | 1,2,3-Trichlorobe     | 0.976          | 0.966 | 0.899 | 0.954 | 0.915 | 0.873 | 0.930 | 4.42  |

(#) = Out of Range