

Method Path : Z:\V0ASRV\HPCHEM1\MSV0A X\METHOD\  
 Method File : 82X090219S.M  
 Title : SW846 8260  
 Last Update : Tue Sep 03 05:18:49 2019  
 Response Via : Initial Calibration

## Calibration Files

10 =VX012011.D 5 =VX012010.D 20 =VX012012.D  
 50 =VX012013.D 100 =VX012014.D 150 =VX012015.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 0.314          | 0.301 | 0.294 | 0.296 | 0.305 | 0.301 | 0.302 | 2.42  |
| 3) P   | Chloromethane       | 0.292          | 0.308 | 0.267 | 0.295 | 0.316 | 0.321 | 0.300 | 6.51  |
| 4) C   | Vinyl Chloride      | 0.302          | 0.299 | 0.277 | 0.303 | 0.323 | 0.324 | 0.305 | 5.73# |
| 5) T   | Bromomethane        | 0.221          | 0.263 | 0.191 | 0.209 | 0.206 | 0.207 | 0.216 | 11.56 |
| 6) T   | Chloroethane        | 0.183          | 0.204 | 0.172 | 0.191 | 0.202 | 0.203 | 0.193 | 6.73  |
| 7) T   | Trichlorofluorome   | 0.567          | 0.538 | 0.526 | 0.549 | 0.570 | 0.569 | 0.553 | 3.37  |
| 8) T   | Diethyl Ether       | 0.166          | 0.170 | 0.156 | 0.165 | 0.179 | 0.173 | 0.168 | 4.70  |
| 9) T   | 1,1,2-Trichlorotr   | 0.369          | 0.318 | 0.345 | 0.354 | 0.363 | 0.365 | 0.352 | 5.36  |
| 10) T  | Methyl Iodide       | 0.259          | 0.277 | 0.286 | 0.378 | 0.453 | 0.458 | 0.352 | 25.69 |
| 11) T  | Tert butyl alcoho   | 0.037          | 0.039 | 0.035 | 0.035 | 0.037 | 0.036 | 0.037 | 4.35  |
| 12) CM | 1,1-Dichloroethen   | 0.319          | 0.296 | 0.300 | 0.328 | 0.345 | 0.340 | 0.321 | 6.29# |
| 13) T  | Acrolein            | 0.016          | 0.017 | 0.017 | 0.013 | 0.006 | 0.011 | 0.013 | 30.29 |
| 14) T  | Allyl chloride      | 0.541          | 0.546 | 0.504 | 0.546 | 0.595 | 0.572 | 0.551 | 5.60  |
| 15) T  | Acrylonitrile       | 0.087          | 0.081 | 0.082 | 0.087 | 0.092 | 0.088 | 0.086 | 4.47  |
| 16) T  | Acetone             | 0.090          | 0.101 | 0.078 | 0.084 | 0.089 | 0.080 | 0.087 | 9.60  |
| 17) T  | Carbon Disulfide    | 0.812          | 0.830 | 0.750 | 0.980 | 1.036 | 1.033 | 0.907 | 13.72 |
| 18) T  | Methyl Acetate      | 0.222          | 0.257 | 0.203 | 0.211 | 0.233 | 0.221 | 0.225 | 8.47  |
| 19) T  | Methyl tert-butyl   | 0.963          | 0.916 | 0.913 | 0.952 | 1.023 | 0.981 | 0.958 | 4.32  |
| 20) T  | Methylene Chlorid   | 0.393          | 0.455 | 0.355 | 0.366 | 0.394 | 0.386 | 0.392 | 8.89  |
| 21) T  | trans-1,2-Dichlor   | 0.372          | 0.387 | 0.346 | 0.381 | 0.409 | 0.397 | 0.382 | 5.66  |
| 22) T  | Diisopropyl ether   | 1.100          | 1.104 | 1.052 | 1.083 | 1.175 | 1.132 | 1.108 | 3.82  |
| 23) T  | Vinyl Acetate       | 0.686          | 0.627 | 0.665 | 0.719 | 0.760 | 0.721 | 0.696 | 6.79  |
| 24) P  | 1,1-Dichloroethan   | 0.651          | 0.646 | 0.606 | 0.632 | 0.679 | 0.660 | 0.646 | 3.86  |
| 25) T  | 2-Butanone          | 0.119          | 0.110 | 0.111 | 0.120 | 0.129 | 0.120 | 0.118 | 5.76  |
| 26) T  | 2,2-Dichloropropa   | 0.621          | 0.626 | 0.571 | 0.580 | 0.611 | 0.587 | 0.599 | 3.81  |
| 27) T  | cis-1,2-Dichloroe   | 0.434          | 0.439 | 0.404 | 0.435 | 0.467 | 0.454 | 0.439 | 4.87  |
| 28) T  | Bromochloromethan   | 0.253          | 0.289 | 0.247 | 0.287 | 0.271 | 0.247 | 0.265 | 7.37  |
| 29) T  | Tetrahydrofuran     | 0.070          | 0.067 | 0.070 | 0.075 | 0.079 | 0.075 | 0.073 | 6.42  |
| 30) C  | Chloroform          | 0.711          | 0.732 | 0.667 | 0.685 | 0.741 | 0.719 | 0.709 | 4.01# |
| 31) T  | Cyclohexane         | 0.547          | 0.541 | 0.505 | 0.539 | 0.549 | 0.548 | 0.538 | 3.14  |
| 32) T  | 1,1,1-Trichloroet   | 0.670          | 0.649 | 0.622 | 0.650 | 0.691 | 0.677 | 0.660 | 3.74  |
| 33) S  | 1,2-Dichloroethan   | 0.485          | 0.436 | 0.406 | 0.461 | 0.454 | 0.410 | 0.442 | 6.95  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.370          | 0.292 | 0.325 | 0.340 | 0.331 | 0.308 | 0.328 | 8.19  |
| 36) T  | 1,1-Dichloroprope   | 0.374          | 0.367 | 0.364 | 0.392 | 0.397 | 0.402 | 0.383 | 4.31  |
| 37) T  | Ethyl Acetate       | 0.183          | 0.170 | 0.185 | 0.201 | 0.206 | 0.203 | 0.192 | 7.45  |
| 38) T  | Carbon Tetrachlor   | 0.462          | 0.437 | 0.443 | 0.474 | 0.484 | 0.493 | 0.465 | 4.82  |
| 39) T  | Methylcyclohexane   | 0.464          | 0.455 | 0.447 | 0.468 | 0.469 | 0.483 | 0.465 | 2.68  |
| 40) TM | Benzene             | 1.088          | 1.081 | 1.039 | 1.110 | 1.156 | 1.154 | 1.105 | 4.10  |
| 41) T  | Methacrylonitrile   | 0.111          | 0.103 | 0.115 | 0.120 | 0.123 | 0.122 | 0.115 | 6.65  |
| 42) TM | 1,2-Dichloroethan   | 0.374          | 0.369 | 0.352 | 0.376 | 0.391 | 0.385 | 0.374 | 3.61  |
| 43) T  | Isopropyl Acetate   | 0.389          | 0.351 | 0.385 | 0.408 | 0.426 | 0.416 | 0.396 | 6.84  |
| 44) TM | Trichloroethene     | 0.362          | 0.366 | 0.342 | 0.370 | 0.380 | 0.382 | 0.367 | 3.95  |
| 45) C  | 1,2-Dichloropropa   | 0.273          | 0.270 | 0.271 | 0.279 | 0.289 | 0.286 | 0.278 | 2.93# |
| 46) T  | Dibromomethane      | 0.161          | 0.161 | 0.156 | 0.170 | 0.177 | 0.175 | 0.167 | 5.13  |
| 47) T  | Bromodichlorometh   | 0.415          | 0.406 | 0.398 | 0.421 | 0.444 | 0.441 | 0.421 | 4.43  |
| 48) T  | Methyl methacryla   | 0.190          | 0.175 | 0.186 | 0.200 | 0.212 | 0.209 | 0.195 | 7.24  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 3.35  |
| 50) S  | Toluene-d8          | 1.210          | 1.134 | 1.042 | 1.248 | 1.186 | 1.108 | 1.155 | 6.49  |
| 51) T  | 4-Methyl-2-Pentan   | 0.198          | 0.179 | 0.195 | 0.204 | 0.211 | 0.207 | 0.199 | 5.81  |
| 52) CM | Toluene             | 0.741          | 0.726 | 0.708 | 0.749 | 0.785 | 0.784 | 0.749 | 4.15# |

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|        | Compound              | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.412          | 0.405 | 0.406 | 0.430 | 0.451 | 0.451 | 0.426 | 5.02  |
| 54) T  | cis-1,3-Dichlorop     | 0.463          | 0.469 | 0.456 | 0.481 | 0.504 | 0.503 | 0.479 | 4.27  |
| 55) T  | 1,1,2-Trichloroet     | 0.244          | 0.234 | 0.235 | 0.244 | 0.253 | 0.251 | 0.243 | 3.22  |
| 56) T  | Ethyl methacrylat     | 0.319          | 0.288 | 0.303 | 0.332 | 0.349 | 0.347 | 0.323 | 7.58  |
| 57) T  | 1,3-Dichloropropa     | 0.398          | 0.381 | 0.387 | 0.405 | 0.417 | 0.410 | 0.400 | 3.43  |
| 58) T  | 2-Chloroethyl Vin     | 0.146          | 0.146 | 0.136 | 0.154 | 0.153 | 0.148 | 0.147 | 4.38  |
| 59) T  | 2-Hexanone            | 0.141          | 0.127 | 0.136 | 0.146 | 0.151 | 0.148 | 0.142 | 6.15  |
| 60) T  | Dibromochlorometh     | 0.327          | 0.315 | 0.325 | 0.339 | 0.361 | 0.363 | 0.338 | 5.87  |
| 61) T  | 1,2-Dibromoethane     | 0.236          | 0.225 | 0.229 | 0.247 | 0.259 | 0.258 | 0.242 | 6.06  |
| 62) S  | 4-Bromofluorobenz     | 0.592          | 0.467 | 0.505 | 0.499 | 0.479 | 0.454 | 0.499 | 9.83  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.417          | 0.431 | 0.389 | 0.403 | 0.418 | 0.411 | 0.412 | 3.45  |
| 65) PM | Chlorobenzene         | 0.944          | 0.958 | 0.906 | 0.927 | 0.969 | 0.960 | 0.944 | 2.49  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.368          | 0.369 | 0.372 | 0.371 | 0.397 | 0.395 | 0.379 | 3.57  |
| 67) C  | Ethyl Benzene         | 1.603          | 1.609 | 1.535 | 1.576 | 1.626 | 1.618 | 1.595 | 2.11# |
| 68) T  | m/p-Xylenes           | 0.628          | 0.635 | 0.597 | 0.618 | 0.641 | 0.638 | 0.626 | 2.64  |
| 69) T  | o-Xylene              | 0.612          | 0.614 | 0.579 | 0.592 | 0.626 | 0.621 | 0.607 | 2.97  |
| 70) T  | Stvrene               | 1.040          | 1.007 | 0.999 | 1.033 | 1.084 | 1.090 | 1.042 | 3.66  |
| 71) P  | Bromoform             | 0.246          | 0.245 | 0.253 | 0.264 | 0.285 | 0.284 | 0.263 | 6.92  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 2.839          | 2.827 | 2.780 | 2.776 | 2.763 | 2.757 | 2.790 | 1.23  |
| 74) T  | N-amyl acetate        | 0.681          | 0.615 | 0.702 | 0.723 | 0.730 | 0.723 | 0.696 | 6.25  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.515          | 0.490 | 0.511 | 0.515 | 0.521 | 0.513 | 0.511 | 2.08  |
| 76) T  | 1,2,3-Trichloropr     | 0.455          | 0.349 | 0.375 | 0.377 | 0.451 | 0.367 | 0.396 | 11.55 |
| 77) T  | Bromobenzene          | 0.822          | 0.818 | 0.799 | 0.805 | 0.824 | 0.827 | 0.816 | 1.36  |
| 78) T  | n-propylbenzene       | 3.197          | 3.186 | 3.113 | 3.121 | 3.133 | 3.090 | 3.140 | 1.35  |
| 79) T  | 2-Chlorotoluene       | 1.888          | 1.904 | 1.821 | 1.825 | 1.863 | 1.852 | 1.859 | 1.79  |
| 80) T  | 1,3,5-Trimethylbe     | 2.443          | 2.470 | 2.335 | 2.365 | 2.422 | 2.406 | 2.407 | 2.08  |
| 81) T  | trans-1,4-Dichlor     | 0.167          | 0.160 | 0.166 | 0.169 | 0.172 | 0.173 | 0.168 | 2.78  |
| 82) T  | 4-Chlorotoluene       | 2.266          | 2.313 | 2.192 | 2.196 | 2.215 | 2.200 | 2.230 | 2.19  |
| 83) T  | tert-Butylbenzene     | 2.529          | 2.479 | 2.448 | 2.455 | 2.509 | 2.507 | 2.488 | 1.30  |
| 84) T  | 1,2,4-Trimethylbe     | 2.453          | 2.513 | 2.370 | 2.401 | 2.452 | 2.447 | 2.439 | 2.02  |
| 85) T  | sec-Butylbenzene      | 2.919          | 2.883 | 2.843 | 2.820 | 2.843 | 2.838 | 2.858 | 1.28  |
| 86) T  | p-Isopropyltoluen     | 2.841          | 2.849 | 2.714 | 2.752 | 2.803 | 2.829 | 2.798 | 1.94  |
| 87) T  | 1,3-Dichlorobenze     | 1.542          | 1.600 | 1.479 | 1.481 | 1.535 | 1.543 | 1.530 | 2.96  |
| 88) T  | 1,4-Dichlorobenze     | 1.523          | 1.583 | 1.459 | 1.489 | 1.535 | 1.532 | 1.520 | 2.78  |
| 89) T  | n-Butylbenzene        | 2.457          | 2.495 | 2.366 | 2.376 | 2.417 | 2.429 | 2.423 | 2.01  |
| 90) T  | Hexachloroethane      | 0.525          | 0.515 | 0.510 | 0.520 | 0.538 | 0.544 | 0.525 | 2.55  |
| 91) T  | 1,2-Dichlorobenze     | 1.372          | 1.390 | 1.345 | 1.370 | 1.396 | 1.414 | 1.381 | 1.73  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.100          | 0.096 | 0.096 | 0.103 | 0.105 | 0.102 | 0.100 | 3.58  |
| 93) T  | 1,2,4-Trichlorobe     | 1.168          | 1.309 | 1.110 | 1.177 | 1.217 | 1.230 | 1.202 | 5.62  |
| 94) T  | Hexachlorobutadie     | 0.850          | 0.841 | 0.811 | 0.828 | 0.848 | 0.859 | 0.840 | 2.07  |
| 95) T  | Naphthalene           | 1.810          | 1.938 | 1.707 | 1.870 | 1.889 | 1.875 | 1.848 | 4.36  |
| 96) T  | 1,2,3-Trichlorobe     | 1.040          | 1.157 | 0.963 | 1.054 | 1.062 | 1.064 | 1.057 | 5.86  |

(#) = Out of Range