

Method Path : Z:\VOASRV\HPCHEM1\MSV0A D\METHOD\  
 Method File : 82D092220S.M  
 Title : SW846 8260  
 Last Update : Wed Sep 23 01:34:05 2020  
 Response Via : Initial Calibration

## Calibration Files

10 =VD066803.D 5 =VD066802.D 20 =VD066804.D  
 50 =VD066805.D 100 =VD066806.D 150 =VD066807.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| -----  |                     |                |       |       |       |       |       |       |        |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluorom   | 0.477          | 0.520 | 0.475 | 0.341 | 0.340 | 0.317 | 0.412 | 21.54  |
| 3) P   | Chloromethane       | 0.512          | 0.544 | 0.492 | 0.414 | 0.406 | 0.389 | 0.459 | 14.05  |
| 4) C   | Vinyl Chloride      | 0.504          | 0.538 | 0.463 | 0.427 | 0.404 | 0.387 | 0.454 | 12.99# |
| 5) T   | Bromomethane        | 0.350          | 0.371 | 0.325 | 0.300 | 0.294 | 0.274 | 0.319 | 11.45  |
| 6) T   | Chloroethane        | 0.296          | 0.321 | 0.293 | 0.265 | 0.265 | 0.251 | 0.282 | 9.19   |
| 7) T   | Trichlorofluorome   | 1.032          | 1.093 | 0.951 | 0.874 | 0.848 | 0.794 | 0.932 | 12.32  |
| 8) T   | Diethyl Ether       | 0.237          | 0.249 | 0.228 | 0.243 | 0.239 | 0.225 | 0.237 | 3.86   |
| 9) T   | 1,1,2-Trichlorotr   | 0.579          | 0.652 | 0.559 | 0.506 | 0.490 | 0.458 | 0.540 | 13.02  |
| 10) T  | Methyl Iodide       | 0.436          | 0.424 | 0.450 | 0.494 | 0.528 | 0.530 | 0.477 | 9.77   |
| 11) T  | Tert butyl alcoho   | 0.045          | 0.070 | 0.038 | 0.031 | 0.029 | 0.025 | 0.040 | 41.77  |
| 12) CM | 1,1-Dichloroethen   | 0.519          | 0.534 | 0.503 | 0.489 | 0.456 | 0.436 | 0.490 | 7.65#  |
| 13) T  | Acrolein            | 0.038          | 0.036 | 0.037 | 0.036 | 0.037 | 0.033 | 0.036 | 5.45   |
| 14) T  | Allyl chloride      | 0.731          | 0.718 | 0.721 | 0.731 | 0.719 | 0.694 | 0.719 | 1.89   |
| 15) T  | Acrylonitrile       | 0.104          | 0.111 | 0.105 | 0.108 | 0.106 | 0.095 | 0.105 | 5.20   |
| 16) T  | Acetone             | 0.098          | 0.123 | 0.097 | 0.110 | 0.103 | 0.091 | 0.104 | 11.10  |
| 17) T  | Carbon Disulfide    | 1.661          | 1.536 | 1.581 | 1.479 | 1.397 | 1.327 | 1.497 | 8.16   |
| 18) T  | Methyl Acetate      | 0.230          | 0.381 | 0.246 | 0.244 | 0.236 | 0.214 | 0.258 | 23.66  |
| 19) T  | Methyl tert-butyl   | 1.019          | 1.032 | 1.044 | 1.122 | 1.122 | 1.040 | 1.063 | 4.36   |
| 20) T  | Methylene Chlorid   | 0.764          | 1.010 | 0.638 | 0.584 | 0.550 | 0.505 | 0.675 | 27.64  |
| 21) T  | trans-1,2-Dichlor   | 0.595          | 0.608 | 0.571 | 0.565 | 0.543 | 0.520 | 0.567 | 5.71   |
| 22) T  | Diisopropyl ether   | 1.458          | 1.388 | 1.556 | 1.557 | 1.504 | 1.405 | 1.478 | 4.96   |
| 23) T  | Vinyl Acetate       | 0.667          | 0.462 | 0.748 | 0.848 | 0.850 | 0.786 | 0.727 | 20.16  |
| 24) P  | 1,1-Dichloroethan   | 1.031          | 1.107 | 0.979 | 0.990 | 0.943 | 0.884 | 0.989 | 7.67   |
| 25) T  | 2-Butanone          | 0.119          | 0.135 | 0.126 | 0.130 | 0.126 | 0.112 | 0.125 | 6.51   |
| 26) T  | 2,2-Dichloropropa   | 0.979          | 1.058 | 0.902 | 0.871 | 0.836 | 0.793 | 0.906 | 10.73  |
| 27) T  | cis-1,2-Dichloroe   | 0.628          | 0.599 | 0.638 | 0.633 | 0.613 | 0.584 | 0.616 | 3.42   |
| 28) T  | Bromochloromethan   | 0.421          | 0.384 | 0.395 | 0.426 | 0.430 | 0.396 | 0.409 | 4.76   |
| 29) T  | Tetrahydrofuran     | 0.073          | 0.086 | 0.078 | 0.085 | 0.083 | 0.075 | 0.080 | 6.91   |
| 30) C  | Cyclohexane         | 1.107          | 1.206 | 1.077 | 1.047 | 0.999 | 0.960 | 1.066 | 8.16#  |
| 31) T  | Cyclohexane         | 0.967          | 1.065 | 0.909 | 0.842 | 0.801 | 0.754 | 0.890 | 12.88  |
| 32) T  | 1,1,1-Trichloroet   | 0.994          | 1.076 | 0.974 | 0.957 | 0.915 | 0.871 | 0.964 | 7.27   |
| 33) S  | 1,2-Dichloroethan   | 0.500          | 0.576 | 0.480 | 0.474 | 0.475 | 0.432 | 0.489 | 9.76   |
|        |                     |                |       |       |       |       |       |       |        |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorometh   | 0.333          | 0.352 | 0.311 | 0.317 | 0.305 | 0.290 | 0.318 | 6.85   |
| 36) T  | 1,1-Dichloroprope   | 0.511          | 0.520 | 0.505 | 0.500 | 0.479 | 0.462 | 0.496 | 4.37   |
| 37) T  | Ethyl Acetate       | 0.169          | 0.186 | 0.166 | 0.196 | 0.188 | 0.172 | 0.179 | 6.74   |
| 38) T  | Carbon Tetrachlor   | 0.579          | 0.590 | 0.538 | 0.537 | 0.512 | 0.498 | 0.542 | 6.70   |
| 39) T  | Methylcyclohexane   | 0.578          | 0.543 | 0.575 | 0.592 | 0.572 | 0.556 | 0.570 | 3.08   |
| 40) TM | Benzene             | 1.436          | 1.423 | 1.401 | 1.411 | 1.323 | 1.302 | 1.382 | 4.05   |
| 41) T  | Methacrylonitrile   | 0.096          | 0.096 | 0.135 | 0.114 | 0.115 | 0.106 | 0.110 | 13.17  |
| 42) TM | 1,2-Dichloroethan   | 0.415          | 0.445 | 0.416 | 0.409 | 0.394 | 0.373 | 0.409 | 5.84   |
| 43) T  | Isopropyl Acetate   | 0.325          | 0.357 | 0.334 | 0.365 | 0.358 | 0.335 | 0.346 | 4.72   |
| 44) TM | Trichloroethene     | 0.415          | 0.420 | 0.390 | 0.391 | 0.379 | 0.370 | 0.394 | 5.03   |
| 45) C  | 1,2-Dichloropropa   | 0.363          | 0.366 | 0.345 | 0.356 | 0.336 | 0.321 | 0.348 | 4.96#  |
| 46) T  | Dibromomethane      | 0.189          | 0.185 | 0.191 | 0.199 | 0.189 | 0.180 | 0.189 | 3.32   |
| 47) T  | Bromodichlorometh   | 0.528          | 0.529 | 0.513 | 0.513 | 0.490 | 0.474 | 0.508 | 4.29   |
| 48) T  | Methyl methacryla   | 0.146          | 0.172 | 0.159 | 0.178 | 0.190 | 0.178 | 0.170 | 9.19   |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 16.59  |
| 50) S  | Toluene-d8          | 1.109          | 1.112 | 1.034 | 1.118 | 1.089 | 1.040 | 1.084 | 3.47   |
| 51) T  | 4-Methyl-2-Pentan   | 0.163          | 0.179 | 0.166 | 0.191 | 0.185 | 0.167 | 0.175 | 6.51   |
| 52) CM | Toluene             | 0.899          | 0.878 | 0.903 | 0.920 | 0.887 | 0.856 | 0.890 | 2.51#  |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.413          | 0.408 | 0.423 | 0.462 | 0.451 | 0.435 | 0.432 | 4.92  |
| 54) T  | cis-1,3-Dichlorop     | 0.514          | 0.512 | 0.520 | 0.554 | 0.536 | 0.526 | 0.527 | 2.99  |
| 55) T  | 1,1,2-Trichloroet     | 0.261          | 0.283 | 0.262 | 0.261 | 0.252 | 0.240 | 0.260 | 5.53  |
| 56) T  | Ethyl methacrylat     | 0.239          | 0.253 | 0.264 | 0.309 | 0.311 | 0.293 | 0.278 | 10.86 |
| 57) T  | 1,3-Dichloropropa     | 0.439          | 0.429 | 0.433 | 0.441 | 0.427 | 0.404 | 0.429 | 3.10  |
| 58) T  | 2-Chloroethyl Vin     | 0.134          | 0.126 | 0.146 | 0.130 | 0.133 | 0.122 | 0.132 | 6.15  |
| 59) T  | 2-Hexanone            | 0.110          | 0.111 | 0.114 | 0.132 | 0.128 | 0.114 | 0.118 | 7.92  |
| 60) T  | Dibromochlorometh     | 0.333          | 0.368 | 0.333 | 0.345 | 0.338 | 0.319 | 0.339 | 4.82  |
| 61) T  | 1,2-Dibromoethane     | 0.240          | 0.242 | 0.235 | 0.251 | 0.247 | 0.235 | 0.242 | 2.68  |
| 62) S  | 4-Bromofluorobenz     | 0.362          | 0.395 | 0.364 | 0.368 | 0.379 | 0.358 | 0.371 | 3.66  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.370          | 0.409 | 0.369 | 0.350 | 0.335 | 0.325 | 0.360 | 8.41  |
| 65) PM | Chlorobenzene         | 1.076          | 1.109 | 1.043 | 1.032 | 1.009 | 0.976 | 1.041 | 4.53  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.399          | 0.411 | 0.394 | 0.397 | 0.384 | 0.378 | 0.394 | 2.97  |
| 67) C  | Ethyl Benzene         | 1.803          | 1.773 | 1.839 | 1.899 | 1.847 | 1.807 | 1.828 | 2.40# |
| 68) T  | m/p-Xylenes           | 0.688          | 0.656 | 0.704 | 0.719 | 0.700 | 0.685 | 0.692 | 3.07  |
| 69) T  | o-Xylene              | 0.606          | 0.585 | 0.626 | 0.657 | 0.644 | 0.636 | 0.626 | 4.21  |
| 70) T  | Stvrene               | 1.044          | 1.020 | 1.092 | 1.156 | 1.121 | 1.087 | 1.087 | 4.55  |
| 71) P  | Bromoform             | 0.206          | 0.206 | 0.192 | 0.205 | 0.200 | 0.187 | 0.199 | 4.05  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.590          | 3.367 | 3.593 | 3.849 | 3.641 | 3.633 | 3.612 | 4.26  |
| 74) T  | N-amyl acetate        | 0.644          | 0.671 | 0.667 | 0.778 | 0.762 | 0.711 | 0.705 | 7.74  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.645          | 0.660 | 0.615 | 0.643 | 0.611 | 0.566 | 0.623 | 5.43  |
| 76) T  | 1,2,3-Trichloropr     | 0.410          | 0.512 | 0.379 | 0.422 | 0.396 | 0.367 | 0.414 | 12.50 |
| 77) T  | Bromobenzene          | 0.846          | 0.857 | 0.848 | 0.880 | 0.825 | 0.811 | 0.845 | 2.87  |
| 78) T  | n-propylbenzene       | 4.443          | 4.177 | 4.337 | 4.585 | 4.303 | 4.227 | 4.345 | 3.43  |
| 79) T  | 2-Chlorotoluene       | 2.536          | 2.481 | 2.487 | 2.530 | 2.455 | 2.369 | 2.476 | 2.46  |
| 80) T  | 1,3,5-Trimethylbe     | 3.131          | 2.812 | 3.124 | 3.218 | 3.081 | 3.022 | 3.065 | 4.55  |
| 81) T  | trans-1,4-Dichlor     | 0.152          | 0.148 | 0.149 | 0.184 | 0.181 | 0.180 | 0.166 | 10.54 |
| 82) T  | 4-Chlorotoluene       | 2.735          | 2.559 | 2.654 | 2.696 | 2.530 | 2.488 | 2.610 | 3.80  |
| 83) T  | tert-Butylbenzene     | 2.460          | 2.378 | 2.462 | 2.658 | 2.582 | 2.571 | 2.518 | 4.08  |
| 84) T  | 1,2,4-Trimethylbe     | 3.004          | 2.838 | 3.105 | 3.197 | 3.068 | 3.022 | 3.039 | 3.95  |
| 85) T  | sec-Butylbenzene      | 3.711          | 3.457 | 3.641 | 3.786 | 3.594 | 3.542 | 3.622 | 3.26  |
| 86) T  | p-Isopropyltoluen     | 3.199          | 2.984 | 3.294 | 3.462 | 3.334 | 3.313 | 3.264 | 4.94  |
| 87) T  | 1,3-Dichlorobenze     | 1.737          | 1.796 | 1.652 | 1.691 | 1.568 | 1.569 | 1.669 | 5.47  |
| 88) T  | 1,4-Dichlorobenze     | 1.742          | 1.902 | 1.590 | 1.648 | 1.548 | 1.516 | 1.658 | 8.67  |
| 89) T  | n-Butylbenzene        | 3.014          | 3.038 | 3.093 | 3.267 | 3.153 | 3.051 | 3.103 | 3.04  |
| 90) T  | Hexachloroethane      | 0.686          | 0.688 | 0.644 | 0.663 | 0.649 | 0.646 | 0.663 | 3.01  |
| 91) T  | 1,2-Dichlorobenze     | 1.495          | 1.509 | 1.390 | 1.439 | 1.393 | 1.341 | 1.428 | 4.60  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.102          | 0.112 | 0.089 | 0.103 | 0.101 | 0.094 | 0.100 | 8.11  |
| 93) T  | 1,2,4-Trichlorobe     | 0.864          | 0.860 | 0.876 | 0.929 | 0.938 | 0.927 | 0.899 | 4.03  |
| 94) T  | Hexachlorobutadie     | 0.548          | 0.578 | 0.513 | 0.551 | 0.522 | 0.521 | 0.539 | 4.57  |
| 95) T  | Naphthalene           | 1.244          | 1.346 | 1.396 | 1.732 | 1.746 | 1.692 | 1.526 | 14.57 |
| 96) T  | 1,2,3-Trichlorobe     | 0.740          | 0.737 | 0.758 | 0.830 | 0.795 | 0.796 | 0.776 | 4.78  |

(#) = Out of Range