

Method Path : Z:\VOASRV\HPCHEM1\MSVOA D\METHOD\  
 Method File : 82D100120S.M  
 Title : SW846 8260  
 Last Update : Thu Oct 01 15:19:17 2020  
 Response Via : Initial Calibration

## Calibration Files

10 =VD066986.D 5 =VD066985.D 20 =VD066987.D  
 50 =VD066988.D 100 =VD066989.D 150 =VD066990.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| -----  |                     |                |       |       |       |       |       |       |        |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluorom   | 0.526          | 0.494 | 0.526 | 0.430 | 0.371 | 0.377 | 0.454 | 15.67  |
| 3) P   | Chloromethane       | 0.446          | 0.437 | 0.437 | 0.375 | 0.331 | 0.363 | 0.398 | 12.11  |
| 4) C   | Vinyl Chloride      | 0.454          | 0.434 | 0.410 | 0.389 | 0.353 | 0.356 | 0.399 | 10.29# |
| 5) T   | Bromomethane        | 0.336          | 0.348 | 0.303 | 0.275 | 0.241 | 0.243 | 0.291 | 15.76  |
| 6) T   | Chloroethane        | 0.262          | 0.282 | 0.258 | 0.240 | 0.209 | 0.209 | 0.243 | 12.25  |
| 7) T   | Trichlorofluorome   | 0.971          | 1.063 | 0.910 | 0.860 | 0.757 | 0.762 | 0.887 | 13.50  |
| 8) T   | Diethyl Ether       | 0.215          | 0.226 | 0.230 | 0.227 | 0.203 | 0.219 | 0.220 | 4.57   |
| 9) T   | 1,1,2-Trichlorotr   | 0.556          | 0.564 | 0.525 | 0.487 | 0.437 | 0.440 | 0.501 | 11.11  |
| 10) T  | Methyl Iodide       | 0.456          | 0.450 | 0.480 | 0.505 | 0.511 | 0.521 | 0.487 | 6.14   |
| 11) T  | Tert butyl alcoho   | 0.050          | 0.078 | 0.042 | 0.028 | 0.023 | 0.026 | 0.041 | 50.84  |
| 12) CM | 1,1-Dichloroethen   | 0.512          | 0.522 | 0.490 | 0.465 | 0.414 | 0.426 | 0.471 | 9.46#  |
| 13) T  | Acrolein            | 0.032          | 0.038 | 0.034 | 0.030 | 0.028 | 0.030 | 0.032 | 10.56  |
| 14) T  | Allyl chloride      | 0.649          | 0.586 | 0.631 | 0.631 | 0.576 | 0.601 | 0.612 | 4.70   |
| 15) T  | Acrylonitrile       | 0.082          | 0.085 | 0.085 | 0.082 | 0.072 | 0.080 | 0.081 | 6.02   |
| 16) T  | Acetone             | 0.075          | 0.088 | 0.073 | 0.076 | 0.062 | 0.067 | 0.074 | 12.03  |
| 17) T  | Carbon Disulfide    | 1.560          | 1.537 | 1.519 | 1.431 | 1.305 | 1.326 | 1.447 | 7.63   |
| 18) T  | Methyl Acetate      | 0.184          | 0.201 | 0.191 | 0.187 | 0.165 | 0.181 | 0.185 | 6.43   |
| 19) T  | Methyl tert-butyl   | 0.843          | 0.840 | 0.883 | 0.919 | 0.804 | 0.873 | 0.860 | 4.64   |
| 20) T  | Methylene Chlorid   | 0.820          | 1.047 | 0.661 | 0.553 | 0.464 | 0.476 | 0.670 | 33.93  |
| 21) T  | trans-1,2-Dichlor   | 0.540          | 0.601 | 0.563 | 0.541 | 0.486 | 0.487 | 0.536 | 8.32   |
| 22) T  | Diisopropyl ether   | 1.176          | 1.107 | 1.191 | 1.182 | 1.017 | 1.034 | 1.118 | 6.93   |
| 23) T  | Vinyl Acetate       | 0.601          | 0.574 | 0.653 | 0.699 | 0.619 | 0.655 | 0.633 | 7.00   |
| 24) P  | 1,1-Dichloroethan   | 0.916          | 0.941 | 0.911 | 0.866 | 0.759 | 0.784 | 0.863 | 8.72   |
| 25) T  | 2-Butanone          | 0.106          | 0.123 | 0.108 | 0.104 | 0.089 | 0.096 | 0.104 | 10.88  |
| 26) T  | 2,2-Dichloropropa   | 0.910          | 1.016 | 0.855 | 0.791 | 0.699 | 0.695 | 0.828 | 15.13  |
| 27) T  | cis-1,2-Dichloroe   | 0.614          | 0.598 | 0.590 | 0.582 | 0.527 | 0.526 | 0.573 | 6.53   |
| 28) T  | Bromochloromethan   | 0.327          | 0.352 | 0.340 | 0.357 | 0.313 | 0.310 | 0.333 | 5.91   |
| 29) T  | Tetrahydrofuran     | 0.062          | 0.061 | 0.061 | 0.063 | 0.054 | 0.059 | 0.060 | 5.56   |
| 30) C  | Chloroform          | 0.996          | 1.044 | 0.986 | 0.923 | 0.826 | 0.841 | 0.936 | 9.44#  |
| 31) T  | Cyclohexane         | 0.783          | 0.880 | 0.747 | 0.699 | 0.616 | 0.614 | 0.723 | 14.19  |
| 32) T  | 1,1,1-Trichloroet   | 0.920          | 0.960 | 0.921 | 0.859 | 0.769 | 0.775 | 0.867 | 9.29   |
| 33) S  | 1,2-Dichloroethan   | 0.505          | 0.508 | 0.499 | 0.499 | 0.430 | 0.449 | 0.482 | 6.91   |
| -----  |                     |                |       |       |       |       |       |       |        |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorometh   | 0.341          | 0.314 | 0.347 | 0.348 | 0.306 | 0.308 | 0.327 | 6.16   |
| 36) T  | 1,1-Dichloroprope   | 0.492          | 0.518 | 0.477 | 0.474 | 0.424 | 0.411 | 0.466 | 8.83   |
| 37) T  | Ethyl Acetate       | 0.166          | 0.181 | 0.165 | 0.164 | 0.143 | 0.149 | 0.161 | 8.35   |
| 38) T  | Carbon Tetrachlor   | 0.532          | 0.529 | 0.532 | 0.516 | 0.466 | 0.450 | 0.504 | 7.22   |
| 39) T  | Methylcyclohexane   | 0.467          | 0.512 | 0.489 | 0.534 | 0.484 | 0.470 | 0.493 | 5.26   |
| 40) TM | Benzene             | 1.404          | 1.368 | 1.356 | 1.321 | 1.181 | 1.136 | 1.294 | 8.45   |
| 41) T  | Methacrylonitrile   | 0.077          | 0.093 | 0.093 | 0.096 | 0.073 | 0.091 | 0.087 | 10.79  |
| 42) TM | 1,2-Dichloroethan   | 0.389          | 0.390 | 0.376 | 0.367 | 0.322 | 0.325 | 0.362 | 8.48   |
| 43) T  | Isopropyl Acetate   | 0.302          | 0.301 | 0.298 | 0.313 | 0.276 | 0.293 | 0.297 | 4.13   |
| 44) TM | Trichloroethene     | 0.396          | 0.424 | 0.406 | 0.389 | 0.356 | 0.349 | 0.387 | 7.55   |
| 45) C  | 1,2-Dichloropropa   | 0.318          | 0.309 | 0.318 | 0.319 | 0.282 | 0.279 | 0.304 | 6.09#  |
| 46) T  | Dibromomethane      | 0.178          | 0.189 | 0.182 | 0.185 | 0.157 | 0.158 | 0.175 | 7.92   |
| 47) T  | Bromodichlorometh   | 0.491          | 0.467 | 0.472 | 0.468 | 0.417 | 0.413 | 0.454 | 7.04   |
| 48) T  | Methyl methacryla   | 0.147          | 0.152 | 0.144 | 0.170 | 0.146 | 0.155 | 0.152 | 6.32   |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 10.10  |
| 50) S  | Toluene-d8          | 1.213          | 1.149 | 1.241 | 1.308 | 1.130 | 1.116 | 1.193 | 6.25   |
| 51) T  | 4-Methyl-2-Pentan   | 0.149          | 0.147 | 0.154 | 0.161 | 0.137 | 0.140 | 0.148 | 6.02   |
| 52) CM | Toluene             | 0.875          | 0.842 | 0.876 | 0.882 | 0.777 | 0.751 | 0.834 | 6.78#  |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.406          | 0.409 | 0.421 | 0.432 | 0.381 | 0.388 | 0.406 | 4.78  |
| 54) T  | cis-1,3-Dichlorop     | 0.509          | 0.499 | 0.527 | 0.516 | 0.463 | 0.463 | 0.496 | 5.51  |
| 55) T  | 1,1,2-Trichloroet     | 0.253          | 0.262 | 0.258 | 0.252 | 0.216 | 0.217 | 0.243 | 8.62  |
| 56) T  | Ethyl methacrylat     | 0.234          | 0.207 | 0.257 | 0.288 | 0.255 | 0.264 | 0.251 | 11.02 |
| 57) T  | 1,3-Dichloropropa     | 0.413          | 0.404 | 0.407 | 0.413 | 0.360 | 0.367 | 0.394 | 6.08  |
| 58) T  | 2-Chloroethyl Vin     | 0.132          | 0.122 | 0.147 | 0.155 | 0.143 | 0.139 | 0.140 | 8.22  |
| 59) T  | 2-Hexanone            | 0.098          | 0.093 | 0.104 | 0.110 | 0.092 | 0.096 | 0.099 | 6.91  |
| 60) T  | Dibromochlorometh     | 0.342          | 0.334 | 0.337 | 0.341 | 0.291 | 0.298 | 0.324 | 7.11  |
| 61) T  | 1,2-Dibromoethane     | 0.246          | 0.233 | 0.243 | 0.248 | 0.213 | 0.217 | 0.233 | 6.53  |
| 62) S  | 4-Bromofluorobenz     | 0.400          | 0.409 | 0.418 | 0.434 | 0.387 | 0.382 | 0.405 | 4.84  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.384          | 0.408 | 0.386 | 0.359 | 0.325 | 0.319 | 0.364 | 9.78  |
| 65) PM | Chlorobenzene         | 1.029          | 1.075 | 1.061 | 1.002 | 0.909 | 0.891 | 0.994 | 7.80  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.398          | 0.409 | 0.399 | 0.381 | 0.340 | 0.343 | 0.378 | 7.94  |
| 67) C  | Ethyl Benzene         | 1.711          | 1.738 | 1.780 | 1.792 | 1.607 | 1.595 | 1.704 | 4.97# |
| 68) T  | m/p-Xylenes           | 0.686          | 0.650 | 0.712 | 0.695 | 0.625 | 0.617 | 0.664 | 5.88  |
| 69) T  | o-Xylene              | 0.593          | 0.553 | 0.632 | 0.639 | 0.574 | 0.571 | 0.594 | 5.87  |
| 70) T  | Stvrene               | 1.015          | 0.947 | 1.101 | 1.099 | 0.970 | 0.985 | 1.020 | 6.50  |
| 71) P  | Bromoform             | 0.199          | 0.217 | 0.202 | 0.200 | 0.176 | 0.185 | 0.196 | 7.25  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.340          | 3.207 | 3.529 | 3.654 | 3.335 | 3.305 | 3.395 | 4.85  |
| 74) T  | N-amyl acetate        | 0.586          | 0.604 | 0.634 | 0.648 | 0.582 | 0.609 | 0.610 | 4.31  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.612          | 0.606 | 0.597 | 0.584 | 0.505 | 0.528 | 0.572 | 7.80  |
| 76) T  | 1,2,3-Trichloropr     | 0.490          | 0.434 | 0.475 | 0.459 | 0.331 | 0.425 | 0.436 | 13.03 |
| 77) T  | Bromobenzene          | 0.833          | 0.860 | 0.857 | 0.834 | 0.769 | 0.766 | 0.820 | 5.15  |
| 78) T  | n-propylbenzene       | 4.036          | 3.857 | 4.233 | 4.312 | 3.840 | 3.797 | 4.012 | 5.45  |
| 79) T  | 2-Chlorotoluene       | 2.326          | 2.261 | 2.441 | 2.399 | 2.182 | 2.164 | 2.296 | 4.94  |
| 80) T  | 1,3,5-Trimethylbe     | 2.908          | 2.618 | 3.027 | 3.106 | 2.783 | 2.769 | 2.868 | 6.31  |
| 81) T  | trans-1,4-Dichlor     | 0.175          | 0.179 | 0.174 | 0.182 | 0.167 | 0.172 | 0.175 | 3.04  |
| 82) T  | 4-Chlorotoluene       | 2.560          | 2.454 | 2.601 | 2.522 | 2.268 | 2.250 | 2.442 | 6.15  |
| 83) T  | tert-Butylbenzene     | 2.392          | 2.354 | 2.467 | 2.551 | 2.366 | 2.362 | 2.415 | 3.24  |
| 84) T  | 1,2,4-Trimethylbe     | 2.930          | 2.671 | 3.046 | 3.045 | 2.731 | 2.752 | 2.863 | 5.79  |
| 85) T  | sec-Butylbenzene      | 3.346          | 3.322 | 3.545 | 3.642 | 3.293 | 3.261 | 3.402 | 4.55  |
| 86) T  | p-Isopropyltoluen     | 3.183          | 2.973 | 3.310 | 3.367 | 3.016 | 3.073 | 3.154 | 5.09  |
| 87) T  | 1,3-Dichlorobenze     | 1.698          | 1.677 | 1.686 | 1.615 | 1.444 | 1.461 | 1.597 | 7.24  |
| 88) T  | 1,4-Dichlorobenze     | 1.689          | 1.752 | 1.655 | 1.599 | 1.435 | 1.450 | 1.597 | 8.09  |
| 89) T  | n-Butylbenzene        | 2.882          | 2.753 | 2.975 | 3.087 | 2.796 | 2.801 | 2.882 | 4.42  |
| 90) T  | Hexachloroethane      | 0.558          | 0.576 | 0.551 | 0.569 | 0.528 | 0.532 | 0.552 | 3.54  |
| 91) T  | 1,2-Dichlorobenze     | 1.433          | 1.515 | 1.456 | 1.416 | 1.263 | 1.285 | 1.395 | 7.14  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.094          | 0.103 | 0.089 | 0.095 | 0.083 | 0.089 | 0.092 | 7.55  |
| 93) T  | 1,2,4-Trichlorobe     | 0.848          | 0.859 | 0.920 | 0.963 | 0.904 | 0.918 | 0.902 | 4.74  |
| 94) T  | Hexachlorobutadie     | 0.570          | 0.589 | 0.542 | 0.567 | 0.530 | 0.526 | 0.554 | 4.54  |
| 95) T  | Naphthalene           | 1.237          | 1.324 | 1.462 | 1.685 | 1.600 | 1.720 | 1.505 | 13.08 |
| 96) T  | 1,2,3-Trichlorobe     | 0.741          | 0.737 | 0.797 | 0.848 | 0.774 | 0.802 | 0.783 | 5.36  |

(#) = Out of Range