

Method Path : Z:\VOASRV\HPCHEM1\MSVOA D\METHOD\  
 Method File : 82D120120S.M  
 Title : SW846 8260  
 Last Update : Wed Dec 02 08:05:58 2020  
 Response Via : Initial Calibration

## Calibration Files

10 =VD067828.D 5 =VD067827.D 20 =VD067829.D  
 50 =VD067830.D 100 =VD067831.D 150 =VD067832.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avq   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluorom   | 0.460          | 0.450 | 0.411 | 0.438 | 0.424 | 0.428 | 0.435 | 4.11  |
| 3) P   | Chloromethane       | 0.273          | 0.261 | 0.247 | 0.241 | 0.239 | 0.247 | 0.251 | 5.21  |
| 4) C   | Vinyl Chloride      | 0.335          | 0.351 | 0.296 | 0.302 | 0.305 | 0.308 | 0.316 | 6.84# |
| 5) T   | Bromomethane        | 0.281          | 0.344 | 0.278 | 0.260 | 0.261 | 0.270 | 0.282 | 11.19 |
| 6) T   | Chloroethane        | 0.208          | 0.214 | 0.199 | 0.204 | 0.203 | 0.207 | 0.206 | 2.52  |
| 7) T   | Trichlorofluorome   | 1.004          | 1.102 | 0.975 | 0.908 | 0.902 | 0.916 | 0.968 | 8.02  |
| 8) T   | Diethyl Ether       | 0.200          | 0.209 | 0.184 | 0.177 | 0.180 | 0.183 | 0.189 | 6.77  |
| 9) T   | 1,1,2-Trichlorotr   | 0.457          | 0.469 | 0.453 | 0.424 | 0.423 | 0.422 | 0.441 | 4.75  |
| 10) T  | Methyl Iodide       | 0.407          | 0.422 | 0.440 | 0.485 | 0.521 | 0.532 | 0.468 | 11.26 |
| 11) T  | Tert butyl alcoho   | 0.052          | 0.081 | 0.042 | 0.027 | 0.023 | 0.024 | 0.042 | 54.34 |
| 12) CM | 1,1-Dichloroethen   | 0.421          | 0.442 | 0.427 | 0.398 | 0.396 | 0.401 | 0.414 | 4.54# |
| 13) T  | Acrolein            | 0.020          | 0.021 | 0.018 | 0.021 | 0.020 | 0.022 | 0.021 | 6.41  |
| 14) T  | Allyl chloride      | 0.374          | 0.376 | 0.373 | 0.381 | 0.393 | 0.403 | 0.383 | 3.17  |
| 15) T  | Acrylonitrile       | 0.061          | 0.070 | 0.070 | 0.066 | 0.062 | 0.064 | 0.065 | 6.08  |
| 16) T  | Acetone             | 0.062          | 0.077 | 0.061 | 0.073 | 0.062 | 0.063 | 0.066 | 10.45 |
| 17) T  | Carbon Disulfide    | 1.199          | 1.275 | 1.142 | 1.102 | 1.103 | 1.121 | 1.157 | 5.88  |
| 18) T  | Methyl Acetate      | 0.123          | 0.187 | 0.132 | 0.124 | 0.117 | 0.126 | 0.135 | 19.20 |
| 19) T  | Methyl tert-butyl   | 0.853          | 0.855 | 0.883 | 0.908 | 0.908 | 0.916 | 0.887 | 3.12  |
| 20) T  | Methylene Chlorid   | 0.582          | 0.696 | 0.500 | 0.433 | 0.405 | 0.409 | 0.504 | 22.94 |
| 21) T  | trans-1,2-Dichlor   | 0.491          | 0.512 | 0.475 | 0.457 | 0.444 | 0.450 | 0.471 | 5.58  |
| 22) T  | Diisopropyl ether   | 0.783          | 0.790 | 0.792 | 0.774 | 0.729 | 0.757 | 0.771 | 3.11  |
| 23) T  | Vinyl Acetate       | 0.412          | 0.356 | 0.433 | 0.460 | 0.453 | 0.459 | 0.429 | 9.34  |
| 24) P  | 1,1-Dichloroethan   | 0.711          | 0.722 | 0.669 | 0.671 | 0.636 | 0.646 | 0.676 | 5.10  |
| 25) T  | 2-Butanone          | 0.070          | 0.071 | 0.070 | 0.073 | 0.067 | 0.067 | 0.070 | 3.29  |
| 26) T  | 2,2-Dichloropropa   | 0.870          | 0.870 | 0.789 | 0.771 | 0.774 | 0.762 | 0.806 | 6.28  |
| 27) T  | cis-1,2-Dichloroe   | 0.547          | 0.546 | 0.500 | 0.507 | 0.493 | 0.501 | 0.516 | 4.72  |
| 28) T  | Bromochloromethan   | 0.229          | 0.222 | 0.212 | 0.202 | 0.215 | 0.206 | 0.215 | 4.68  |
| 29) T  | Tetrahydrofuran     | 0.037          | 0.042 | 0.039 | 0.041 | 0.039 | 0.039 | 0.040 | 4.79  |
| 30) C  | Chloroform          | 0.987          | 0.988 | 0.897 | 0.870 | 0.836 | 0.841 | 0.903 | 7.62# |
| 31) T  | Cyclohexane         | 0.596          | 0.711 | 0.568 | 0.511 | 0.503 | 0.503 | 0.566 | 14.31 |
| 32) T  | 1,1,1-Trichloroet   | 0.954          | 1.062 | 0.982 | 0.907 | 0.905 | 0.910 | 0.953 | 6.48  |
| 33) S  | 1,2-Dichloroethan   | 0.554          | 0.584 | 0.529 | 0.541 | 0.514 | 0.498 | 0.537 | 5.63  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorometh   | 0.335          | 0.348 | 0.332 | 0.342 | 0.331 | 0.319 | 0.335 | 3.05  |
| 36) T  | 1,1-Dichloroprope   | 0.446          | 0.442 | 0.434 | 0.430 | 0.425 | 0.421 | 0.433 | 2.25  |
| 37) T  | Ethyl Acetate       | 0.106          | 0.145 | 0.115 | 0.116 | 0.110 | 0.109 | 0.117 | 12.29 |
| 38) T  | Carbon Tetrachlor   | 0.680          | 0.705 | 0.664 | 0.633 | 0.630 | 0.618 | 0.655 | 5.16  |
| 39) T  | Methylcyclohexane   | 0.520          | 0.513 | 0.518 | 0.508 | 0.510 | 0.509 | 0.513 | 0.93  |
| 40) TM | Benzene             | 1.255          | 1.244 | 1.216 | 1.163 | 1.123 | 1.106 | 1.184 | 5.31  |
| 41) T  | Methacrylonitrile   | 0.044          | 0.072 | 0.073 | 0.065 | 0.051 | 0.052 | 0.059 | 20.39 |
| 42) TM | 1,2-Dichloroethan   | 0.441          | 0.430 | 0.427 | 0.428 | 0.407 | 0.401 | 0.422 | 3.62  |
| 43) T  | Isopropyl Acetate   | 0.222          | 0.234 | 0.227 | 0.235 | 0.228 | 0.232 | 0.230 | 2.14  |
| 44) TM | Trichloroethene     | 0.428          | 0.430 | 0.419 | 0.396 | 0.389 | 0.381 | 0.407 | 5.21  |
| 45) C  | 1,2-Dichloropropa   | 0.255          | 0.261 | 0.247 | 0.235 | 0.235 | 0.226 | 0.243 | 5.44# |
| 46) T  | Dibromomethane      | 0.176          | 0.170 | 0.174 | 0.169 | 0.164 | 0.161 | 0.169 | 3.33  |
| 47) T  | Bromodichlorometh   | 0.503          | 0.519 | 0.491 | 0.465 | 0.458 | 0.456 | 0.482 | 5.42  |
| 48) T  | Methyl methacryla   | 0.112          | 0.119 | 0.118 | 0.117 | 0.120 | 0.115 | 0.117 | 2.65  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 11.31 |
| 50) S  | Toluene-d8          | 1.260          | 1.195 | 1.201 | 1.221 | 1.204 | 1.144 | 1.204 | 3.13  |
| 51) T  | 4-Methyl-2-Pentan   | 0.109          | 0.107 | 0.114 | 0.112 | 0.106 | 0.105 | 0.109 | 3.26  |
| 52) CM | Toluene             | 0.854          | 0.854 | 0.869 | 0.821 | 0.792 | 0.778 | 0.828 | 4.49# |

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|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.418          | 0.425 | 0.423 | 0.417 | 0.406 | 0.405 | 0.416 | 2.01  |
| 54) T  | cis-1,3-Dichlorop     | 0.449          | 0.447 | 0.478 | 0.450 | 0.448 | 0.444 | 0.452 | 2.76  |
| 55) T  | 1,1,2-Trichloroet     | 0.238          | 0.268 | 0.240 | 0.219 | 0.215 | 0.207 | 0.231 | 9.61  |
| 56) T  | Ethyl methacrylat     | 0.224          | 0.239 | 0.238 | 0.243 | 0.235 | 0.233 | 0.235 | 2.67  |
| 57) T  | 1,3-Dichloropropa     | 0.392          | 0.396 | 0.386 | 0.350 | 0.340 | 0.334 | 0.366 | 7.66  |
| 58) T  | 2-Chloroethyl Vin     | 0.091          | 0.109 | 0.098 | 0.118 | 0.113 | 0.113 | 0.107 | 9.58  |
| 59) T  | 2-Hexanone            | 0.073          | 0.074 | 0.081 | 0.082 | 0.075 | 0.075 | 0.077 | 4.91  |
| 60) T  | Dibromochlorometh     | 0.377          | 0.355 | 0.357 | 0.335 | 0.335 | 0.333 | 0.349 | 5.01  |
| 61) T  | 1,2-Dibromoethane     | 0.235          | 0.252 | 0.237 | 0.218 | 0.216 | 0.208 | 0.227 | 7.26  |
| 62) S  | 4-Bromofluorobenz     | 0.438          | 0.419 | 0.406 | 0.423 | 0.415 | 0.397 | 0.416 | 3.34  |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.429          | 0.476 | 0.413 | 0.380 | 0.370 | 0.379 | 0.408 | 9.97  |
| 65) PM | Chlorobenzene         | 1.087          | 1.112 | 1.054 | 1.000 | 0.973 | 0.963 | 1.032 | 6.00  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.445          | 0.447 | 0.428 | 0.406 | 0.401 | 0.398 | 0.421 | 5.22  |
| 67) C  | Ethyl Benzene         | 1.834          | 1.781 | 1.784 | 1.735 | 1.701 | 1.711 | 1.757 | 2.89# |
| 68) T  | m/p-Xylenes           | 0.728          | 0.694 | 0.725 | 0.680 | 0.665 | 0.666 | 0.693 | 4.05  |
| 69) T  | o-Xylene              | 0.619          | 0.597 | 0.633 | 0.618 | 0.607 | 0.616 | 0.615 | 1.95  |
| 70) T  | Stvrene               | 1.081          | 1.057 | 1.117 | 1.081 | 1.040 | 1.043 | 1.070 | 2.73  |
| 71) P  | Bromoform             | 0.221          | 0.227 | 0.230 | 0.230 | 0.213 | 0.216 | 0.223 | 3.20  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.484          | 3.357 | 3.472 | 3.424 | 3.433 | 3.461 | 3.438 | 1.33  |
| 74) T  | N-amyl acetate        | 0.401          | 0.404 | 0.432 | 0.436 | 0.435 | 0.445 | 0.425 | 4.31  |
| 75) P  | 1,1,2,2-Tetrachlo     | 0.470          | 0.501 | 0.453 | 0.447 | 0.418 | 0.435 | 0.454 | 6.33  |
| 76) T  | 1,2,3-Trichloropr     | 0.367          | 0.390 | 0.427 | 0.341 | 0.329 | 0.331 | 0.364 | 10.71 |
| 77) T  | Bromobenzene          | 0.881          | 0.841 | 0.884 | 0.859 | 0.833 | 0.830 | 0.855 | 2.79  |
| 78) T  | n-propylbenzene       | 3.925          | 3.661 | 3.923 | 3.829 | 3.769 | 3.760 | 3.811 | 2.69  |
| 79) T  | 2-Chlorotoluene       | 2.308          | 2.198 | 2.331 | 2.230 | 2.198 | 2.187 | 2.242 | 2.77  |
| 80) T  | 1,3,5-Trimethylbe     | 3.127          | 2.701 | 3.107 | 3.005 | 2.976 | 2.946 | 2.977 | 5.15  |
| 81) T  | trans-1,4-Dichlor     | 0.150          | 0.153 | 0.158 | 0.150 | 0.151 | 0.151 | 0.152 | 1.89  |
| 82) T  | 4-Chlorotoluene       | 2.526          | 2.291 | 2.521 | 2.359 | 2.350 | 2.303 | 2.392 | 4.41  |
| 83) T  | tert-Butylbenzene     | 2.523          | 2.427 | 2.531 | 2.644 | 2.538 | 2.537 | 2.533 | 2.72  |
| 84) T  | 1,2,4-Trimethylbe     | 3.035          | 2.771 | 3.073 | 3.020 | 2.948 | 2.915 | 2.960 | 3.70  |
| 85) T  | sec-Butylbenzene      | 3.468          | 3.313 | 3.469 | 3.348 | 3.330 | 3.361 | 3.381 | 2.05  |
| 86) T  | p-Isopropyltoluen     | 3.417          | 3.182 | 3.450 | 3.325 | 3.275 | 3.235 | 3.314 | 3.15  |
| 87) T  | 1,3-Dichlorobenze     | 1.751          | 1.761 | 1.703 | 1.576 | 1.555 | 1.547 | 1.649 | 6.08  |
| 88) T  | 1,4-Dichlorobenze     | 1.747          | 1.823 | 1.676 | 1.556 | 1.551 | 1.544 | 1.650 | 7.18  |
| 89) T  | n-Butylbenzene        | 2.788          | 2.667 | 2.806 | 2.807 | 2.736 | 2.715 | 2.753 | 2.06  |
| 90) T  | Hexachloroethane      | 0.642          | 0.609 | 0.619 | 0.580 | 0.610 | 0.611 | 0.612 | 3.23  |
| 91) T  | 1,2-Dichlorobenze     | 1.500          | 1.522 | 1.442 | 1.404 | 1.364 | 1.349 | 1.430 | 4.96  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.103          | 0.095 | 0.094 | 0.093 | 0.093 | 0.090 | 0.095 | 4.67  |
| 93) T  | 1,2,4-Trichlorobe     | 1.005          | 0.960 | 0.999 | 1.012 | 1.017 | 1.010 | 1.000 | 2.06  |
| 94) T  | Hexachlorobutadie     | 0.677          | 0.642 | 0.647 | 0.648 | 0.653 | 0.648 | 0.653 | 1.91  |
| 95) T  | Naphthalene           | 1.499          | 1.533 | 1.591 | 1.714 | 1.708 | 1.723 | 1.628 | 6.14  |
| 96) T  | 1,2,3-Trichlorobe     | 0.816          | 0.857 | 0.895 | 0.881 | 0.869 | 0.867 | 0.864 | 3.12  |

(#) = Out of Range