

Method Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\  
 Method File : 82X082219W.M  
 Title : SW846 8260  
 Last Update : Fri Aug 23 01:48:12 2019  
 Response Via : Initial Calibration

## Calibration Files

1 =VX011748.D 5 =VX011749.D 20 =VX011750.D  
 50 =VX011751.D 100 =VX011752.D 150 =VX011753.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluorom   | 0.426          | 0.455 | 0.503 | 0.515 | 0.439 | 0.463 | 0.467 | 7.53   |
| 3) P   | Chloromethane       | 0.437          | 0.476 | 0.414 | 0.420 | 0.348 | 0.360 | 0.409 | 11.77  |
| 4) C   | Vinyl Chloride      | 0.443          | 0.460 | 0.393 | 0.403 | 0.372 | 0.384 | 0.409 | 8.55#  |
| 5) T   | Bromomethane        |                | 0.271 | 0.227 | 0.216 | 0.208 | 0.205 | 0.225 | 11.87  |
| 6) T   | Chloroethane        | 0.264          | 0.271 | 0.234 | 0.263 | 0.219 | 0.183 | 0.239 | 14.19  |
| 7) T   | Trichlorofluorome   | 0.649          | 0.761 | 0.631 | 0.658 | 0.601 | 0.607 | 0.651 | 8.96   |
| 8) T   | Diethyl Ether       | 0.241          | 0.258 | 0.216 | 0.213 | 0.197 | 0.203 | 0.221 | 10.60  |
| 9) T   | 1,1,2-Trichlorotr   | 0.425          | 0.470 | 0.389 | 0.409 | 0.357 | 0.369 | 0.403 | 10.19  |
| 10) T  | Methyl Iodide       |                | 0.449 | 0.486 | 0.540 | 0.475 | 0.510 | 0.492 | 7.02   |
| 11) T  | Tert butyl alcoho   |                | 0.102 | 0.099 | 0.102 | 0.093 | 0.101 | 0.099 | 3.89   |
| 12) CM | 1,1-Dichloroethen   | 0.456          | 0.426 | 0.375 | 0.385 | 0.349 | 0.367 | 0.393 | 10.18# |
| 13) T  | Acrolein            |                | 0.044 | 0.031 | 0.034 | 0.039 | 0.044 | 0.038 | 14.99  |
| 14) T  | Allyl chloride      | 0.589          | 0.659 | 0.610 | 0.654 | 0.563 | 0.610 | 0.614 | 6.07   |
| 15) T  | Acrylonitrile       | 0.219          | 0.252 | 0.226 | 0.238 | 0.205 | 0.221 | 0.227 | 7.25   |
| 16) T  | Acetone             | 0.229          | 0.245 | 0.231 | 0.223 | 0.188 | 0.194 | 0.218 | 10.32  |
| 17) T  | Carbon Disulfide    | 1.105          | 0.998 | 0.943 | 1.019 | 0.908 | 0.988 | 0.994 | 6.83   |
| 18) T  | Methyl Acetate      | 0.542          | 0.611 | 0.620 | 0.639 | 0.551 | 0.594 | 0.593 | 6.61   |
| 19) T  | Methyl tert-butyl   | 1.301          | 1.362 | 1.250 | 1.296 | 1.160 | 1.195 | 1.261 | 5.89   |
| 20) T  | Methylene Chlorid   | 0.505          | 0.523 | 0.423 | 0.447 | 0.383 | 0.401 | 0.447 | 12.64  |
| 21) T  | trans-1,2-Dichlor   | 0.448          | 0.489 | 0.408 | 0.435 | 0.370 | 0.393 | 0.424 | 9.99   |
| 22) T  | Diisopropyl ether   | 1.125          | 1.337 | 1.200 | 1.227 | 1.103 | 1.155 | 1.191 | 7.15   |
| 23) T  | Vinyl Acetate       | 0.868          | 1.117 | 0.979 | 1.045 | 0.938 | 0.969 | 0.986 | 8.74   |
| 24) P  | 1,1-Dichloroethan   | 0.710          | 0.801 | 0.688 | 0.720 | 0.639 | 0.661 | 0.703 | 8.07   |
| 25) T  | 2-Butanone          | 0.288          | 0.355 | 0.318 | 0.318 | 0.291 | 0.311 | 0.314 | 7.74   |
| 26) T  | 2,2-Dichloropropa   | 0.656          | 0.658 | 0.546 | 0.604 | 0.556 | 0.563 | 0.597 | 8.46   |
| 27) T  | cis-1,2-Dichloroe   | 0.561          | 0.536 | 0.457 | 0.483 | 0.428 | 0.452 | 0.486 | 10.68  |
| 28) T  | Bromochloromethan   | 0.324          | 0.330 | 0.332 | 0.332 | 0.306 | 0.292 | 0.319 | 5.23   |
| 29) T  | Tetrahydrofuran     | 0.188          | 0.218 | 0.203 | 0.213 | 0.188 | 0.197 | 0.201 | 6.19   |
| 30) C  | Chloroform          | 0.805          | 0.883 | 0.731 | 0.763 | 0.692 | 0.703 | 0.763 | 9.45#  |
| 31) T  | Cyclohexane         |                | 0.634 | 0.626 | 0.653 | 0.570 | 0.605 | 0.618 | 5.14   |
| 32) T  | 1,1,1-Trichloroet   | 0.594          | 0.744 | 0.651 | 0.702 | 0.642 | 0.647 | 0.663 | 7.87   |
| 33) S  | 1,2-Dichloroethan   |                | 0.605 | 0.467 | 0.493 | 0.490 | 0.456 | 0.502 | 11.85  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorometh   |                | 0.373 | 0.300 | 0.325 | 0.303 | 0.315 | 0.323 | 9.09   |
| 36) T  | 1,1-Dichloroprope   | 0.367          | 0.440 | 0.402 | 0.393 | 0.362 | 0.389 | 0.392 | 7.10   |
| 37) T  | Ethyl Acetate       | 0.314          | 0.489 | 0.429 | 0.441 | 0.392 | 0.424 | 0.415 | 14.08  |
| 38) T  | Carbon Tetrachlor   | 0.478          | 0.455 | 0.434 | 0.445 | 0.413 | 0.442 | 0.444 | 4.83   |
| 39) T  | Methylcyclohexane   | 0.490          | 0.481 | 0.485 | 0.514 | 0.447 | 0.499 | 0.486 | 4.61   |
| 40) TM | Benzene             | 1.345          | 1.352 | 1.164 | 1.192 | 1.063 | 1.161 | 1.213 | 9.40   |
| 41) T  | Methacrylonitrile   | 0.275          | 0.241 | 0.238 | 0.239 | 0.215 | 0.241 | 0.241 | 7.95   |
| 42) TM | 1,2-Dichloroethan   | 0.506          | 0.483 | 0.428 | 0.447 | 0.396 | 0.400 | 0.443 | 10.00  |
| 43) T  | Isopropyl Acetate   | 0.687          | 0.689 | 0.662 | 0.694 | 0.620 | 0.677 | 0.672 | 4.11   |
| 44) TM | Trichloroethene     | 0.408          | 0.410 | 0.366 | 0.374 | 0.321 | 0.364 | 0.374 | 8.82   |
| 45) C  | 1,2-Dichloropropa   | 0.334          | 0.325 | 0.298 | 0.308 | 0.270 | 0.294 | 0.305 | 7.49#  |
| 46) T  | Dibromomethane      | 0.250          | 0.253 | 0.216 | 0.223 | 0.198 | 0.209 | 0.225 | 9.83   |
| 47) T  | Bromodichlorometh   | 0.406          | 0.415 | 0.393 | 0.423 | 0.382 | 0.408 | 0.405 | 3.65   |
| 48) T  | Methyl methacryla   | 0.307          | 0.346 | 0.341 | 0.354 | 0.314 | 0.344 | 0.334 | 5.71   |
| 49) T  | 1,4-Dioxane         | 0.011          | 0.009 | 0.009 | 0.009 | 0.008 | 0.009 | 0.009 | 10.64  |
| 50) S  | Toluene-d8          |                | 1.135 | 1.100 | 1.191 | 1.091 | 1.122 | 1.128 | 3.47   |
| 51) T  | 4-Methyl-2-Pentan   | 0.418          | 0.477 | 0.458 | 0.455 | 0.407 | 0.440 | 0.443 | 5.94   |
| 52) CM | Toluene             | 0.863          | 0.821 | 0.796 | 0.799 | 0.693 | 0.737 | 0.785 | 7.74#  |

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|        | Compound              | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 53) T  | t-1,3-Dichloropro     | 0.383          | 0.408 | 0.418 | 0.458 | 0.422 | 0.460 | 0.425 | 6.98  |
| 54) T  | cis-1,3-Dichlorop     | 0.398          | 0.481 | 0.469 | 0.495 | 0.447 | 0.490 | 0.463 | 7.84  |
| 55) T  | 1,1,2-Trichloroet     | 0.347          | 0.356 | 0.333 | 0.329 | 0.287 | 0.310 | 0.327 | 7.65  |
| 56) T  | Ethyl methacrylat     | 0.383          | 0.477 | 0.473 | 0.510 | 0.452 | 0.496 | 0.465 | 9.65  |
| 57) T  | 1,3-Dichloropropa     | 0.612          | 0.574 | 0.521 | 0.505 | 0.459 | 0.496 | 0.528 | 10.55 |
| 58) T  | 2-Chloroethyl Vin     | 0.202          | 0.235 | 0.249 | 0.266 | 0.252 | 0.264 | 0.245 | 9.66  |
| 59) T  | 2-Hexanone            | 0.285          | 0.375 | 0.352 | 0.360 | 0.319 | 0.347 | 0.340 | 9.57  |
| 60) T  | Dibromochlorometh     | 0.334          | 0.353 | 0.344 | 0.375 | 0.340 | 0.375 | 0.354 | 5.02  |
| 61) T  | 1,2-Dibromoethane     | 0.340          | 0.374 | 0.356 | 0.364 | 0.322 | 0.349 | 0.351 | 5.21  |
| 62) S  | 4-Bromofluorobenz     |                | 0.520 | 0.401 | 0.445 | 0.416 | 0.446 | 0.446 | 10.30 |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) T  | Tetrachloroethene     | 0.444          | 0.416 | 0.408 | 0.428 | 0.338 | 0.359 | 0.399 | 10.36 |
| 65) PM | Chlorobenzene         | 1.051          | 1.095 | 0.952 | 0.973 | 0.859 | 0.927 | 0.976 | 8.73  |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.362          | 0.389 | 0.355 | 0.384 | 0.340 | 0.365 | 0.366 | 4.99  |
| 67) C  | Ethyl Benzene         | 1.590          | 1.810 | 1.597 | 1.737 | 1.483 | 1.570 | 1.631 | 7.35# |
| 68) T  | m/p-Xylenes           | 0.591          | 0.682 | 0.625 | 0.684 | 0.571 | 0.620 | 0.629 | 7.35  |
| 69) T  | o-Xylene              | 0.603          | 0.684 | 0.597 | 0.659 | 0.559 | 0.603 | 0.618 | 7.41  |
| 70) T  | Styrene               | 0.947          | 1.117 | 1.001 | 1.114 | 0.970 | 1.049 | 1.033 | 7.03  |
| 71) P  | Bromoform             | 0.298          | 0.301 | 0.294 | 0.341 | 0.303 | 0.356 | 0.316 | 8.32  |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |       |
| 73) T  | Isopropylbenzene      | 3.074          | 3.288 | 3.157 | 3.062 | 2.652 | 2.845 | 3.013 | 7.58  |
| 74) T  | N-amyl acetate        | 1.097          | 1.191 | 1.216 | 1.190 | 1.096 | 1.210 | 1.167 | 4.73  |
| 75) P  | 1,1,2,2-Tetrachlo     | 1.108          | 1.071 | 1.014 | 0.965 | 0.870 | 0.956 | 0.997 | 8.62  |
| 76) T  | 1,2,3-Trichloropr     | 1.026          | 0.914 | 0.887 | 0.870 | 0.760 | 0.807 | 0.877 | 10.47 |
| 77) T  | Bromobenzene          | 0.951          | 0.996 | 0.910 | 0.869 | 0.760 | 0.844 | 0.888 | 9.41  |
| 78) T  | n-propylbenzene       | 2.955          | 3.495 | 3.396 | 3.383 | 2.949 | 3.154 | 3.222 | 7.36  |
| 79) T  | 2-Chlorotoluene       | 2.082          | 2.246 | 2.025 | 2.038 | 1.760 | 1.875 | 2.004 | 8.42  |
| 80) T  | 1,3,5-Trimethylbe     | 2.346          | 2.759 | 2.617 | 2.624 | 2.278 | 2.460 | 2.514 | 7.33  |
| 81) T  | trans-1,4-Dichlor     |                | 0.247 | 0.264 | 0.311 | 0.293 | 0.340 | 0.291 | 12.74 |
| 82) T  | 4-Chlorotoluene       | 2.285          | 2.556 | 2.366 | 2.362 | 2.090 | 2.204 | 2.311 | 6.88  |
| 83) T  | tert-Butylbenzene     | 2.272          | 2.776 | 2.561 | 2.606 | 2.269 | 2.399 | 2.480 | 8.15  |
| 84) T  | 1,2,4-Trimethylbe     | 2.390          | 2.725 | 2.691 | 2.645 | 2.325 | 2.457 | 2.539 | 6.67  |
| 85) T  | sec-Butylbenzene      | 2.746          | 3.148 | 2.925 | 2.874 | 2.617 | 2.715 | 2.837 | 6.64  |
| 86) T  | p-Isopropyltoluen     | 2.477          | 2.995 | 2.831 | 2.860 | 2.511 | 2.706 | 2.730 | 7.50  |
| 87) T  | 1,3-Dichlorobenze     | 1.599          | 1.678 | 1.540 | 1.547 | 1.352 | 1.462 | 1.530 | 7.35  |
| 88) T  | 1,4-Dichlorobenze     | 1.668          | 1.717 | 1.522 | 1.544 | 1.350 | 1.485 | 1.548 | 8.52  |
| 89) T  | n-Butylbenzene        | 2.033          | 2.341 | 2.350 | 2.370 | 2.133 | 2.331 | 2.260 | 6.24  |
| 90) T  | Hexachloroethane      | 0.395          | 0.396 | 0.425 | 0.448 | 0.413 | 0.469 | 0.424 | 6.96  |
| 91) T  | 1,2-Dichlorobenze     | 1.614          | 1.729 | 1.578 | 1.537 | 1.326 | 1.473 | 1.543 | 8.84  |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.247          | 0.228 | 0.226 | 0.233 | 0.218 | 0.238 | 0.232 | 4.36  |
| 93) T  | 1,2,4-Trichlorobe     | 1.066          | 1.198 | 1.109 | 1.179 | 1.038 | 1.218 | 1.135 | 6.56  |
| 94) T  | Hexachlorobutadie     | 0.698          | 0.694 | 0.580 | 0.584 | 0.542 | 0.632 | 0.622 | 10.30 |
| 95) T  | Naphthalene           | 2.514          | 3.196 | 3.283 | 3.273 | 3.042 | 3.447 | 3.126 | 10.48 |
| 96) T  | 1,2,3-Trichlorobe     | 0.994          | 1.234 | 1.177 | 1.176 | 1.047 | 1.209 | 1.140 | 8.43  |

(#) = Out of Range