

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X072021W.M  
 Title : SW846 8260  
 Last Update : Wed Jul 21 06:19:04 2021  
 Response Via : Initial Calibration

## Calibration Files

1 =VX023357.D 5 =VX023358.D 20 =VX023359.D 50 =VX023360.D 100 =VX023361.D 150 =VX023362.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.500          | 0.513 | 0.506 | 0.482 | 0.564 | 0.556 | 0.520 | 6.29   |
| 3) P   | Chloromethane       | 0.229          | 0.253 | 0.208 | 0.246 | 0.235 | 0.244 | 0.236 | 6.81   |
| 4) C   | Vinyl Chloride      | 0.219          | 0.264 | 0.232 | 0.249 | 0.265 | 0.267 | 0.249 | 7.88#  |
| 5) T   | Bromomethane        |                | 0.297 | 0.200 | 0.244 | 0.227 | 0.229 | 0.240 | 14.98  |
| 6) T   | Chloroethane        | 0.138          | 0.133 | 0.136 | 0.151 | 0.148 | 0.151 | 0.143 | 5.59   |
| 7) T   | Trichlorofluor...   | 0.605          | 0.683 | 0.587 | 0.624 | 0.686 | 0.679 | 0.644 | 6.85   |
| 8) T   | Diethyl Ether       | 0.099          | 0.168 | 0.139 | 0.167 | 0.162 | 0.156 | 0.149 | 17.74  |
| 9) T   | 1,1,2-Trichlor...   | 0.373          | 0.424 | 0.355 | 0.337 | 0.410 | 0.405 | 0.384 | 8.99   |
| 10) T  | Methyl Iodide       |                | 0.359 | 0.415 | 0.601 | 0.603 | 0.605 | 0.517 | 23.21  |
| 11) T  | Tert butyl alc...   |                | 0.119 | 0.102 | 0.125 | 0.114 | 0.112 | 0.114 | 7.44   |
| 12) CM | 1,1-Dichloroet...   | 0.310          | 0.378 | 0.307 | 0.357 | 0.373 | 0.371 | 0.349 | 9.25#  |
| 13) T  | Acrolein            |                | 0.041 | 0.027 | 0.033 | 0.031 | 0.030 | 0.032 | 15.95  |
| 14) T  | Allyl chloride      | 0.361          | 0.408 | 0.361 | 0.437 | 0.423 | 0.398 | 0.398 | 7.92   |
| 15) T  | Acrylonitrile       | 0.155          | 0.172 | 0.153 | 0.185 | 0.175 | 0.171 | 0.168 | 7.36   |
| 16) T  | Acetone             | 0.164          | 0.173 | 0.151 | 0.182 | 0.170 | 0.170 | 0.168 | 6.12   |
| 17) T  | Carbon Disulfide    | 1.010          | 0.857 | 0.761 | 0.862 | 0.907 | 0.916 | 0.885 | 9.27   |
| 18) T  | Methyl Acetate      | 0.314          | 0.363 | 0.292 | 0.368 | 0.345 | 0.335 | 0.336 | 8.71   |
| 19) T  | Methyl tert-bu...   | 1.184          | 1.523 | 1.275 | 1.561 | 1.473 | 1.455 | 1.412 | 10.55  |
| 20) T  | Methylene Chlo...   | 0.543          | 0.438 | 0.378 | 0.419 | 0.407 | 0.405 | 0.432 | 13.47  |
| 21) T  | trans-1,2-Dich...   | 0.395          | 0.426 | 0.370 | 0.417 | 0.427 | 0.410 | 0.407 | 5.38   |
| 22) T  | Diisopropyl ether   | 0.762          | 0.865 | 0.710 | 0.864 | 0.812 | 0.800 | 0.802 | 7.47   |
| 23) T  | Vinyl Acetate       | 0.636          | 0.779 | 0.694 | 0.850 | 0.801 | 0.784 | 0.757 | 10.30  |
| 24) P  | 1,1-Dichloroet...   | 0.641          | 0.641 | 0.566 | 0.686 | 0.669 | 0.649 | 0.642 | 6.45   |
| 25) T  | 2-Butanone          | 0.183          | 0.234 | 0.205 | 0.244 | 0.230 | 0.227 | 0.221 | 10.13  |
| 26) T  | 2,2-Dichloropr...   | 0.645          | 0.750 | 0.659 | 0.746 | 0.775 | 0.752 | 0.721 | 7.55   |
| 27) T  | cis-1,2-Dichlo...   | 0.480          | 0.502 | 0.412 | 0.503 | 0.499 | 0.482 | 0.480 | 7.24   |
| 28) T  | Bromochloromet...   | 0.173          | 0.236 | 0.181 | 0.216 | 0.206 | 0.209 | 0.204 | 11.37  |
| 29) T  | Tetrahydrofuran     | 0.112          | 0.131 | 0.119 | 0.141 | 0.132 | 0.127 | 0.127 | 8.14   |
| 30) C  | Chloroform          | 0.701          | 0.869 | 0.736 | 0.911 | 0.876 | 0.852 | 0.824 | 10.29# |
| 31) T  | Cyclohexane         |                | 0.492 | 0.432 | 0.446 | 0.509 | 0.498 | 0.476 | 7.17   |
| 32) T  | 1,1,1-Trichlor...   | 0.780          | 0.914 | 0.797 | 0.938 | 0.976 | 0.954 | 0.893 | 9.39   |
| 33) S  | 1,2-Dichloroet...   |                | 0.616 | 0.504 | 0.606 | 0.593 | 0.625 | 0.589 | 8.33   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   |                | 0.348 | 0.282 | 0.320 | 0.343 | 0.352 | 0.329 | 8.81   |
| 36) T  | 1,1-Dichloropr...   | 0.381          | 0.409 | 0.367 | 0.393 | 0.435 | 0.414 | 0.400 | 6.13   |
| 37) T  | Ethyl Acetate       | 0.259          | 0.340 | 0.291 | 0.340 | 0.329 | 0.319 | 0.313 | 10.24  |
| 38) T  | Carbon Tetrach...   | 0.573          | 0.645 | 0.588 | 0.623 | 0.719 | 0.693 | 0.640 | 8.98   |
| 39) T  | Methylcyclohexane   | 0.492          | 0.524 | 0.442 | 0.420 | 0.525 | 0.506 | 0.485 | 9.04   |
| 40) TM | Benzene             | 1.019          | 1.152 | 1.004 | 1.138 | 1.159 | 1.123 | 1.099 | 6.28   |
| 41) T  | Methacrylonitrile   | 0.199          | 0.191 | 0.146 | 0.175 | 0.180 | 0.171 | 0.177 | 10.33  |
| 42) TM | 1,2-Dichloroet...   | 0.441          | 0.539 | 0.474 | 0.560 | 0.567 | 0.552 | 0.522 | 9.98   |
| 43) T  | Isopropyl Acetate   | 0.485          | 0.557 | 0.498 | 0.556 | 0.569 | 0.547 | 0.535 | 6.52   |
| 44) TM | Trichloroethene     | 0.415          | 0.421 | 0.385 | 0.407 | 0.433 | 0.418 | 0.413 | 3.89   |
| 45) C  | 1,2-Dichloropr...   | 0.205          | 0.237 | 0.226 | 0.247 | 0.245 | 0.234 | 0.232 | 6.56#  |
| 46) T  | Dibromomethane      | 0.190          | 0.226 | 0.207 | 0.246 | 0.246 | 0.243 | 0.226 | 10.38  |
| 47) T  | Bromodichlorom...   | 0.412          | 0.480 | 0.421 | 0.506 | 0.518 | 0.510 | 0.474 | 9.86   |
| 48) T  | Methyl methacr...   | 0.195          | 0.258 | 0.243 | 0.286 | 0.288 | 0.277 | 0.258 | 13.67  |
| 49) T  | 1,4-Dioxane         | 0.006          | 0.009 | 0.008 | 0.009 | 0.009 | 0.009 | 0.008 | 15.26  |
| 50) S  | Toluene-d8          |                | 1.174 | 0.970 | 1.086 | 1.140 | 1.191 | 1.112 | 8.01   |
| 51) T  | 4-Methyl-2-Pen...   | 0.266          | 0.336 | 0.300 | 0.344 | 0.341 | 0.329 | 0.320 | 9.58   |
| 52) CM | Toluene             | 0.661          | 0.807 | 0.714 | 0.811 | 0.833 | 0.809 | 0.772 | 8.88#  |
| 53) T  | t-1,3-Dichloro...   | 0.438          | 0.484 | 0.444 | 0.544 | 0.560 | 0.543 | 0.502 | 10.77  |
| 54) T  | cis-1,3-Dichlo...   | 0.431          | 0.468 | 0.434 | 0.513 | 0.526 | 0.513 | 0.481 | 8.80   |
| 55) T  | 1,1,2-Trichlor...   | 0.253          | 0.338 | 0.289 | 0.338 | 0.339 | 0.327 | 0.314 | 11.32  |
| 56) T  | Ethyl methacry...   | 0.348          | 0.464 | 0.414 | 0.475 | 0.486 | 0.470 | 0.443 | 11.94  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.405          | 0.506 | 0.452 | 0.516 | 0.517 | 0.491 | 0.481 | 9.21  |
| 58) | T  | 2-Chloroethyl ...     | 0.168          | 0.199 | 0.182 | 0.211 | 0.209 | 0.204 | 0.196 | 8.64  |
| 59) | T  | 2-Hexanone            | 0.197          | 0.255 | 0.241 | 0.275 | 0.272 | 0.266 | 0.251 | 11.61 |
| 60) | T  | Dibromochlorom...     | 0.348          | 0.419 | 0.373 | 0.467 | 0.476 | 0.471 | 0.425 | 12.90 |
| 61) | T  | 1,2-Dibromoethane     | 0.323          | 0.369 | 0.321 | 0.386 | 0.380 | 0.376 | 0.359 | 8.19  |
| 62) | S  | 4-Bromofluorob...     | 0.460          | 0.398 | 0.454 | 0.477 | 0.510 | 0.460 |       | 8.86  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.441          | 0.531 | 0.451 | 0.468 | 0.509 | 0.486 | 0.481 | 7.19  |
| 65) | PM | Chlorobenzene         | 0.929          | 1.034 | 0.912 | 1.021 | 1.057 | 1.031 | 0.997 | 6.09  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.407          | 0.424 | 0.420 | 0.466 | 0.483 | 0.477 | 0.446 | 7.36  |
| 67) | C  | Ethyl Benzene         | 1.511          | 1.799 | 1.555 | 1.722 | 1.851 | 1.812 | 1.708 | 8.37# |
| 68) | T  | m/p-Xylenes           | 0.585          | 0.698 | 0.620 | 0.685 | 0.726 | 0.714 | 0.671 | 8.40  |
| 69) | T  | o-Xylene              | 0.571          | 0.682 | 0.608 | 0.688 | 0.719 | 0.701 | 0.661 | 8.83  |
| 70) | T  | Styrene               | 0.955          | 1.131 | 1.011 | 1.162 | 1.220 | 1.186 | 1.111 | 9.44  |
| 71) | P  | Bromoform             | 0.305          | 0.360 | 0.341 | 0.415 | 0.451 | 0.448 | 0.387 | 15.60 |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.080          | 3.727 | 3.206 | 3.285 | 3.503 | 3.298 | 3.350 | 6.88  |
| 74) | T  | N-amyl acetate        | 0.718          | 0.861 | 0.809 | 0.903 | 0.909 | 0.866 | 0.844 | 8.48  |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.708          | 0.853 | 0.767 | 0.840 | 0.820 | 0.799 | 0.798 | 6.70  |
| 76) | T  | 1,2,3-Trichlor...     | 0.816          | 0.929 | 0.816 | 0.881 | 0.861 | 0.804 | 0.851 | 5.70  |
| 77) | T  | Bromobenzene          | 0.904          | 1.002 | 0.856 | 0.959 | 0.975 | 0.931 | 0.938 | 5.59  |
| 78) | T  | n-propylbenzene       | 3.241          | 3.697 | 3.305 | 3.493 | 3.749 | 3.541 | 3.504 | 5.81  |
| 79) | T  | 2-Chlorotoluene       | 2.221          | 2.441 | 2.092 | 2.262 | 2.394 | 2.249 | 2.277 | 5.52  |
| 80) | T  | 1,3,5-Trimethy...     | 2.722          | 3.213 | 2.815 | 3.047 | 3.177 | 3.037 | 3.002 | 6.52  |
| 81) | T  | trans-1,4-Dich...     | 0.278          | 0.267 | 0.309 | 0.308 | 0.294 | 0.291 |       | 6.40  |
| 82) | T  | 4-Chlorotoluene       | 2.780          | 2.824 | 2.444 | 2.718 | 2.849 | 2.692 | 2.718 | 5.41  |
| 83) | T  | tert-Butylbenzene     | 2.808          | 3.110 | 2.739 | 2.934 | 3.137 | 3.006 | 2.956 | 5.42  |
| 84) | T  | 1,2,4-Trimethy...     | 2.683          | 3.052 | 2.717 | 3.021 | 3.144 | 3.040 | 2.943 | 6.56  |
| 85) | T  | sec-Butylbenzene      | 2.980          | 3.555 | 3.184 | 3.319 | 3.669 | 3.515 | 3.370 | 7.66  |
| 86) | T  | p-Isopropyltol...     | 2.800          | 3.292 | 2.951 | 3.131 | 3.400 | 3.246 | 3.137 | 7.18  |
| 87) | T  | 1,3-Dichlorobe...     | 1.503          | 1.744 | 1.551 | 1.706 | 1.784 | 1.711 | 1.666 | 6.75  |
| 88) | T  | 1,4-Dichlorobe...     | 1.874          | 1.757 | 1.581 | 1.701 | 1.782 | 1.697 | 1.732 | 5.67  |
| 89) | T  | n-Butylbenzene        | 2.198          | 2.319 | 2.147 | 2.244 | 2.623 | 2.493 | 2.337 | 7.91  |
| 90) | T  | Hexachloroethane      | 0.447          | 0.468 | 0.468 | 0.536 | 0.573 | 0.566 | 0.510 | 10.86 |
| 91) | T  | 1,2-Dichlorobe...     | 1.570          | 1.764 | 1.538 | 1.677 | 1.723 | 1.661 | 1.656 | 5.26  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.196          | 0.288 | 0.254 | 0.303 | 0.311 | 0.296 | 0.275 | 15.84 |
| 93) | T  | 1,2,4-Trichlor...     | 0.962          | 1.154 | 1.048 | 1.195 | 1.289 | 1.264 | 1.152 | 10.99 |
| 94) | T  | Hexachlorobuta...     | 0.624          | 0.633 | 0.570 | 0.589 | 0.683 | 0.666 | 0.627 | 6.91  |
| 95) | T  | Naphthalene           | 2.771          | 3.486 | 3.282 | 3.813 | 3.880 | 3.733 | 3.494 | 11.98 |
| 96) | T  | 1,2,3-Trichlor...     | 0.866          | 1.142 | 1.075 | 1.245 | 1.324 | 1.284 | 1.156 | 14.63 |

(#) = Out of Range