

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\  
 Method File : 82W102821S.M  
 Title : SW846 8260  
 Last Update : Fri Oct 29 05:29:24 2021  
 Response Via : Initial Calibration

## Calibration Files

10 =VW020711.D 5 =VW020710.D 20 =VW020712.D 50 =VW020713.D 100 =VW020714.D 150 =VW020715.D

| Compound |                     | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|----------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| -----    |                     |                |       |       |       |       |       |       |        |
| 1) I     | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T     | Dichlorodifluo...   | 0.091          | 0.083 | 0.095 | 0.133 | 0.167 | 0.168 | 0.123 | 31.50  |
| 3) P     | Chloromethane       | 0.285          | 0.290 | 0.265 | 0.288 | 0.327 | 0.338 | 0.299 | 9.28   |
| 4) C     | Vinyl Chloride      | 0.327          | 0.342 | 0.309 | 0.362 | 0.395 | 0.364 | 0.350 | 8.70#  |
| 5) T     | Bromomethane        | 0.137          | 0.150 | 0.119 | 0.133 | 0.156 | 0.154 | 0.142 | 10.21  |
| 6) T     | Chloroethane        | 0.069          | 0.091 | 0.056 | 0.091 | 0.113 | 0.109 | 0.088 | 25.20  |
| 7) T     | Trichlorofluor...   | 0.169          | 0.168 | 0.147 | 0.165 | 0.183 | 0.156 | 0.165 | 7.34   |
| 8) T     | Diethyl Ether       | 0.178          | 0.214 | 0.176 | 0.209 | 0.228 | 0.219 | 0.204 | 10.74  |
| 9) T     | 1,1,2-Trichlor...   | 0.381          | 0.417 | 0.360 | 0.410 | 0.443 | 0.408 | 0.403 | 7.21   |
| 10) T    | Methyl Iodide       | 0.390          | 0.380 | 0.400 | 0.490 | 0.556 | 0.508 | 0.454 | 16.19  |
| 11) T    | Tert butyl alc...   | 0.023          | 0.033 | 0.022 | 0.025 | 0.027 | 0.027 | 0.026 | 14.55  |
| 12) CM   | 1,1-Dichloroet...   | 0.354          | 0.382 | 0.340 | 0.412 | 0.448 | 0.422 | 0.393 | 10.63# |
| 13) T    | Acrolein            | 0.010          | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.011 | 7.19   |
| 14) T    | Allyl chloride      | 0.554          | 0.636 | 0.526 | 0.630 | 0.676 | 0.606 | 0.604 | 9.20   |
| 15) T    | Acrylonitrile       | 0.085          | 0.100 | 0.082 | 0.098 | 0.105 | 0.102 | 0.096 | 10.00  |
| 16) T    | Acetone             | 0.082          | 0.149 | 0.074 | 0.115 | 0.123 | 0.118 | 0.110 | 25.13  |
| 17) T    | Carbon Disulfide    | 0.995          | 1.039 | 0.944 | 1.137 | 1.250 | 1.161 | 1.088 | 10.54  |
| 18) T    | Methyl Acetate      | 0.315          | 0.394 | 0.305 | 0.352 | 0.376 | 0.366 | 0.351 | 9.91   |
| 19) T    | Methyl tert-bu...   | 0.482          | 0.546 | 0.470 | 0.580 | 0.599 | 0.555 | 0.539 | 9.65   |
| 20) T    | Methylene Chlo...   | 0.590          | 0.816 | 0.443 | 0.432 | 0.447 | 0.405 | 0.522 | 30.25  |
| 21) T    | trans-1,2-Dich...   | 0.410          | 0.463 | 0.375 | 0.453 | 0.483 | 0.451 | 0.440 | 8.97   |
| 22) T    | Diisopropyl ether   | 1.151          | 1.230 | 1.123 | 1.334 | 1.411 | 1.316 | 1.261 | 8.90   |
| 23) T    | Vinyl Acetate       | 0.579          | 0.655 | 0.589 | 0.734 | 0.796 | 0.764 | 0.686 | 13.42  |
| 24) P    | 1,1-Dichloroet...   | 0.755          | 0.854 | 0.711 | 0.830 | 0.884 | 0.814 | 0.808 | 7.95   |
| 25) T    | 2-Butanone          | 0.109          | 0.148 | 0.107 | 0.138 | 0.148 | 0.144 | 0.132 | 14.62  |
| 26) T    | 2,2-Dichloropr...   | 0.433          | 0.495 | 0.394 | 0.463 | 0.480 | 0.433 | 0.450 | 8.19   |
| 27) T    | cis-1,2-Dichlo...   | 0.438          | 0.494 | 0.414 | 0.500 | 0.538 | 0.501 | 0.481 | 9.54   |
| 28) T    | Bromochloromet...   | 0.367          | 0.431 | 0.358 | 0.356 | 0.373 | 0.368 | 0.376 | 7.38   |
| 29) T    | Tetrahydrofuran     | 0.067          | 0.081 | 0.070 | 0.084 | 0.090 | 0.088 | 0.080 | 11.89  |
| 30) C    | Chloroform          | 0.814          | 0.916 | 0.740 | 0.853 | 0.899 | 0.839 | 0.844 | 7.50#  |
| 31) T    | Cyclohexane         | 0.806          | 0.970 | 0.724 | 0.803 | 0.856 | 0.782 | 0.824 | 10.16  |
| 32) T    | 1,1,1-Trichlor...   | 0.622          | 0.708 | 0.556 | 0.653 | 0.699 | 0.637 | 0.646 | 8.61   |
| 33) S    | 1,2-Dichloroet...   | 0.523          | 0.563 | 0.523 | 0.444 | 0.454 | 0.442 | 0.491 | 10.44  |
|          |                     |                |       |       |       |       |       |       |        |
| 34) I    | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S    | Dibromofluorom...   | 0.306          | 0.325 | 0.308 | 0.277 | 0.281 | 0.263 | 0.293 | 7.90   |
| 36) T    | 1,1-Dichloropr...   | 0.409          | 0.452 | 0.387 | 0.475 | 0.503 | 0.451 | 0.446 | 9.51   |
| 37) T    | Ethyl Acetate       | 0.163          | 0.201 | 0.163 | 0.200 | 0.211 | 0.205 | 0.190 | 11.37  |
| 38) T    | Carbon Tetrach...   | 0.388          | 0.424 | 0.361 | 0.434 | 0.453 | 0.405 | 0.411 | 8.10   |
| 39) T    | Methylcyclohexane   | 0.475          | 0.512 | 0.463 | 0.579 | 0.631 | 0.575 | 0.539 | 12.29  |
| 40) TM   | Benzene             | 1.210          | 1.425 | 1.101 | 1.332 | 1.379 | 1.236 | 1.280 | 9.41   |
| 41) T    | Methacrylonitrile   | 0.095          | 0.106 | 0.098 | 0.113 | 0.138 | 0.122 | 0.112 | 14.48  |
| 42) TM   | 1,2-Dichloroet...   | 0.366          | 0.429 | 0.345 | 0.409 | 0.424 | 0.388 | 0.393 | 8.49   |
| 43) T    | Isopropyl Acetate   | 0.312          | 0.365 | 0.308 | 0.385 | 0.416 | 0.401 | 0.365 | 12.51  |
| 44) TM   | Trichloroethene     | 0.313          | 0.347 | 0.295 | 0.353 | 0.374 | 0.336 | 0.336 | 8.51   |
| 45) C    | 1,2-Dichloropr...   | 0.283          | 0.314 | 0.266 | 0.315 | 0.332 | 0.301 | 0.302 | 7.92#  |
| 46) T    | Dibromomethane      | 0.153          | 0.175 | 0.140 | 0.171 | 0.181 | 0.165 | 0.164 | 9.37   |
| 47) T    | Bromodichlorom...   | 0.378          | 0.433 | 0.363 | 0.439 | 0.462 | 0.424 | 0.416 | 9.13   |
| 48) T    | Methyl methacr...   | 0.149          | 0.174 | 0.152 | 0.182 | 0.212 | 0.202 | 0.179 | 14.23  |
| 49) T    | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 | 13.09  |
| 50) S    | Toluene-d8          | 1.141          | 1.151 | 1.214 | 1.040 | 1.061 | 0.998 | 1.101 | 7.35   |
| 51) T    | 4-Methyl-2-Pen...   | 0.159          | 0.194 | 0.165 | 0.203 | 0.217 | 0.207 | 0.191 | 12.36  |
| 52) CM   | Toluene             | 0.708          | 0.785 | 0.681 | 0.837 | 0.890 | 0.793 | 0.782 | 9.97#  |
| 53) T    | t-1,3-Dichloro...   | 0.358          | 0.412 | 0.352 | 0.454 | 0.488 | 0.454 | 0.420 | 13.23  |
| 54) T    | cis-1,3-Dichlo...   | 0.426          | 0.476 | 0.415 | 0.515 | 0.555 | 0.508 | 0.483 | 11.24  |
| 55) T    | 1,1,2-Trichlor...   | 0.211          | 0.242 | 0.203 | 0.237 | 0.252 | 0.229 | 0.229 | 8.23   |
| 56) T    | Ethyl methacry...   | 0.227          | 0.253 | 0.238 | 0.318 | 0.352 | 0.327 | 0.286 | 18.51  |

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|                |    |                       |       |       |       |       |       |       |       |        |
|----------------|----|-----------------------|-------|-------|-------|-------|-------|-------|-------|--------|
| 57)            | T  | 1,3-Dichloropr...     | 0.365 | 0.411 | 0.350 | 0.419 | 0.445 | 0.406 | 0.399 | 8.84   |
| 58)            | T  | 2-Chloroethyl ...     | 0.133 | 0.119 | 0.146 | 0.133 | 0.146 | 0.137 | 0.136 | 7.46   |
| 59)            | T  | 2-Hexanone            | 0.108 | 0.136 | 0.114 | 0.147 | 0.157 | 0.148 | 0.135 | 14.71  |
| 60)            | T  | Dibromochlorom...     | 0.243 | 0.275 | 0.231 | 0.288 | 0.315 | 0.289 | 0.274 | 11.47  |
| 61)            | T  | 1,2-Dibromoethane     | 0.198 | 0.227 | 0.190 | 0.231 | 0.243 | 0.226 | 0.219 | 9.45   |
| 62)            | S  | 4-Bromofluorob...     | 0.425 | 0.443 | 0.446 | 0.394 | 0.407 | 0.377 | 0.415 | 6.71   |
| -----ISTD----- |    |                       |       |       |       |       |       |       |       |        |
| 63)            | I  | Chlorobenzene-d5      |       |       |       |       |       |       |       |        |
| 64)            | T  | Tetrachloroethene     | 0.290 | 0.335 | 0.281 | 0.344 | 0.336 | 0.324 | 0.318 | 8.31   |
| 65)            | PM | Chlorobenzene         | 0.844 | 0.943 | 0.796 | 0.951 | 0.982 | 0.924 | 0.907 | 7.89   |
| 66)            | T  | 1,1,1,2-Tetrac...     | 0.303 | 0.346 | 0.278 | 0.348 | 0.361 | 0.346 | 0.330 | 9.77   |
| 67)            | C  | Ethyl Benzene         | 1.460 | 1.588 | 1.432 | 1.788 | 1.858 | 1.729 | 1.643 | 10.74# |
| 68)            | T  | m/p-Xylenes           | 0.572 | 0.606 | 0.561 | 0.694 | 0.720 | 0.665 | 0.636 | 10.39  |
| 69)            | T  | o-Xylene              | 0.511 | 0.546 | 0.507 | 0.642 | 0.677 | 0.631 | 0.586 | 12.54  |
| 70)            | T  | Styrene               | 0.876 | 0.919 | 0.886 | 1.111 | 1.159 | 1.072 | 1.004 | 12.43  |
| 71)            | P  | Bromoform             | 0.158 | 0.181 | 0.159 | 0.194 | 0.195 | 0.196 | 0.181 | 9.81   |
| -----ISTD----- |    |                       |       |       |       |       |       |       |       |        |
| 72)            | I  | 1,4-Dichlorobenzen... |       |       |       |       |       |       |       |        |
| 73)            | T  | Isopropylbenzene      | 2.557 | 2.768 | 2.558 | 3.179 | 3.593 | 3.455 | 3.018 | 15.06  |
| 74)            | T  | N-amyl acetate        | 0.544 | 0.614 | 0.572 | 0.733 | 0.843 | 0.841 | 0.691 | 19.29  |
| 75)            | P  | 1,1,2,2-Tetrac...     | 0.459 | 0.559 | 0.457 | 0.539 | 0.601 | 0.579 | 0.532 | 11.50  |
| 76)            | T  | 1,2,3-Trichlor...     | 0.366 | 0.455 | 0.370 | 0.439 | 0.479 | 0.463 | 0.429 | 11.39  |
| 77)            | T  | Bromobenzene          | 0.637 | 0.737 | 0.638 | 0.752 | 0.819 | 0.800 | 0.731 | 10.67  |
| 78)            | T  | n-propylbenzene       | 3.205 | 3.510 | 3.188 | 3.936 | 4.337 | 4.148 | 3.721 | 13.18  |
| 79)            | T  | 2-Chlorotoluene       | 1.892 | 2.057 | 1.825 | 2.219 | 2.518 | 2.347 | 2.143 | 12.51  |
| 80)            | T  | 1,3,5-Trimethy...     | 2.250 | 2.443 | 2.303 | 2.785 | 3.073 | 2.906 | 2.627 | 12.99  |
| 81)            | T  | trans-1,4-Dich...     | 0.136 | 0.162 | 0.139 | 0.182 | 0.207 | 0.204 | 0.172 | 18.22  |
| 82)            | T  | 4-Chlorotoluene       | 2.042 | 2.242 | 1.971 | 2.335 | 2.602 | 2.455 | 2.274 | 10.60  |
| 83)            | T  | tert-Butylbenzene     | 1.906 | 2.076 | 1.937 | 2.371 | 2.626 | 2.483 | 2.233 | 13.51  |
| 84)            | T  | 1,2,4-Trimethy...     | 2.275 | 2.390 | 2.273 | 2.768 | 3.091 | 2.898 | 2.616 | 13.39  |
| 85)            | T  | sec-Butylbenzene      | 2.908 | 3.114 | 2.927 | 3.506 | 3.956 | 3.745 | 3.359 | 13.15  |
| 86)            | T  | p-Isopropyltol...     | 2.451 | 2.618 | 2.518 | 3.025 | 3.345 | 3.156 | 2.852 | 13.05  |
| 87)            | T  | 1,3-Dichlorobe...     | 1.342 | 1.539 | 1.311 | 1.557 | 1.662 | 1.574 | 1.497 | 9.31   |
| 88)            | T  | 1,4-Dichlorobe...     | 1.382 | 1.570 | 1.309 | 1.500 | 1.645 | 1.556 | 1.494 | 8.42   |
| 89)            | T  | n-Butylbenzene        | 2.310 | 2.506 | 2.313 | 2.847 | 3.133 | 2.977 | 2.681 | 13.17  |
| 90)            | T  | Hexachloroethane      | 0.465 | 0.528 | 0.438 | 0.520 | 0.597 | 0.568 | 0.519 | 11.57  |
| 91)            | T  | 1,2-Dichlorobe...     | 1.155 | 1.328 | 1.158 | 1.368 | 1.454 | 1.404 | 1.311 | 9.66   |
| 92)            | T  | 1,2-Dibromo-3-...     | 0.080 | 0.103 | 0.081 | 0.093 | 0.105 | 0.107 | 0.095 | 12.60  |
| 93)            | T  | 1,2,4-Trichlor...     | 0.767 | 0.860 | 0.782 | 0.923 | 1.030 | 1.032 | 0.899 | 12.97  |
| 94)            | T  | Hexachlorobuta...     | 0.517 | 0.610 | 0.526 | 0.562 | 0.659 | 0.612 | 0.581 | 9.55   |
| 95)            | T  | Naphthalene           | 1.136 | 1.290 | 1.221 | 1.638 | 1.853 | 1.835 | 1.495 | 21.37  |
| 96)            | T  | 1,2,3-Trichlor...     | 0.693 | 0.816 | 0.727 | 0.822 | 0.910 | 0.878 | 0.808 | 10.42  |

(#) = Out of Range