

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\  
 Method File : 82W031421S.M  
 Title : SW846 8260  
 Last Update : Sat Mar 13 04:56:13 2021  
 Response Via : Initial Calibration

## Calibration Files

10 =VW018323.D 5 =VW018322.D 20 =VW018324.D 50 =VW018325.D 100 =VW018326.D 150 =VW018327.D

|        | Compound            | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.511          | 0.414 | 0.512 | 0.418 | 0.449 | 0.429 | 0.455 | 9.89  |
| 3) P   | Chloromethane       | 0.390          | 0.375 | 0.394 | 0.379 | 0.364 | 0.349 | 0.375 | 4.43  |
| 4) C   | Vinyl Chloride      | 0.572          | 0.559 | 0.624 | 0.575 | 0.553 | 0.507 | 0.565 | 6.67# |
| 5) T   | Bromomethane        | 0.461          | 0.476 | 0.460 | 0.450 | 0.435 | 0.416 | 0.450 | 4.73  |
| 6) T   | Chloroethane        | 0.339          | 0.351 | 0.359 | 0.359 | 0.346 | 0.323 | 0.346 | 3.98  |
| 7) T   | Trichlorofluor...   | 0.519          | 0.476 | 0.576 | 0.579 | 0.604 | 0.545 | 0.550 | 8.52  |
| 8) T   | Diethyl Ether       | 0.263          | 0.273 | 0.275 | 0.284 | 0.277 | 0.253 | 0.271 | 4.13  |
| 9) T   | 1,1,2-Trichlor...   | 0.618          | 0.598 | 0.659 | 0.601 | 0.612 | 0.543 | 0.605 | 6.23  |
| 10) T  | Methyl Iodide       | 0.810          | 0.812 | 0.853 | 0.865 | 0.828 | 0.781 | 0.825 | 3.75  |
| 11) T  | Tert butyl alc...   | 0.029          | 0.023 | 0.028 | 0.023 | 0.027 | 0.024 | 0.026 | 9.99  |
| 12) CM | 1,1-Dichloroet...   | 0.585          | 0.557 | 0.611 | 0.604 | 0.595 | 0.542 | 0.582 | 4.66# |
| 13) T  | Acrolein            | 0.035          | 0.032 | 0.039 | 0.031 | 0.034 | 0.030 | 0.034 | 9.81  |
| 14) T  | Allyl chloride      | 0.628          | 0.634 | 0.676 | 0.703 | 0.676 | 0.619 | 0.656 | 5.13  |
| 15) T  | Acrylonitrile       | 0.114          | 0.099 | 0.119 | 0.103 | 0.111 | 0.096 | 0.107 | 8.51  |
| 16) T  | Acetone             | 0.093          | 0.084 | 0.091 | 0.080 | 0.087 | 0.074 | 0.085 | 8.25  |
| 17) T  | Carbon Disulfide    | 1.519          | 1.523 | 1.654 | 1.643 | 1.604 | 1.484 | 1.571 | 4.56  |
| 18) T  | Methyl Acetate      | 0.222          | 0.215 | 0.229 | 0.217 | 0.233 | 0.195 | 0.218 | 6.26  |
| 19) T  | Methyl tert-bu...   | 0.723          | 0.734 | 0.723 | 0.706 | 0.694 | 0.611 | 0.698 | 6.48  |
| 20) T  | Methylene Chlo...   | 0.886          | 1.311 | 0.749 | 0.659 | 0.595 | 0.554 | 0.792 | 35.42 |
| 21) T  | trans-1,2-Dich...   | 0.661          | 0.662 | 0.646 | 0.687 | 0.660 | 0.604 | 0.653 | 4.20  |
| 22) T  | Diisopropyl ether   | 1.364          | 1.347 | 1.399 | 1.434 | 1.355 | 1.238 | 1.356 | 4.88  |
| 23) T  | Vinyl Acetate       | 0.808          | 0.754 | 0.867 | 0.856 | 0.862 | 0.772 | 0.820 | 5.99  |
| 24) P  | 1,1-Dichloroet...   | 1.031          | 1.046 | 1.070 | 1.122 | 1.048 | 0.973 | 1.048 | 4.65  |
| 25) T  | 2-Butanone          | 0.130          | 0.110 | 0.134 | 0.119 | 0.129 | 0.110 | 0.122 | 8.51  |
| 26) T  | 2,2-Dichloropr...   | 0.642          | 0.664 | 0.676 | 0.684 | 0.665 | 0.597 | 0.655 | 4.85  |
| 27) T  | cis-1,2-Dichlo...   | 0.698          | 0.721 | 0.702 | 0.752 | 0.720 | 0.659 | 0.708 | 4.38  |
| 28) T  | Bromochloromet...   | 0.387          | 0.408 | 0.398 | 0.361 | 0.374 | 0.347 | 0.379 | 6.05  |
| 29) T  | Tetrahydrofuran     | 0.081          | 0.070 | 0.087 | 0.076 | 0.082 | 0.070 | 0.078 | 8.94  |
| 30) C  | Chloroform          | 1.200          | 1.227 | 1.201 | 1.250 | 1.185 | 1.111 | 1.196 | 3.98# |
| 31) T  | Cyclohexane         | 0.981          | 1.086 | 0.972 | 0.917 | 0.902 | 0.783 | 0.940 | 10.72 |
| 32) T  | 1,1,1-Trichlor...   | 1.006          | 1.019 | 1.044 | 1.062 | 1.046 | 0.933 | 1.018 | 4.57  |
| 33) S  | 1,2-Dichloroet...   | 0.647          | 0.676 | 0.679 | 0.628 | 0.599 | 0.545 | 0.629 | 8.13  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   | 0.334          | 0.352 | 0.355 | 0.346 | 0.332 | 0.323 | 0.340 | 3.69  |
| 36) T  | 1,1-Dichloropr...   | 0.535          | 0.529 | 0.560 | 0.568 | 0.550 | 0.515 | 0.543 | 3.65  |
| 37) T  | Ethyl Acetate       | 0.189          | 0.148 | 0.182 | 0.162 | 0.174 | 0.157 | 0.169 | 9.32  |
| 38) T  | Carbon Tetrach...   | 0.541          | 0.555 | 0.586 | 0.598 | 0.597 | 0.562 | 0.573 | 4.17  |
| 39) T  | Methylcyclohexane   | 0.611          | 0.615 | 0.684 | 0.668 | 0.679 | 0.620 | 0.646 | 5.32  |
| 40) TM | Benzene             | 1.391          | 1.438 | 1.440 | 1.486 | 1.415 | 1.374 | 1.424 | 2.81  |
| 41) T  | Methacrylonitrile   | 0.087          | 0.099 | 0.091 | 0.101 | 0.100 | 0.091 | 0.095 | 6.05  |
| 42) TM | 1,2-Dichloroet...   | 0.480          | 0.485 | 0.476 | 0.475 | 0.460 | 0.440 | 0.469 | 3.58  |
| 43) T  | Isopropyl Acetate   | 0.320          | 0.285 | 0.334 | 0.316 | 0.341 | 0.317 | 0.319 | 6.14  |
| 44) TM | Trichloroethene     | 0.385          | 0.408 | 0.414 | 0.429 | 0.412 | 0.414 | 0.410 | 3.50  |
| 45) C  | 1,2-Dichloropr...   | 0.325          | 0.325 | 0.328 | 0.343 | 0.324 | 0.315 | 0.327 | 2.79# |
| 46) T  | Dibromomethane      | 0.206          | 0.200 | 0.208 | 0.203 | 0.202 | 0.195 | 0.202 | 2.23  |
| 47) T  | Bromodichlorom...   | 0.503          | 0.508 | 0.510 | 0.543 | 0.529 | 0.517 | 0.518 | 2.89  |
| 48) T  | Methyl methacr...   | 0.156          | 0.133 | 0.161 | 0.155 | 0.167 | 0.165 | 0.156 | 7.76  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 | 12.66 |
| 50) S  | Toluene-d8          | 1.272          | 1.290 | 1.330 | 1.264 | 1.205 | 1.177 | 1.256 | 4.45  |
| 51) T  | 4-Methyl-2-Pen...   | 0.171          | 0.144 | 0.177 | 0.159 | 0.171 | 0.155 | 0.163 | 7.63  |
| 52) CM | Toluene             | 0.931          | 0.925 | 0.953 | 0.994 | 0.944 | 0.917 | 0.944 | 2.92# |
| 53) T  | t-1,3-Dichloro...   | 0.420          | 0.405 | 0.457 | 0.496 | 0.499 | 0.489 | 0.461 | 8.82  |
| 54) T  | cis-1,3-Dichlo...   | 0.507          | 0.504 | 0.544 | 0.576 | 0.568 | 0.561 | 0.543 | 5.73  |
| 55) T  | 1,1,2-Trichlor...   | 0.273          | 0.266 | 0.280 | 0.271 | 0.275 | 0.260 | 0.271 | 2.58  |
| 56) T  | Ethyl methacry...   | 0.301          | 0.264 | 0.312 | 0.313 | 0.332 | 0.314 | 0.306 | 7.53  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.472          | 0.438 | 0.468 | 0.464 | 0.460 | 0.439 | 0.457 | 3.23  |
| 58) | T  | 2-Chloroethyl ...     | 0.152          | 0.136 | 0.159 | 0.154 | 0.164 | 0.156 | 0.153 | 6.36  |
| 59) | T  | 2-Hexanone            | 0.117          | 0.095 | 0.120 | 0.107 | 0.118 | 0.106 | 0.111 | 8.71  |
| 60) | T  | Dibromochlorom...     | 0.319          | 0.305 | 0.317 | 0.343 | 0.339 | 0.346 | 0.328 | 5.12  |
| 61) | T  | 1,2-Dibromoethane     | 0.268          | 0.257 | 0.271 | 0.270 | 0.269 | 0.259 | 0.266 | 2.32  |
| 62) | S  | 4-Bromofluorob...     | 0.470          | 0.462 | 0.483 | 0.472 | 0.442 | 0.429 | 0.460 | 4.41  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.347          | 0.361 | 0.382 | 0.350 | 0.358 | 0.347 | 0.358 | 3.75  |
| 65) | PM | Chlorobenzene         | 1.120          | 1.156 | 1.185 | 1.150 | 1.137 | 1.096 | 1.141 | 2.69  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.387          | 0.388 | 0.407 | 0.412 | 0.415 | 0.408 | 0.403 | 2.99  |
| 67) | C  | Ethyl Benzene         | 2.069          | 2.078 | 2.199 | 2.151 | 2.142 | 2.024 | 2.110 | 3.05# |
| 68) | T  | m/p-Xylenes           | 0.762          | 0.761 | 0.824 | 0.808 | 0.797 | 0.753 | 0.784 | 3.74  |
| 69) | T  | o-Xylene              | 0.701          | 0.695 | 0.731 | 0.743 | 0.725 | 0.711 | 0.718 | 2.54  |
| 70) | T  | Styrene               | 1.170          | 1.161 | 1.280 | 1.256 | 1.271 | 1.208 | 1.224 | 4.24  |
| 71) | P  | Bromoform             | 0.183          | 0.163 | 0.175 | 0.190 | 0.210 | 0.199 | 0.187 | 9.02  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.998          | 4.081 | 4.375 | 4.636 | 4.804 | 4.209 | 4.350 | 7.30  |
| 74) | T  | N-amyl acetate        | 0.646          | 0.566 | 0.708 | 0.688 | 0.781 | 0.674 | 0.677 | 10.47 |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.713          | 0.659 | 0.718 | 0.706 | 0.747 | 0.652 | 0.699 | 5.26  |
| 76) | T  | 1,2,3-Trichlor...     | 0.468          | 0.454 | 0.495 | 0.469 | 0.505 | 0.429 | 0.470 | 5.84  |
| 77) | T  | Bromobenzene          | 0.867          | 0.870 | 0.889 | 0.952 | 1.002 | 0.906 | 0.914 | 5.78  |
| 78) | T  | n-propylbenzene       | 4.805          | 4.957 | 4.961 | 5.466 | 5.548 | 4.909 | 5.108 | 6.18  |
| 79) | T  | 2-Chlorotoluene       | 2.799          | 2.913 | 2.974 | 3.152 | 3.118 | 2.812 | 2.961 | 5.06  |
| 80) | T  | 1,3,5-Trimethy...     | 3.470          | 3.567 | 3.725 | 3.999 | 4.059 | 3.529 | 3.725 | 6.74  |
| 81) | T  | trans-1,4-Dich...     | 0.166          | 0.151 | 0.185 | 0.191 | 0.228 | 0.206 | 0.188 | 14.77 |
| 82) | T  | 4-Chlorotoluene       | 2.894          | 3.107 | 3.085 | 3.278 | 3.280 | 2.961 | 3.101 | 5.13  |
| 83) | T  | tert-Butylbenzene     | 2.883          | 3.026 | 3.146 | 3.321 | 3.447 | 3.093 | 3.153 | 6.46  |
| 84) | T  | 1,2,4-Trimethy...     | 3.456          | 3.621 | 3.650 | 3.917 | 4.012 | 3.551 | 3.701 | 5.86  |
| 85) | T  | sec-Butylbenzene      | 4.160          | 4.172 | 4.414 | 4.581 | 4.760 | 4.167 | 4.376 | 5.81  |
| 86) | T  | p-Isopropyltol...     | 3.637          | 3.862 | 4.103 | 4.194 | 4.372 | 3.955 | 4.021 | 6.45  |
| 87) | T  | 1,3-Dichlorobe...     | 1.730          | 1.844 | 1.838 | 1.962 | 1.969 | 1.743 | 1.848 | 5.55  |
| 88) | T  | 1,4-Dichlorobe...     | 1.748          | 1.791 | 1.822 | 1.956 | 1.889 | 1.674 | 1.813 | 5.54  |
| 89) | T  | n-Butylbenzene        | 3.556          | 3.761 | 3.930 | 4.023 | 4.137 | 3.640 | 3.841 | 5.89  |
| 90) | T  | Hexachloroethane      | 0.594          | 0.656 | 0.677 | 0.738 | 0.783 | 0.714 | 0.694 | 9.55  |
| 91) | T  | 1,2-Dichlorobe...     | 1.516          | 1.472 | 1.615 | 1.685 | 1.692 | 1.493 | 1.579 | 6.23  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.108          | 0.109 | 0.132 | 0.121 | 0.138 | 0.120 | 0.121 | 9.94  |
| 93) | T  | 1,2,4-Trichlor...     | 1.005          | 1.058 | 1.129 | 1.055 | 1.157 | 1.056 | 1.076 | 5.17  |
| 94) | T  | Hexachlorobuta...     | 0.613          | 0.558 | 0.655 | 0.677 | 0.668 | 0.590 | 0.627 | 7.58  |
| 95) | T  | Naphthalene           | 1.957          | 1.871 | 2.193 | 2.075 | 2.339 | 2.077 | 2.085 | 7.98  |
| 96) | T  | 1,2,3-Trichlor...     | 0.870          | 0.839 | 1.010 | 0.972 | 0.997 | 0.907 | 0.933 | 7.58  |

(#) = Out of Range