

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\  
 Method File : 82W082625S.M  
 Title : SW846 8260  
 Last Update : Wed Aug 27 04:13:40 2025  
 Response Via : Initial Calibration

## Calibration Files

5 =VW032137.D 10 =VW032138.D 20 =VW032139.D 50 =VW032144.D 100 =VW032141.D 150 =VW032142.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.358          | 0.346 | 0.357 | 0.312 | 0.306 | 0.302 | 0.330 | 8.02  |
| 3) P   | Chloromethane       | 0.398          | 0.347 | 0.341 | 0.340 | 0.320 | 0.330 | 0.346 | 7.86  |
| 4) C   | Vinyl Chloride      | 0.490          | 0.486 | 0.461 | 0.444 | 0.414 | 0.402 | 0.450 | 8.15# |
| 5) T   | Bromomethane        | 0.459          | 0.414 | 0.408 | 0.374 | 0.369 | 0.384 | 0.401 | 8.39  |
| 6) T   | Chloroethane        | 0.322          | 0.335 | 0.324 | 0.317 | 0.298 | 0.304 | 0.317 | 4.34  |
| 7) T   | Trichlorofluor...   | 0.383          | 0.446 | 0.455 | 0.481 | 0.451 | 0.457 | 0.445 | 7.39  |
| 8) T   | Diethyl Ether       | 0.367          | 0.349 | 0.338 | 0.321 | 0.313 | 0.307 | 0.332 | 7.01  |
| 9) T   | 1,1,2-Trichlor...   | 0.558          | 0.514 | 0.514 | 0.505 | 0.465 | 0.454 | 0.502 | 7.51  |
| 10) T  | Methyl Iodide       | 0.814          | 0.800 | 0.789 | 0.748 | 0.733 | 0.700 | 0.764 | 5.78  |
| 11) T  | Tert butyl alc...   | 0.046          | 0.042 | 0.040 | 0.044 | 0.045 | 0.044 | 0.044 | 4.58  |
| 12) CM | 1,1-Dichloroet...   | 0.582          | 0.515 | 0.547 | 0.536 | 0.498 | 0.493 | 0.528 | 6.36# |
| 13) T  | Acrolein            | 0.073          | 0.069 | 0.064 | 0.066 | 0.065 | 0.066 | 0.067 | 4.70  |
| 14) T  | Allyl chloride      | 0.779          | 0.746 | 0.749 | 0.768 | 0.741 | 0.720 | 0.751 | 2.79  |
| 15) T  | Acrylonitrile       | 0.152          | 0.164 | 0.160 | 0.164 | 0.169 | 0.161 | 0.162 | 3.51  |
| 16) T  | Acetone             | 0.178          | 0.161 | 0.152 | 0.157 | 0.143 | 0.138 | 0.155 | 9.11  |
| 17) T  | Carbon Disulfide    | 1.357          | 1.337 | 1.340 | 1.360 | 1.279 | 1.257 | 1.322 | 3.26  |
| 18) T  | Methyl Acetate      | 0.494          | 0.465 | 0.474 | 0.515 | 0.510 | 0.501 | 0.493 | 4.04  |
| 19) T  | Methyl tert-bu...   | 0.981          | 0.991 | 1.001 | 1.051 | 1.005 | 0.959 | 0.998 | 3.07  |
| 20) T  | Methylene Chlo...   | 0.973          | 0.880 | 0.720 | 0.641 | 0.582 | 0.555 | 0.725 | 23.25 |
| 21) T  | trans-1,2-Dich...   | 0.597          | 0.595 | 0.604 | 0.609 | 0.576 | 0.559 | 0.590 | 3.19  |
| 22) T  | Diisopropyl ether   | 1.552          | 1.595 | 1.695 | 1.713 | 1.641 | 1.605 | 1.634 | 3.78  |
| 23) T  | Vinyl Acetate       | 0.981          | 1.066 | 1.109 | 1.177 | 1.178 | 1.154 | 1.111 | 6.92  |
| 24) P  | 1,1-Dichloroet...   | 1.118          | 1.083 | 1.083 | 1.102 | 1.026 | 1.005 | 1.070 | 4.16  |
| 25) T  | 2-Butanone          | 0.201          | 0.216 | 0.217 | 0.226 | 0.232 | 0.223 | 0.219 | 4.91  |
| 26) T  | 2,2-Dichloropr...   | 0.560          | 0.561 | 0.557 | 0.608 | 0.563 | 0.551 | 0.566 | 3.67  |
| 27) T  | cis-1,2-Dichlo...   | 0.734          | 0.721 | 0.722 | 0.739 | 0.705 | 0.689 | 0.718 | 2.61  |
| 28) T  | Bromochloromet...   | 0.499          | 0.475 | 0.516 | 0.486 | 0.475 | 0.487 | 0.490 | 3.19  |
| 29) T  | Tetrahydrofuran     | 0.131          | 0.135 | 0.137 | 0.142 | 0.149 | 0.143 | 0.139 | 4.61  |
| 30) C  | Chloroform          | 1.275          | 1.245 | 1.229 | 1.250 | 1.174 | 1.154 | 1.221 | 3.85# |
| 31) T  | Cyclohexane         | 1.048          | 0.930 | 0.852 | 0.862 | 0.796 | 0.779 | 0.878 | 11.25 |
| 32) T  | 1,1,1-Trichlor...   | 0.938          | 0.907 | 0.901 | 0.917 | 0.847 | 0.839 | 0.891 | 4.46  |
| 33) S  | 1,2-Dichloroet...   | 0.752          | 0.715 | 0.723 | 0.697 | 0.690 | 0.713 | 0.715 | 3.07  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   | 0.367          | 0.350 | 0.347 | 0.360 | 0.335 | 0.346 | 0.351 | 3.22  |
| 36) T  | 1,1-Dichloropr...   | 0.447          | 0.460 | 0.439 | 0.507 | 0.443 | 0.433 | 0.455 | 5.99  |
| 37) T  | Ethyl Acetate       | 0.259          | 0.263 | 0.257 | 0.296 | 0.284 | 0.278 | 0.273 | 5.64  |
| 38) T  | Carbon Tetrach...   | 0.467          | 0.489 | 0.480 | 0.545 | 0.477 | 0.467 | 0.488 | 6.02  |
| 39) T  | Methylcyclohexane   | 0.486          | 0.525 | 0.517 | 0.617 | 0.550 | 0.538 | 0.539 | 8.16  |
| 40) TM | Benzene             | 1.381          | 1.421 | 1.411 | 1.525 | 1.362 | 1.334 | 1.406 | 4.74  |
| 41) T  | Methacrylonitrile   | 0.152          | 0.149 | 0.140 | 0.158 | 0.156 | 0.155 | 0.152 | 4.37  |
| 42) TM | 1,2-Dichloroet...   | 0.492          | 0.494 | 0.476 | 0.524 | 0.471 | 0.466 | 0.487 | 4.38  |
| 43) T  | Isopropyl Acetate   | 0.470          | 0.488 | 0.476 | 0.564 | 0.538 | 0.535 | 0.512 | 7.63  |
| 44) TM | Trichloroethene     | 0.350          | 0.359 | 0.352 | 0.374 | 0.343 | 0.343 | 0.354 | 3.31  |
| 45) C  | 1,2-Dichloropr...   | 0.338          | 0.344 | 0.337 | 0.370 | 0.323 | 0.322 | 0.339 | 5.18# |
| 46) T  | Dibromomethane      | 0.236          | 0.247 | 0.238 | 0.249 | 0.232 | 0.223 | 0.238 | 4.07  |
| 47) T  | Bromodichlorom...   | 0.520          | 0.536 | 0.527 | 0.593 | 0.531 | 0.533 | 0.540 | 4.92  |
| 48) T  | Methyl methacr...   | 0.190          | 0.213 | 0.228 | 0.271 | 0.257 | 0.256 | 0.236 | 13.06 |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 11.43 |
| 50) S  | Toluene-d8          | 1.173          | 1.215 | 1.235 | 1.322 | 1.191 | 1.253 | 1.231 | 4.28  |
| 51) T  | 4-Methyl-2-Pen...   | 0.260          | 0.279 | 0.281 | 0.317 | 0.304 | 0.294 | 0.289 | 6.93  |
| 52) CM | Toluene             | 0.890          | 0.920 | 0.912 | 1.010 | 0.902 | 0.879 | 0.919 | 5.13# |
| 53) T  | t-1,3-Dichloro...   | 0.403          | 0.446 | 0.451 | 0.538 | 0.511 | 0.510 | 0.477 | 10.72 |
| 54) T  | cis-1,3-Dichlo...   | 0.494          | 0.519 | 0.523 | 0.613 | 0.559 | 0.555 | 0.544 | 7.63  |
| 55) T  | 1,1,2-Trichlor...   | 0.306          | 0.314 | 0.311 | 0.322 | 0.305 | 0.298 | 0.309 | 2.71  |
| 56) T  | Ethyl methacry...   | 0.321          | 0.366 | 0.366 | 0.453 | 0.428 | 0.437 | 0.395 | 13.12 |

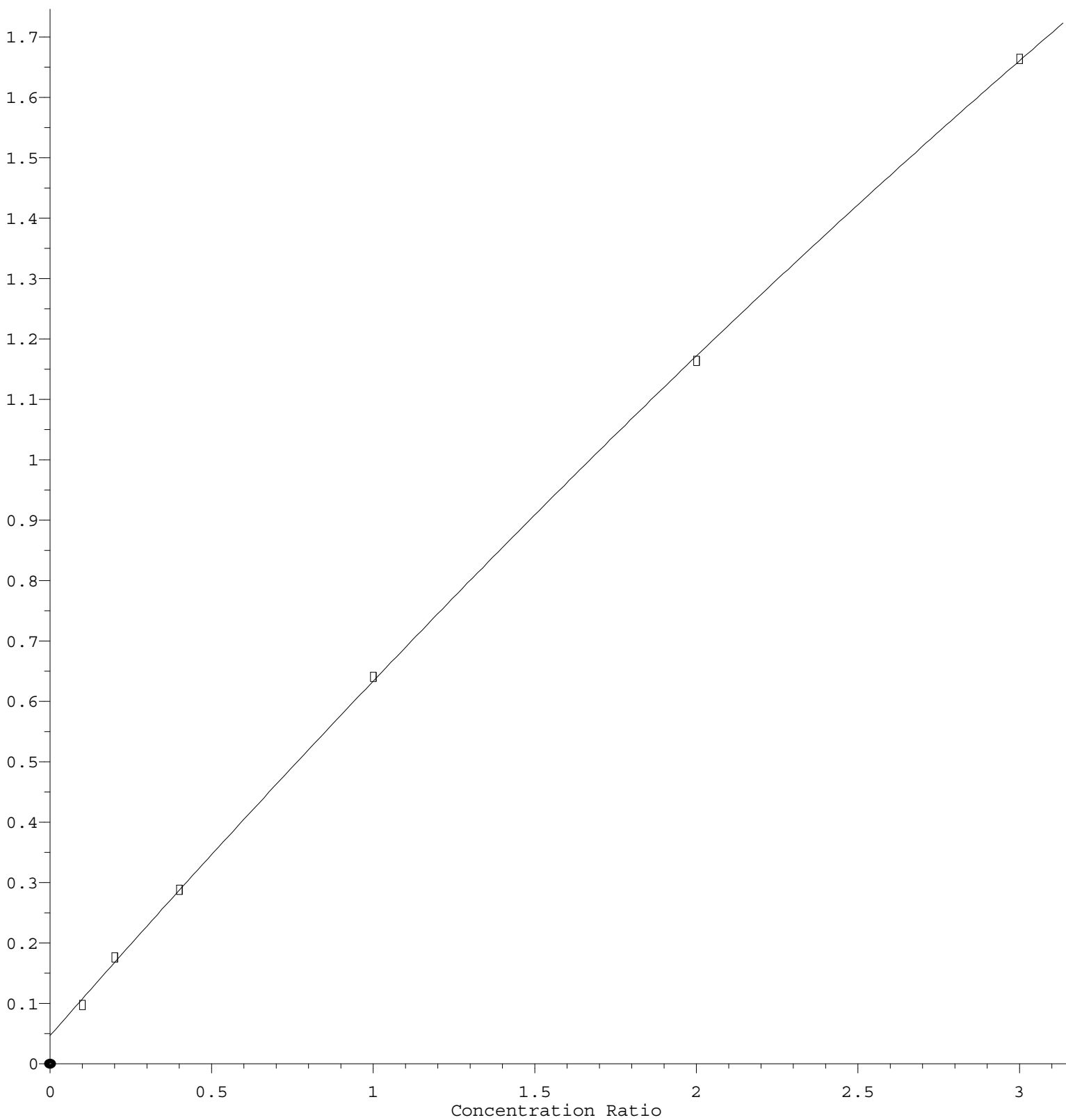
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\  
 Method File : 82W082625S.M

|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.507          | 0.524 | 0.510 | 0.553 | 0.514 | 0.498 | 0.518 | 3.73  |
| 58) | T  | 2-Chloroethyl ...     | 0.171          | 0.203 | 0.211 | 0.223 | 0.227 | 0.232 | 0.211 | 10.65 |
| 59) | T  | 2-Hexanone            | 0.173          | 0.189 | 0.191 | 0.223 | 0.218 | 0.212 | 0.201 | 9.78  |
| 60) | T  | Dibromochlorom...     | 0.351          | 0.360 | 0.364 | 0.414 | 0.380 | 0.375 | 0.374 | 5.96  |
| 61) | T  | 1,2-Dibromoethane     | 0.283          | 0.309 | 0.294 | 0.333 | 0.302 | 0.303 | 0.304 | 5.46  |
| 62) | S  | 4-Bromofluorob...     | 0.448          | 0.431 | 0.450 | 0.489 | 0.447 | 0.468 | 0.455 | 4.46  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.318          | 0.332 | 0.342 | 0.353 | 0.322 | 0.308 | 0.329 | 5.04  |
| 65) | PM | Chlorobenzene         | 1.137          | 1.132 | 1.194 | 1.190 | 1.107 | 1.069 | 1.138 | 4.24  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.354          | 0.379 | 0.371 | 0.401 | 0.371 | 0.372 | 0.375 | 4.08  |
| 67) | C  | Ethyl Benzene         | 1.676          | 1.823 | 1.920 | 2.027 | 1.880 | 1.862 | 1.865 | 6.21# |
| 68) | T  | m/p-Xylenes           | 0.627          | 0.700 | 0.751 | 0.798 | 0.730 | 0.699 | 0.718 | 8.02  |
| 69) | T  | o-Xylene              | 0.581          | 0.659 | 0.695 | 0.752 | 0.688 | 0.699 | 0.679 | 8.36  |
| 70) | T  | Styrene               | 1.006          | 1.160 | 1.246 | 1.324 | 1.223 | 1.221 | 1.197 | 8.97  |
| 71) | P  | Bromoform             | 0.203          | 0.212 | 0.216 | 0.237 | 0.230 | 0.238 | 0.223 | 6.48  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 2.833          | 3.266 | 3.258 | 3.788 | 3.570 | 3.666 | 3.397 | 10.28 |
| 74) | T  | N-amyl acetate        | 0.836          | 0.896 | 0.942 | 1.070 | 1.061 | 1.112 | 0.986 | 11.21 |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.778          | 0.800 | 0.774 | 0.851 | 0.814 | 0.827 | 0.807 | 3.67  |
| 76) | T  | 1,2,3-Trichlor...     | 0.626          | 0.597 | 0.685 | 0.637 | 0.604 | 0.610 | 0.626 | 5.16  |
| 77) | T  | Bromobenzene          | 0.815          | 0.844 | 0.864 | 0.947 | 0.825 | 0.904 | 0.866 | 5.82  |
| 78) | T  | n-propylbenzene       | 3.525          | 4.066 | 4.016 | 4.548 | 4.238 | 4.351 | 4.124 | 8.53  |
| 79) | T  | 2-Chlorotoluene       | 2.250          | 2.469 | 2.469 | 2.758 | 2.552 | 2.633 | 2.522 | 6.83  |
| 80) | T  | 1,3,5-Trimethy...     | 2.411          | 2.790 | 2.815 | 3.210 | 2.968 | 3.063 | 2.876 | 9.62  |
| 81) | T  | trans-1,4-Dich...     | 0.180          | 0.199 | 0.210 | 0.260 | 0.269 | 0.279 | 0.233 | 17.95 |
| 82) | T  | 4-Chlorotoluene       | 2.427          | 2.670 | 2.670 | 2.995 | 2.683 | 2.753 | 2.699 | 6.77  |
| 83) | T  | tert-Butylbenzene     | 2.048          | 2.335 | 2.346 | 2.827 | 2.480 | 2.594 | 2.439 | 10.83 |
| 84) | T  | 1,2,4-Trimethy...     | 2.529          | 2.821 | 2.989 | 3.353 | 3.024 | 3.136 | 2.975 | 9.44  |
| 85) | T  | sec-Butylbenzene      | 3.211          | 3.461 | 3.534 | 4.127 | 3.647 | 3.864 | 3.641 | 8.81  |
| 86) | T  | p-Isopropyltol...     | 2.625          | 2.963 | 3.065 | 3.517 | 3.116 | 3.291 | 3.096 | 9.75  |
| 87) | T  | 1,3-Dichlorobe...     | 1.661          | 1.817 | 1.681 | 1.899 | 1.710 | 1.698 | 1.744 | 5.34  |
| 88) | T  | 1,4-Dichlorobe...     | 1.723          | 1.810 | 1.714 | 1.828 | 1.656 | 1.759 | 1.748 | 3.66  |
| 89) | T  | n-Butylbenzene        | 2.571          | 2.782 | 2.819 | 3.337 | 3.061 | 3.140 | 2.952 | 9.42  |
| 90) | T  | Hexachloroethane      | 0.538          | 0.556 | 0.524 | 0.609 | 0.566 | 0.605 | 0.566 | 6.15  |
| 91) | T  | 1,2-Dichlorobe...     | 1.511          | 1.515 | 1.603 | 1.561 | 1.536 | 1.539 | 1.544 | 2.21  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.133          | 0.128 | 0.139 | 0.146 | 0.154 | 0.156 | 0.143 | 8.00  |
| 93) | T  | 1,2,4-Trichlor...     | 0.870          | 0.994 | 0.991 | 1.087 | 0.963 | 1.015 | 0.987 | 7.20  |
| 94) | T  | Hexachlorobuta...     | 0.495          | 0.472 | 0.492 | 0.553 | 0.450 | 0.474 | 0.489 | 7.22  |
| 95) | T  | Naphthalene           | 1.790          | 1.985 | 2.127 | 2.467 | 2.504 | 2.525 | 2.233 | 13.91 |
| 96) | T  | 1,2,3-Trichlor...     | 0.832          | 0.916 | 0.886 | 0.968 | 0.938 | 0.965 | 0.918 | 5.67  |

(#) = Out of Range

# Methylene Chloride

Response Ratio



$R = -2.447e-002 A^2 + 6.115e-001 A + 4.664e-002$   
 Coef of Det ( $r^2$ ) = 0.999852    Curve Fit: Quadratic  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA W\Method\82W082625S.M  
 Calibration Table Last Updated: Wed Aug 27 04:13:40 2025