

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X090722W.M  
 Title : SW846 8260  
 Last Update : Wed Sep 07 23:22:41 2022  
 Response Via : Initial Calibration

## Calibration Files

1 =VX031151.D 5 =VX031152.D 20 =VX031154.D 50 =VX031155.D 100 =VX031156.D 10 =VX031153.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 10    | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.797          | 0.840 | 0.890 | 0.776 | 0.689 | 0.829 | 0.804 | 8.51  |
| 3) P   | Chloromethane       | 0.687          | 0.677 | 0.621 | 0.574 | 0.523 | 0.622 | 0.617 | 10.07 |
| 4) C   | Vinyl Chloride      | 0.766          | 0.777 | 0.765 | 0.696 | 0.628 | 0.740 | 0.729 | 7.87# |
| 5) T   | Bromomethane        |                | 0.530 | 0.464 | 0.447 | 0.399 | 0.489 | 0.466 | 10.45 |
| 6) T   | Chloroethane        | 0.332          | 0.474 | 0.428 | 0.412 | 0.376 | 0.431 | 0.409 | 12.09 |
| 7) T   | Trichlorofluor...   | 1.647          | 1.661 | 1.661 | 1.571 | 1.373 | 1.616 | 1.588 | 6.98  |
| 8) T   | Diethyl Ether       | 0.445          | 0.482 | 0.460 | 0.437 | 0.410 | 0.472 | 0.451 | 5.81  |
| 9) T   | 1,1,2-Trichlor...   | 0.978          | 0.916 | 0.907 | 0.891 | 0.783 | 0.914 | 0.898 | 7.08  |
| 10) T  | Methyl Iodide       |                | 1.083 | 1.163 | 1.156 | 1.060 | 1.091 | 1.111 | 4.16  |
| 11) T  | Tert butyl alc...   |                | 0.333 | 0.247 | 0.235 | 0.195 | 0.278 | 0.258 | 19.98 |
| 12) CM | 1,1-Dichloroet...   | 0.910          | 0.882 | 0.872 | 0.837 | 0.738 | 0.826 | 0.844 | 7.17# |
| 13) T  | Acrolein            |                | 0.189 | 0.165 | 0.158 | 0.143 | 0.168 | 0.164 | 10.20 |
| 14) T  | Allyl chloride      | 1.194          | 1.162 | 1.149 | 1.150 | 1.032 | 1.118 | 1.134 | 4.93  |
| 15) T  | Acrylonitrile       | 0.441          | 0.463 | 0.466 | 0.463 | 0.397 | 0.475 | 0.451 | 6.36  |
| 16) T  | Acetone             | 0.440          | 0.439 | 0.405 | 0.408 | 0.348 | 0.418 | 0.410 | 8.25  |
| 17) T  | Carbon Disulfide    | 2.085          | 2.095 | 2.131 | 2.090 | 1.942 | 2.109 | 2.075 | 3.24  |
| 18) T  | Methyl Acetate      | 1.113          | 1.057 | 1.097 | 1.044 | 0.937 | 1.118 | 1.061 | 6.38  |
| 19) T  | Methyl tert-bu...   | 2.767          | 3.146 | 3.190 | 3.074 | 2.778 | 3.037 | 2.998 | 6.11  |
| 20) T  | Methylene Chlo...   | 1.024          | 0.997 | 0.989 | 0.937 | 0.839 | 0.995 | 0.963 | 7.00  |
| 21) T  | trans-1,2-Dich...   | 1.040          | 0.920 | 0.940 | 0.916 | 0.828 | 0.969 | 0.935 | 7.44  |
| 22) T  | Diisopropyl ether   | 2.288          | 2.551 | 2.521 | 2.363 | 2.096 | 2.469 | 2.381 | 7.19  |
| 23) T  | Vinyl Acetate       | 1.862          | 2.079 | 2.100 | 2.069 | 1.846 | 2.036 | 1.999 | 5.70  |
| 24) P  | 1,1-Dichloroet...   | 1.486          | 1.664 | 1.665 | 1.597 | 1.441 | 1.625 | 1.580 | 6.00  |
| 25) T  | 2-Butanone          | 0.634          | 0.640 | 0.606 | 0.620 | 0.520 | 0.622 | 0.607 | 7.29  |
| 26) T  | 2,2-Dichloropr...   | 1.411          | 1.479 | 1.455 | 1.450 | 1.313 | 1.373 | 1.413 | 4.37  |
| 27) T  | cis-1,2-Dichlo...   | 1.149          | 1.124 | 1.087 | 1.033 | 0.954 | 1.097 | 1.074 | 6.59  |
| 28) T  | Bromochloromet...   | 0.561          | 0.618 | 0.596 | 0.589 | 0.548 | 0.524 | 0.573 | 6.05  |
| 29) T  | Tetrahydrofuran     | 0.338          | 0.379 | 0.363 | 0.367 | 0.322 | 0.381 | 0.358 | 6.56  |
| 30) C  | Chloroform          | 1.934          | 2.009 | 1.872 | 1.850 | 1.646 | 1.901 | 1.868 | 6.55# |
| 31) T  | Cyclohexane         |                | 1.467 | 1.340 | 1.314 | 1.148 | 1.345 | 1.323 | 8.64  |
| 32) T  | 1,1,1-Trichlor...   | 1.678          | 1.750 | 1.732 | 1.703 | 1.544 | 1.696 | 1.684 | 4.34  |
| 33) S  | 1,2-Dichloroet...   |                | 1.168 | 1.201 | 1.193 | 1.199 | 1.158 | 1.184 | 1.65  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.522 | 0.571 | 0.554 | 0.575 | 0.502 | 0.545 | 5.80  |
| 36) T  | 1,1-Dichloropr...   | 0.871          | 0.834 | 0.835 | 0.818 | 0.754 | 0.783 | 0.816 | 5.11  |
| 37) T  | Ethyl Acetate       | 0.711          | 0.741 | 0.775 | 0.729 | 0.668 | 0.720 | 0.724 | 4.87  |
| 38) T  | Carbon Tetrach...   | 0.721          | 0.841 | 0.927 | 0.923 | 0.857 | 0.883 | 0.859 | 8.84  |
| 39) T  | Methylcyclohexane   | 0.849          | 0.945 | 0.999 | 0.965 | 0.880 | 0.954 | 0.932 | 6.02  |
| 40) TM | Benzene             | 2.146          | 2.361 | 2.300 | 2.235 | 2.022 | 2.235 | 2.217 | 5.40  |
| 41) T  | Methacrylonitrile   | 0.359          | 0.392 | 0.383 | 0.390 | 0.368 | 0.378 | 0.379 | 3.39  |
| 42) TM | 1,2-Dichloroet...   | 0.807          | 0.964 | 0.948 | 0.963 | 0.852 | 0.912 | 0.908 | 7.16  |
| 43) T  | Isopropyl Acetate   | 1.008          | 1.186 | 1.237 | 1.186 | 1.091 | 1.140 | 1.141 | 7.18  |
| 44) TM | Trichloroethene     | 0.606          | 0.628 | 0.658 | 0.625 | 0.567 | 0.655 | 0.623 | 5.41  |
| 45) C  | 1,2-Dichloropr...   | 0.545          | 0.552 | 0.557 | 0.547 | 0.488 | 0.580 | 0.545 | 5.63# |
| 46) T  | Dibromomethane      | 0.417          | 0.444 | 0.454 | 0.456 | 0.403 | 0.417 | 0.432 | 5.17  |
| 47) T  | Bromodichlorom...   | 0.717          | 0.864 | 0.913 | 0.900 | 0.837 | 0.810 | 0.840 | 8.51  |
| 48) T  | Methyl methacr...   | 0.574          | 0.538 | 0.562 | 0.588 | 0.523 | 0.550 | 0.556 | 4.29  |
| 49) T  | 1,4-Dioxane         | 0.015          | 0.016 | 0.016 | 0.016 | 0.014 | 0.016 | 0.015 | 6.78  |
| 50) S  | Toluene-d8          |                | 1.979 | 2.068 | 1.983 | 2.059 | 1.810 | 1.980 | 5.24  |
| 51) T  | 4-Methyl-2-Pen...   | 0.648          | 0.744 | 0.725 | 0.737 | 0.629 | 0.710 | 0.699 | 6.92  |
| 52) CM | Toluene             | 1.467          | 1.477 | 1.528 | 1.502 | 1.356 | 1.443 | 1.462 | 4.09# |
| 53) T  | t-1,3-Dichloro...   | 0.734          | 0.866 | 0.938 | 0.975 | 0.916 | 0.823 | 0.875 | 9.98  |
| 54) T  | cis-1,3-Dichlo...   | 0.798          | 0.945 | 1.017 | 1.018 | 0.946 | 0.915 | 0.940 | 8.63  |
| 55) T  | 1,1,2-Trichlor...   | 0.609          | 0.598 | 0.636 | 0.618 | 0.556 | 0.589 | 0.601 | 4.54  |
| 56) T  | Ethyl methacry...   | 0.740          | 0.924 | 0.958 | 0.975 | 0.858 | 0.859 | 0.886 | 9.77  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 1.013          | 1.092 | 1.068 | 1.057 | 0.950 | 1.052 | 1.039 | 4.83  |
| 58) | T  | 2-Chloroethyl ...     | 0.377          | 0.448 | 0.443 | 0.429 | 0.385 | 0.423 | 0.417 | 7.07  |
| 59) | T  | 2-Hexanone            | 0.469          | 0.542 | 0.558 | 0.567 | 0.482 | 0.553 | 0.529 | 7.96  |
| 60) | T  | Dibromochlorom...     | 0.499          | 0.627 | 0.669 | 0.682 | 0.640 | 0.602 | 0.620 | 10.64 |
| 61) | T  | 1,2-Dibromoethane     | 0.694          | 0.699 | 0.677 | 0.682 | 0.621 | 0.635 | 0.668 | 4.84  |
| 62) | S  | 4-Bromofluorob...     |                | 0.653 | 0.746 | 0.781 | 0.763 | 0.685 | 0.725 | 7.46  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.482          | 0.553 | 0.546 | 0.517 | 0.469 | 0.556 | 0.521 | 7.20  |
| 65) | PM | Chlorobenzene         | 1.463          | 1.589 | 1.523 | 1.485 | 1.341 | 1.432 | 1.472 | 5.71  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.623          | 0.594 | 0.562 | 0.572 | 0.538 | 0.562 | 0.575 | 5.18  |
| 67) | C  | Ethyl Benzene         | 2.516          | 2.766 | 2.800 | 2.765 | 2.519 | 2.641 | 2.668 | 4.82# |
| 68) | T  | m/p-Xylenes           | 0.894          | 1.025 | 1.024 | 1.034 | 0.932 | 1.024 | 0.989 | 6.06  |
| 69) | T  | o-Xylene              | 0.977          | 0.982 | 1.006 | 1.025 | 0.915 | 1.016 | 0.987 | 4.03  |
| 70) | T  | Styrene               | 1.381          | 1.580 | 1.684 | 1.718 | 1.518 | 1.615 | 1.583 | 7.71  |
| 71) | P  | Bromoform             | 0.339          | 0.357 | 0.401 | 0.434 | 0.396 | 0.372 | 0.383 | 8.88  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.868          | 4.780 | 4.428 | 4.542 | 4.010 | 4.423 | 4.342 | 7.84  |
| 74) | T  | N-ethyl acetate       | 1.100          | 1.481 | 1.410 | 1.518 | 1.304 | 1.481 | 1.382 | 11.41 |
| 75) | P  | 1,1,2,2-Tetrac...     | 1.343          | 1.489 | 1.362 | 1.384 | 1.187 | 1.367 | 1.355 | 7.17  |
| 76) | T  | 1,2,3-Trichlor...     | 1.290          | 1.449 | 1.359 | 1.417 | 1.313 | 1.358 | 1.365 | 4.41  |
| 77) | T  | Bromobenzene          | 0.876          | 1.030 | 0.949 | 0.977 | 0.871 | 0.958 | 0.944 | 6.45  |
| 78) | T  | n-propylbenzene       | 4.298          | 5.354 | 5.148 | 5.254 | 4.639 | 5.002 | 4.949 | 8.18  |
| 79) | T  | 2-Chlorotoluene       | 2.788          | 3.281 | 3.190 | 3.182 | 2.792 | 3.163 | 3.066 | 7.10  |
| 80) | T  | 1,3,5-Trimethy...     | 3.176          | 3.994 | 3.746 | 3.843 | 3.393 | 3.748 | 3.650 | 8.35  |
| 81) | T  | trans-1,4-Dich...     |                | 0.415 | 0.414 | 0.459 | 0.414 | 0.415 | 0.423 | 4.68  |
| 82) | T  | 4-Chlorotoluene       | 3.389          | 3.730 | 3.600 | 3.698 | 3.236 | 3.631 | 3.548 | 5.46  |
| 83) | T  | tert-Butylbenzene     | 3.613          | 3.803 | 3.600 | 3.696 | 3.293 | 3.585 | 3.598 | 4.74  |
| 84) | T  | 1,2,4-Trimethy...     | 3.072          | 3.740 | 3.805 | 3.784 | 3.370 | 3.521 | 3.549 | 8.14  |
| 85) | T  | sec-Butylbenzene      | 4.000          | 4.777 | 4.636 | 4.664 | 4.182 | 4.482 | 4.456 | 6.83  |
| 86) | T  | p-Isopropyltol...     | 3.272          | 3.649 | 3.738 | 3.857 | 3.479 | 3.607 | 3.600 | 5.69  |
| 87) | T  | 1,3-Dichlorobe...     | 1.574          | 1.859 | 1.825 | 1.799 | 1.647 | 1.818 | 1.754 | 6.56  |
| 88) | T  | 1,4-Dichlorobe...     | 1.789          | 1.930 | 1.811 | 1.835 | 1.648 | 1.810 | 1.804 | 5.05  |
| 89) | T  | n-Butylbenzene        | 2.490          | 3.155 | 3.283 | 3.503 | 3.070 | 3.123 | 3.104 | 10.90 |
| 90) | T  | Hexachloroethane      | 0.527          | 0.644 | 0.632 | 0.683 | 0.626 | 0.599 | 0.619 | 8.46  |
| 91) | T  | 1,2-Dichlorobe...     | 1.680          | 1.813 | 1.749 | 1.742 | 1.559 | 1.775 | 1.720 | 5.24  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.475          | 0.349 | 0.346 | 0.381 | 0.338 | 0.345 | 0.372 | 14.08 |
| 93) | T  | 1,2,4-Trichlor...     | 0.869          | 1.065 | 1.082 | 1.122 | 1.006 | 0.889 | 1.006 | 10.45 |
| 94) | T  | Hexachlorobuta...     | 0.465          | 0.411 | 0.430 | 0.445 | 0.401 | 0.410 | 0.427 | 5.72  |
| 95) | T  | Naphthalene           | 3.513          | 4.155 | 4.093 | 4.331 | 3.809 | 3.738 | 3.940 | 7.72  |
| 96) | T  | 1,2,3-Trichlor...     | 0.849          | 1.100 | 1.065 | 1.107 | 1.016 | 1.008 | 1.024 | 9.31  |

(#) = Out of Range