

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\  
 Method File : 82X070221W.M  
 Title : SW846 8260  
 Last Update : Fri Jul 02 14:29:42 2021  
 Response Via : Initial Calibration

## Calibration Files

1 =VX023102.D 5 =VX023103.D 20 =VX023104.D 50 =VX023105.D 100 =VX023106.D 150 =VX023107.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.377          | 0.433 | 0.456 | 0.488 | 0.492 | 0.472 | 0.453 | 9.51  |
| 3) P   | Chloromethane       | 0.436          | 0.470 | 0.423 | 0.449 | 0.457 | 0.454 | 0.448 | 3.77  |
| 4) C   | Vinyl Chloride      | 0.403          | 0.470 | 0.457 | 0.493 | 0.513 | 0.514 | 0.475 | 8.86# |
| 5) T   | Bromomethane        |                | 0.320 | 0.296 | 0.250 | 0.238 | 0.222 | 0.265 | 15.56 |
| 6) T   | Chloroethane        | 0.301          | 0.358 | 0.299 | 0.323 | 0.335 | 0.247 | 0.310 | 12.25 |
| 7) T   | Trichlorofluor...   | 0.719          | 0.886 | 0.815 | 0.863 | 0.867 | 0.801 | 0.825 | 7.45  |
| 8) T   | Diethyl Ether       | 0.265          | 0.326 | 0.292 | 0.309 | 0.322 | 0.313 | 0.305 | 7.44  |
| 9) T   | 1,1,2-Trichlor...   | 0.434          | 0.521 | 0.460 | 0.492 | 0.504 | 0.487 | 0.483 | 6.48  |
| 10) T  | Methyl Iodide       |                | 0.511 | 0.507 | 0.604 | 0.670 | 0.673 | 0.593 | 13.75 |
| 11) T  | Tert butyl alc...   |                | 0.161 | 0.128 | 0.134 | 0.142 | 0.141 | 0.141 | 8.73  |
| 12) CM | 1,1-Dichloroet...   | 0.390          | 0.467 | 0.419 | 0.461 | 0.472 | 0.466 | 0.446 | 7.54# |
| 13) T  | Acrolein            |                | 0.101 | 0.085 | 0.093 | 0.096 | 0.095 | 0.094 | 6.48  |
| 14) T  | Allyl chloride      | 0.661          | 0.789 | 0.722 | 0.800 | 0.850 | 0.825 | 0.774 | 9.12  |
| 15) T  | Acrylonitrile       | 0.226          | 0.289 | 0.265 | 0.283 | 0.293 | 0.294 | 0.275 | 9.50  |
| 16) T  | Acetone             | 0.293          | 0.274 | 0.245 | 0.256 | 0.267 | 0.260 | 0.266 | 6.24  |
| 17) T  | Carbon Disulfide    | 0.845          | 0.946 | 0.816 | 0.934 | 1.039 | 1.059 | 0.940 | 10.49 |
| 18) T  | Methyl Acetate      | 0.586          | 0.682 | 0.608 | 0.657 | 0.677 | 0.662 | 0.645 | 6.06  |
| 19) T  | Methyl tert-bu...   | 1.391          | 1.712 | 1.575 | 1.716 | 1.808 | 1.800 | 1.667 | 9.53  |
| 20) T  | Methylene Chlo...   | 0.679          | 0.627 | 0.505 | 0.533 | 0.545 | 0.545 | 0.572 | 11.58 |
| 21) T  | trans-1,2-Dich...   | 0.439          | 0.499 | 0.442 | 0.487 | 0.513 | 0.508 | 0.481 | 6.82  |
| 22) T  | Diisopropyl ether   | 1.371          | 1.685 | 1.560 | 1.685 | 1.771 | 1.725 | 1.633 | 8.95  |
| 23) T  | Vinyl Acetate       | 1.097          | 1.382 | 1.325 | 1.467 | 1.530 | 1.491 | 1.382 | 11.48 |
| 24) P  | 1,1-Dichloroet...   | 0.798          | 0.975 | 0.868 | 0.942 | 0.981 | 0.972 | 0.923 | 8.03  |
| 25) T  | 2-Butanone          | 0.336          | 0.420 | 0.386 | 0.411 | 0.428 | 0.424 | 0.401 | 8.72  |
| 26) T  | 2,2-Dichloropr...   | 0.677          | 0.758 | 0.718 | 0.802 | 0.857 | 0.835 | 0.774 | 8.99  |
| 27) T  | cis-1,2-Dichlo...   | 0.517          | 0.601 | 0.547 | 0.592 | 0.622 | 0.619 | 0.583 | 7.22  |
| 28) T  | Bromochloromet...   | 0.418          | 0.454 | 0.411 | 0.434 | 0.450 | 0.460 | 0.438 | 4.56  |
| 29) T  | Tetrahydrofuran     | 0.222          | 0.268 | 0.241 | 0.265 | 0.277 | 0.273 | 0.258 | 8.37  |
| 30) C  | Chloroform          | 0.886          | 1.022 | 0.931 | 1.019 | 1.070 | 1.051 | 0.997 | 7.26# |
| 31) T  | Cyclohexane         |                | 0.853 | 0.727 | 0.798 | 0.835 | 0.810 | 0.805 | 6.04  |
| 32) T  | 1,1,1-Trichlor...   | 0.723          | 0.852 | 0.816 | 0.897 | 0.971 | 0.950 | 0.868 | 10.58 |
| 33) S  | 1,2-Dichloroet...   |                | 0.703 | 0.602 | 0.651 | 0.696 | 0.708 | 0.672 | 6.70  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   |                | 0.341 | 0.284 | 0.308 | 0.337 | 0.345 | 0.323 | 8.18  |
| 36) T  | 1,1-Dichloropr...   | 0.431          | 0.464 | 0.405 | 0.449 | 0.471 | 0.454 | 0.446 | 5.41  |
| 37) T  | Ethyl Acetate       | 0.420          | 0.513 | 0.457 | 0.500 | 0.521 | 0.506 | 0.486 | 8.06  |
| 38) T  | Carbon Tetrach...   | 0.366          | 0.465 | 0.440 | 0.487 | 0.527 | 0.506 | 0.465 | 12.30 |
| 39) T  | Methylcyclohexane   | 0.474          | 0.560 | 0.488 | 0.523 | 0.554 | 0.530 | 0.521 | 6.67  |
| 40) TM | Benzene             | 1.163          | 1.373 | 1.221 | 1.322 | 1.362 | 1.324 | 1.294 | 6.47  |
| 41) T  | Methacrylonitrile   | 0.270          | 0.254 | 0.260 | 0.276 | 0.290 | 0.280 | 0.272 | 4.92  |
| 42) TM | 1,2-Dichloroet...   | 0.437          | 0.557 | 0.504 | 0.543 | 0.553 | 0.525 | 0.520 | 8.66  |
| 43) T  | Isopropyl Acetate   | 0.737          | 0.815 | 0.757 | 0.830 | 0.866 | 0.848 | 0.809 | 6.34  |
| 44) TM | Trichloroethene     | 0.348          | 0.384 | 0.339 | 0.374 | 0.385 | 0.373 | 0.367 | 5.23  |
| 45) C  | 1,2-Dichloropr...   | 0.313          | 0.345 | 0.317 | 0.344 | 0.359 | 0.349 | 0.338 | 5.48# |
| 46) T  | Dibromomethane      | 0.211          | 0.246 | 0.228 | 0.249 | 0.261 | 0.253 | 0.241 | 7.63  |
| 47) T  | Bromodichlorom...   | 0.358          | 0.412 | 0.402 | 0.468 | 0.504 | 0.498 | 0.441 | 13.29 |
| 48) T  | Methyl methacr...   | 0.365          | 0.400 | 0.363 | 0.409 | 0.425 | 0.420 | 0.397 | 6.81  |
| 49) T  | 1,4-Dioxane         | 0.008          | 0.009 | 0.009 | 0.009 | 0.010 | 0.009 | 0.009 | 8.32  |
| 50) S  | Toluene-d8          |                | 1.268 | 1.034 | 1.170 | 1.265 | 1.285 | 1.204 | 8.74  |
| 51) T  | 4-Methyl-2-Pen...   | 0.418          | 0.515 | 0.492 | 0.526 | 0.538 | 0.518 | 0.501 | 8.63  |
| 52) CM | Toluene             | 0.698          | 0.874 | 0.795 | 0.864 | 0.910 | 0.885 | 0.838 | 9.35# |
| 53) T  | t-1,3-Dichloro...   | 0.335          | 0.431 | 0.435 | 0.524 | 0.580 | 0.580 | 0.481 | 20.22 |
| 54) T  | cis-1,3-Dichlo...   | 0.370          | 0.464 | 0.473 | 0.558 | 0.600 | 0.598 | 0.510 | 17.80 |
| 55) T  | 1,1,2-Trichlor...   | 0.292          | 0.363 | 0.329 | 0.364 | 0.382 | 0.380 | 0.352 | 9.95  |
| 56) T  | Ethyl methacry...   | 0.430          | 0.527 | 0.506 | 0.567 | 0.617 | 0.615 | 0.543 | 13.18 |

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|     |   |                   |       |       |       |       |       |       |       |       |
|-----|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T | 1,3-Dichloropr... | 0.523 | 0.590 | 0.546 | 0.596 | 0.621 | 0.612 | 0.581 | 6.64  |
| 58) | T | 2-Chloroethyl ... | 0.172 | 0.263 | 0.261 | 0.297 | 0.303 | 0.298 | 0.266 | 18.61 |
| 59) | T | 2-Hexanone        | 0.315 | 0.392 | 0.373 | 0.407 | 0.418 | 0.401 | 0.385 | 9.68  |
| 60) | T | Dibromochlorom... | 0.254 | 0.288 | 0.299 | 0.365 | 0.409 | 0.412 | 0.338 | 19.85 |
| 61) | T | 1,2-Dibromoethane | 0.272 | 0.360 | 0.342 | 0.386 | 0.405 | 0.401 | 0.361 | 13.91 |
| 62) | S | 4-Bromofluorob... | 0.448 | 0.388 | 0.457 | 0.506 | 0.525 | 0.465 |       | 11.56 |

|     |    |                   |                |       |       |       |       |       |       |       |
|-----|----|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 63) | I  | Chlorobenzene-d5  | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene | 0.368          | 0.437 | 0.379 | 0.401 | 0.419 | 0.390 | 0.399 | 6.47  |
| 65) | PM | Chlorobenzene     | 0.897          | 1.040 | 0.916 | 1.001 | 1.050 | 1.027 | 0.988 | 6.65  |
| 66) | T  | 1,1,1,2-Tetrac... | 0.266          | 0.356 | 0.335 | 0.379 | 0.406 | 0.401 | 0.357 | 14.59 |
| 67) | C  | Ethyl Benzene     | 1.534          | 1.816 | 1.629 | 1.799 | 1.885 | 1.820 | 1.747 | 7.72# |
| 68) | T  | m/p-Xylenes       | 0.547          | 0.693 | 0.623 | 0.692 | 0.736 | 0.711 | 0.667 | 10.48 |
| 69) | T  | o-Xylene          | 0.582          | 0.688 | 0.620 | 0.692 | 0.732 | 0.720 | 0.672 | 8.79  |
| 70) | T  | Styrene           | 0.826          | 1.101 | 1.013 | 1.165 | 1.255 | 1.229 | 1.098 | 14.55 |
| 71) | P  | Bromoform         | 0.171          | 0.208 | 0.217 | 0.273 | 0.316 | 0.326 | 0.252 | 25.02 |

|     |   |                       |                |       |       |       |       |       |       |       |
|-----|---|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 72) | I | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T | Isopropylbenzene      | 3.037          | 3.819 | 3.394 | 3.619 | 3.706 | 3.559 | 3.522 | 7.87  |
| 74) | T | N-amyl acetate        | 1.293          | 1.503 | 1.434 | 1.543 | 1.610 | 1.585 | 1.495 | 7.81  |
| 75) | P | 1,1,2,2-Tetrac...     | 1.044          | 1.209 | 1.070 | 1.109 | 1.145 | 1.138 | 1.119 | 5.25  |
| 76) | T | 1,2,3-Trichlor...     | 0.802          | 1.129 | 1.001 | 1.044 | 1.056 | 1.003 | 1.006 | 10.95 |
| 77) | T | Bromobenzene          | 0.769          | 0.950 | 0.834 | 0.888 | 0.928 | 0.908 | 0.879 | 7.62  |
| 78) | T | n-propylbenzene       | 3.573          | 4.270 | 3.923 | 4.214 | 4.322 | 4.137 | 4.073 | 6.92  |
| 79) | T | 2-Chlorotoluene       | 2.308          | 2.710 | 2.392 | 2.555 | 2.602 | 2.536 | 2.517 | 5.77  |
| 80) | T | 1,3,5-Trimethy...     | 2.614          | 3.180 | 2.921 | 3.147 | 3.217 | 3.118 | 3.033 | 7.57  |
| 81) | T | trans-1,4-Dich...     | 0.257          | 0.273 | 0.344 | 0.378 | 0.389 | 0.328 |       | 18.40 |
| 82) | T | 4-Chlorotoluene       | 2.376          | 2.984 | 2.725 | 2.963 | 3.054 | 2.954 | 2.843 | 8.94  |
| 83) | T | tert-Butylbenzene     | 2.402          | 3.028 | 2.787 | 2.991 | 3.068 | 2.997 | 2.879 | 8.79  |
| 84) | T | 1,2,4-Trimethy...     | 2.428          | 3.171 | 2.888 | 3.148 | 3.232 | 3.115 | 2.997 | 10.09 |
| 85) | T | sec-Butylbenzene      | 3.057          | 3.914 | 3.545 | 3.877 | 4.003 | 3.828 | 3.704 | 9.53  |
| 86) | T | p-Isopropyltol...     | 2.531          | 3.174 | 2.988 | 3.267 | 3.393 | 3.290 | 3.107 | 10.08 |
| 87) | T | 1,3-Dichlorobe...     | 1.419          | 1.763 | 1.567 | 1.692 | 1.756 | 1.712 | 1.651 | 8.12  |
| 88) | T | 1,4-Dichlorobe...     | 1.508          | 1.738 | 1.551 | 1.685 | 1.777 | 1.718 | 1.663 | 6.53  |
| 89) | T | n-Butylbenzene        | 2.267          | 2.668 | 2.529 | 2.883 | 3.029 | 2.955 | 2.722 | 10.66 |
| 90) | T | Hexachloroethane      | 0.299          | 0.420 | 0.409 | 0.491 | 0.555 | 0.556 | 0.455 | 21.80 |
| 91) | T | 1,2-Dichlorobe...     | 1.453          | 1.758 | 1.566 | 1.677 | 1.724 | 1.679 | 1.643 | 6.90  |
| 92) | T | 1,2-Dibromo-3-...     | 0.160          | 0.219 | 0.223 | 0.259 | 0.283 | 0.286 | 0.238 | 20.19 |
| 93) | T | 1,2,4-Trichlor...     | 0.824          | 0.989 | 0.942 | 1.040 | 1.139 | 1.137 | 1.012 | 11.97 |
| 94) | T | Hexachlorobuta...     | 0.378          | 0.453 | 0.388 | 0.433 | 0.464 | 0.455 | 0.428 | 8.53  |
| 95) | T | Naphthalene           | 2.343          | 3.298 | 3.258 | 3.657 | 3.862 | 3.776 | 3.366 | 16.61 |
| 96) | T | 1,2,3-Trichlor...     | 0.772          | 1.023 | 0.959 | 1.067 | 1.145 | 1.141 | 1.018 | 13.75 |

(#) = Out of Range