

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y010623S.M  
 Title : SW846 8260  
 Last Update : Sat Jan 07 01:46:48 2023  
 Response Via : Initial Calibration

## Calibration Files

5 =VY012084.D 10 =VY012085.D 20 =VY012086.D 50 =VY012087.D 100 =VY012088.D 150 =VY012089.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.523          | 0.514 | 0.496 | 0.394 | 0.381 | 0.377 | 0.448 | 15.72  |
| 3) P   | Chloromethane       | 0.488          | 0.480 | 0.452 | 0.352 | 0.341 | 0.353 | 0.411 | 16.95  |
| 4) C   | Vinyl Chloride      | 0.570          | 0.552 | 0.523 | 0.431 | 0.420 | 0.420 | 0.486 | 14.43# |
| 5) T   | Bromomethane        | 0.490          | 0.438 | 0.387 | 0.313 | 0.301 | 0.302 | 0.372 | 21.44  |
| 6) T   | Chloroethane        | 0.358          | 0.360 | 0.354 | 0.286 | 0.284 | 0.290 | 0.322 | 12.06  |
| 7) T   | Trichlorofluor...   | 1.055          | 1.084 | 1.037 | 0.897 | 0.862 | 0.874 | 0.968 | 10.45  |
| 8) T   | Diethyl Ether       | 0.300          | 0.322 | 0.317 | 0.277 | 0.281 | 0.281 | 0.296 | 6.70   |
| 9) T   | 1,1,2-Trichlor...   | 0.531          | 0.537 | 0.522 | 0.474 | 0.462 | 0.464 | 0.498 | 7.07   |
| 10) T  | Methyl Iodide       | 0.679          | 0.720 | 0.729 | 0.646 | 0.640 | 0.640 | 0.676 | 6.02   |
| 11) T  | Tert butyl alc...   | 0.122          | 0.111 | 0.083 | 0.061 | 0.064 | 0.059 | 0.083 | 32.87  |
| 12) CM | 1,1-Dichloroet...   | 0.548          | 0.524 | 0.522 | 0.450 | 0.440 | 0.447 | 0.489 | 9.83#  |
| 13) T  | Acrolein            | 0.046          | 0.047 | 0.045 | 0.026 | 0.027 | 0.026 | 0.036 | 29.86  |
| 14) T  | Allyl chloride      | 0.693          | 0.701 | 0.697 | 0.617 | 0.614 | 0.631 | 0.659 | 6.38   |
| 15) T  | Acrylonitrile       | 0.128          | 0.152 | 0.148 | 0.132 | 0.140 | 0.135 | 0.139 | 6.67   |
| 16) T  | Acetone             | 0.134          | 0.147 | 0.133 | 0.123 | 0.135 | 0.121 | 0.132 | 7.12   |
| 17) T  | Carbon Disulfide    | 1.642          | 1.678 | 1.603 | 1.127 | 1.102 | 1.114 | 1.378 | 21.01  |
| 18) T  | Methyl Acetate      | 0.430          | 0.406 | 0.393 | 0.340 | 0.362 | 0.350 | 0.380 | 9.27   |
| 19) T  | Methyl tert-bu...   | 1.359          | 1.531 | 1.498 | 1.407 | 1.422 | 1.413 | 1.438 | 4.42   |
| 20) T  | Methylene Chlo...   | 0.988          | 0.862 | 0.677 | 0.562 | 0.526 | 0.514 | 0.688 | 28.54  |
| 21) T  | trans-1,2-Dich...   | 0.598          | 0.597 | 0.573 | 0.502 | 0.487 | 0.488 | 0.541 | 10.01  |
| 22) T  | Diisopropyl ether   | 1.317          | 1.437 | 1.441 | 1.328 | 1.294 | 1.314 | 1.355 | 4.86   |
| 23) T  | Vinyl Acetate       | 0.710          | 0.886 | 0.873 | 0.808 | 0.821 | 0.822 | 0.820 | 7.60   |
| 24) P  | 1,1-Dichloroet...   | 0.957          | 0.974 | 0.931 | 0.862 | 0.839 | 0.846 | 0.901 | 6.63   |
| 25) T  | 2-Butanone          | 0.172          | 0.195 | 0.180 | 0.162 | 0.175 | 0.162 | 0.174 | 7.15   |
| 26) T  | 2,2-Dichloropr...   | 1.108          | 1.068 | 0.964 | 0.921 | 0.887 | 0.887 | 0.972 | 9.73   |
| 27) T  | cis-1,2-Dichlo...   | 0.640          | 0.663 | 0.652 | 0.601 | 0.573 | 0.577 | 0.618 | 6.32   |
| 28) T  | Bromochloromet...   | 0.270          | 0.244 | 0.226 | 0.211 | 0.208 | 0.208 | 0.228 | 10.88  |
| 29) T  | Tetrahydrofuran     | 0.089          | 0.111 | 0.109 | 0.097 | 0.104 | 0.100 | 0.102 | 8.08   |
| 30) C  | Chloroform          | 1.061          | 1.111 | 1.058 | 0.999 | 0.968 | 0.968 | 1.028 | 5.65#  |
| 31) T  | Cyclohexane         | 1.008          | 0.927 | 0.854 | 0.708 | 0.667 | 0.683 | 0.808 | 17.65  |
| 32) T  | 1,1,1-Trichlor...   | 1.033          | 1.062 | 1.040 | 0.971 | 0.938 | 0.944 | 0.998 | 5.36   |
| 33) S  | 1,2-Dichloroet...   | 0.606          | 0.624 | 0.616 | 0.520 | 0.511 | 0.495 | 0.562 | 10.52  |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.358          | 0.347 | 0.345 | 0.320 | 0.303 | 0.299 | 0.329 | 7.56   |
| 36) T  | 1,1-Dichloropr...   | 0.566          | 0.533 | 0.521 | 0.468 | 0.453 | 0.451 | 0.499 | 9.60   |
| 37) T  | Ethyl Acetate       | 0.302          | 0.305 | 0.282 | 0.237 | 0.245 | 0.230 | 0.267 | 12.50  |
| 38) T  | Carbon Tetrach...   | 0.658          | 0.683 | 0.661 | 0.618 | 0.593 | 0.583 | 0.633 | 6.43   |
| 39) T  | Methylcyclohexane   | 0.607          | 0.643 | 0.650 | 0.570 | 0.553 | 0.551 | 0.596 | 7.43   |
| 40) TM | Benzene             | 1.578          | 1.567 | 1.517 | 1.389 | 1.335 | 1.332 | 1.453 | 7.87   |
| 41) T  | Methacrylonitrile   | 0.123          | 0.156 | 0.153 | 0.151 | 0.158 | 0.131 | 0.145 | 10.17  |
| 42) TM | 1,2-Dichloroet...   | 0.452          | 0.499 | 0.485 | 0.452 | 0.441 | 0.431 | 0.460 | 5.76   |
| 43) T  | Isopropyl Acetate   | 0.403          | 0.465 | 0.475 | 0.440 | 0.457 | 0.444 | 0.447 | 5.70   |
| 44) TM | Trichloroethene     | 0.448          | 0.448 | 0.450 | 0.408 | 0.399 | 0.392 | 0.424 | 6.48   |
| 45) C  | 1,2-Dichloropr...   | 0.330          | 0.351 | 0.330 | 0.316 | 0.307 | 0.308 | 0.324 | 5.22#  |
| 46) T  | Dibromomethane      | 0.199          | 0.220 | 0.215 | 0.201 | 0.195 | 0.192 | 0.204 | 5.54   |
| 47) T  | Bromodichlorom...   | 0.493          | 0.553 | 0.538 | 0.514 | 0.504 | 0.506 | 0.518 | 4.37   |
| 48) T  | Methyl methacr...   | 0.160          | 0.216 | 0.216 | 0.199 | 0.210 | 0.201 | 0.200 | 10.53  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 9.14   |
| 50) S  | Toluene-d8          | 1.447          | 1.408 | 1.432 | 1.209 | 1.156 | 1.132 | 1.297 | 11.32  |
| 51) T  | 4-Methyl-2-Pen...   | 0.198          | 0.255 | 0.254 | 0.237 | 0.250 | 0.234 | 0.238 | 9.00   |
| 52) CM | Toluene             | 1.034          | 1.034 | 1.005 | 0.918 | 0.890 | 0.889 | 0.962 | 7.30#  |
| 53) T  | t-1,3-Dichloro...   | 0.515          | 0.568 | 0.566 | 0.532 | 0.531 | 0.522 | 0.539 | 4.19   |
| 54) T  | cis-1,3-Dichlo...   | 0.563          | 0.615 | 0.613 | 0.578 | 0.566 | 0.564 | 0.583 | 4.22   |
| 55) T  | 1,1,2-Trichlor...   | 0.276          | 0.318 | 0.308 | 0.297 | 0.289 | 0.278 | 0.294 | 5.62   |
| 56) T  | Ethyl methacry...   | 0.324          | 0.395 | 0.407 | 0.394 | 0.405 | 0.389 | 0.386 | 8.01   |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.456          | 0.523 | 0.513 | 0.483 | 0.478 | 0.462 | 0.486 | 5.57  |
| 58) | T  | 2-Chloroethyl ...     | 0.134          | 0.148 | 0.150 | 0.136 | 0.141 | 0.136 | 0.141 | 4.66  |
| 59) | T  | 2-Hexanone            | 0.133          | 0.173 | 0.179 | 0.170 | 0.182 | 0.167 | 0.167 | 10.69 |
| 60) | T  | Dibromochlorom...     | 0.371          | 0.414 | 0.399 | 0.387 | 0.384 | 0.373 | 0.388 | 4.19  |
| 61) | T  | 1,2-Dibromoethane     | 0.280          | 0.301 | 0.296 | 0.272 | 0.276 | 0.265 | 0.282 | 5.00  |
| 62) | S  | 4-Bromofluorob...     | 0.487          | 0.489 | 0.485 | 0.434 | 0.420 | 0.406 | 0.453 | 8.31  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.543          | 0.529 | 0.516 | 0.469 | 0.448 | 0.434 | 0.490 | 9.26  |
| 65) | PM | Chlorobenzene         | 1.218          | 1.187 | 1.186 | 1.105 | 1.079 | 1.077 | 1.142 | 5.45  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.441          | 0.469 | 0.454 | 0.436 | 0.423 | 0.423 | 0.441 | 4.04  |
| 67) | C  | Ethyl Benzene         | 2.161          | 2.102 | 2.103 | 1.997 | 1.936 | 1.947 | 2.041 | 4.59# |
| 68) | T  | m/p-Xylenes           | 0.829          | 0.851 | 0.828 | 0.776 | 0.763 | 0.755 | 0.801 | 5.06  |
| 69) | T  | o-Xylene              | 0.771          | 0.798 | 0.792 | 0.747 | 0.731 | 0.734 | 0.762 | 3.83  |
| 70) | T  | Styrene               | 1.301          | 1.344 | 1.348 | 1.283 | 1.247 | 1.246 | 1.295 | 3.46  |
| 71) | P  | Bromoform             | 0.258          | 0.302 | 0.293 | 0.279 | 0.278 | 0.271 | 0.280 | 5.50  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 4.108          | 4.004 | 4.016 | 3.941 | 3.794 | 3.876 | 3.956 | 2.81  |
| 74) | T  | N-amyl acetate        | 0.686          | 0.806 | 0.841 | 0.830 | 0.865 | 0.872 | 0.817 | 8.35  |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.640          | 0.713 | 0.683 | 0.653 | 0.652 | 0.652 | 0.666 | 4.10  |
| 76) | T  | 1,2,3-Trichlor...     | 0.658          | 0.587 | 0.581 | 0.523 | 0.538 | 0.539 | 0.571 | 8.70  |
| 77) | T  | Bromobenzene          | 0.995          | 0.981 | 0.959 | 0.920 | 0.896 | 0.912 | 0.944 | 4.25  |
| 78) | T  | n-propylbenzene       | 4.829          | 4.732 | 4.717 | 4.557 | 4.381 | 4.495 | 4.619 | 3.65  |
| 79) | T  | 2-Chlorotoluene       | 2.838          | 2.687 | 2.699 | 2.573 | 2.487 | 2.568 | 2.642 | 4.72  |
| 80) | T  | 1,3,5-Trimethy...     | 3.521          | 3.513 | 3.479 | 3.355 | 3.230 | 3.263 | 3.393 | 3.80  |
| 81) | T  | trans-1,4-Dich...     | 0.247          | 0.266 | 0.265 | 0.255 | 0.255 | 0.255 | 0.257 | 2.89  |
| 82) | T  | 4-Chlorotoluene       | 2.922          | 2.855 | 2.819 | 2.699 | 2.613 | 2.671 | 2.763 | 4.34  |
| 83) | T  | tert-Butylbenzene     | 3.174          | 2.961 | 2.973 | 2.988 | 2.840 | 2.904 | 2.973 | 3.78  |
| 84) | T  | 1,2,4-Trimethy...     | 3.432          | 3.455 | 3.472 | 3.326 | 3.227 | 3.244 | 3.359 | 3.23  |
| 85) | T  | sec-Butylbenzene      | 4.507          | 4.346 | 4.316 | 4.280 | 4.059 | 4.133 | 4.273 | 3.74  |
| 86) | T  | p-Isopropyltol...     | 3.851          | 3.781 | 3.776 | 3.693 | 3.517 | 3.596 | 3.702 | 3.39  |
| 87) | T  | 1,3-Dichlorobe...     | 2.107          | 1.934 | 1.909 | 1.842 | 1.773 | 1.784 | 1.892 | 6.55  |
| 88) | T  | 1,4-Dichlorobe...     | 2.127          | 1.969 | 1.890 | 1.822 | 1.753 | 1.776 | 1.890 | 7.45  |
| 89) | T  | n-Butylbenzene        | 3.319          | 3.219 | 3.252 | 3.222 | 3.100 | 3.138 | 3.208 | 2.46  |
| 90) | T  | Hexachloroethane      | 0.767          | 0.697 | 0.675 | 0.678 | 0.646 | 0.658 | 0.687 | 6.28  |
| 91) | T  | 1,2-Dichlorobe...     | 1.804          | 1.742 | 1.702 | 1.640 | 1.605 | 1.618 | 1.685 | 4.64  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.124          | 0.147 | 0.131 | 0.127 | 0.135 | 0.130 | 0.132 | 6.17  |
| 93) | T  | 1,2,4-Trichlor...     | 1.091          | 1.054 | 1.039 | 1.020 | 1.042 | 1.057 | 1.051 | 2.27  |
| 94) | T  | Hexachlorobuta...     | 0.678          | 0.665 | 0.636 | 0.623 | 0.595 | 0.606 | 0.634 | 5.13  |
| 95) | T  | Naphthalene           | 1.964          | 2.025 | 2.027 | 2.053 | 2.207 | 2.199 | 2.079 | 4.82  |
| 96) | T  | 1,2,3-Trichlor...     | 0.950          | 0.913 | 0.896 | 0.882 | 0.912 | 0.929 | 0.913 | 2.63  |

(#) = Out of Range