

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\  
 Method File : 82Y081522S.M  
 Title : SW846 8260  
 Last Update : Tue Aug 16 07:01:08 2022  
 Response Via : Initial Calibration

## Calibration Files

5 =VY010029.D 10 =VY010030.D 20 =VY010031.D 50 =VY010032.D 150 =VY010034.D

|        | Compound            | 5              | 10    | 20    | 50    | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|--------|
| -----  |                     |                |       |       |       |       |       |        |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.542          | 0.406 | 0.403 | 0.370 | 0.325 | 0.409 | 19.75  |
| 3) P   | Chloromethane       | 0.732          | 0.571 | 0.531 | 0.548 | 0.422 | 0.561 | 19.86  |
| 4) C   | Vinyl Chloride      | 0.865          | 0.712 | 0.674 | 0.700 | 0.604 | 0.711 | 13.44# |
| 5) T   | Bromomethane        | 0.705          | 0.568 | 0.571 | 0.524 | 0.535 | 0.580 | 12.50  |
| 6) T   | Chloroethane        | 0.591          | 0.482 | 0.473 | 0.463 | 0.440 | 0.490 | 11.96  |
| 7) T   | Trichlorofluor...   | 1.008          | 0.844 | 0.833 | 0.798 | 0.741 | 0.845 | 11.77  |
| 8) T   | Diethyl Ether       | 0.249          | 0.231 | 0.227 | 0.223 | 0.253 | 0.237 | 5.78   |
| 9) T   | 1,1,2-Trichlor...   | 0.510          | 0.442 | 0.426 | 0.425 | 0.437 | 0.448 | 7.88   |
| 10) T  | Methyl Iodide       | 0.500          | 0.457 | 0.507 | 0.583 | 0.605 | 0.530 | 11.63  |
| 11) T  | Tert butyl alc...   | 0.057          | 0.049 | 0.052 | 0.038 | 0.048 | 0.049 | 14.07  |
| 12) CM | 1,1-Dichloroet...   | 0.453          | 0.386 | 0.387 | 0.396 | 0.428 | 0.410 | 7.21#  |
| 13) T  | Acrolein            | 0.031          | 0.035 | 0.036 | 0.028 | 0.037 | 0.033 | 12.05  |
| 14) T  | Allyl chloride      | 0.629          | 0.557 | 0.533 | 0.578 | 0.717 | 0.603 | 12.16  |
| 15) T  | Acrylonitrile       | 0.113          | 0.102 | 0.104 | 0.104 | 0.135 | 0.112 | 12.37  |
| 16) T  | Acetone             | 0.138          | 0.097 | 0.096 | 0.101 | 0.103 | 0.107 | 16.24  |
| 17) T  | Carbon Disulfide    | 1.410          | 1.045 | 0.996 | 1.168 | 1.253 | 1.174 | 14.15  |
| 18) T  | Methyl Acetate      | 0.310          | 0.276 | 0.270 | 0.263 | 0.339 | 0.292 | 11.07  |
| 19) T  | Methyl tert-bu...   | 1.191          | 1.013 | 1.050 | 1.087 | 1.292 | 1.126 | 10.10  |
| 20) T  | Methylene Chlo...   | 1.050          | 0.608 | 0.523 | 0.476 | 0.475 | 0.626 | 38.74  |
| 21) T  | trans-1,2-Dich...   | 0.529          | 0.442 | 0.423 | 0.463 | 0.500 | 0.472 | 9.13   |
| 22) T  | Diisopropyl ether   | 1.127          | 1.221 | 1.264 | 1.301 | 1.013 | 1.185 | 9.80   |
| 23) T  | Vinyl Acetate       | 0.702          | 0.723 | 0.765 | 0.846 | 0.704 | 0.748 | 8.07   |
| 24) P  | 1,1-Dichloroet...   | 0.859          | 0.784 | 0.741 | 0.762 | 0.618 | 0.753 | 11.64  |
| 25) T  | 2-Butanone          | 0.164          | 0.148 | 0.147 | 0.152 | 0.121 | 0.146 | 10.64  |
| 26) T  | 2,2-Dichloropr...   | 0.992          | 0.783 | 0.772 | 0.767 | 0.640 | 0.791 | 16.02  |
| 27) T  | cis-1,2-Dichlo...   | 0.603          | 0.507 | 0.504 | 0.518 | 0.460 | 0.519 | 10.06  |
| 28) T  | Bromochloromet...   | 0.310          | 0.298 | 0.298 | 0.315 | 0.345 | 0.313 | 6.23   |
| 29) T  | Tetrahydrofuran     | 0.081          | 0.088 | 0.089 | 0.094 | 0.123 | 0.095 | 17.23  |
| 30) C  | Chloroform          | 1.106          | 0.884 | 0.853 | 0.854 | 0.906 | 0.920 | 11.51# |
| 31) T  | Cyclohexane         | 0.834          | 0.622 | 0.623 | 0.671 | 0.782 | 0.706 | 13.70  |
| 32) T  | 1,1,1-Trichlor...   | 0.910          | 0.795 | 0.803 | 0.824 | 0.840 | 0.834 | 5.48   |
| 33) S  | 1,2-Dichloroet...   | 0.577          | 0.482 | 0.482 | 0.473 | 0.486 | 0.500 | 8.64   |
|        |                     |                |       |       |       |       |       |        |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.356          | 0.319 | 0.311 | 0.321 | 0.314 | 0.324 | 5.56   |
| 36) T  | 1,1-Dichloropr...   | 0.502          | 0.394 | 0.421 | 0.466 | 0.477 | 0.452 | 9.69   |
| 37) T  | Ethyl Acetate       | 0.232          | 0.241 | 0.239 | 0.244 | 0.182 | 0.227 | 11.30  |
| 38) T  | Carbon Tetrach...   | 0.631          | 0.528 | 0.528 | 0.562 | 0.528 | 0.556 | 8.07   |
| 39) T  | Methylcyclohexane   | 0.537          | 0.430 | 0.452 | 0.545 | 0.581 | 0.509 | 12.70  |
| 40) TM | Benzene             | 1.522          | 1.171 | 1.233 | 1.322 | 1.359 | 1.321 | 10.17  |
| 41) T  | Methacrylonitrile   | 0.104          | 0.106 | 0.133 | 0.110 | 0.135 | 0.117 | 12.82  |
| 42) TM | 1,2-Dichloroet...   | 0.468          | 0.375 | 0.398 | 0.409 | 0.409 | 0.412 | 8.42   |
| 43) T  | Isopropyl Acetate   | 0.416          | 0.340 | 0.415 | 0.450 | 0.538 | 0.432 | 16.60  |
| 44) TM | Trichloroethene     | 0.452          | 0.384 | 0.373 | 0.401 | 0.387 | 0.399 | 7.80   |
| 45) C  | 1,2-Dichloropr...   | 0.349          | 0.269 | 0.298 | 0.309 | 0.337 | 0.312 | 10.18# |
| 46) T  | Dibromomethane      | 0.216          | 0.189 | 0.193 | 0.199 | 0.205 | 0.200 | 5.35   |
| 47) T  | Bromodichlorom...   | 0.527          | 0.451 | 0.466 | 0.484 | 0.485 | 0.483 | 5.95   |
| 48) T  | Methyl methacr...   | 0.176          | 0.148 | 0.174 | 0.201 | 0.241 | 0.188 | 18.68  |
| 49) T  | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.003 | 0.002 | 14.34  |
| 50) S  | Toluene-d8          | 1.278          | 1.174 | 1.098 | 1.243 | 1.205 | 1.200 | 5.76   |
| 51) T  | 4-Methyl-2-Pen...   | 0.234          | 0.188 | 0.224 | 0.252 | 0.293 | 0.238 | 16.13  |
| 52) CM | Toluene             | 0.912          | 0.775 | 0.763 | 0.919 | 0.888 | 0.852 | 8.97#  |
| 53) T  | t-1,3-Dichloro...   | 0.500          | 0.412 | 0.425 | 0.477 | 0.510 | 0.465 | 9.54   |
| 54) T  | cis-1,3-Dichlo...   | 0.519          | 0.458 | 0.480 | 0.524 | 0.562 | 0.508 | 7.95   |
| 55) T  | 1,1,2-Trichlor...   | 0.310          | 0.263 | 0.253 | 0.276 | 0.280 | 0.276 | 7.84   |
| 56) T  | Ethyl methacry...   | 0.298          | 0.261 | 0.289 | 0.349 | 0.401 | 0.319 | 17.41  |

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|                |    |                       |       |       |       |       |       |       |        |
|----------------|----|-----------------------|-------|-------|-------|-------|-------|-------|--------|
| 57)            | T  | 1,3-Dichloropr...     | 0.487 | 0.409 | 0.394 | 0.446 | 0.476 | 0.442 | 9.18   |
| 58)            | T  | 2-Chloroethyl ...     | 0.116 | 0.133 | 0.153 | 0.131 | 0.157 | 0.138 | 12.37  |
| 59)            | T  | 2-Hexanone            | 0.155 | 0.117 | 0.125 | 0.179 | 0.201 | 0.155 | 22.94  |
| 60)            | T  | Dibromochlorom...     | 0.395 | 0.355 | 0.354 | 0.362 | 0.363 | 0.366 | 4.61   |
| 61)            | T  | 1,2-Dibromoethane     | 0.292 | 0.250 | 0.254 | 0.271 | 0.280 | 0.269 | 6.52   |
| 62)            | S  | 4-Bromofluorob...     | 0.449 | 0.391 | 0.393 | 0.448 | 0.426 | 0.421 | 6.73   |
| -----ISTD----- |    |                       |       |       |       |       |       |       |        |
| 63)            | I  | Chlorobenzene-d5      |       |       |       |       |       |       |        |
| 64)            | T  | Tetrachloroethene     | 0.498 | 0.409 | 0.394 | 0.428 | 0.404 | 0.427 | 9.79   |
| 65)            | PM | Chlorobenzene         | 1.156 | 1.013 | 0.970 | 1.051 | 1.020 | 1.042 | 6.72   |
| 66)            | T  | 1,1,1,2-Tetrac...     | 0.471 | 0.379 | 0.395 | 0.417 | 0.403 | 0.413 | 8.53   |
| 67)            | C  | Ethyl Benzene         | 1.859 | 1.484 | 1.597 | 1.892 | 1.905 | 1.747 | 11.09# |
| 68)            | T  | m/p-Xylenes           | 0.713 | 0.603 | 0.653 | 0.761 | 0.741 | 0.694 | 9.42   |
| 69)            | T  | o-Xylene              | 0.684 | 0.572 | 0.574 | 0.709 | 0.704 | 0.649 | 10.77  |
| 70)            | T  | Styrene               | 1.105 | 0.954 | 0.985 | 1.222 | 1.205 | 1.094 | 11.20  |
| 71)            | P  | Bromoform             | 0.287 | 0.244 | 0.240 | 0.263 | 0.260 | 0.259 | 7.28   |
| -----ISTD----- |    |                       |       |       |       |       |       |       |        |
| 72)            | I  | 1,4-Dichlorobenzen... |       |       |       |       |       |       |        |
| 73)            | T  | Isopropylbenzene      | 3.240 | 2.768 | 2.952 | 3.213 | 3.453 | 3.125 | 8.56   |
| 74)            | T  | N-amyl acetate        | 0.704 | 0.555 | 0.590 | 0.863 | 0.950 | 0.732 | 23.32  |
| 75)            | P  | 1,1,2,2-Tetrac...     | 0.711 | 0.592 | 0.557 | 0.600 | 0.646 | 0.621 | 9.55   |
| 76)            | T  | 1,2,3-Trichlor...     | 0.635 | 0.420 | 0.416 | 0.435 | 0.463 | 0.474 | 19.36  |
| 77)            | T  | Bromobenzene          | 0.924 | 0.818 | 0.794 | 0.789 | 0.827 | 0.830 | 6.57   |
| 78)            | T  | n-propylbenzene       | 3.889 | 3.532 | 3.785 | 3.940 | 4.118 | 3.853 | 5.61   |
| 79)            | T  | 2-Chlorotoluene       | 2.293 | 2.034 | 2.074 | 2.184 | 2.309 | 2.179 | 5.72   |
| 80)            | T  | 1,3,5-Trimethy...     | 2.748 | 2.592 | 2.576 | 2.790 | 2.906 | 2.723 | 5.12   |
| 81)            | T  | trans-1,4-Dich...     | 0.219 | 0.190 | 0.178 | 0.221 | 0.241 | 0.210 | 12.12  |
| 82)            | T  | 4-Chlorotoluene       | 2.399 | 2.172 | 2.120 | 2.315 | 2.390 | 2.279 | 5.58   |
| 83)            | T  | tert-Butylbenzene     | 2.481 | 2.205 | 2.272 | 2.451 | 2.552 | 2.392 | 6.14   |
| 84)            | T  | 1,2,4-Trimethy...     | 2.595 | 2.480 | 2.591 | 2.805 | 2.894 | 2.673 | 6.38   |
| 85)            | T  | sec-Butylbenzene      | 3.614 | 3.249 | 3.247 | 3.643 | 3.718 | 3.494 | 6.53   |
| 86)            | T  | p-Isopropyltol...     | 2.960 | 2.797 | 2.832 | 3.137 | 3.247 | 2.995 | 6.49   |
| 87)            | T  | 1,3-Dichlorobe...     | 1.880 | 1.628 | 1.636 | 1.649 | 1.660 | 1.691 | 6.32   |
| 88)            | T  | 1,4-Dichlorobe...     | 1.964 | 1.652 | 1.675 | 1.623 | 1.619 | 1.707 | 8.54   |
| 89)            | T  | n-Butylbenzene        | 2.698 | 2.441 | 2.472 | 2.823 | 2.907 | 2.668 | 7.78   |
| 90)            | T  | Hexachloroethane      | 0.698 | 0.587 | 0.572 | 0.581 | 0.596 | 0.607 | 8.54   |
| 91)            | T  | 1,2-Dichlorobe...     | 1.687 | 1.469 | 1.466 | 1.443 | 1.453 | 1.504 | 6.85   |
| 92)            | T  | 1,2-Dibromo-3-...     | 0.123 | 0.102 | 0.097 | 0.100 | 0.113 | 0.107 | 10.17  |
| 93)            | T  | 1,2,4-Trichlor...     | 0.949 | 0.846 | 0.854 | 0.887 | 0.955 | 0.898 | 5.70   |
| 94)            | T  | Hexachlorobuta...     | 0.678 | 0.567 | 0.560 | 0.535 | 0.534 | 0.575 | 10.38  |
| 95)            | T  | Naphthalene           | 1.479 | 1.383 | 1.463 | 1.652 | 1.975 | 1.590 | 14.85  |
| 96)            | T  | 1,2,3-Trichlor...     | 0.877 | 0.759 | 0.747 | 0.738 | 0.832 | 0.791 | 7.71   |

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 (#) = Out of Range