

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\  
 Method File : 82N070620W.M  
 Title : SW846 8260  
 Last Update : Tue Jul 07 05:08:51 2020  
 Response Via : Initial Calibration

## Calibration Files

1 =VN062362.D 5 =VN062363.D 20 =VN062364.D  
 50 =VN062365.D 100 =VN062366.D 150 =VN062367.D

|        | Compound            | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluorom   | 0.678          | 0.547 | 0.562 | 0.557 | 0.518 | 0.533 | 0.566 | 10.09  |
| 3) P   | Chloromethane       | 1.032          | 0.865 | 0.842 | 0.789 | 0.749 | 0.767 | 0.841 | 12.35  |
| 4) C   | Vinyl Chloride      | 0.910          | 0.726 | 0.714 | 0.681 | 0.638 | 0.638 | 0.718 | 14.09# |
| 5) T   | Bromomethane        |                | 0.378 | 0.412 | 0.368 | 0.360 | 0.342 | 0.372 | 7.00   |
| 6) T   | Chloroethane        | 0.481          | 0.467 | 0.405 | 0.396 | 0.375 | 0.379 | 0.417 | 10.94  |
| 7) T   | Trichlorofluorome   | 1.118          | 1.085 | 1.030 | 0.974 | 0.876 | 0.861 | 0.991 | 10.76  |
| 8) T   | Diethyl Ether       | 0.481          | 0.375 | 0.374 | 0.365 | 0.348 | 0.353 | 0.383 | 12.83  |
| 9) T   | 1,1,2-Trichlorotr   | 0.710          | 0.562 | 0.546 | 0.519 | 0.490 | 0.494 | 0.554 | 14.72  |
| 10) T  | Methyl Iodide       |                | 0.587 | 0.698 | 0.673 | 0.680 | 0.686 | 0.665 | 6.72   |
| 11) T  | Tert butyl alcoho   |                | 0.124 | 0.124 | 0.130 | 0.121 | 0.128 | 0.125 | 2.72   |
| 12) CM | 1,1-Dichloroethen   | 0.608          | 0.514 | 0.511 | 0.497 | 0.476 | 0.478 | 0.514 | 9.50#  |
| 13) T  | Acrolein            |                | 0.074 | 0.051 | 0.054 | 0.050 | 0.055 | 0.057 | 17.43  |
| 14) T  | Allyl chloride      | 1.244          | 1.238 | 1.276 | 1.252 | 1.234 | 1.269 | 1.252 | 1.35   |
| 15) T  | Acrylonitrile       | 0.301          | 0.320 | 0.343 | 0.342 | 0.329 | 0.339 | 0.329 | 4.98   |
| 16) T  | Acetone             | 0.508          | 0.412 | 0.432 | 0.392 | 0.388 | 0.370 | 0.417 | 11.89  |
| 17) T  | Carbon Disulfide    | 2.045          | 1.668 | 1.581 | 1.507 | 1.463 | 1.499 | 1.627 | 13.36  |
| 18) T  | Methyl Acetate      | 1.276          | 0.863 | 0.852 | 0.848 | 0.813 | 0.829 | 0.914 | 19.53  |
| 19) T  | Methyl tert-butyl   | 1.998          | 1.927 | 2.009 | 1.991 | 1.926 | 1.949 | 1.967 | 1.90   |
| 20) T  | Methylene Chlorid   | 1.188          | 0.755 | 0.665 | 0.617 | 0.592 | 0.601 | 0.736 | 31.15  |
| 21) T  | trans-1,2-Dichlor   | 0.671          | 0.563 | 0.555 | 0.547 | 0.529 | 0.540 | 0.568 | 9.18   |
| 22) T  | Diisopropyl ether   | 2.496          | 2.466 | 2.586 | 2.553 | 2.475 | 2.454 | 2.505 | 2.11   |
| 23) T  | Vinyl Acetate       | 2.147          | 2.090 | 2.228 | 2.120 | 1.649 | 1.396 | 1.938 | 17.28  |
| 24) P  | 1,1-Dichloroethan   | 1.310          | 1.290 | 1.255 | 1.229 | 1.175 | 1.189 | 1.241 | 4.35   |
| 25) T  | 2-Butanone          | 0.516          | 0.505 | 0.556 | 0.541 | 0.521 | 0.510 | 0.525 | 3.77   |
| 26) T  | 2,2-Dichloropropa   | 1.189          | 0.975 | 1.022 | 1.000 | 0.976 | 0.973 | 1.022 | 8.19   |
| 27) T  | cis-1,2-Dichloroe   | 0.727          | 0.618 | 0.666 | 0.641 | 0.623 | 0.626 | 0.650 | 6.39   |
| 28) T  | Bromochloromethan   | 0.701          | 0.663 | 0.715 | 0.720 | 0.684 | 0.678 | 0.694 | 3.22   |
| 29) T  | Tetrahydrofuran     | 0.300          | 0.317 | 0.351 | 0.354 | 0.339 | 0.342 | 0.334 | 6.34   |
| 30) C  | Chloroform          | 1.342          | 1.286 | 1.203 | 1.172 | 1.125 | 1.121 | 1.208 | 7.39#  |
| 31) T  | Cyclohexane         |                | 1.381 | 1.154 | 1.095 | 1.042 | 1.062 | 1.147 | 12.01  |
| 32) T  | 1,1,1-Trichloroet   | 1.139          | 0.986 | 1.027 | 0.996 | 0.966 | 0.976 | 1.015 | 6.33   |
| 33) S  | 1,2-Dichloroethan   |                | 0.974 | 0.954 | 0.909 | 0.843 | 0.842 | 0.904 | 6.75   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorometh   |                | 0.325 | 0.357 | 0.354 | 0.340 | 0.330 | 0.341 | 4.16   |
| 36) T  | 1,1-Dichloroprope   | 0.592          | 0.521 | 0.516 | 0.512 | 0.506 | 0.505 | 0.525 | 6.34   |
| 37) T  | Ethyl Acetate       | 0.538          | 0.615 | 0.657 | 0.658 | 0.631 | 0.640 | 0.623 | 7.18   |
| 38) T  | Carbon Tetrachlor   | 0.588          | 0.524 | 0.533 | 0.518 | 0.501 | 0.506 | 0.528 | 6.00   |
| 39) T  | Methylcyclohexane   | 0.619          | 0.557 | 0.551 | 0.556 | 0.551 | 0.557 | 0.565 | 4.67   |
| 40) TM | Benzene             | 1.668          | 1.523 | 1.503 | 1.488 | 1.415 | 1.358 | 1.493 | 7.09   |
| 41) T  | Methacrylonitrile   | 0.393          | 0.260 | 0.289 | 0.322 | 0.297 | 0.327 | 0.315 | 14.49  |
| 42) TM | 1,2-Dichloroethan   | 0.738          | 0.671 | 0.662 | 0.644 | 0.616 | 0.615 | 0.658 | 6.93   |
| 43) T  | Isopropyl Acetate   | 0.990          | 0.994 | 1.070 | 1.081 | 1.061 | 1.055 | 1.042 | 3.80   |
| 44) TM | Trichloroethene     | 0.417          | 0.361 | 0.347 | 0.344 | 0.337 | 0.335 | 0.357 | 8.68   |
| 45) C  | 1,2-Dichloropropa   | 0.479          | 0.439 | 0.436 | 0.432 | 0.420 | 0.419 | 0.437 | 5.06#  |
| 46) T  | Dibromomethane      | 0.305          | 0.274 | 0.266 | 0.265 | 0.258 | 0.257 | 0.271 | 6.65   |
| 47) T  | Bromodichlorometh   | 0.619          | 0.592 | 0.573 | 0.572 | 0.554 | 0.552 | 0.577 | 4.33   |
| 48) T  | Methyl methacryla   | 0.500          | 0.519 | 0.544 | 0.541 | 0.536 | 0.550 | 0.532 | 3.51   |
| 49) T  | 1,4-Dioxane         | 0.008          | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 6.47   |
| 50) S  | Toluene-d8          |                | 1.251 | 1.351 | 1.360 | 1.259 | 1.154 | 1.275 | 6.61   |
| 51) T  | 4-Methyl-2-Pentan   | 0.585          | 0.604 | 0.654 | 0.627 | 0.478 | 0.396 | 0.557 | 17.87  |
| 52) CM | Toluene             | 0.891          | 0.905 | 0.895 | 0.914 | 0.880 | 0.871 | 0.893 | 1.77#  |

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|        | Compound              | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 53) T  | t-1,3-Dichloropro     | 0.579          | 0.594 | 0.627 | 0.647 | 0.640 | 0.639 | 0.621 | 4.49   |
| 54) T  | cis-1,3-Dichlorop     | 0.659          | 0.656 | 0.670 | 0.668 | 0.660 | 0.663 | 0.663 | 0.80   |
| 55) T  | 1,1,2-Trichloroet     | 0.369          | 0.372 | 0.352 | 0.354 | 0.348 | 0.351 | 0.358 | 2.90   |
| 56) T  | Ethyl methacrylat     | 0.503          | 0.545 | 0.571 | 0.610 | 0.608 | 0.619 | 0.576 | 7.91   |
| 57) T  | 1,3-Dichloropropa     | 0.699          | 0.693 | 0.657 | 0.663 | 0.636 | 0.637 | 0.664 | 4.08   |
| 58) T  | 2-Chloroethyl Vin     | 0.188          | 0.187 | 0.203 | 0.228 | 0.217 | 0.219 | 0.207 | 8.18   |
| 59) T  | 2-Hexanone            | 0.400          | 0.434 | 0.485 | 0.481 | 0.399 | 0.335 | 0.422 | 13.48  |
| 60) T  | Dibromochlorometh     | 0.417          | 0.389 | 0.404 | 0.410 | 0.410 | 0.413 | 0.407 | 2.46   |
| 61) T  | 1,2-Dibromoethane     | 0.378          | 0.360 | 0.369 | 0.365 | 0.362 | 0.370 | 0.367 | 1.79   |
| 62) S  | 4-Bromofluorobenz     |                | 0.447 | 0.483 | 0.511 | 0.500 | 0.501 | 0.488 | 5.19   |
| 63) I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |        |
| 64) T  | Tetrachloroethene     | 0.405          | 0.321 | 0.313 | 0.301 | 0.296 | 0.295 | 0.322 | 13.06  |
| 65) PM | Chlorobenzene         | 1.109          | 1.089 | 1.038 | 1.004 | 0.977 | 0.936 | 1.025 | 6.46   |
| 66) T  | 1,1,1,2-Tetrachlo     | 0.403          | 0.380 | 0.394 | 0.381 | 0.379 | 0.377 | 0.386 | 2.65   |
| 67) C  | Ethyl Benzene         | 2.009          | 1.868 | 1.944 | 1.895 | 1.689 | 1.460 | 1.811 | 11.18# |
| 68) T  | m/p-Xylenes           | 0.645          | 0.665 | 0.694 | 0.694 | 0.661 | 0.633 | 0.666 | 3.76   |
| 69) T  | o-Xylene              | 0.650          | 0.641 | 0.669 | 0.658 | 0.657 | 0.654 | 0.655 | 1.44   |
| 70) T  | Styrene               | 1.043          | 1.008 | 1.116 | 1.137 | 1.114 | 1.074 | 1.082 | 4.58   |
| 71) P  | Bromoform             | 0.301          | 0.305 | 0.290 | 0.303 | 0.304 | 0.313 | 0.303 | 2.50   |
| 72) I  | 1,4-Dichlorobenzene-d | -----ISTD----- |       |       |       |       |       |       |        |
| 73) T  | Isopropylbenzene      | 4.373          | 4.090 | 4.041 | 3.663 | 3.262 | 2.763 | 3.699 | 16.18  |
| 74) T  | N-amyl acetate        | 1.782          | 1.904 | 2.157 | 2.099 | 2.053 | 1.930 | 1.988 | 7.04   |
| 75) P  | 1,1,2,2-Tetrachlo     | 1.555          | 1.389 | 1.349 | 1.219 | 1.140 | 1.110 | 1.294 | 13.10  |
| 76) T  | 1,2,3-Trichloropr     | 1.258          | 1.415 | 1.298 | 1.188 | 1.052 | 1.034 | 1.208 | 12.21  |
| 77) T  | Bromobenzene          | 0.929          | 0.891 | 0.907 | 0.842 | 0.847 | 0.829 | 0.874 | 4.64   |
| 78) T  | n-propylbenzene       | 4.936          | 4.553 | 4.675 | 4.343 | 3.711 | 3.038 | 4.209 | 16.80  |
| 79) T  | 2-Chlorotoluene       | 3.115          | 2.804 | 2.841 | 2.623 | 2.480 | 2.249 | 2.685 | 11.29  |
| 80) T  | 1,3,5-Trimethylbe     | 3.467          | 3.296 | 3.365 | 3.146 | 2.889 | 2.501 | 3.111 | 11.57  |
| 81) T  | trans-1,4-Dichlor     |                | 0.392 | 0.428 | 0.415 | 0.435 | 0.441 | 0.422 | 4.57   |
| 82) T  | 4-Chlorotoluene       | 3.047          | 2.875 | 2.879 | 2.729 | 2.601 | 2.349 | 2.747 | 8.97   |
| 83) T  | tert-Butylbenzene     | 2.889          | 2.774 | 2.867 | 2.558 | 2.485 | 2.242 | 2.636 | 9.61   |
| 84) T  | 1,2,4-Trimethylbe     | 3.459          | 3.249 | 3.269 | 3.102 | 2.860 | 2.511 | 3.075 | 11.08  |
| 85) T  | sec-Butylbenzene      | 3.635          | 3.580 | 3.688 | 3.506 | 3.160 | 2.692 | 3.377 | 11.37  |
| 86) T  | p-Isopropyltoluen     | 3.400          | 3.187 | 3.246 | 3.103 | 2.848 | 2.476 | 3.043 | 10.92  |
| 87) T  | 1,3-Dichlorobenze     | 1.653          | 1.661 | 1.581 | 1.549 | 1.530 | 1.466 | 1.573 | 4.75   |
| 88) T  | 1,4-Dichlorobenze     | 1.921          | 1.671 | 1.590 | 1.560 | 1.535 | 1.478 | 1.626 | 9.72   |
| 89) T  | n-Butylbenzene        | 2.697          | 2.623 | 2.676 | 2.718 | 2.669 | 2.385 | 2.628 | 4.69   |
| 90) T  | Hexachloroethane      | 0.788          | 0.629 | 0.659 | 0.624 | 0.603 | 0.602 | 0.651 | 10.83  |
| 91) T  | 1,2-Dichlorobenze     | 1.487          | 1.598 | 1.574 | 1.500 | 1.467 | 1.415 | 1.507 | 4.53   |
| 92) T  | 1,2-Dibromo-3-Chl     | 0.235          | 0.275 | 0.261 | 0.254 | 0.244 | 0.252 | 0.254 | 5.44   |
| 93) T  | 1,2,4-Trichlorobe     | 0.523          | 0.604 | 0.707 | 0.742 | 0.805 | 0.847 | 0.705 | 17.38  |
| 94) T  | Hexachlorobutadie     | 0.592          | 0.462 | 0.418 | 0.406 | 0.394 | 0.391 | 0.444 | 17.36  |
| 95) T  | Naphthalene           | 1.376          | 1.511 | 1.891 | 2.013 | 2.205 | 2.194 | 1.865 | 18.74  |
| 96) T  | 1,2,3-Trichlorobe     | 0.698          | 0.595 | 0.700 | 0.748 | 0.787 | 0.822 | 0.725 | 11.04  |

(#) = Out of Range