

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 82N121420W.M  
 Title : SW846 8260  
 Last Update : Tue Dec 15 05:41:47 2020  
 Response Via : Initial Calibration

## Calibration Files

1 =VN065089.D 5 =VN065090.D 20 =VN065091.D 50 =VN065092.D 100 =VN065093.D 150 =VN065094.D

| Compound |                     | 1              | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|----------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| -----    |                     |                |       |       |       |       |       |       |        |
| 1) I     | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T     | Dichlorodifluo...   | 0.488          | 0.535 | 0.471 | 0.501 | 0.492 | 0.480 | 0.494 | 4.48   |
| 3) P     | Chloromethane       | 0.629          | 0.573 | 0.445 | 0.448 | 0.422 | 0.430 | 0.491 | 17.80  |
| 4) C     | Vinyl Chloride      | 0.564          | 0.519 | 0.420 | 0.440 | 0.425 | 0.416 | 0.464 | 13.39# |
| 5) T     | Bromomethane        |                | 0.386 | 0.292 | 0.278 | 0.221 | 0.212 | 0.278 | 25.10  |
| 6) T     | Chloroethane        | 0.278          | 0.276 | 0.238 | 0.246 | 0.236 | 0.228 | 0.250 | 8.58   |
| 7) T     | Trichlorofluor...   | 0.928          | 0.857 | 0.800 | 0.844 | 0.815 | 0.797 | 0.840 | 5.89   |
| 8) T     | Diethyl Ether       | 0.253          | 0.315 | 0.271 | 0.288 | 0.299 | 0.300 | 0.288 | 7.79   |
| 9) T     | 1,1,2-Trichlor...   | 0.591          | 0.512 | 0.444 | 0.486 | 0.469 | 0.462 | 0.494 | 10.70  |
| 10) T    | Methyl Iodide       |                | 0.384 | 0.531 | 0.701 | 0.728 | 0.736 | 0.616 | 25.06  |
| 11) T    | Tert butyl alc...   | 0.056          | 0.063 | 0.057 | 0.063 | 0.064 | 0.064 | 0.061 | 5.79   |
| 12) CM   | 1,1-Dichloroet...   | 0.461          | 0.482 | 0.421 | 0.467 | 0.467 | 0.463 | 0.460 | 4.44#  |
| 13) T    | Acrolein            |                | 0.029 | 0.023 | 0.027 | 0.029 | 0.031 | 0.028 | 11.78  |
| 14) T    | Allyl chloride      | 0.679          | 0.748 | 0.677 | 0.783 | 0.774 | 0.764 | 0.737 | 6.45   |
| 15) T    | Acrylonitrile       | 0.169          | 0.203 | 0.202 | 0.218 | 0.216 | 0.211 | 0.203 | 8.72   |
| 16) T    | Acetone             | 0.239          | 0.239 | 0.204 | 0.214 | 0.200 | 0.188 | 0.214 | 9.84   |
| 17) T    | Carbon Disulfide    | 1.256          | 1.311 | 1.193 | 1.314 | 1.301 | 1.282 | 1.276 | 3.62   |
| 18) T    | Methyl Acetate      | 0.465          | 0.483 | 0.444 | 0.467 | 0.466 | 0.457 | 0.463 | 2.75   |
| 19) T    | Methyl tert-bu...   | 1.323          | 1.296 | 1.286 | 1.463 | 1.479 | 1.468 | 1.386 | 6.73   |
| 20) T    | Methylene Chlo...   | 0.713          | 0.603 | 0.487 | 0.526 | 0.508 | 0.501 | 0.557 | 15.62  |
| 21) T    | trans-1,2-Dich...   | 0.479          | 0.482 | 0.453 | 0.518 | 0.497 | 0.500 | 0.488 | 4.60   |
| 22) T    | Diisopropyl ether   | 1.377          | 1.375 | 1.499 | 1.597 | 1.500 | 1.464 | 1.469 | 5.73   |
| 23) T    | Vinyl Acetate       | 0.975          | 1.145 | 1.170 | 1.320 | 1.287 | 1.254 | 1.192 | 10.54  |
| 24) P    | 1,1-Dichloroet...   | 0.918          | 0.927 | 0.839 | 0.920 | 0.886 | 0.875 | 0.894 | 3.79   |
| 25) T    | 2-Butanone          | 0.247          | 0.285 | 0.268 | 0.294 | 0.279 | 0.271 | 0.274 | 5.84   |
| 26) T    | 2,2-Dichloropr...   | 0.794          | 0.841 | 0.736 | 0.804 | 0.784 | 0.775 | 0.789 | 4.37   |
| 27) T    | cis-1,2-Dichlo...   | 0.448          | 0.595 | 0.528 | 0.578 | 0.561 | 0.559 | 0.545 | 9.62   |
| 28) T    | Bromochloromet...   | 0.406          | 0.441 | 0.375 | 0.377 | 0.375 | 0.384 | 0.393 | 6.73   |
| 29) T    | Tetrahydrofuran     | 0.140          | 0.168 | 0.168 | 0.185 | 0.177 | 0.171 | 0.168 | 9.04   |
| 30) C    | Chloroform          | 1.070          | 0.964 | 0.883 | 0.958 | 0.916 | 0.907 | 0.950 | 7.03#  |
| 31) T    | Cyclohexane         |                | 0.903 | 0.714 | 0.782 | 0.757 | 0.748 | 0.781 | 9.28   |
| 32) T    | 1,1,1-Trichlor...   | 0.869          | 0.869 | 0.813 | 0.860 | 0.843 | 0.844 | 0.849 | 2.52   |
| 33) S    | 1,2-Dichloroet...   |                | 0.626 | 0.561 | 0.539 | 0.558 | 0.590 | 0.575 | 5.92   |
|          |                     |                |       |       |       |       |       |       |        |
| 34) I    | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S    | Dibromofluorom...   |                | 0.346 | 0.335 | 0.336 | 0.354 | 0.366 | 0.348 | 3.81   |
| 36) T    | 1,1-Dichloropr...   | 0.469          | 0.456 | 0.450 | 0.501 | 0.494 | 0.493 | 0.477 | 4.57   |
| 37) T    | Ethyl Acetate       | 0.433          | 0.330 | 0.399 | 0.430 | 0.432 | 0.423 | 0.408 | 9.83   |
| 38) T    | Carbon Tetrach...   | 0.549          | 0.548 | 0.504 | 0.570 | 0.563 | 0.570 | 0.551 | 4.50   |
| 39) T    | Methylcyclohexane   | 0.416          | 0.511 | 0.469 | 0.566 | 0.576 | 0.574 | 0.519 | 12.66  |
| 40) TM   | Benzene             | 1.277          | 1.416 | 1.328 | 1.480 | 1.441 | 1.431 | 1.396 | 5.49   |
| 41) T    | Methacrylonitrile   | 0.211          | 0.157 | 0.194 | 0.209 | 0.202 | 0.186 | 0.193 | 10.37  |
| 42) TM   | 1,2-Dichloroet...   | 0.487          | 0.497 | 0.484 | 0.523 | 0.518 | 0.522 | 0.505 | 3.59   |
| 43) T    | Isopropyl Acetate   | 0.565          | 0.631 | 0.640 | 0.727 | 0.734 | 0.731 | 0.671 | 10.40  |
| 44) TM   | Trichloroethene     | 0.408          | 0.425 | 0.385 | 0.427 | 0.420 | 0.421 | 0.414 | 3.81   |
| 45) C    | 1,2-Dichloropr...   | 0.327          | 0.381 | 0.362 | 0.400 | 0.380 | 0.377 | 0.371 | 6.70#  |
| 46) T    | Dibromomethane      | 0.226          | 0.261 | 0.237 | 0.271 | 0.261 | 0.258 | 0.252 | 6.82   |
| 47) T    | Bromodichlorom...   | 0.521          | 0.495 | 0.479 | 0.541 | 0.530 | 0.534 | 0.517 | 4.74   |
| 48) T    | Methyl methacr...   | 0.304          | 0.292 | 0.302 | 0.341 | 0.347 | 0.347 | 0.322 | 7.88   |
| 49) T    | 1,4-Dioxane         | 0.003          | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 14.12  |
| 50) S    | Toluene-d8          |                | 1.232 | 1.169 | 1.190 | 1.247 | 1.307 | 1.229 | 4.36   |
| 51) T    | 4-Methyl-2-Pen...   | 0.336          | 0.376 | 0.383 | 0.425 | 0.412 | 0.398 | 0.388 | 8.11   |
| 52) CM   | Toluene             | 0.675          | 0.867 | 0.836 | 0.926 | 0.927 | 0.915 | 0.858 | 11.24# |
| 53) T    | t-1,3-Dichloro...   | 0.486          | 0.493 | 0.471 | 0.566 | 0.576 | 0.585 | 0.530 | 9.76   |
| 54) T    | cis-1,3-Dichlo...   | 0.423          | 0.533 | 0.550 | 0.624 | 0.626 | 0.630 | 0.564 | 14.33  |
| 55) T    | 1,1,2-Trichlor...   | 0.317          | 0.357 | 0.327 | 0.365 | 0.356 | 0.358 | 0.347 | 5.69   |

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|     |   |                   |       |       |       |       |       |       |       |       |
|-----|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 56) | T | Ethyl methacry... | 0.286 | 0.376 | 0.400 | 0.492 | 0.497 | 0.500 | 0.425 | 20.38 |
| 57) | T | 1,3-Dichloropr... | 0.489 | 0.571 | 0.551 | 0.605 | 0.590 | 0.579 | 0.564 | 7.25  |
| 58) | T | 2-Chloroethyl ... | 0.191 | 0.188 | 0.220 | 0.252 | 0.251 | 0.246 | 0.225 | 13.09 |
| 59) | T | 2-Hexanone        | 0.217 | 0.245 | 0.272 | 0.306 | 0.292 | 0.284 | 0.269 | 12.19 |
| 60) | T | Dibromochlorom... | 0.332 | 0.400 | 0.383 | 0.454 | 0.448 | 0.447 | 0.411 | 11.72 |
| 61) | T | 1,2-Dibromoethane | 0.326 | 0.343 | 0.338 | 0.377 | 0.380 | 0.379 | 0.357 | 6.76  |
| 62) | S | 4-Bromofluorob... |       | 0.412 | 0.401 | 0.409 | 0.439 | 0.456 | 0.423 | 5.51  |

|     |    |                   |                |       |       |       |       |       |       |        |
|-----|----|-------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 63) | I  | Chlorobenzene-d5  | -----ISTD----- |       |       |       |       |       |       |        |
| 64) | T  | Tetrachloroethene | 0.498          | 0.537 | 0.482 | 0.513 | 0.477 | 0.470 | 0.496 | 5.13   |
| 65) | PM | Chlorobenzene     | 0.990          | 1.039 | 0.995 | 1.110 | 1.090 | 1.093 | 1.053 | 4.97   |
| 66) | T  | 1,1,1,2-Tetrac... | 0.417          | 0.414 | 0.395 | 0.444 | 0.429 | 0.438 | 0.423 | 4.18   |
| 67) | C  | Ethyl Benzene     | 1.427          | 1.662 | 1.641 | 1.909 | 1.923 | 1.917 | 1.747 | 11.64# |
| 68) | T  | m/p-Xylenes       | 0.518          | 0.613 | 0.649 | 0.751 | 0.748 | 0.743 | 0.670 | 14.12  |
| 69) | T  | o-Xylene          | 0.494          | 0.573 | 0.612 | 0.688 | 0.699 | 0.695 | 0.627 | 13.26  |
| 70) | T  | Styrene           | 0.723          | 0.898 | 1.003 | 1.173 | 1.183 | 1.182 | 1.027 | 18.44  |
| 71) | P  | Bromoform         | 0.254          | 0.293 | 0.310 | 0.353 | 0.355 | 0.356 | 0.320 | 13.11  |

|     |   |                       |                |       |       |       |       |       |       |       |
|-----|---|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 72) | I | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T | Isopropylbenzene      | 2.976          | 3.366 | 3.322 | 3.687 | 3.699 | 3.669 | 3.453 | 8.34  |
| 74) | T | N-amyl acetate        | 0.906          | 1.155 | 1.100 | 1.284 | 1.298 | 1.307 | 1.175 | 13.34 |
| 75) | P | 1,1,2,2-Tetrac...     | 1.075          | 1.094 | 0.939 | 0.994 | 0.941 | 0.933 | 0.996 | 7.25  |
| 76) | T | 1,2,3-Trichlor...     | 0.806          | 1.001 | 0.925 | 0.866 | 0.931 | 0.853 | 0.897 | 7.69  |
| 77) | T | Bromobenzene          | 0.822          | 0.980 | 0.907 | 0.992 | 0.992 | 0.976 | 0.945 | 7.21  |
| 78) | T | n-propylbenzene       | 2.970          | 3.610 | 3.718 | 4.137 | 4.149 | 4.136 | 3.787 | 12.27 |
| 79) | T | 2-Chlorotoluene       | 2.089          | 2.319 | 2.243 | 2.423 | 2.385 | 2.408 | 2.311 | 5.53  |
| 80) | T | 1,3,5-Trimethy...     | 2.100          | 2.696 | 2.819 | 3.217 | 3.142 | 3.123 | 2.849 | 14.74 |
| 81) | T | trans-1,4-Dich...     | 0.306          | 0.309 | 0.280 | 0.337 | 0.349 | 0.353 | 0.322 | 8.89  |
| 82) | T | 4-Chlorotoluene       | 2.105          | 2.383 | 2.296 | 2.503 | 2.525 | 2.523 | 2.389 | 6.96  |
| 83) | T | tert-Butylbenzene     | 2.209          | 2.297 | 2.340 | 2.587 | 2.645 | 2.658 | 2.456 | 8.00  |
| 84) | T | 1,2,4-Trimethy...     | 2.210          | 2.777 | 2.809 | 3.171 | 3.155 | 3.143 | 2.878 | 12.95 |
| 85) | T | sec-Butylbenzene      | 2.404          | 3.019 | 3.007 | 3.389 | 3.413 | 3.443 | 3.112 | 12.83 |
| 86) | T | p-Isopropyltol...     | 2.114          | 2.739 | 2.835 | 3.201 | 3.223 | 3.224 | 2.889 | 15.06 |
| 87) | T | 1,3-Dichlorobe...     | 1.495          | 1.666 | 1.539 | 1.712 | 1.693 | 1.676 | 1.630 | 5.52  |
| 88) | T | 1,4-Dichlorobe...     | 1.572          | 1.682 | 1.572 | 1.687 | 1.684 | 1.698 | 1.649 | 3.65  |
| 89) | T | n-Butylbenzene        | 1.954          | 2.308 | 2.221 | 2.630 | 2.698 | 2.713 | 2.420 | 12.76 |
| 90) | T | Hexachloroethane      | 0.483          | 0.491 | 0.483 | 0.547 | 0.561 | 0.577 | 0.523 | 8.13  |
| 91) | T | 1,2-Dichlorobe...     | 1.667          | 1.642 | 1.530 | 1.673 | 1.621 | 1.619 | 1.625 | 3.18  |
| 92) | T | 1,2-Dibromo-3-...     | 0.243          | 0.191 | 0.178 | 0.195 | 0.193 | 0.206 | 0.201 | 11.18 |
| 93) | T | 1,2,4-Trichlor...     | 0.404          | 0.519 | 0.729 | 0.937 | 1.005 | 1.052 | 0.775 | 34.69 |
| 94) | T | Hexachlorobuta...     | 0.568          | 0.552 | 0.512 | 0.572 | 0.549 | 0.561 | 0.552 | 3.87  |
| 95) | T | Naphthalene           | 0.792          | 1.144 | 1.746 | 2.428 | 2.605 | 2.737 | 1.908 | 42.57 |
| 96) | T | 1,2,3-Trichlor...     | 0.259          | 0.461 | 0.670 | 0.836 | 0.908 | 0.962 | 0.682 | 40.44 |

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(#) = Out of Range