

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\  
 Method File : 82N050421W.M  
 Title : SW846 8260  
 Last Update : Tue May 04 13:11:03 2021  
 Response Via : Initial Calibration

## Calibration Files

5 =VN066927.D 20 =VN066928.D 40 =VN066929.D 50 =VN066930.D 100 =VN066931.D

|        | Compound            | 5              | 20    | 40    | 50    | 100   | Avg   | %RSD  |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|
| -----  |                     |                |       |       |       |       |       |       |
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |
| 2) T   | Dichlorodifluo...   | 0.712          | 0.616 | 0.675 | 0.687 | 0.687 | 0.675 | 5.31  |
| 3) P   | Chloromethane       | 1.039          | 0.851 | 0.945 | 1.000 | 1.010 | 0.969 | 7.67  |
| 4) C   | Vinyl Chloride      | 0.953          | 0.812 | 0.928 | 0.967 | 0.992 | 0.930 | 7.54# |
| 5) T   | Bromomethane        | 0.531          | 0.444 | 0.497 | 0.515 | 0.488 | 0.495 | 6.67  |
| 6) T   | Chloroethane        | 0.599          | 0.489 | 0.544 | 0.563 | 0.548 | 0.548 | 7.21  |
| 7) T   | Trichlorofluor...   | 1.191          | 0.993 | 1.097 | 1.115 | 1.125 | 1.104 | 6.49  |
| 8) T   | Diethyl Ether       | 0.401          | 0.357 | 0.396 | 0.413 | 0.416 | 0.397 | 5.98  |
| 9) T   | 1,1,2-Trichlor...   | 0.600          | 0.516 | 0.562 | 0.561 | 0.570 | 0.562 | 5.34  |
| 10) T  | Methyl Iodide       | 0.737          | 0.669 | 0.753 | 0.759 | 0.783 | 0.740 | 5.83  |
| 11) T  | Tert butyl alc...   | 0.106          | 0.100 | 0.112 | 0.117 | 0.120 | 0.111 | 7.20  |
| 12) CM | 1,1-Dichloroet...   | 0.579          | 0.493 | 0.540 | 0.553 | 0.568 | 0.547 | 6.07# |
| 13) T  | Acrolein            | 0.102          | 0.081 | 0.091 | 0.093 | 0.095 | 0.092 | 8.20  |
| 14) T  | Allyl chloride      | 1.120          | 0.968 | 1.107 | 1.114 | 1.172 | 1.096 | 6.93  |
| 15) T  | Acrylonitrile       | 0.306          | 0.296 | 0.340 | 0.347 | 0.360 | 0.330 | 8.37  |
| 16) T  | Acetone             | 0.320          | 0.249 | 0.276 | 0.273 | 0.266 | 0.277 | 9.56  |
| 17) T  | Carbon Disulfide    | 1.829          | 1.522 | 1.683 | 1.706 | 1.730 | 1.694 | 6.56  |
| 18) T  | Methyl Acetate      | 0.732          | 0.721 | 0.827 | 0.835 | 0.844 | 0.792 | 7.57  |
| 19) T  | Methyl tert-bu...   | 1.813          | 1.738 | 2.030 | 2.066 | 2.151 | 1.960 | 8.98  |
| 20) T  | Methylene Chlo...   | 0.752          | 0.647 | 0.700 | 0.705 | 0.708 | 0.702 | 5.32  |
| 21) T  | trans-1,2-Dich...   | 0.598          | 0.543 | 0.605 | 0.606 | 0.621 | 0.595 | 5.05  |
| 22) T  | Diisopropyl ether   | 2.126          | 2.025 | 2.256 | 2.322 | 2.364 | 2.219 | 6.33  |
| 23) T  | Vinyl Acetate       | 1.653          | 1.577 | 1.840 | 1.908 | 1.902 | 1.776 | 8.53  |
| 24) P  | 1,1-Dichloroet...   | 1.347          | 1.173 | 1.281 | 1.300 | 1.311 | 1.282 | 5.13  |
| 25) T  | 2-Butanone          | 0.400          | 0.363 | 0.413 | 0.422 | 0.443 | 0.408 | 7.21  |
| 26) T  | 2,2-Dichloropr...   | 1.122          | 0.997 | 1.088 | 1.086 | 1.091 | 1.077 | 4.36  |
| 27) T  | cis-1,2-Dichlo...   | 0.673          | 0.611 | 0.700 | 0.702 | 0.721 | 0.681 | 6.27  |
| 28) T  | Bromochloromet...   | 0.644          | 0.563 | 0.556 | 0.578 | 0.624 | 0.593 | 6.55  |
| 29) T  | Tetrahydrofuran     | 0.243          | 0.247 | 0.279 | 0.288 | 0.297 | 0.271 | 9.08  |
| 30) C  | Chloroform          | 1.286          | 1.129 | 1.215 | 1.237 | 1.254 | 1.224 | 4.84# |
| 31) T  | Cyclohexane         | 1.232          | 0.958 | 1.076 | 1.106 | 1.164 | 1.107 | 9.26  |
| 32) T  | 1,1,1-Trichlor...   | 1.107          | 0.972 | 1.052 | 1.062 | 1.087 | 1.056 | 4.89  |
| 33) S  | 1,2-Dichloroet...   | 0.869          | 0.727 | 0.755 | 0.775 | 0.809 | 0.787 | 6.97  |
|        |                     |                |       |       |       |       |       |       |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |
| 35) S  | Dibromofluorom...   | 0.381          | 0.313 | 0.328 | 0.330 | 0.345 | 0.340 | 7.54  |
| 36) T  | 1,1-Dichloropr...   | 0.529          | 0.456 | 0.528 | 0.530 | 0.561 | 0.521 | 7.48  |
| 37) T  | Ethyl Acetate       | 0.493          | 0.483 | 0.555 | 0.559 | 0.563 | 0.531 | 7.34  |
| 38) T  | Carbon Tetrach...   | 0.572          | 0.490 | 0.551 | 0.542 | 0.559 | 0.543 | 5.80  |
| 39) T  | Methylcyclohexane   | 0.535          | 0.493 | 0.605 | 0.611 | 0.659 | 0.581 | 11.40 |
| 40) TM | Benzene             | 1.669          | 1.459 | 1.672 | 1.664 | 1.710 | 1.635 | 6.10  |
| 41) T  | Methacrylonitrile   | 0.236          | 0.194 | 0.212 | 0.229 | 0.270 | 0.228 | 12.40 |
| 42) TM | 1,2-Dichloroet...   | 0.602          | 0.527 | 0.593 | 0.590 | 0.603 | 0.583 | 5.45  |
| 43) T  | Isopropyl Acetate   | 0.820          | 0.757 | 0.881 | 0.902 | 0.948 | 0.862 | 8.66  |
| 44) TM | Trichloroethene     | 0.376          | 0.320 | 0.365 | 0.365 | 0.374 | 0.360 | 6.35  |
| 45) C  | 1,2-Dichloropr...   | 0.459          | 0.419 | 0.466 | 0.463 | 0.475 | 0.457 | 4.82# |
| 46) T  | Dibromomethane      | 0.270          | 0.249 | 0.274 | 0.274 | 0.281 | 0.269 | 4.56  |
| 47) T  | Bromodichlorom...   | 0.580          | 0.526 | 0.600 | 0.591 | 0.614 | 0.582 | 5.80  |
| 48) T  | Methyl methacr...   | 0.319          | 0.325 | 0.402 | 0.414 | 0.448 | 0.382 | 14.95 |
| 49) T  | 1,4-Dioxane         | 0.005          | 0.005 | 0.006 | 0.007 | 0.007 | 0.006 | 13.62 |
| 50) S  | Toluene-d8          | 1.324          | 1.170 | 1.287 | 1.296 | 1.387 | 1.293 | 6.10  |
| 51) T  | 4-Methyl-2-Pen...   | 0.426          | 0.440 | 0.527 | 0.545 | 0.552 | 0.498 | 12.07 |
| 52) CM | Toluene             | 0.904          | 0.857 | 1.005 | 0.994 | 1.045 | 0.961 | 8.11# |
| 53) T  | t-1,3-Dichloro...   | 0.574          | 0.539 | 0.645 | 0.648 | 0.698 | 0.621 | 10.26 |
| 54) T  | cis-1,3-Dichlo...   | 0.644          | 0.605 | 0.715 | 0.711 | 0.753 | 0.686 | 8.71  |
| 55) T  | 1,1,2-Trichlor...   | 0.379          | 0.338 | 0.394 | 0.393 | 0.403 | 0.381 | 6.76  |
| 56) T  | Ethyl methacry...   | 0.386          | 0.428 | 0.560 | 0.587 | 0.643 | 0.521 | 20.98 |

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|                |    |                       |       |       |       |       |       |       |        |
|----------------|----|-----------------------|-------|-------|-------|-------|-------|-------|--------|
| 57)            | T  | 1,3-Dichloropr...     | 0.658 | 0.591 | 0.696 | 0.704 | 0.729 | 0.676 | 7.93   |
| 58)            | T  | 2-Chloroethyl ...     | 0.065 | 0.068 | 0.095 | 0.102 | 0.125 | 0.091 | 27.43  |
| 59)            | T  | 2-Hexanone            | 0.190 | 0.251 | 0.338 | 0.359 | 0.392 | 0.306 | 27.16  |
| 60)            | T  | Dibromochlorom...     | 0.414 | 0.374 | 0.443 | 0.442 | 0.461 | 0.427 | 7.93   |
| 61)            | T  | 1,2-Dibromoethane     | 0.349 | 0.331 | 0.385 | 0.384 | 0.408 | 0.371 | 8.34   |
| 62)            | S  | 4-Bromofluorob...     | 0.330 | 0.371 | 0.465 | 0.478 | 0.545 | 0.438 | 19.77  |
| -----ISTD----- |    |                       |       |       |       |       |       |       |        |
| 63)            | I  | Chlorobenzene-d5      |       |       |       |       |       |       |        |
| 64)            | T  | Tetrachloroethene     | 0.386 | 0.313 | 0.337 | 0.340 | 0.333 | 0.342 | 7.83   |
| 65)            | PM | Chlorobenzene         | 1.101 | 0.945 | 1.068 | 1.109 | 1.128 | 1.070 | 6.85   |
| 66)            | T  | 1,1,1,2-Tetrac...     | 0.435 | 0.368 | 0.417 | 0.423 | 0.431 | 0.415 | 6.58   |
| 67)            | C  | Ethyl Benzene         | 1.700 | 1.636 | 1.968 | 2.023 | 2.097 | 1.885 | 10.84# |
| 68)            | T  | m/p-Xylenes           | 0.611 | 0.601 | 0.739 | 0.765 | 0.791 | 0.701 | 12.67  |
| 69)            | T  | o-Xylene              | 0.596 | 0.575 | 0.715 | 0.729 | 0.779 | 0.679 | 13.06  |
| 70)            | T  | Styrene               | 0.767 | 0.891 | 1.158 | 1.185 | 1.288 | 1.058 | 20.70  |
| 71)            | P  | Bromoform             | 0.279 | 0.257 | 0.311 | 0.318 | 0.335 | 0.300 | 10.35  |
| -----ISTD----- |    |                       |       |       |       |       |       |       |        |
| 72)            | I  | 1,4-Dichlorobenzen... |       |       |       |       |       |       |        |
| 73)            | T  | Isopropylbenzene      | 3.571 | 3.643 | 4.084 | 4.067 | 4.028 | 3.879 | 6.44   |
| 74)            | T  | N-amyl acetate        |       | 0.058 | 0.633 | 0.868 | 1.240 | 0.700 | 70.81  |
| 75)            | P  | 1,1,2,2-Tetrac...     | 1.442 | 1.308 | 1.386 | 1.369 | 1.294 | 1.360 | 4.44   |
| 76)            | T  | 1,2,3-Trichlor...     | 0.994 | 1.125 | 1.278 | 1.271 | 1.288 | 1.191 | 10.84  |
| 77)            | T  | Bromobenzene          | 0.894 | 0.851 | 0.949 | 0.943 | 0.939 | 0.915 | 4.59   |
| 78)            | T  | n-propylbenzene       | 3.779 | 4.037 | 4.708 | 4.758 | 4.733 | 4.403 | 10.48  |
| 79)            | T  | 2-Chlorotoluene       | 2.957 | 2.697 | 2.916 | 2.926 | 2.922 | 2.884 | 3.66   |
| 80)            | T  | 1,3,5-Trimethy...     | 3.109 | 3.146 | 3.515 | 3.566 | 3.585 | 3.384 | 6.98   |
| 81)            | T  | trans-1,4-Dich...     | 0.092 | 0.262 | 0.367 | 0.385 | 0.404 | 0.302 | 42.82  |
| 82)            | T  | 4-Chlorotoluene       | 2.465 | 2.545 | 2.873 | 2.988 | 3.007 | 2.776 | 9.15   |
| 83)            | T  | tert-Butylbenzene     | 2.620 | 2.612 | 2.964 | 3.007 | 2.996 | 2.840 | 7.21   |
| 84)            | T  | 1,2,4-Trimethy...     | 2.820 | 2.906 | 3.396 | 3.466 | 3.565 | 3.231 | 10.60  |
| 85)            | T  | sec-Butylbenzene      | 3.284 | 3.301 | 3.890 | 3.933 | 4.031 | 3.688 | 9.89   |
| 86)            | T  | p-Isopropyltol...     | 2.709 | 2.743 | 3.348 | 3.447 | 3.599 | 3.169 | 13.08  |
| 87)            | T  | 1,3-Dichlorobe...     | 1.467 | 1.451 | 1.647 | 1.665 | 1.707 | 1.587 | 7.52   |
| 88)            | T  | 1,4-Dichlorobe...     | 1.529 | 1.350 | 1.652 | 1.720 | 1.730 | 1.596 | 9.99   |
| 89)            | T  | n-Butylbenzene        | 1.819 | 2.039 | 2.632 | 2.782 | 3.050 | 2.464 | 20.97  |
| 90)            | T  | Hexachloroethane      | 0.764 | 0.653 | 0.715 | 0.713 | 0.722 | 0.713 | 5.57   |
| 91)            | T  | 1,2-Dichlorobe...     | 1.507 | 1.438 | 1.656 | 1.674 | 1.663 | 1.588 | 6.79   |
| 92)            | T  | 1,2-Dibromo-3-...     | 0.287 | 0.195 | 0.232 | 0.243 | 0.248 | 0.241 | 13.79  |
| 93)            | T  | 1,2,4-Trichlor...     | 0.787 | 0.692 | 0.874 | 0.899 | 0.948 | 0.840 | 12.03  |
| 94)            | T  | Hexachlorobuta...     | 0.541 | 0.470 | 0.520 | 0.520 | 0.518 | 0.514 | 5.10   |
| 95)            | T  | Naphthalene           | 1.810 | 1.757 | 2.302 | 2.529 | 2.583 | 2.196 | 17.84  |
| 96)            | T  | 1,2,3-Trichlor...     | 0.720 | 0.699 | 0.837 | 0.899 | 0.916 | 0.814 | 12.31  |

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 (#) = Out of Range