

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D071321S.M  
 Title : SW846 8260  
 Last Update : Wed Jul 14 05:51:48 2021  
 Response Via : Initial Calibration

## Calibration Files

10 =VD069664.D 5 =VD069663.D 20 =VD069665.D 50 =VD069666.D 100 =VD069667.D 150 =VD069668.D

| Compound |                     | 10             | 5     | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|----------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| -----    |                     |                |       |       |       |       |       |       |        |
| 1) I     | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T     | Dichlorodifluo...   | 0.404          | 0.612 | 0.356 | 0.567 | 0.547 | 0.504 | 0.498 | 19.88  |
| 3) P     | Chloromethane       | 0.610          | 0.873 | 0.563 | 0.759 | 0.740 | 0.684 | 0.705 | 15.78  |
| 4) C     | Vinyl Chloride      | 0.690          | 0.899 | 0.625 | 0.824 | 0.793 | 0.733 | 0.761 | 12.91# |
| 5) T     | Bromomethane        | 0.512          | 0.648 | 0.424 | 0.482 | 0.488 | 0.448 | 0.500 | 15.72  |
| 6) T     | Chloroethane        | 0.471          | 0.556 | 0.432 | 0.512 | 0.498 | 0.452 | 0.487 | 9.21   |
| 7) T     | Trichlorofluor...   | 0.961          | 1.111 | 0.850 | 1.001 | 0.954 | 0.878 | 0.959 | 9.72   |
| 8) T     | Diethyl Ether       | 0.270          | 0.284 | 0.240 | 0.293 | 0.310 | 0.282 | 0.280 | 8.46   |
| 9) T     | 1,1,2-Trichlor...   | 0.583          | 0.698 | 0.544 | 0.619 | 0.591 | 0.534 | 0.595 | 9.98   |
| 10) T    | Methyl Iodide       | 0.427          | 0.518 | 0.426 | 0.645 | 0.684 | 0.624 | 0.554 | 20.40  |
| 11) T    | Tert butyl alc...   | 0.106          | 0.194 | 0.078 | 0.045 | 0.044 | 0.033 | 0.083 | 72.62  |
| 12) CM   | 1,1-Dichloroet...   | 0.518          | 0.585 | 0.457 | 0.599 | 0.580 | 0.534 | 0.545 | 9.84#  |
| 13) T    | Acrolein            | 0.046          | 0.042 | 0.045 | 0.040 | 0.045 | 0.039 | 0.043 | 6.40   |
| 14) T    | Allyl chloride      | 0.763          | 0.802 | 0.744 | 0.911 | 0.952 | 0.882 | 0.843 | 10.06  |
| 15) T    | Acrylonitrile       | 0.122          | 0.130 | 0.106 | 0.133 | 0.144 | 0.126 | 0.127 | 10.05  |
| 16) T    | Acetone             | 0.125          | 0.148 | 0.098 | 0.110 | 0.114 | 0.088 | 0.114 | 18.59  |
| 17) T    | Carbon Disulfide    | 1.509          | 2.222 | 1.370 | 2.119 | 2.045 | 1.874 | 1.857 | 18.59  |
| 18) T    | Methyl Acetate      | 0.466          | 0.373 | 0.410 | 0.288 | 0.309 | 0.269 | 0.352 | 21.88  |
| 19) T    | Methyl tert-bu...   | 0.995          | 1.086 | 0.955 | 1.288 | 1.375 | 1.227 | 1.154 | 14.59  |
| 20) T    | Methylene Chlo...   | 1.180          | 2.249 | 0.912 | 0.830 | 0.763 | 0.641 | 1.096 | 54.14  |
| 21) T    | trans-1,2-Dich...   | 0.624          | 0.732 | 0.571 | 0.686 | 0.678 | 0.616 | 0.651 | 8.94   |
| 22) T    | Diisopropyl ether   | 1.499          | 1.628 | 1.525 | 1.988 | 2.013 | 1.825 | 1.746 | 13.05  |
| 23) T    | Vinyl Acetate       | 0.646          | 0.571 | 0.652 | 1.005 | 1.109 | 0.984 | 0.828 | 27.83  |
| 24) P    | 1,1-Dichloroet...   | 1.233          | 1.322 | 1.123 | 1.270 | 1.234 | 1.129 | 1.219 | 6.46   |
| 25) T    | 2-Butanone          | 0.148          | 0.144 | 0.133 | 0.151 | 0.167 | 0.141 | 0.148 | 7.85   |
| 26) T    | 2,2-Dichloropr...   | 0.984          | 1.057 | 0.910 | 0.988 | 0.991 | 0.903 | 0.972 | 5.91   |
| 27) T    | cis-1,2-Dichlo...   | 0.667          | 0.743 | 0.628 | 0.743 | 0.746 | 0.687 | 0.702 | 7.04   |
| 28) T    | Bromochloromet...   | 0.454          | 0.512 | 0.419 | 0.490 | 0.498 | 0.450 | 0.470 | 7.52   |
| 29) T    | Tetrahydrofuran     | 0.082          | 0.088 | 0.073 | 0.100 | 0.110 | 0.095 | 0.091 | 14.55  |
| 30) C    | Chloroform          | 1.243          | 1.323 | 1.159 | 1.247 | 1.206 | 1.095 | 1.212 | 6.49#  |
| 31) T    | Cyclohexane         | 0.878          | 1.258 | 0.782 | 1.140 | 1.129 | 1.036 | 1.037 | 17.14  |
| 32) T    | 1,1,1-Trichlor...   | 1.054          | 1.150 | 0.955 | 1.050 | 1.020 | 0.938 | 1.028 | 7.46   |
| 33) S    | 1,2-Dichloroet...   | 0.671          | 0.679 | 0.622 | 0.619 | 0.596 | 0.558 | 0.624 | 7.31   |
|          |                     |                |       |       |       |       |       |       |        |
| 34) I    | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S    | Dibromofluorom...   | 0.352          | 0.341 | 0.340 | 0.345 | 0.327 | 0.308 | 0.335 | 4.68   |
| 36) T    | 1,1-Dichloropr...   | 0.487          | 0.548 | 0.457 | 0.564 | 0.539 | 0.499 | 0.516 | 8.03   |
| 37) T    | Ethyl Acetate       | 0.196          | 0.186 | 0.178 | 0.208 | 0.217 | 0.187 | 0.195 | 7.62   |
| 38) T    | Carbon Tetrach...   | 0.462          | 0.494 | 0.427 | 0.510 | 0.485 | 0.455 | 0.472 | 6.40   |
| 39) T    | Methylcyclohexane   | 0.422          | 0.563 | 0.424 | 0.666 | 0.661 | 0.616 | 0.559 | 19.93  |
| 40) TM   | Benzene             | 1.420          | 1.553 | 1.363 | 1.622 | 1.548 | 1.420 | 1.488 | 6.76   |
| 41) T    | Methacrylonitrile   | 0.091          | 0.108 | 0.086 | 0.106 | 0.115 | 0.100 | 0.101 | 10.65  |
| 42) TM   | 1,2-Dichloroet...   | 0.412          | 0.437 | 0.372 | 0.422 | 0.414 | 0.367 | 0.404 | 6.98   |
| 43) T    | Isopropyl Acetate   | 0.354          | 0.328 | 0.325 | 0.379 | 0.401 | 0.357 | 0.357 | 8.20   |
| 44) TM   | Trichloroethene     | 0.346          | 0.390 | 0.335 | 0.384 | 0.369 | 0.341 | 0.361 | 6.50   |
| 45) C    | 1,2-Dichloropr...   | 0.380          | 0.415 | 0.370 | 0.417 | 0.403 | 0.362 | 0.391 | 6.03#  |
| 46) T    | Dibromomethane      | 0.187          | 0.202 | 0.178 | 0.202 | 0.200 | 0.177 | 0.191 | 6.17   |
| 47) T    | Bromodichlorom...   | 0.515          | 0.518 | 0.485 | 0.529 | 0.517 | 0.471 | 0.506 | 4.45   |
| 48) T    | Methyl methacr...   | 0.150          | 0.141 | 0.145 | 0.193 | 0.205 | 0.181 | 0.169 | 16.12  |
| 49) T    | 1,4-Dioxane         | 0.002          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 15.14  |
| 50) S    | Toluene-d8          | 1.303          | 1.258 | 1.309 | 1.384 | 1.310 | 1.255 | 1.303 | 3.60   |
| 51) T    | 4-Methyl-2-Pen...   | 0.178          | 0.157 | 0.172 | 0.202 | 0.216 | 0.185 | 0.185 | 11.36  |
| 52) CM   | Toluene             | 0.834          | 0.838 | 0.828 | 1.007 | 0.966 | 0.896 | 0.895 | 8.53#  |
| 53) T    | t-1,3-Dichloro...   | 0.406          | 0.415 | 0.397 | 0.452 | 0.467 | 0.415 | 0.425 | 6.50   |
| 54) T    | cis-1,3-Dichlo...   | 0.518          | 0.501 | 0.489 | 0.537 | 0.563 | 0.525 | 0.522 | 4.97   |
| 55) T    | 1,1,2-Trichlor...   | 0.266          | 0.280 | 0.254 | 0.278 | 0.277 | 0.246 | 0.267 | 5.40   |
| 56) T    | Ethyl methacry...   | 0.261          | 0.241 | 0.265 | 0.349 | 0.378 | 0.335 | 0.305 | 18.41  |

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|     |    |                       |                |       |       |       |       |       |       |       |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| 57) | T  | 1,3-Dichloropr...     | 0.479          | 0.466 | 0.437 | 0.503 | 0.499 | 0.445 | 0.471 | 5.80  |
| 58) | T  | 2-Chloroethyl ...     | 0.114          | 0.106 | 0.129 | 0.147 | 0.170 | 0.150 | 0.136 | 17.96 |
| 59) | T  | 2-Hexanone            | 0.112          | 0.103 | 0.113 | 0.137 | 0.149 | 0.125 | 0.123 | 13.90 |
| 60) | T  | Dibromochlorom...     | 0.327          | 0.306 | 0.298 | 0.323 | 0.322 | 0.292 | 0.311 | 4.73  |
| 61) | T  | 1,2-Dibromoethane     | 0.252          | 0.249 | 0.231 | 0.258 | 0.263 | 0.232 | 0.248 | 5.36  |
| 62) | S  | 4-Bromofluorob...     | 0.422          | 0.408 | 0.432 | 0.458 | 0.457 | 0.431 | 0.435 | 4.55  |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |       |
| 64) | T  | Tetrachloroethene     | 0.308          | 0.336 | 0.288 | 0.318 | 0.302 | 0.279 | 0.305 | 6.71  |
| 65) | PM | Chlorobenzene         | 0.988          | 1.032 | 0.950 | 1.056 | 1.027 | 0.942 | 0.999 | 4.66  |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.368          | 0.359 | 0.341 | 0.371 | 0.365 | 0.335 | 0.357 | 4.24  |
| 67) | C  | Ethyl Benzene         | 1.637          | 1.652 | 1.627 | 1.974 | 1.936 | 1.787 | 1.769 | 8.83# |
| 68) | T  | m/p-Xylenes           | 0.609          | 0.605 | 0.633 | 0.755 | 0.731 | 0.680 | 0.669 | 9.54  |
| 69) | T  | o-Xylene              | 0.536          | 0.539 | 0.548 | 0.690 | 0.697 | 0.644 | 0.609 | 12.61 |
| 70) | T  | Styrene               | 0.967          | 0.888 | 1.004 | 1.216 | 1.202 | 1.101 | 1.063 | 12.43 |
| 71) | P  | Bromoform             | 0.178          | 0.167 | 0.166 | 0.180 | 0.184 | 0.163 | 0.173 | 5.15  |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |
| 73) | T  | Isopropylbenzene      | 3.211          | 3.194 | 3.352 | 3.998 | 3.912 | 3.694 | 3.560 | 9.99  |
| 74) | T  | N-amyl acetate        | 0.726          | 0.677 | 0.689 | 0.840 | 0.904 | 0.806 | 0.774 | 11.72 |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.767          | 0.717 | 0.670 | 0.721 | 0.737 | 0.643 | 0.709 | 6.37  |
| 76) | T  | 1,2,3-Trichlor...     | 0.495          | 0.478 | 0.468 | 0.509 | 0.516 | 0.449 | 0.486 | 5.25  |
| 77) | T  | Bromobenzene          | 0.781          | 0.770 | 0.747 | 0.845 | 0.828 | 0.769 | 0.790 | 4.81  |
| 78) | T  | n-propylbenzene       | 4.077          | 4.014 | 4.329 | 5.152 | 4.956 | 4.557 | 4.514 | 10.29 |
| 79) | T  | 2-Chlorotoluene       | 2.559          | 2.466 | 2.518 | 2.922 | 2.825 | 2.634 | 2.654 | 6.83  |
| 80) | T  | 1,3,5-Trimethy...     | 2.769          | 2.619 | 2.919 | 3.408 | 3.327 | 3.076 | 3.020 | 10.28 |
| 81) | T  | trans-1,4-Dich...     | 0.177          | 0.160 | 0.174 | 0.183 | 0.209 | 0.182 | 0.181 | 8.94  |
| 82) | T  | 4-Chlorotoluene       | 2.707          | 2.649 | 2.676 | 3.027 | 2.932 | 2.719 | 2.785 | 5.59  |
| 83) | T  | tert-Butylbenzene     | 2.235          | 2.193 | 2.303 | 2.737 | 2.745 | 2.558 | 2.462 | 10.18 |
| 84) | T  | 1,2,4-Trimethy...     | 2.732          | 2.596 | 2.911 | 3.382 | 3.303 | 3.052 | 2.996 | 10.38 |
| 85) | T  | sec-Butylbenzene      | 3.424          | 3.547 | 3.662 | 4.389 | 4.247 | 3.944 | 3.869 | 10.10 |
| 86) | T  | p-Isopropyltol...     | 2.843          | 2.705 | 3.063 | 3.573 | 3.495 | 3.227 | 3.151 | 11.03 |
| 87) | T  | 1,3-Dichlorobe...     | 1.616          | 1.669 | 1.562 | 1.744 | 1.692 | 1.559 | 1.640 | 4.53  |
| 88) | T  | 1,4-Dichlorobe...     | 1.659          | 1.719 | 1.566 | 1.719 | 1.650 | 1.517 | 1.638 | 5.01  |
| 89) | T  | n-Butylbenzene        | 2.807          | 2.823 | 2.939 | 3.520 | 3.464 | 3.178 | 3.122 | 10.14 |
| 90) | T  | Hexachloroethane      | 0.588          | 0.686 | 0.587 | 0.685 | 0.669 | 0.633 | 0.641 | 7.15  |
| 91) | T  | 1,2-Dichlorobe...     | 1.409          | 1.423 | 1.350 | 1.504 | 1.466 | 1.334 | 1.414 | 4.64  |
| 92) | T  | 1,2-Dibromo-3-...     | 0.115          | 0.107 | 0.096 | 0.107 | 0.112 | 0.097 | 0.106 | 7.29  |
| 93) | T  | 1,2,4-Trichlor...     | 0.728          | 0.737 | 0.753 | 0.850 | 0.862 | 0.789 | 0.786 | 7.33  |
| 94) | T  | Hexachlorobuta...     | 0.438          | 0.511 | 0.459 | 0.503 | 0.484 | 0.449 | 0.474 | 6.28  |
| 95) | T  | Naphthalene           | 1.242          | 1.216 | 1.216 | 1.552 | 1.753 | 1.578 | 1.426 | 16.23 |
| 96) | T  | 1,2,3-Trichlor...     | 0.638          | 0.621 | 0.631 | 0.721 | 0.752 | 0.690 | 0.675 | 7.98  |

(#) = Out of Range