# Response Factor Report 7890

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\
Method File : 82N092318W.M
Title : SW846 8260
Last Update : Mon Sep 24 06:41:32 2018
Response Via : Initial Calibration

Calibration Files
5 =VN051397.D 20 =VN051398.D 50 =VN051393.D
100 =VN051394.D 150 =VN051395.D

| | | Compound | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | |
| 2) | T | Dichlorodifluoromet | 0.553 | 0.454 | 0.426 | 0.455 | 0.444 | 0.466 | 10.64 |
| 3) | P | Chloromethane | 0.848 | 0.741 | 0.678 | 0.732 | 0.714 | 0.743 | 8.59 |
| 4) | C | Vinyl Chloride | 0.908 | 0.806 | 0.750 | 0.820 | 0.813 | 0.820 | 6.93# |
| 5) | T | Bromomethane | 0.668 | 0.503 | 0.471 | 0.479 | 0.499 | 0.524 | 15.56 |
| 6) | T | Chloroethane | 0.566 | 0.510 | 0.488 | 0.489 | 0.501 | 0.511 | 6.31 |
| 7) | T | Trichlorofluorometh | 1.240 | 1.065 | 1.046 | 1.023 | 0.993 | 1.074 | 9.03 |
| 8) | T | Diethyl Ether | 0.437 | 0.305 | 0.377 | 0.328 | 0.320 | 0.353 | 15.31 |
| 9) | T | 1,1,2-Trichlorotrif | 0.731 | 0.550 | 0.665 | 0.557 | 0.526 | 0.606 | 14.52 |
| 10) | T | Methyl Iodide | 0.617 | 0.664 | 0.898 | 0.806 | 0.801 | 0.757 | 15.12 |
| 11) | T | Tert butyl alcohol | 0.035 | 0.032 | 0.038 | 0.035 | 0.036 | 0.035 | 5.83 |
| 12) | CM | 1,1-Dichloroethene | 0.677 | 0.498 | 0.594 | 0.512 | 0.500 | 0.556 | 14.09# |
| 13) | T | Acrolein | 0.034 | 0.030 | 0.041 | 0.037 | 0.034 | 0.035 | 10.86 |
| 14) | T | Allyl chloride | 0.897 | 0.859 | 1.072 | 0.928 | 0.911 | 0.933 | 8.74 |
| 15) | T | Acrylonitrile | 0.189 | 0.173 | 0.217 | 0.190 | 0.192 | 0.192 | 8.28 |
| 16) | T | Acetone | 0.179 | 0.131 | 0.164 | 0.134 | 0.127 | 0.147 | 15.48 |
| 17) | T | Carbon Disulfide | 1.812 | 1.476 | 1.816 | 1.544 | 1.523 | 1.634 | 10.16 |
| 18) | T | Methyl Acetate | 0.490 | 0.435 | 0.544 | 0.463 | 0.454 | 0.477 | 8.83 |
| 19) | T | Methyl tert-butyl E | 1.390 | 1.350 | 1.521 | 1.466 | 1.446 | 1.435 | 4.65 |
| 20) | T | Methylene Chloride | 0.650 | 0.583 | 0.702 | 0.587 | 0.577 | 0.620 | 8.79 |
| 21) | T | trans-1,2-Dichloroe | 0.601 | 0.540 | 0.605 | 0.557 | 0.544 | 0.569 | 5.50 |
| 22) | T | Diisopropyl ether | 1.769 | 1.801 | 1.752 | 1.867 | 1.831 | 1.804 | 2.57 |
| 23) | T | Vinyl Acetate | 1.135 | 1.126 | 1.148 | 1.262 | 1.252 | 1.184 | 5.63 |
| 24) | P | 1,1-Dichloroethane | 1.168 | 1.074 | 1.020 | 1.075 | 1.047 | 1.076 | 5.18 |
| 25) | T | 2-Butanone | 0.246 | 0.195 | 0.199 | 0.217 | 0.214 | 0.214 | 9.37 |
| 26) | T | 2,2-Dichloropropane | 0.909 | 0.819 | 0.786 | 0.854 | 0.834 | 0.840 | 5.44 |
| 27) | T | cis-1,2-Dichloroeth | 0.659 | 0.603 | 0.600 | 0.636 | 0.624 | 0.624 | 3.89 |
| 28) | T | Bromochloromethane | 0.525 | 0.493 | 0.480 | 0.495 | 0.492 | 0.497 | 3.33 |
| 29) | T | Tetrahydrofuran | 0.129 | 0.131 | 0.132 | 0.144 | 0.144 | 0.136 | 5.49 |
| 30) | C | Chloroform | 1.137 | 1.064 | 1.022 | 1.066 | 1.043 | 1.067 | 4.05# |
| 31) | T | Cyclohexane | 1.093 | 0.953 | 0.924 | 0.991 | 0.969 | 0.986 | 6.57 |
| 32) | T | 1,1,1-Trichloroetha | 0.937 | 0.906 | 0.870 | 0.934 | 0.913 | 0.912 | 2.94 |
| 33) | S | 1,2-Dichloroethane- | 0.717 | 0.578 | 0.581 | 0.629 | 0.626 | 0.626 | 8.98 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | |
| 35) | S | Dibromofluoromethan | 0.444 | 0.368 | 0.379 | 0.404 | 0.404 | 0.400 | 7.33 |
| 36) | T | 1,1-Dichloropropene | 0.598 | 0.547 | 0.557 | 0.605 | 0.589 | 0.579 | 4.46 |
| 37) | T | Ethyl Acetate | 0.346 | 0.300 | 0.326 | 0.347 | 0.346 | 0.333 | 6.12 |
| 38) | T | Carbon Tetrachlorid | 0.626 | 0.578 | 0.593 | 0.621 | 0.610 | 0.606 | 3.27 |
| 39) | T | Methylcyclohexane | 0.656 | 0.613 | 0.667 | 0.726 | 0.723 | 0.677 | 7.08 |
| 40) | TM | Benzene | 1.726 | 1.645 | 1.672 | 1.747 | 1.710 | 1.700 | 2.43 |
| 41) | T | Methacrylonitrile | 0.182 | 0.197 | 0.172 | 0.175 | 0.195 | 0.184 | 6.22 |
| 42) | TM | 1,2-Dichloroethane | 0.573 | 0.522 | 0.522 | 0.558 | 0.546 | 0.544 | 4.18 |
| 43) | T | Isopropyl Acetate | 0.580 | 0.571 | 0.574 | 0.642 | 0.643 | 0.602 | 6.10 |
| 44) | TM | Trichloroethene | 0.478 | 0.426 | 0.437 | 0.462 | 0.455 | 0.452 | 4.52 |
| 45) | C | 1,2-Dichloropropane | 0.477 | 0.443 | 0.454 | 0.472 | 0.465 | 0.462 | 3.02# |
| 46) | T | Dibromomethane | 0.265 | 0.249 | 0.254 | 0.270 | 0.268 | 0.261 | 3.59 |
| 47) | T | Bromodichloromethan | 0.590 | 0.548 | 0.565 | 0.596 | 0.591 | 0.578 | 3.54 |
| 48) | T | Methyl methacrylate | 0.285 | 0.269 | 0.291 | 0.325 | 0.331 | 0.300 | 8.94 |
| 49) | T | 1,4-Dioxane | 0.004 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 5.71 |
| 50) | S | Toluene-d8 | 1.579 | 1.340 | 1.433 | 1.543 | 1.633 | 1.506 | 7.83 |
| 51) | T | 4-Methyl-2-Pentanon | 0.325 | 0.303 | 0.320 | 0.344 | 0.363 | 0.331 | 6.99 |
| 52) | CM | Toluene | 1.038 | 0.994 | 1.019 | 1.096 | 1.136 | 1.057 | 5.51# |

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| | | Compound | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 53) | T | t-1,3-Dichloroprope | 0.563 | 0.523 | 0.560 | 0.631 | 0.640 | 0.583 | 8.58 |
| 54) | T | cis-1,3-Dichloropro | 0.650 | 0.626 | 0.659 | 0.719 | 0.729 | 0.677 | 6.68 |
| 55) | T | 1,1,2-Trichloroetha | 0.379 | 0.359 | 0.366 | 0.383 | 0.381 | 0.373 | 2.78 |
| 56) | T | Ethyl methacrylate | 0.394 | 0.406 | 0.453 | 0.511 | 0.519 | 0.457 | 12.60 |
| 57) | T | 1,3-Dichloropropane | 0.644 | 0.606 | 0.625 | 0.665 | 0.660 | 0.640 | 3.82 |
| 58) | T | 2-Chloroethyl Vinyl | 0.178 | 0.212 | 0.227 | 0.260 | 0.263 | 0.228 | 15.44 |
| 59) | T | 2-Hexanone | 0.214 | 0.190 | 0.208 | 0.231 | 0.230 | 0.215 | 7.82 |
| 60) | T | Dibromochloromethan | 0.436 | 0.409 | 0.430 | 0.464 | 0.463 | 0.441 | 5.32 |
| 61) | T | 1,2-Dibromoethane | 0.368 | 0.335 | 0.346 | 0.381 | 0.384 | 0.362 | 5.93 |
| 62) | S | 4-Bromofluorobenzen | 0.489 | 0.414 | 0.464 | 0.524 | 0.545 | 0.487 | 10.57 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | |
| 64) | T | Tetrachloroethene | 0.481 | 0.446 | 0.442 | 0.456 | 0.444 | 0.454 | 3.53 |
| 65) | PM | Chlorobenzene | 1.335 | 1.236 | 1.230 | 1.316 | 1.298 | 1.283 | 3.70 |
| 66) | T | 1,1,1,2-Tetrachloro | 0.505 | 0.479 | 0.470 | 0.500 | 0.490 | 0.489 | 3.01 |
| 67) | C | Ethyl Benzene | 2.059 | 2.045 | 2.133 | 2.305 | 2.268 | 2.162 | 5.50# |
| 68) | T | m/p-Xylenes | 0.787 | 0.809 | 0.836 | 0.878 | 0.871 | 0.836 | 4.71 |
| 69) | T | o-Xylene | 0.759 | 0.771 | 0.797 | 0.858 | 0.835 | 0.804 | 5.25 |
| 70) | T | Styrene | 1.139 | 1.190 | 1.276 | 1.396 | 1.368 | 1.274 | 8.69 |
| 71) | P | Bromoform | 0.320 | 0.317 | 0.319 | 0.354 | 0.348 | 0.332 | 5.44 |
| 72) | I | 1,4-Dichlorobenzene-d | ----------ISTD---------- | | | | | | |
| 73) | T | Isopropylbenzene | 4.522 | 4.260 | 4.067 | 4.140 | 4.105 | 4.219 | 4.37 |
| 74) | T | N-amyl acetate | 1.075 | 0.998 | 1.009 | 1.100 | 1.112 | 1.058 | 4.95 |
| 75) | P | 1,1,2,2-Tetrachloro | 1.162 | 1.006 | 0.917 | 0.938 | 0.896 | 0.984 | 10.94 |
| 76) | T | 1,2,3-Trichloroprop | 0.896 | 0.931 | 0.806 | 0.759 | 0.757 | 0.830 | 9.62 |
| 77) | T | Bromobenzene | 1.223 | 1.069 | 0.999 | 1.022 | 1.027 | 1.068 | 8.43 |
| 78) | T | n-propylbenzene | 4.900 | 4.720 | 4.631 | 4.759 | 4.763 | 4.755 | 2.04 |
| 79) | T | 2-Chlorotoluene | 3.176 | 2.881 | 2.699 | 2.767 | 2.706 | 2.846 | 6.98 |
| 80) | T | 1,3,5-Trimethylbenz | 3.504 | 3.536 | 3.369 | 3.415 | 3.375 | 3.440 | 2.22 |
| 81) | T | trans-1,4-Dichloro- | 0.268 | 0.249 | 0.256 | 0.282 | 0.294 | 0.270 | 6.76 |
| 82) | T | 4-Chlorotoluene | 3.065 | 2.829 | 2.708 | 2.811 | 2.790 | 2.841 | 4.71 |
| 83) | T | tert-Butylbenzene | 3.323 | 3.041 | 2.944 | 3.007 | 2.995 | 3.062 | 4.90 |
| 84) | T | 1,2,4-Trimethylbenz | 3.515 | 3.484 | 3.409 | 3.495 | 3.428 | 3.466 | 1.31 |
| 85) | T | sec-Butylbenzene | 4.369 | 4.108 | 3.999 | 4.142 | 4.093 | 4.142 | 3.31 |
| 86) | T | p-Isopropyltoluene | 3.552 | 3.551 | 3.510 | 3.653 | 3.656 | 3.584 | 1.85 |
| 87) | T | 1,3-Dichlorobenzene | 2.009 | 1.810 | 1.755 | 1.835 | 1.832 | 1.848 | 5.17 |
| 88) | T | 1,4-Dichlorobenzene | 1.910 | 1.693 | 1.716 | 1.791 | 1.781 | 1.778 | 4.76 |
| 89) | T | n-Butylbenzene | 2.803 | 2.720 | 2.909 | 3.135 | 3.170 | 2.947 | 6.76 |
| 90) | T | Hexachloroethane | 0.855 | 0.707 | 0.664 | 0.676 | 0.668 | 0.714 | 11.28 |
| 91) | T | 1,2-Dichlorobenzene | 1.984 | 1.796 | 1.712 | 1.759 | 1.715 | 1.793 | 6.25 |
| 92) | T | 1,2-Dibromo-3-Chlor | 0.153 | 0.139 | 0.132 | 0.139 | 0.140 | 0.140 | 5.43 |
| 93) | T | 1,2,4-Trichlorobenz | 0.648 | 0.754 | 0.871 | 1.011 | 1.074 | 0.872 | 20.21 |
| 94) | T | Hexachlorobutadiene | 0.816 | 0.668 | 0.641 | 0.642 | 0.625 | 0.678 | 11.58 |
| 95) | T | Naphthalene | 1.148 | 1.269 | 1.597 | 1.966 | 2.155 | 1.627 | 26.67 |
| 96) | T | 1,2,3-Trichlorobenz | 0.720 | 0.765 | 0.857 | 0.954 | 1.006 | 0.861 | 14.11 |

(#) = Out of Range