# Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N061322W.M
Title : SW846 8260
Last Update : Mon Jun 13 14:03:11 2022
Response Via : Initial Calibration

Calibration Files
1 =VN072796.D 5 =VN072797.D 20 =VN072798.D 50 =VN072799.D 100 =VN072800.D 150 =VN072801.D

| | | Compound | 1 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ---------- | ISTD | ---------- | | | | | |
| 2) | T | Dichlorodifluo... | 0.898 | 0.879 | 0.746 | 0.739 | 0.701 | 0.724 | 0.781 | 10.86 |
| 3) | P | Chloromethane | 1.274 | 1.096 | 0.793 | 0.767 | 0.730 | 0.748 | 0.901 | 25.27 |
| 4) | C | Vinyl Chloride | 1.091 | 1.043 | 0.858 | 0.823 | 0.784 | 0.792 | 0.899 | 14.92# |
| 5) | T | Bromomethane | | 0.440 | 0.355 | 0.337 | 0.331 | 0.342 | 0.361 | 12.42 |
| 6) | T | Chloroethane | 0.835 | 0.788 | 0.607 | 0.583 | 0.543 | 0.549 | 0.651 | 19.57 |
| 7) | T | Trichlorofluor... | 1.489 | 1.618 | 1.351 | 1.338 | 1.279 | 1.303 | 1.396 | 9.37 |
| 8) | T | Diethyl Ether | 0.562 | 0.637 | 0.521 | 0.523 | 0.511 | 0.530 | 0.547 | 8.65 |
| 9) | T | 1,1,2-Trichlor... | 0.883 | 0.892 | 0.718 | 0.728 | 0.699 | 0.709 | 0.771 | 11.71 |
| 10) | T | Methyl Iodide | | 0.461 | 0.490 | 0.545 | 0.578 | 0.581 | 0.531 | 10.15 |
| 11) | T | Tert butyl alc... | | 1.401 | 1.299 | 1.360 | 1.353 | 1.466 | 1.376 | 4.50 |
| 12) | CM | 1,1-Dichloroet... | 0.827 | 0.793 | 0.640 | 0.640 | 0.628 | 0.641 | 0.695 | 12.95# |
| 13) | T | Acrolein | | 0.099 | 0.064 | 0.065 | 0.064 | 0.066 | 0.072 | 21.34 |
| 14) | T | Allyl chloride | 1.860 | 1.785 | 1.526 | 1.512 | 1.479 | 1.534 | 1.616 | 10.09 |
| 15) | T | Acrylonitrile | 0.638 | 0.654 | 0.652 | 0.647 | 0.647 | 0.669 | 0.651 | 1.59 |
| 16) | T | Acetone | 0.777 | 0.634 | 0.600 | 0.600 | 0.588 | 0.615 | 0.636 | 11.15 |
| 17) | T | Carbon Disulfide | 2.273 | 2.160 | 1.402 | 1.372 | 1.363 | 1.417 | 1.665 | 25.79 |
| 18) | T | Methyl Acetate | 1.889 | 1.736 | 1.633 | 1.611 | 1.536 | 1.621 | 1.671 | 7.47 |
| 19) | T | Methyl tert-bu... | 3.413 | 3.506 | 3.176 | 3.136 | 3.053 | 3.156 | 3.240 | 5.48 |
| 20) | T | Methylene Chlo... | 1.384 | 1.189 | 0.926 | 0.867 | 0.829 | 0.849 | 1.008 | 22.54 |
| 21) | T | trans-1,2-Dich... | 0.942 | 0.942 | 0.717 | 0.692 | 0.677 | 0.705 | 0.779 | 16.28 |
| 22) | T | Diisopropyl ether | 3.499 | 3.541 | 3.358 | 3.293 | 3.258 | 3.355 | 3.384 | 3.33 |
| 23) | T | Vinyl Acetate | 3.083 | 3.192 | 2.979 | 3.024 | 3.000 | 3.091 | 3.061 | 2.55 |
| 24) | P | 1,1-Dichloroet... | 1.938 | 1.933 | 1.742 | 1.674 | 1.649 | 1.682 | 1.770 | 7.45 |
| 25) | T | 2-Butanone | 1.066 | 0.998 | 0.966 | 0.985 | 0.964 | 1.003 | 0.997 | 3.75 |
| 26) | T | 2,2-Dichloropr... | 2.091 | 1.734 | 1.508 | 1.503 | 1.481 | 1.509 | 1.638 | 14.73 |
| 27) | T | cis-1,2-Dichlo... | 1.092 | 1.067 | 0.965 | 0.949 | 0.914 | 0.936 | 0.987 | 7.48 |
| 28) | T | Bromochloromet... | 0.790 | 0.890 | 0.855 | 0.854 | 0.881 | 0.839 | 0.852 | 4.16 |
| 29) | T | Tetrahydrofuran | 0.614 | 0.643 | 0.610 | 0.616 | 0.603 | 0.621 | 0.618 | 2.20 |
| 30) | C | Chloroform | 1.927 | 2.019 | 1.819 | 1.771 | 1.719 | 1.772 | 1.838 | 6.16# |
| 31) | T | Cyclohexane | | 2.063 | 1.420 | 1.352 | 1.265 | 1.306 | 1.481 | 22.29 |
| 32) | T | 1,1,1-Trichlor... | 1.816 | 1.726 | 1.556 | 1.558 | 1.533 | 1.563 | 1.625 | 7.19 |
| 33) | S | 1,2-Dichloroet... | | 1.505 | 1.420 | 1.337 | 1.352 | 1.386 | 1.400 | 4.77 |
| 34) | I | 1,4-Difluorobenzene | ---------- | ISTD | ---------- | | | | | |
| 35) | S | Dibromofluorom... | | 0.512 | 0.504 | 0.490 | 0.480 | 0.505 | 0.498 | 2.59 |
| 36) | T | 1,1-Dichloropr... | 0.830 | 0.770 | 0.639 | 0.652 | 0.620 | 0.652 | 0.694 | 12.28 |
| 37) | T | Ethyl Acetate | 1.213 | 1.036 | 1.044 | 1.032 | 0.993 | 1.044 | 1.060 | 7.29 |
| 38) | T | Carbon Tetrach... | 0.779 | 0.788 | 0.699 | 0.700 | 0.676 | 0.722 | 0.727 | 6.30 |
| 39) | T | Methylcyclohexane | 0.903 | 0.889 | 0.736 | 0.743 | 0.708 | 0.740 | 0.786 | 10.92 |
| 40) | TM | Benzene | 2.223 | 2.280 | 2.008 | 1.984 | 1.873 | 1.968 | 2.056 | 7.74 |
| 41) | T | Methacrylonitrile | 0.489 | 0.535 | 0.470 | 0.549 | 0.487 | 0.517 | 0.508 | 6.05 |
| 42) | TM | 1,2-Dichloroet... | 0.943 | 0.967 | 0.886 | 0.867 | 0.809 | 0.857 | 0.888 | 6.52 |
| 43) | T | Isopropyl Acetate | 1.699 | 1.626 | 1.625 | 1.633 | 1.582 | 1.682 | 1.641 | 2.61 |
| 44) | TM | Trichloroethene | 0.494 | 0.500 | 0.458 | 0.458 | 0.437 | 0.459 | 0.468 | 5.22 |
| 45) | C | 1,2-Dichloropr... | 0.641 | 0.600 | 0.582 | 0.555 | 0.531 | 0.561 | 0.578 | 6.66# |
| 46) | T | Dibromomethane | 0.401 | 0.408 | 0.382 | 0.386 | 0.364 | 0.387 | 0.388 | 3.99 |
| 47) | T | Bromodichlorom... | 0.764 | 0.846 | 0.809 | 0.809 | 0.785 | 0.826 | 0.806 | 3.62 |
| 48) | T | Methyl methacr... | 0.763 | 0.805 | 0.697 | 0.744 | 0.727 | 0.834 | 0.762 | 6.68 |
| 49) | T | 1,4-Dioxane | 0.010 | 0.014 | 0.013 | 0.014 | 0.014 | 0.014 | 0.013 | 13.05 |
| 50) | S | Toluene-d8 | | 1.994 | 1.994 | 1.984 | 1.974 | 2.054 | 2.000 | 1.57 |
| 51) | T | 4-Methyl-2-Pen... | 0.970 | 1.072 | 1.095 | 1.130 | 1.096 | 1.169 | 1.089 | 6.18 |
| 52) | CM | Toluene | 1.275 | 1.448 | 1.295 | 1.284 | 1.234 | 1.293 | 1.305 | 5.63# |
| 53) | T | t-1,3-Dichloro... | 0.767 | 0.786 | 0.832 | 0.886 | 0.893 | 0.968 | 0.856 | 8.79 |
| 54) | T | cis-1,3-Dichlo... | 0.885 | 0.907 | 0.904 | 0.907 | 0.894 | 0.951 | 0.908 | 2.49 |
| 55) | T | 1,1,2-Trichlor... | 0.563 | 0.552 | 0.567 | 0.549 | 0.526 | 0.560 | 0.553 | 2.68 |
| 56) | T | Ethyl methacry... | 0.882 | 0.925 | 0.925 | 0.995 | 0.998 | 1.070 | 0.966 | 7.04 |

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Method File : 82N061322W.M

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|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 1.024 | 1.027 | 0.983 | 0.970 | 0.944 | 1.010 | 0.993 | 3.30 |
| 58) | T | 2-Chloroethyl ... | 1.554 | 1.899 | 2.017 | 2.245 | 2.149 | 2.390 | 2.042 | 14.42 |
| 59) | T | 2-Hexanone | 0.696 | 0.789 | 0.789 | 0.861 | 0.833 | 0.870 | 0.806 | 7.99 |
| 60) | T | Dibromochlorom... | 0.530 | 0.547 | 0.576 | 0.596 | 0.583 | 0.616 | 0.575 | 5.51 |
| 61) | T | 1,2-Dibromoethane | 0.514 | 0.587 | 0.551 | 0.561 | 0.553 | 0.583 | 0.558 | 4.73 |
| 62) | S | 4-Bromofluorob... | | 0.661 | 0.645 | 0.704 | 0.737 | 0.786 | 0.707 | 8.09 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.424 | 0.427 | 0.398 | 0.364 | 0.342 | 0.341 | 0.383 | 10.26 |
| 65) | PM | Chlorobenzene | 1.469 | 1.380 | 1.290 | 1.282 | 1.226 | 1.263 | 1.318 | 6.79 |
| 66) | T | 1,1,1,2-Tetrac... | 0.519 | 0.490 | 0.516 | 0.514 | 0.480 | 0.496 | 0.503 | 3.19 |
| 67) | C | Ethyl Benzene | 2.518 | 2.578 | 2.476 | 2.447 | 2.337 | 2.416 | 2.462 | 3.39# |
| 68) | T | m/p-Xylenes | 0.898 | 0.940 | 0.857 | 0.870 | 0.844 | 0.874 | 0.881 | 3.90 |
| 69) | T | o-Xylene | 0.877 | 0.918 | 0.888 | 0.890 | 0.861 | 0.884 | 0.886 | 2.11 |
| 70) | T | Styrene | 1.287 | 1.449 | 1.380 | 1.439 | 1.419 | 1.493 | 1.411 | 5.05 |
| 71) | P | Bromoform | 0.328 | 0.371 | 0.355 | 0.381 | 0.375 | 0.384 | 0.366 | 5.76 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 5.676 | 5.555 | 5.066 | 4.811 | 4.674 | 4.797 | 5.096 | 8.31 |
| 74) | T | N-amyl acetate | 2.300 | 2.471 | 2.431 | 2.512 | 2.461 | 2.489 | 2.444 | 3.09 |
| 75) | P | 1,1,2,2-Tetrac... | 2.056 | 1.980 | 1.827 | 1.751 | 1.608 | 1.568 | 1.798 | 10.90 |
| 76) | T | 1,2,3-Trichlor... | 2.029 | 1.692 | 1.807 | 1.482 | 1.645 | 1.642 | 1.716 | 10.81 |
| 77) | T | Bromobenzene | 1.166 | 1.119 | 1.010 | 0.947 | 0.937 | 0.955 | 1.022 | 9.54 |
| 78) | T | n-propylbenzene | 5.630 | 6.157 | 5.619 | 5.480 | 5.465 | 5.695 | 5.675 | 4.46 |
| 79) | T | 2-Chlorotoluene | 3.916 | 3.858 | 3.512 | 3.356 | 3.301 | 3.386 | 3.555 | 7.51 |
| 80) | T | 1,3,5-Trimethy... | 4.354 | 4.473 | 4.212 | 3.927 | 3.832 | 3.923 | 4.120 | 6.40 |
| 81) | T | trans-1,4-Dich... | | 0.504 | 0.543 | 0.580 | 0.586 | 0.601 | 0.563 | 6.97 |
| 82) | T | 4-Chlorotoluene | 3.462 | 3.665 | 3.249 | 3.125 | 3.120 | 3.251 | 3.312 | 6.43 |
| 83) | T | tert-Butylbenzene | 4.065 | 4.077 | 3.626 | 3.450 | 3.365 | 3.443 | 3.671 | 8.75 |
| 84) | T | 1,2,4-Trimethy... | 3.909 | 4.312 | 3.988 | 3.892 | 3.786 | 3.853 | 3.957 | 4.71 |
| 85) | T | sec-Butylbenzene | 4.888 | 5.203 | 4.942 | 4.836 | 4.729 | 4.892 | 4.915 | 3.23 |
| 86) | T | p-Isopropyltol... | 3.367 | 4.167 | 3.871 | 3.834 | 3.791 | 3.942 | 3.829 | 6.85 |
| 87) | T | 1,3-Dichlorobe... | 1.909 | 1.882 | 1.696 | 1.678 | 1.649 | 1.705 | 1.753 | 6.41 |
| 88) | T | 1,4-Dichlorobe... | 1.901 | 1.877 | 1.702 | 1.663 | 1.591 | 1.648 | 1.730 | 7.40 |
| 89) | T | n-Butylbenzene | 2.994 | 3.238 | 3.096 | 3.243 | 3.362 | 3.552 | 3.247 | 6.05 |
| 90) | T | Hexachloroethane | 0.909 | 0.834 | 0.796 | 0.787 | 0.777 | 0.808 | 0.819 | 5.90 |
| 91) | T | 1,2-Dichlorobe... | 1.918 | 1.832 | 1.765 | 1.677 | 1.589 | 1.638 | 1.736 | 7.20 |
| 92) | T | 1,2-Dibromo-3-... | 0.346 | 0.392 | 0.409 | 0.400 | 0.394 | 0.425 | 0.394 | 6.74 |
| 93) | T | 1,2,4-Trichlor... | 0.664 | 0.737 | 0.800 | 0.812 | 0.823 | 0.892 | 0.788 | 9.96 |
| 94) | T | Hexachlorobuta... | 0.413 | 0.409 | 0.377 | 0.363 | 0.349 | 0.362 | 0.379 | 7.01 |
| 95) | T | Naphthalene | 2.451 | 2.659 | 3.187 | 3.336 | 3.379 | 3.635 | 3.108 | 14.69 |
| 96) | T | 1,2,3-Trichlor... | 0.699 | 0.793 | 0.819 | 0.853 | 0.851 | 0.905 | 0.820 | 8.55 |

(#) = Out of Range