# Response Factor Report VOC_U

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
Method File : 82U040921W.M
Title : SW846 8260
Last Update : Fri Apr 09 09:26:47 2021
Response Via : Initial Calibration

Calibration Files
1 =VU042990.D 5 =VU042991.D 20 =VU042992.D 50 =VU042993.D 100 =VU042994.D 150 =VU042995.D

| | | Compound | 1 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.381 | 0.475 | 0.474 | 0.480 | 0.522 | 0.517 | 0.475 | 10.70 |
| 3) | P | Chloromethane | 0.924 | 0.685 | 0.543 | 0.563 | 0.560 | 0.555 | 0.638 | 23.41 |
| 4) | C | Vinyl Chloride | 0.472 | 0.532 | 0.512 | 0.540 | 0.562 | 0.558 | 0.530 | 6.30# |
| 5) | T | Bromomethane | | 0.429 | 0.318 | 0.333 | 0.260 | 0.247 | 0.317 | 22.76 |
| 6) | T | Chloroethane | 0.356 | 0.505 | 0.358 | 0.367 | 0.387 | 0.379 | 0.392 | 14.40 |
| 7) | T | Trichlorofluor... | 0.894 | 0.972 | 0.872 | 0.916 | 0.931 | 0.912 | 0.916 | 3.71 |
| 8) | T | Diethyl Ether | 0.244 | 0.323 | 0.286 | 0.302 | 0.301 | 0.306 | 0.294 | 9.20 |
| 9) | T | 1,1,2-Trichlor... | 0.441 | 0.500 | 0.441 | 0.468 | 0.486 | 0.490 | 0.471 | 5.40 |
| 10) | T | Methyl Iodide | | 0.610 | 0.575 | 0.666 | 0.700 | 0.672 | 0.645 | 7.91 |
| 11) | T | Tert butyl alc... | | 0.214 | 0.207 | 0.215 | 0.231 | 0.244 | 0.222 | 6.78 |
| 12) | CM | 1,1-Dichloroet... | 0.468 | 0.494 | 0.425 | 0.441 | 0.461 | 0.475 | 0.461 | 5.36# |
| 13) | T | Acrolein | | 0.083 | 0.133 | 0.152 | 0.163 | 0.178 | 0.142 | 25.81 |
| 14) | T | Allyl chloride | 0.861 | 1.082 | 0.972 | 1.087 | 1.140 | 1.203 | 1.058 | 11.59 |
| 15) | T | Acrylonitrile | 0.346 | 0.451 | 0.414 | 0.457 | 0.475 | 0.497 | 0.440 | 12.17 |
| 16) | T | Acetone | 0.427 | 0.473 | 0.426 | 0.459 | 0.468 | 0.497 | 0.458 | 6.06 |
| 17) | T | Carbon Disulfide | 1.293 | 1.370 | 1.206 | 1.272 | 1.344 | 1.402 | 1.315 | 5.47 |
| 18) | T | Methyl Acetate | 0.888 | 1.011 | 1.000 | 1.069 | 1.120 | 1.184 | 1.045 | 9.89 |
| 19) | T | Methyl tert-bu... | 1.620 | 1.864 | 1.654 | 1.843 | 1.943 | 1.967 | 1.815 | 8.04 |
| 20) | T | Methylene Chlo... | 0.698 | 0.601 | 0.520 | 0.548 | 0.573 | 0.581 | 0.587 | 10.45 |
| 21) | T | trans-1,2-Dich... | 0.483 | 0.552 | 0.478 | 0.527 | 0.538 | 0.551 | 0.521 | 6.34 |
| 22) | T | Diisopropyl ether | 1.778 | 2.136 | 1.918 | 2.165 | 2.342 | 2.270 | 2.101 | 10.21 |
| 23) | T | Vinyl Acetate | 1.610 | 1.965 | 1.834 | 2.111 | 2.302 | 2.277 | 2.017 | 13.29 |
| 24) | P | 1,1-Dichloroet... | 0.878 | 1.056 | 0.955 | 1.071 | 1.102 | 1.127 | 1.032 | 9.25 |
| 25) | T | 2-Butanone | 0.599 | 0.734 | 0.675 | 0.767 | 0.804 | 0.815 | 0.732 | 11.27 |
| 26) | T | 2,2-Dichloropr... | 0.797 | 0.953 | 0.880 | 0.930 | 0.983 | 0.979 | 0.920 | 7.76 |
| 27) | T | cis-1,2-Dichlo... | 0.453 | 0.599 | 0.560 | 0.614 | 0.643 | 0.640 | 0.585 | 12.19 |
| 28) | T | Bromochloromet... | 0.432 | 0.613 | 0.482 | 0.548 | 0.582 | 0.584 | 0.540 | 12.86 |
| 29) | T | Tetrahydrofuran | 0.411 | 0.465 | 0.420 | 0.491 | 0.517 | 0.509 | 0.469 | 9.64 |
| 30) | C | Chloroform | 1.037 | 1.148 | 1.014 | 1.146 | 1.183 | 1.152 | 1.113 | 6.27# |
| 31) | T | Cyclohexane | | 1.075 | 0.905 | 0.958 | 0.998 | 0.990 | 0.985 | 6.30 |
| 32) | T | 1,1,1-Trichlor... | 0.749 | 0.966 | 0.918 | 1.013 | 1.063 | 1.028 | 0.956 | 11.84 |
| 33) | S | 1,2-Dichloroet... | | 0.925 | 0.719 | 0.786 | 0.826 | 0.831 | 0.817 | 9.18 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | | 0.425 | 0.309 | 0.346 | 0.373 | 0.372 | 0.365 | 11.62 |
| 36) | T | 1,1-Dichloropr... | 0.393 | 0.497 | 0.457 | 0.524 | 0.546 | 0.530 | 0.491 | 11.69 |
| 37) | T | Ethyl Acetate | 0.741 | 0.797 | 0.804 | 0.877 | 0.939 | 0.915 | 0.845 | 9.11 |
| 38) | T | Carbon Tetrach... | 0.467 | 0.543 | 0.502 | 0.565 | 0.598 | 0.569 | 0.541 | 8.87 |
| 39) | T | Methylcyclohexane | 0.430 | 0.546 | 0.504 | 0.561 | 0.616 | 0.592 | 0.541 | 12.37 |
| 40) | TM | Benzene | 1.283 | 1.442 | 1.342 | 1.486 | 1.566 | 1.500 | 1.436 | 7.35 |
| 41) | T | Methacrylonitrile | 0.350 | 0.442 | 0.422 | 0.475 | 0.517 | 0.495 | 0.450 | 13.35 |
| 42) | TM | 1,2-Dichloroet... | 0.538 | 0.663 | 0.604 | 0.671 | 0.694 | 0.655 | 0.637 | 8.95 |
| 43) | T | Isopropyl Acetate | 0.994 | 1.211 | 1.122 | 1.291 | 1.382 | 1.364 | 1.227 | 12.23 |
| 44) | TM | Trichloroethene | 0.367 | 0.360 | 0.341 | 0.371 | 0.401 | 0.386 | 0.371 | 5.64 |
| 45) | C | 1,2-Dichloropr... | 0.355 | 0.399 | 0.372 | 0.418 | 0.439 | 0.428 | 0.402 | 8.20# |
| 46) | T | Dibromomethane | 0.222 | 0.288 | 0.262 | 0.297 | 0.305 | 0.298 | 0.279 | 11.33 |
| 47) | T | Bromodichlorom... | 0.462 | 0.557 | 0.511 | 0.585 | 0.630 | 0.604 | 0.558 | 11.19 |
| 48) | T | Methyl methacr... | 0.445 | 0.621 | 0.587 | 0.665 | 0.723 | 0.710 | 0.625 | 16.34 |
| 49) | T | 1,4-Dioxane | 0.008 | 0.011 | 0.012 | 0.013 | 0.014 | 0.013 | 0.012 | 20.36 |
| 50) | S | Toluene-d8 | | 1.416 | 1.142 | 1.269 | 1.400 | 1.351 | 1.315 | 8.57 |
| 51) | T | 4-Methyl-2-Pen... | 0.677 | 0.866 | 0.859 | 1.006 | 1.123 | 1.074 | 0.934 | 17.72 |
| 52) | CM | Toluene | 0.743 | 0.886 | 0.843 | 0.964 | 1.023 | 0.951 | 0.902 | 11.07# |
| 53) | T | t-1,3-Dichloro... | 0.492 | 0.545 | 0.565 | 0.662 | 0.728 | 0.718 | 0.618 | 15.85 |
| 54) | T | cis-1,3-Dichlo... | 0.446 | 0.584 | 0.585 | 0.682 | 0.724 | 0.707 | 0.621 | 16.88 |
| 55) | T | 1,1,2-Trichlor... | 0.300 | 0.380 | 0.361 | 0.410 | 0.437 | 0.420 | 0.385 | 12.97 |
| 56) | T | Ethyl methacry... | 0.453 | 0.561 | 0.588 | 0.707 | 0.807 | 0.778 | 0.649 | 21.21 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.520 | 0.657 | 0.619 | 0.719 | 0.766 | 0.728 | 0.668 | 13.42 |
| 58) | T | 2-Chloroethyl ... | 0.210 | 0.219 | 0.229 | 0.278 | 0.318 | 0.319 | 0.262 | 18.91 |
| 59) | T | 2-Hexanone | 0.531 | 0.715 | 0.711 | 0.850 | 0.929 | 0.880 | 0.769 | 19.03 |
| 60) | T | Dibromochlorom... | 0.329 | 0.400 | 0.399 | 0.481 | 0.531 | 0.517 | 0.443 | 17.90 |
| 61) | T | 1,2-Dibromoethane | 0.340 | 0.423 | 0.408 | 0.472 | 0.506 | 0.481 | 0.438 | 13.83 |
| 62) | S | 4-Bromofluorob... | | 0.486 | 0.438 | 0.540 | 0.615 | 0.608 | 0.537 | 14.22 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.277 | 0.360 | 0.317 | 0.329 | 0.342 | 0.330 | 0.326 | 8.51 |
| 65) | PM | Chlorobenzene | 0.949 | 1.046 | 0.963 | 1.044 | 1.094 | 1.066 | 1.027 | 5.67 |
| 66) | T | 1,1,1,2-Tetrac... | 0.363 | 0.389 | 0.364 | 0.420 | 0.442 | 0.443 | 0.403 | 9.10 |
| 67) | C | Ethyl Benzene | 1.536 | 1.862 | 1.719 | 1.945 | 2.040 | 1.961 | 1.844 | 10.09# |
| 68) | T | m/p-Xylenes | 0.526 | 0.676 | 0.644 | 0.725 | 0.753 | 0.723 | 0.675 | 12.24 |
| 69) | T | o-Xylene | 0.503 | 0.636 | 0.628 | 0.702 | 0.743 | 0.712 | 0.654 | 13.23 |
| 70) | T | Styrene | 0.852 | 1.083 | 1.080 | 1.224 | 1.337 | 1.299 | 1.146 | 15.64 |
| 71) | P | Bromoform | 0.262 | 0.368 | 0.365 | 0.427 | 0.479 | 0.475 | 0.396 | 20.77 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 2.678 | 3.360 | 3.020 | 3.217 | 3.391 | 3.421 | 3.181 | 9.05 |
| 74) | T | N-amyl acetate | 1.545 | 1.897 | 1.808 | 2.024 | 2.233 | 2.232 | 1.957 | 13.56 |
| 75) | P | 1,1,2,2-Tetrac... | 1.355 | 1.495 | 1.341 | 1.428 | 1.501 | 1.455 | 1.429 | 4.80 |
| 76) | T | 1,2,3-Trichlor... | 1.349 | 1.474 | 1.307 | 1.500 | 1.503 | 1.424 | 1.426 | 5.77 |
| 77) | T | Bromobenzene | 0.726 | 0.873 | 0.831 | 0.876 | 0.937 | 0.940 | 0.864 | 9.16 |
| 78) | T | n-propylbenzene | 3.299 | 3.828 | 3.619 | 4.016 | 4.199 | 4.210 | 3.862 | 9.24 |
| 79) | T | 2-Chlorotoluene | 2.087 | 2.363 | 2.185 | 2.384 | 2.520 | 2.482 | 2.337 | 7.24 |
| 80) | T | 1,3,5-Trimethy... | 2.130 | 2.890 | 2.706 | 2.968 | 3.113 | 3.081 | 2.814 | 13.01 |
| 81) | T | trans-1,4-Dich... | | 0.377 | 0.396 | 0.472 | 0.534 | 0.549 | 0.466 | 16.78 |
| 82) | T | 4-Chlorotoluene | 2.237 | 2.881 | 2.636 | 2.891 | 3.039 | 3.004 | 2.781 | 10.86 |
| 83) | T | tert-Butylbenzene | 2.353 | 2.883 | 2.643 | 2.901 | 3.050 | 3.049 | 2.813 | 9.61 |
| 84) | T | 1,2,4-Trimethy... | 2.417 | 2.947 | 2.765 | 3.025 | 3.198 | 3.130 | 2.914 | 9.83 |
| 85) | T | sec-Butylbenzene | 2.717 | 3.339 | 3.124 | 3.392 | 3.596 | 3.532 | 3.283 | 9.83 |
| 86) | T | p-Isopropyltol... | 2.166 | 3.015 | 2.854 | 3.169 | 3.334 | 3.272 | 2.968 | 14.49 |
| 87) | T | 1,3-Dichlorobe... | 1.485 | 1.668 | 1.532 | 1.645 | 1.708 | 1.675 | 1.619 | 5.50 |
| 88) | T | 1,4-Dichlorobe... | 1.562 | 1.712 | 1.525 | 1.653 | 1.732 | 1.681 | 1.644 | 5.07 |
| 89) | T | n-Butylbenzene | 1.842 | 2.746 | 2.592 | 2.979 | 3.168 | 3.140 | 2.745 | 18.07 |
| 90) | T | Hexachloroethane | 0.358 | 0.593 | 0.526 | 0.576 | 0.618 | 0.614 | 0.548 | 18.06 |
| 91) | T | 1,2-Dichlorobe... | 1.363 | 1.751 | 1.532 | 1.642 | 1.698 | 1.632 | 1.603 | 8.64 |
| 92) | T | 1,2-Dibromo-3-... | 0.247 | 0.374 | 0.351 | 0.391 | 0.420 | 0.418 | 0.367 | 17.59 |
| 93) | T | 1,2,4-Trichlor... | 0.791 | 0.929 | 0.927 | 1.043 | 1.149 | 1.158 | 1.000 | 14.37 |
| 94) | T | Hexachlorobuta... | 0.523 | 0.616 | 0.508 | 0.531 | 0.555 | 0.547 | 0.547 | 6.93 |
| 95) | T | Naphthalene | 2.190 | 2.413 | 2.712 | 3.307 | 3.765 | 3.751 | 3.023 | 22.55 |
| 96) | T | 1,2,3-Trichlor... | 0.844 | 0.905 | 0.936 | 1.037 | 1.127 | 1.113 | 0.994 | 11.70 |

(#) = Out of Range