# Response Factor Report MSVOA_D

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
Method File : 82D090821S.M
Title : SW846 8260
Last Update : Thu Sep 09 03:07:09 2021
Response Via : Initial Calibration

Calibration Files
10 =VD070287.D 5 =VD070286.D 20 =VD070288.D 50 =VD070289.D 100 =VD070290.D 150 =VD070291.D

| | | Compound | 10 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.671 | 0.715 | 0.623 | 0.472 | 0.505 | 0.460 | 0.574 | 19.03 |
| 3) | P | Chloromethane | 0.894 | 0.964 | 0.813 | 0.636 | 0.691 | 0.625 | 0.771 | 18.37 |
| 4) | C | Vinyl Chloride | 0.893 | 0.943 | 0.809 | 0.682 | 0.728 | 0.664 | 0.787 | 14.58# |
| 5) | T | Bromomethane | 0.670 | 0.874 | 0.569 | 0.449 | 0.482 | 0.434 | 0.580 | 29.15 |
| 6) | T | Chloroethane | 0.593 | 0.724 | 0.547 | 0.442 | 0.498 | 0.440 | 0.541 | 19.97 |
| 7) | T | Trichlorofluor... | 1.175 | 1.252 | 1.063 | 0.958 | 0.946 | 0.848 | 1.041 | 14.64 |
| 8) | T | Diethyl Ether | 0.276 | 0.290 | 0.286 | 0.287 | 0.300 | 0.286 | 0.288 | 2.62 |
| 9) | T | 1,1,2-Trichlor... | 0.713 | 0.796 | 0.653 | 0.602 | 0.585 | 0.529 | 0.646 | 14.95 |
| 10) | T | Methyl Iodide | 0.485 | 0.448 | 0.541 | 0.633 | 0.672 | 0.606 | 0.564 | 15.56 |
| 11) | T | Tert butyl alc... | 0.124 | 0.086 | 0.095 | 0.050 | 0.042 | 0.039 | 0.073 | 47.38 |
| 12) | CM | 1,1-Dichloroet... | 0.620 | 0.645 | 0.578 | 0.560 | 0.574 | 0.515 | 0.582 | 7.89# |
| 13) | T | Acrolein | 0.029 | 0.038 | 0.034 | 0.030 | 0.030 | 0.030 | 0.032 | 11.19 |
| 14) | T | Allyl chloride | 0.834 | 0.842 | 0.876 | 0.802 | 0.928 | 0.851 | 0.855 | 5.01 |
| 15) | T | Acrylonitrile | 0.138 | 0.149 | 0.140 | 0.129 | 0.135 | 0.133 | 0.137 | 5.04 |
| 16) | T | Acetone | 0.129 | 0.139 | 0.107 | 0.103 | 0.107 | 0.102 | 0.115 | 13.55 |
| 17) | T | Carbon Disulfide | 2.358 | 2.528 | 2.193 | 1.981 | 2.018 | 1.809 | 2.148 | 12.32 |
| 18) | T | Methyl Acetate | 0.359 | 0.438 | 0.351 | 0.293 | 0.313 | 0.309 | 0.344 | 15.34 |
| 19) | T | Methyl tert-bu... | 1.216 | 1.226 | 1.214 | 1.286 | 1.329 | 1.277 | 1.258 | 3.72 |
| 20) | T | Methylene Chlo... | 1.056 | 1.518 | 0.851 | 0.724 | 0.702 | 0.627 | 0.913 | 36.40 |
| 21) | T | trans-1,2-Dich... | 0.719 | 0.788 | 0.696 | 0.670 | 0.681 | 0.603 | 0.693 | 8.78 |
| 22) | T | Diisopropyl ether | 1.829 | 1.661 | 1.924 | 1.781 | 1.977 | 1.813 | 1.831 | 6.06 |
| 23) | T | Vinyl Acetate | 0.770 | 0.772 | 0.830 | 0.826 | 0.959 | 0.931 | 0.848 | 9.41 |
| 24) | P | 1,1-Dichloroet... | 1.396 | 1.535 | 1.299 | 1.187 | 1.244 | 1.112 | 1.295 | 11.73 |
| 25) | T | 2-Butanone | 0.156 | 0.158 | 0.153 | 0.139 | 0.155 | 0.153 | 0.153 | 4.53 |
| 26) | T | 2,2-Dichloropr... | 1.114 | 1.273 | 1.039 | 0.952 | 1.002 | 0.902 | 1.047 | 12.65 |
| 27) | T | cis-1,2-Dichlo... | 0.776 | 0.802 | 0.731 | 0.725 | 0.749 | 0.682 | 0.744 | 5.62 |
| 28) | T | Bromochloromet... | 0.502 | 0.631 | 0.504 | 0.473 | 0.496 | 0.479 | 0.514 | 11.39 |
| 29) | T | Tetrahydrofuran | 0.098 | 0.097 | 0.097 | 0.092 | 0.101 | 0.102 | 0.098 | 3.79 |
| 30) | C | Chloroform | 1.454 | 1.614 | 1.322 | 1.217 | 1.221 | 1.141 | 1.328 | 13.32# |
| 31) | T | Cyclohexane | 1.154 | 1.198 | 1.109 | 1.024 | 1.108 | 1.043 | 1.106 | 5.93 |
| 32) | T | 1,1,1-Trichlor... | 1.206 | 1.336 | 1.118 | 1.035 | 1.041 | 0.970 | 1.118 | 12.02 |
| 33) | S | 1,2-Dichloroet... | 0.672 | 0.800 | 0.646 | 0.564 | 0.604 | 0.566 | 0.642 | 13.81 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.369 | 0.405 | 0.342 | 0.344 | 0.336 | 0.339 | 0.356 | 7.56 |
| 36) | T | 1,1-Dichloropr... | 0.557 | 0.531 | 0.531 | 0.530 | 0.541 | 0.517 | 0.534 | 2.55 |
| 37) | T | Ethyl Acetate | 0.197 | 0.211 | 0.202 | 0.185 | 0.198 | 0.206 | 0.200 | 4.48 |
| 38) | T | Carbon Tetrach... | 0.553 | 0.578 | 0.517 | 0.522 | 0.509 | 0.492 | 0.529 | 5.96 |
| 39) | T | Methylcyclohexane | 0.567 | 0.536 | 0.564 | 0.633 | 0.651 | 0.632 | 0.597 | 7.91 |
| 40) | TM | Benzene | 1.629 | 1.652 | 1.532 | 1.569 | 1.554 | 1.461 | 1.566 | 4.39 |
| 41) | T | Methacrylonitrile | 0.128 | 0.107 | 0.100 | 0.097 | 0.090 | 0.108 | 0.105 | 12.49 |
| 42) | TM | 1,2-Dichloroet... | 0.453 | 0.463 | 0.419 | 0.396 | 0.399 | 0.387 | 0.419 | 7.55 |
| 43) | T | Isopropyl Acetate | 0.377 | 0.363 | 0.365 | 0.347 | 0.378 | 0.386 | 0.370 | 3.78 |
| 44) | TM | Trichloroethene | 0.392 | 0.398 | 0.360 | 0.381 | 0.368 | 0.347 | 0.374 | 5.21 |
| 45) | C | 1,2-Dichloropr... | 0.443 | 0.437 | 0.408 | 0.396 | 0.402 | 0.380 | 0.411 | 5.92# |
| 46) | T | Dibromomethane | 0.231 | 0.242 | 0.201 | 0.204 | 0.200 | 0.192 | 0.212 | 9.36 |
| 47) | T | Bromodichlorom... | 0.580 | 0.600 | 0.520 | 0.523 | 0.518 | 0.497 | 0.540 | 7.51 |
| 48) | T | Methyl methacr... | 0.145 | 0.174 | 0.156 | 0.170 | 0.185 | 0.194 | 0.171 | 10.51 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 5.70 |
| 50) | S | Toluene-d8 | 1.267 | 1.272 | 1.265 | 1.323 | 1.335 | 1.291 | 1.292 | 2.34 |
| 51) | T | 4-Methyl-2-Pen... | 0.188 | 0.180 | 0.190 | 0.187 | 0.198 | 0.203 | 0.191 | 4.31 |
| 52) | CM | Toluene | 0.964 | 0.889 | 0.925 | 0.999 | 0.973 | 0.927 | 0.946 | 4.22# |
| 53) | T | t-1,3-Dichloro... | 0.475 | 0.464 | 0.453 | 0.465 | 0.456 | 0.473 | 0.464 | 1.87 |
| 54) | T | cis-1,3-Dichlo... | 0.579 | 0.583 | 0.537 | 0.552 | 0.563 | 0.578 | 0.565 | 3.17 |
| 55) | T | 1,1,2-Trichlor... | 0.308 | 0.321 | 0.288 | 0.291 | 0.274 | 0.265 | 0.291 | 7.06 |
| 56) | T | Ethyl methacry... | 0.284 | 0.271 | 0.293 | 0.342 | 0.355 | 0.363 | 0.318 | 12.53 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.517 | 0.509 | 0.491 | 0.493 | 0.485 | 0.478 | 0.496 | 2.97 |
| 58) | T | 2-Chloroethyl ... | 0.133 | 0.134 | 0.153 | 0.155 | 0.173 | 0.172 | 0.153 | 11.37 |
| 59) | T | 2-Hexanone | 0.122 | 0.118 | 0.125 | 0.128 | 0.134 | 0.139 | 0.128 | 6.25 |
| 60) | T | Dibromochlorom... | 0.355 | 0.370 | 0.326 | 0.346 | 0.321 | 0.315 | 0.339 | 6.34 |
| 61) | T | 1,2-Dibromoethane | 0.278 | 0.278 | 0.268 | 0.267 | 0.259 | 0.257 | 0.268 | 3.41 |
| 62) | S | 4-Bromofluorob... | 0.432 | 0.477 | 0.447 | 0.455 | 0.450 | 0.447 | 0.452 | 3.27 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.316 | 0.321 | 0.300 | 0.312 | 0.298 | 0.279 | 0.304 | 5.11 |
| 65) | PM | Chlorobenzene | 1.058 | 1.115 | 1.003 | 1.044 | 1.028 | 0.966 | 1.036 | 4.91 |
| 66) | T | 1,1,1,2-Tetrac... | 0.387 | 0.424 | 0.371 | 0.378 | 0.369 | 0.347 | 0.379 | 6.76 |
| 67) | C | Ethyl Benzene | 1.713 | 1.609 | 1.734 | 1.882 | 1.945 | 1.836 | 1.786 | 6.92# |
| 68) | T | m/p-Xylenes | 0.671 | 0.599 | 0.690 | 0.749 | 0.738 | 0.693 | 0.690 | 7.79 |
| 69) | T | o-Xylene | 0.576 | 0.519 | 0.590 | 0.679 | 0.689 | 0.655 | 0.618 | 10.84 |
| 70) | T | Styrene | 1.012 | 0.851 | 1.079 | 1.208 | 1.194 | 1.135 | 1.080 | 12.39 |
| 71) | P | Bromoform | 0.194 | 0.204 | 0.185 | 0.190 | 0.178 | 0.174 | 0.187 | 5.88 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.281 | 2.892 | 3.311 | 3.834 | 3.973 | 3.748 | 3.506 | 11.76 |
| 74) | T | N-amyl acetate | 0.743 | 0.692 | 0.730 | 0.743 | 0.831 | 0.846 | 0.764 | 7.94 |
| 75) | P | 1,1,2,2-Tetrac... | 0.794 | 0.863 | 0.742 | 0.716 | 0.703 | 0.689 | 0.751 | 8.80 |
| 76) | T | 1,2,3-Trichlor... | 0.528 | 0.555 | 0.494 | 0.496 | 0.478 | 0.483 | 0.506 | 5.85 |
| 77) | T | Bromobenzene | 0.828 | 0.805 | 0.782 | 0.832 | 0.821 | 0.786 | 0.809 | 2.65 |
| 78) | T | n-propylbenzene | 4.383 | 3.785 | 4.538 | 4.878 | 5.035 | 4.687 | 4.551 | 9.70 |
| 79) | T | 2-Chlorotoluene | 2.608 | 2.425 | 2.597 | 2.783 | 2.842 | 2.662 | 2.653 | 5.58 |
| 80) | T | 1,3,5-Trimethy... | 2.891 | 2.438 | 2.984 | 3.341 | 3.348 | 3.156 | 3.026 | 11.31 |
| 81) | T | trans-1,4-Dich... | 0.204 | 0.193 | 0.207 | 0.201 | 0.195 | 0.212 | 0.202 | 3.48 |
| 82) | T | 4-Chlorotoluene | 2.795 | 2.523 | 2.789 | 2.952 | 2.952 | 2.780 | 2.799 | 5.61 |
| 83) | T | tert-Butylbenzene | 2.237 | 2.015 | 2.322 | 2.660 | 2.736 | 2.593 | 2.427 | 11.57 |
| 84) | T | 1,2,4-Trimethy... | 2.860 | 2.314 | 2.914 | 3.302 | 3.340 | 3.151 | 2.980 | 12.77 |
| 85) | T | sec-Butylbenzene | 3.740 | 3.155 | 3.783 | 4.167 | 4.290 | 4.012 | 3.858 | 10.50 |
| 86) | T | p-Isopropyltol... | 2.914 | 2.410 | 3.041 | 3.448 | 3.483 | 3.302 | 3.100 | 13.09 |
| 87) | T | 1,3-Dichlorobe... | 1.727 | 1.710 | 1.642 | 1.747 | 1.683 | 1.597 | 1.684 | 3.35 |
| 88) | T | 1,4-Dichlorobe... | 1.801 | 1.787 | 1.663 | 1.705 | 1.634 | 1.553 | 1.691 | 5.59 |
| 89) | T | n-Butylbenzene | 2.914 | 2.542 | 2.913 | 3.319 | 3.459 | 3.397 | 3.091 | 11.62 |
| 90) | T | Hexachloroethane | 0.791 | 0.762 | 0.649 | 0.684 | 0.693 | 0.679 | 0.710 | 7.69 |
| 91) | T | 1,2-Dichlorobe... | 1.496 | 1.575 | 1.431 | 1.519 | 1.449 | 1.446 | 1.486 | 3.69 |
| 92) | T | 1,2-Dibromo-3-... | 0.128 | 0.119 | 0.105 | 0.105 | 0.105 | 0.113 | 0.112 | 8.54 |
| 93) | T | 1,2,4-Trichlor... | 0.840 | 0.763 | 0.733 | 0.826 | 0.830 | 0.823 | 0.802 | 5.47 |
| 94) | T | Hexachlorobuta... | 0.559 | 0.543 | 0.449 | 0.469 | 0.479 | 0.455 | 0.492 | 9.56 |
| 95) | T | Naphthalene | 1.394 | 1.337 | 1.261 | 1.425 | 1.624 | 1.710 | 1.458 | 11.85 |
| 96) | T | 1,2,3-Trichlor... | 0.731 | 0.763 | 0.655 | 0.654 | 0.725 | 0.720 | 0.708 | 6.20 |

(#) = Out of Range