# Response Factor Report MSVOA_D

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
Method File : 82D092222S.M
Title : SW846 8260
Last Update : Fri Sep 23 08:08:51 2022
Response Via : Initial Calibration

Calibration Files
10 =VD074397.D 5 =VD074396.D 20 =VD074398.D 50 =VD074399.D 100 =VD074400.D 150 =VD074401.D

| | | Compound | 10 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.466 | 0.377 | 0.503 | 0.407 | 0.406 | 0.406 | 0.428 | 11.03 |
| 3) | P | Chloromethane | 0.765 | 0.680 | 0.713 | 0.570 | 0.495 | 0.467 | 0.615 | 19.88 |
| 4) | C | Vinyl Chloride | 0.411 | 0.309 | 0.404 | 0.356 | 0.351 | 0.350 | 0.364 | 10.46# |
| 5) | T | Bromomethane | 0.119 | 0.083 | 0.136 | 0.114 | 0.136 | 0.154 | 0.124 | 19.69 |
| 6) | T | Chloroethane | 0.244 | 0.174 | 0.247 | 0.233 | 0.226 | 0.220 | 0.224 | 11.87 |
| 7) | T | Trichlorofluor... | 0.884 | 0.768 | 0.862 | 0.799 | 0.807 | 0.798 | 0.820 | 5.35 |
| 8) | T | Diethyl Ether | 0.290 | 0.246 | 0.287 | 0.303 | 0.283 | 0.276 | 0.281 | 6.83 |
| 9) | T | 1,1,2-Trichlor... | 0.587 | 0.557 | 0.571 | 0.537 | 0.537 | 0.543 | 0.556 | 3.65 |
| 10) | T | Methyl Iodide | 0.228 | 0.121 | 0.328 | 0.451 | 0.540 | 0.583 | 0.375 | 48.33 |
| 11) | T | Tert butyl alc... | 0.188 | 0.263 | 0.155 | 0.073 | 0.053 | 0.047 | 0.130 | 66.80 |
| 12) | CM | 1,1-Dichloroet... | 0.562 | 0.525 | 0.591 | 0.521 | 0.532 | 0.528 | 0.543 | 5.12# |
| 13) | T | Acrolein | 0.028 | 0.019 | 0.030 | 0.018 | 0.016 | 0.015 | 0.021 | 31.49 |
| 14) | T | Allyl chloride | 0.881 | 0.732 | 0.853 | 0.832 | 0.808 | 0.792 | 0.816 | 6.39 |
| 15) | T | Acrylonitrile | 0.134 | 0.125 | 0.140 | 0.145 | 0.136 | 0.133 | 0.136 | 4.83 |
| 16) | T | Acetone | 0.107 | 0.127 | 0.109 | 0.109 | 0.106 | 0.094 | 0.109 | 9.98 |
| 17) | T | Carbon Disulfide | 1.647 | 1.065 | 1.643 | 1.454 | 1.416 | 1.411 | 1.439 | 14.79 |
| 18) | T | Methyl Acetate | 0.350 | 0.511 | 0.401 | 0.362 | 0.349 | 0.338 | 0.385 | 17.02 |
| 19) | T | Methyl tert-bu... | 1.319 | 1.195 | 1.312 | 1.404 | 1.310 | 1.299 | 1.306 | 5.09 |
| 20) | T | Methylene Chlo... | 1.460 | 2.167 | 1.115 | 0.830 | 0.656 | 0.631 | 1.143 | 51.70 |
| 21) | T | trans-1,2-Dich... | 0.653 | 0.533 | 0.624 | 0.604 | 0.593 | 0.592 | 0.600 | 6.67 |
| 22) | T | Diisopropyl ether | 1.835 | 1.605 | 1.862 | 1.913 | 1.796 | 1.740 | 1.792 | 6.07 |
| 23) | T | Vinyl Acetate | 0.763 | 0.561 | 0.827 | 0.945 | 0.918 | 0.906 | 0.820 | 17.49 |
| 24) | P | 1,1-Dichloroet... | 1.189 | 1.103 | 1.157 | 1.169 | 1.116 | 1.098 | 1.139 | 3.35 |
| 25) | T | 2-Butanone | 0.179 | 0.183 | 0.179 | 0.184 | 0.168 | 0.160 | 0.176 | 5.48 |
| 26) | T | 2,2-Dichloropr... | 1.057 | 1.006 | 1.001 | 0.994 | 0.954 | 0.942 | 0.992 | 4.14 |
| 27) | T | cis-1,2-Dichlo... | 0.731 | 0.675 | 0.720 | 0.723 | 0.712 | 0.700 | 0.710 | 2.83 |
| 28) | T | Bromochloromet... | 0.426 | 0.380 | 0.417 | 0.458 | 0.410 | 0.410 | 0.417 | 6.07 |
| 29) | T | Tetrahydrofuran | 0.100 | 0.108 | 0.105 | 0.116 | 0.104 | 0.102 | 0.106 | 5.24 |
| 30) | C | Chloroform | 1.190 | 1.113 | 1.157 | 1.152 | 1.084 | 1.064 | 1.127 | 4.26# |
| 31) | T | Cyclohexane | 1.107 | 1.093 | 1.034 | 0.952 | 0.930 | 0.924 | 1.007 | 8.19 |
| 32) | T | 1,1,1-Trichlor... | 1.006 | 0.908 | 1.012 | 0.984 | 0.957 | 0.947 | 0.969 | 4.05 |
| 33) | S | 1,2-Dichloroet... | 0.535 | 0.570 | 0.526 | 0.543 | 0.514 | 0.492 | 0.530 | 5.02 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.406 | 0.318 | 0.419 | 0.311 | 0.313 | 0.312 | 0.346 | 14.82 |
| 36) | T | 1,1-Dichloropr... | 0.514 | 0.420 | 0.544 | 0.498 | 0.525 | 0.518 | 0.503 | 8.65 |
| 37) | T | Ethyl Acetate | 0.210 | 0.194 | 0.208 | 0.223 | 0.227 | 0.217 | 0.213 | 5.54 |
| 38) | T | Carbon Tetrach... | 0.393 | 0.330 | 0.427 | 0.435 | 0.471 | 0.469 | 0.421 | 12.62 |
| 39) | T | Methylcyclohexane | 0.634 | 0.472 | 0.609 | 0.601 | 0.638 | 0.628 | 0.597 | 10.51 |
| 40) | TM | Benzene | 1.534 | 1.269 | 1.530 | 1.507 | 1.525 | 1.503 | 1.478 | 6.99 |
| 41) | T | Methacrylonitrile | 0.114 | 0.086 | 0.129 | 0.125 | 0.136 | 0.133 | 0.120 | 15.48 |
| 42) | TM | 1,2-Dichloroet... | 0.376 | 0.341 | 0.400 | 0.394 | 0.388 | 0.378 | 0.379 | 5.56 |
| 43) | T | Isopropyl Acetate | 0.418 | 0.399 | 0.425 | 0.446 | 0.437 | 0.427 | 0.425 | 3.80 |
| 44) | TM | Trichloroethene | 0.407 | 0.379 | 0.402 | 0.384 | 0.394 | 0.392 | 0.393 | 2.67 |
| 45) | C | 1,2-Dichloropr... | 0.404 | 0.355 | 0.384 | 0.391 | 0.395 | 0.384 | 0.386 | 4.30# |
| 46) | T | Dibromomethane | 0.192 | 0.174 | 0.193 | 0.202 | 0.202 | 0.198 | 0.194 | 5.41 |
| 47) | T | Bromodichlorom... | 0.479 | 0.465 | 0.478 | 0.507 | 0.505 | 0.491 | 0.487 | 3.43 |
| 48) | T | Methyl methacr... | 0.189 | 0.181 | 0.183 | 0.214 | 0.207 | 0.202 | 0.196 | 6.98 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.002 | 0.002 | 16.73 |
| 50) | S | Toluene-d8 | 1.060 | 1.341 | 1.045 | 1.279 | 1.300 | 1.267 | 1.215 | 10.59 |
| 51) | T | 4-Methyl-2-Pen... | 0.203 | 0.193 | 0.221 | 0.240 | 0.231 | 0.222 | 0.218 | 8.06 |
| 52) | CM | Toluene | 0.947 | 0.799 | 0.942 | 0.951 | 0.966 | 0.937 | 0.924 | 6.72# |
| 53) | T | t-1,3-Dichloro... | 0.444 | 0.399 | 0.460 | 0.498 | 0.503 | 0.493 | 0.466 | 8.69 |
| 54) | T | cis-1,3-Dichlo... | 0.567 | 0.492 | 0.565 | 0.608 | 0.602 | 0.594 | 0.571 | 7.49 |
| 55) | T | 1,1,2-Trichlor... | 0.277 | 0.269 | 0.277 | 0.284 | 0.275 | 0.268 | 0.275 | 2.11 |
| 56) | T | Ethyl methacry... | 0.325 | 0.280 | 0.342 | 0.372 | 0.374 | 0.363 | 0.342 | 10.54 |

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Method File : 82D092222S.M

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|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.466 | 0.392 | 0.486 | 0.493 | 0.490 | 0.469 | 0.466 | 8.09 |
| 58) | T | 2-Chloroethyl ... | 0.036 | 0.034 | 0.045 | 0.059 | 0.074 | 0.082 | 0.055 | 36.33 |
| 59) | T | 2-Hexanone | 0.139 | 0.127 | 0.153 | 0.161 | 0.159 | 0.149 | 0.148 | 8.70 |
| 60) | T | Dibromochlorom... | 0.304 | 0.277 | 0.312 | 0.332 | 0.321 | 0.316 | 0.310 | 5.98 |
| 61) | T | 1,2-Dibromoethane | 0.255 | 0.236 | 0.237 | 0.259 | 0.250 | 0.243 | 0.246 | 3.83 |
| 62) | S | 4-Bromofluorob... | 0.647 | 0.380 | 0.640 | 0.391 | 0.403 | 0.385 | 0.474 | 27.70 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.399 | 0.389 | 0.360 | 0.351 | 0.350 | 0.345 | 0.366 | 6.21 |
| 65) | PM | Chlorobenzene | 1.095 | 0.949 | 1.065 | 1.090 | 1.074 | 1.063 | 1.056 | 5.10 |
| 66) | T | 1,1,1,2-Tetrac... | 0.366 | 0.326 | 0.369 | 0.381 | 0.386 | 0.378 | 0.368 | 5.88 |
| 67) | C | Ethyl Benzene | 1.976 | 1.692 | 2.013 | 2.044 | 2.038 | 2.041 | 1.967 | 6.97# |
| 68) | T | m/p-Xylenes | 0.733 | 0.635 | 0.752 | 0.769 | 0.781 | 0.773 | 0.741 | 7.36 |
| 69) | T | o-Xylene | 0.691 | 0.628 | 0.713 | 0.745 | 0.728 | 0.730 | 0.706 | 5.98 |
| 70) | T | Styrene | 1.223 | 1.059 | 1.233 | 1.277 | 1.247 | 1.240 | 1.213 | 6.40 |
| 71) | P | Bromoform | 0.181 | 0.175 | 0.200 | 0.203 | 0.195 | 0.196 | 0.192 | 5.81 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.960 | 3.506 | 3.820 | 4.059 | 4.013 | 4.064 | 3.904 | 5.49 |
| 74) | T | N-amyl acetate | 0.830 | 0.797 | 0.878 | 0.959 | 0.914 | 0.918 | 0.883 | 6.81 |
| 75) | P | 1,1,2,2-Tetrac... | 0.673 | 0.684 | 0.683 | 0.747 | 0.705 | 0.685 | 0.696 | 3.89 |
| 76) | T | 1,2,3-Trichlor... | 0.500 | 0.548 | 0.411 | 0.523 | 0.497 | 0.502 | 0.497 | 9.27 |
| 77) | T | Bromobenzene | 0.848 | 0.757 | 0.862 | 0.888 | 0.861 | 0.868 | 0.847 | 5.45 |
| 78) | T | n-propylbenzene | 4.911 | 4.316 | 4.741 | 4.990 | 4.991 | 5.024 | 4.829 | 5.62 |
| 79) | T | 2-Chlorotoluene | 2.647 | 2.356 | 2.547 | 2.648 | 2.601 | 2.638 | 2.573 | 4.39 |
| 80) | T | 1,3,5-Trimethy... | 3.230 | 2.922 | 3.240 | 3.289 | 3.244 | 3.324 | 3.208 | 4.51 |
| 81) | T | trans-1,4-Dich... | 0.190 | 0.168 | 0.194 | 0.216 | 0.224 | 0.217 | 0.201 | 10.61 |
| 82) | T | 4-Chlorotoluene | 2.781 | 2.394 | 2.649 | 2.708 | 2.656 | 2.692 | 2.647 | 5.01 |
| 83) | T | tert-Butylbenzene | 2.847 | 2.503 | 2.715 | 2.894 | 2.888 | 2.945 | 2.799 | 5.87 |
| 84) | T | 1,2,4-Trimethy... | 3.231 | 2.812 | 3.175 | 3.305 | 3.208 | 3.308 | 3.173 | 5.82 |
| 85) | T | sec-Butylbenzene | 4.400 | 3.703 | 4.224 | 4.338 | 4.418 | 4.501 | 4.264 | 6.80 |
| 86) | T | p-Isopropyltol... | 3.561 | 3.124 | 3.468 | 3.646 | 3.662 | 3.760 | 3.537 | 6.36 |
| 87) | T | 1,3-Dichlorobe... | 1.765 | 1.623 | 1.715 | 1.812 | 1.773 | 1.781 | 1.745 | 3.87 |
| 88) | T | 1,4-Dichlorobe... | 1.805 | 1.652 | 1.735 | 1.794 | 1.709 | 1.723 | 1.736 | 3.26 |
| 89) | T | n-Butylbenzene | 3.549 | 3.134 | 3.464 | 3.535 | 3.580 | 3.651 | 3.486 | 5.24 |
| 90) | T | Hexachloroethane | 0.553 | 0.427 | 0.541 | 0.590 | 0.609 | 0.646 | 0.561 | 13.54 |
| 91) | T | 1,2-Dichlorobe... | 1.530 | 1.394 | 1.537 | 1.564 | 1.493 | 1.500 | 1.503 | 3.93 |
| 92) | T | 1,2-Dibromo-3-... | 0.085 | 0.076 | 0.098 | 0.104 | 0.102 | 0.099 | 0.094 | 11.73 |
| 93) | T | 1,2,4-Trichlor... | 0.947 | 0.968 | 0.938 | 1.044 | 1.016 | 1.038 | 0.992 | 4.70 |
| 94) | T | Hexachlorobuta... | 0.567 | 0.578 | 0.534 | 0.560 | 0.575 | 0.596 | 0.568 | 3.66 |
| 95) | T | Naphthalene | 1.727 | 1.613 | 1.836 | 2.071 | 2.048 | 2.043 | 1.890 | 10.23 |
| 96) | T | 1,2,3-Trichlor... | 0.853 | 0.816 | 0.828 | 0.886 | 0.888 | 0.908 | 0.863 | 4.26 |

(#) = Out of Range