

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\  
 Method File : 524U031822DW.M  
 Title : METHOD 524.2 VOLATILES DRINKING WATER  
 Last Update : Fri Mar 18 13:19:37 2022  
 Response Via : Initial Calibration

## Calibration Files

0.5 =VU047608.D 1 =VU047609.D 2 =VU047610.D 5 =VU047611.D 10 =VU047612.D 20 =VU047613.D

| Compound |                   | 0.5            | 1     | 2     | 5     | 10    | 20    | Avg   | %RSD  |
|----------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| -----    |                   |                |       |       |       |       |       |       |       |
| 1) i     | Fluorobenzene     | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T     | Dichlorodifluo... | 0.344          | 0.354 | 0.403 | 0.363 | 0.350 | 0.353 | 0.361 | 5.96  |
| 3) t     | Chloromethane     | 0.346          | 0.333 | 0.393 | 0.359 | 0.341 | 0.346 | 0.353 | 6.10  |
| 4) Rt    | Vinyl Chloride    | 0.331          | 0.332 | 0.379 | 0.348 | 0.332 | 0.333 | 0.343 | 5.51  |
| 5) T     | Bromomethane      | 0.199          | 0.194 | 0.216 | 0.209 | 0.194 | 0.193 | 0.201 | 4.64  |
| 6) T     | Chloroethane      | 0.197          | 0.186 | 0.230 | 0.211 | 0.199 | 0.206 | 0.205 | 7.26  |
| 7) T     | Trichlorofluor... | 0.444          | 0.451 | 0.531 | 0.483 | 0.460 | 0.473 | 0.474 | 6.68  |
| 8)       | 1,1,2-Trichlor... | 0.245          | 0.259 | 0.306 | 0.281 | 0.264 | 0.269 | 0.271 | 7.73  |
| 9) Rt    | 1,1-Dichloroet... | 0.249          | 0.257 | 0.302 | 0.272 | 0.258 | 0.265 | 0.267 | 7.04  |
| 10) t    | Iodomethane       |                | 0.064 | 0.094 | 0.103 | 0.132 | 0.154 | 0.109 | 31.71 |
| 11) t    | Allyl Chloride    | 0.330          | 0.329 | 0.372 | 0.339 | 0.323 | 0.325 | 0.336 | 5.42  |
| 12) t    | Acrylonitrile     | 0.053          | 0.057 | 0.065 | 0.060 | 0.060 | 0.059 | 0.059 | 6.91  |
| 13) T    | Acetone           | 0.037          | 0.046 | 0.038 | 0.044 | 0.037 | 0.038 | 0.040 | 10.33 |
| 14) T    | Carbon Disulfide  | 0.801          | 0.814 | 0.947 | 0.863 | 0.820 | 0.824 | 0.845 | 6.42  |
| 15) RT   | Methylene Chlo... | 0.570          | 0.417 | 0.409 | 0.339 | 0.301 | 0.298 | 0.389 | 26.31 |
| 16) RT   | trans-1,2-Dich... | 0.280          | 0.264 | 0.307 | 0.294 | 0.277 | 0.265 | 0.281 | 5.94  |
| 17) t    | 1,1-Dichloroet... | 0.462          | 0.460 | 0.528 | 0.489 | 0.467 | 0.459 | 0.477 | 5.70  |
| 18) T    | 2-Butanone        | 0.045          | 0.068 | 0.060 | 0.070 | 0.065 | 0.068 | 0.063 | 14.93 |
| 19)      | Cyclohexane       | 0.302          | 0.315 | 0.388 | 0.373 | 0.381 | 0.390 | 0.358 | 10.97 |
| 20)      | Methylcyclohexane | 0.325          | 0.356 | 0.447 | 0.432 | 0.438 | 0.466 | 0.411 | 13.72 |
| 21) T    | 2,2-Dichloropr... | 0.398          | 0.400 | 0.449 | 0.435 | 0.411 | 0.424 | 0.420 | 4.83  |
| 22) RT   | cis-1,2-Dichlo... | 0.288          | 0.287 | 0.331 | 0.312 | 0.303 | 0.311 | 0.305 | 5.40  |
| 23) t    | Diethyl Ether     | 0.190          | 0.183 | 0.216 | 0.201 | 0.190 | 0.192 | 0.195 | 5.97  |
| 24) t    | tert-Butyl Alc... |                | 0.015 | 0.013 | 0.017 | 0.012 | 0.011 | 0.013 | 18.04 |
| 25) t    | Methyl tert-Bu... | 0.636          | 0.618 | 0.708 | 0.672 | 0.648 | 0.625 | 0.651 | 5.16  |
| 26) t    | Bromochloromet... | 0.162          | 0.147 | 0.160 | 0.163 | 0.147 | 0.147 | 0.154 | 5.26  |
| 27) t    | Chloroform        | 0.498          | 0.494 | 0.568 | 0.529 | 0.503 | 0.502 | 0.516 | 5.48  |
| 28) RT   | 1,1,1-Trichlor... | 0.431          | 0.425 | 0.487 | 0.460 | 0.439 | 0.446 | 0.448 | 5.06  |
| 29) T    | 1,1-Dichloropr... | 0.313          | 0.325 | 0.397 | 0.388 | 0.376 | 0.379 | 0.363 | 9.70  |
| 30) RT   | Carbon Tetrach... | 0.360          | 0.381 | 0.430 | 0.419 | 0.402 | 0.403 | 0.399 | 6.35  |
| 31) t    | Isopropyl Ether   | 0.569          | 0.564 | 0.710 | 0.650 | 0.648 | 0.661 | 0.634 | 8.95  |
| 32)      | Ethyl-t-butyl ... | 0.570          | 0.578 | 0.675 | 0.672 | 0.656 | 0.686 | 0.640 | 8.08  |
| 33)      | Tert-Amyl meth... | 0.523          | 0.526 | 0.623 | 0.626 | 0.638 | 0.671 | 0.601 | 10.28 |
| 34) t    | Propionitrile     | 0.010          | 0.015 | 0.018 | 0.022 | 0.017 | 0.018 | 0.017 | 22.75 |
| 35) RT   | Benzene           | 0.985          | 1.012 | 1.196 | 1.144 | 1.084 | 1.097 | 1.086 | 7.28  |
| 36) RT   | 1,2-Dichloroet... | 0.309          | 0.302 | 0.368 | 0.339 | 0.326 | 0.327 | 0.329 | 7.18  |
| 37) RT   | Trichloroethene   | 0.283          | 0.292 | 0.350 | 0.325 | 0.315 | 0.319 | 0.314 | 7.67  |
| 38) Rt   | 1,2-Dichloropr... | 0.258          | 0.258 | 0.315 | 0.288 | 0.280 | 0.279 | 0.280 | 7.62  |
| 39) t    | Methacrylonitrile | 0.068          | 0.072 | 0.083 | 0.085 | 0.080 | 0.082 | 0.078 | 8.89  |
| 40) t    | Methyl acrylate   | 0.114          | 0.116 | 0.126 | 0.139 | 0.142 | 0.158 | 0.132 | 12.76 |
| 41) t    | Tetrahydrofuran   | 0.032          | 0.041 | 0.042 | 0.042 | 0.040 | 0.042 | 0.040 | 9.94  |
| 42) t    | 1-Chlorobutane    | 0.423          | 0.419 | 0.517 | 0.491 | 0.475 | 0.484 | 0.468 | 8.36  |
| 43) T    | Dibromomethane    | 0.162          | 0.156 | 0.184 | 0.174 | 0.164 | 0.166 | 0.168 | 5.82  |
| 44) T    | Bromodichlorom... | 0.364          | 0.370 | 0.436 | 0.399 | 0.379 | 0.386 | 0.389 | 6.72  |
| 45) T    | 4-Methyl-2-Pen... | 0.133          | 0.150 | 0.187 | 0.176 | 0.176 | 0.185 | 0.168 | 12.85 |
| 46) t    | t-1,4-Dichloro... | 0.065          | 0.053 | 0.079 | 0.071 | 0.076 | 0.093 | 0.073 | 18.52 |
| 47) t    | Methyl methacr... | 0.102          | 0.116 | 0.145 | 0.146 | 0.150 | 0.155 | 0.136 | 15.77 |
| 48) t    | Ethyl methacry... | 0.203          | 0.209 | 0.271 | 0.267 | 0.278 | 0.306 | 0.256 | 16.00 |
| 49) Rt   | Toluene           | 0.544          | 0.584 | 0.732 | 0.722 | 0.701 | 0.724 | 0.668 | 12.27 |
| 50) T    | t-1,3-Dichloro... | 0.323          | 0.316 | 0.395 | 0.374 | 0.366 | 0.389 | 0.360 | 9.25  |
| 51) T    | cis-1,3-Dichlo... | 0.335          | 0.364 | 0.439 | 0.407 | 0.407 | 0.428 | 0.397 | 9.96  |
| 52) RT   | 1,1,2-Trichlor... | 0.212          | 0.222 | 0.262 | 0.239 | 0.231 | 0.235 | 0.233 | 7.23  |
| 53) t    | 1,3-Dichloropr... | 0.338          | 0.363 | 0.423 | 0.391 | 0.375 | 0.389 | 0.380 | 7.60  |
| 54) t    | 2-Hexanone        | 0.107          | 0.104 | 0.135 | 0.126 | 0.127 | 0.136 | 0.122 | 11.33 |
| 55) t    | Dibromochlorom... | 0.261          | 0.273 | 0.333 | 0.301 | 0.292 | 0.307 | 0.295 | 8.67  |
| 56) T    | 1,2-Dibromoethane | 0.213          | 0.208 | 0.267 | 0.239 | 0.228 | 0.238 | 0.232 | 9.12  |
| 57) S    | 4-Bromofluorob... | 0.379          | 0.349 | 0.375 | 0.381 | 0.365 | 0.387 | 0.373 | 3.75  |

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|     |    |                   |       |       |       |       |       |       |       |       |
|-----|----|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 58) | RT | Tetrachloroethene | 0.266 | 0.263 | 0.327 | 0.297 | 0.288 | 0.295 | 0.289 | 8.08  |
| 59) | Rt | Chlorobenzene     | 0.677 | 0.704 | 0.864 | 0.803 | 0.795 | 0.826 | 0.778 | 9.32  |
| 60) | T  | 1,1,1,2-Tetrac... | 0.282 | 0.275 | 0.334 | 0.310 | 0.300 | 0.311 | 0.302 | 7.09  |
| 61) | t  | Pentachloroethane | 0.230 | 0.241 | 0.288 | 0.259 | 0.250 | 0.265 | 0.256 | 7.92  |
| 62) | t  | Hexachloroethane  | 0.224 | 0.234 | 0.279 | 0.258 | 0.252 | 0.276 | 0.254 | 8.63  |
| 63) | Rt | Ethyl Benzene     | 0.962 | 1.006 | 1.323 | 1.294 | 1.321 | 1.408 | 1.219 | 15.30 |
| 64) | RT | m/p-Xylenes       | 0.367 | 0.392 | 0.532 | 0.525 | 0.529 | 0.557 | 0.484 | 16.95 |
| 65) | RT | o-Xylene          | 0.342 | 0.375 | 0.502 | 0.492 | 0.501 | 0.534 | 0.458 | 17.22 |
| 66) | RT | Styrene           | 0.567 | 0.622 | 0.859 | 0.869 | 0.879 | 0.939 | 0.789 | 19.55 |
| 67) | t  | Bromoform         | 0.171 | 0.181 | 0.216 | 0.201 | 0.197 | 0.211 | 0.196 | 8.83  |
| 68) | S  | 1,2-Dichlorobe... | 0.425 | 0.434 | 0.466 | 0.441 | 0.463 | 0.482 | 0.452 | 4.80  |
| 69) | T  | Isopropylbenzene  | 0.914 | 0.975 | 1.320 | 1.302 | 1.325 | 1.433 | 1.212 | 17.56 |
| 70) | T  | 1,1,2,2-Tetrac... | 0.290 | 0.285 | 0.348 | 0.311 | 0.306 | 0.324 | 0.311 | 7.43  |
| 71) | T  | 1,2,3-Trichlor... | 0.220 | 0.221 | 0.266 | 0.258 | 0.251 | 0.256 | 0.245 | 8.10  |
| 72) | t  | Bromobenzene      | 0.309 | 0.330 | 0.401 | 0.372 | 0.378 | 0.390 | 0.363 | 9.87  |
| 73) | t  | n-propylbenzene   | 0.269 | 0.269 | 0.381 | 0.379 | 0.393 | 0.420 | 0.352 | 18.75 |
| 74) | t  | 2-Chlorotoluene   | 0.249 | 0.274 | 0.360 | 0.347 | 0.345 | 0.363 | 0.323 | 15.16 |
| 75) | t  | 1,3,5-Trimethy... | 0.725 | 0.818 | 1.124 | 1.128 | 1.160 | 1.238 | 1.032 | 20.16 |
| 76) | t  | 4-Chlorotoluene   | 0.256 | 0.292 | 0.385 | 0.361 | 0.375 | 0.393 | 0.344 | 16.32 |
| 77) | t  | tert-Butylbenzene | 0.808 | 0.855 | 1.151 | 1.113 | 1.155 | 1.250 | 1.055 | 17.04 |
| 78) | t  | 1,2,4-Trimethy... | 0.744 | 0.822 | 1.151 | 1.164 | 1.183 | 1.267 | 1.055 | 20.48 |
| 79) | t  | sec-Butylbenzene  | 1.020 | 1.086 | 1.507 | 1.475 | 1.526 | 1.639 | 1.376 | 18.67 |
| 80) |    | Nitrobenzene      | 0.010 | 0.011 | 0.014 | 0.013 | 0.013 | 0.016 | 0.013 | 17.15 |
| 81) | t  | p-Isopropyltol... | 0.811 | 0.897 | 1.239 | 1.262 | 1.316 | 1.432 | 1.159 | 21.34 |
| 82) | t  | 1,3-Dichlorobe... | 0.597 | 0.659 | 0.803 | 0.739 | 0.732 | 0.776 | 0.718 | 10.66 |
| 83) | Rt | 1,4-Dichlorobe... | 0.606 | 0.650 | 0.799 | 0.749 | 0.737 | 0.789 | 0.722 | 10.73 |
| 84) | t  | n-Butylbenzene    | 0.756 | 0.872 | 1.163 | 1.179 | 1.215 | 1.351 | 1.089 | 20.78 |
| 85) | Rt | 1,2-Dichlorobe... | 0.588 | 0.619 | 0.763 | 0.718 | 0.701 | 0.748 | 0.689 | 10.26 |
| 86) | t  | 1,2-Dibromo-3-... | 0.044 | 0.049 | 0.058 | 0.053 | 0.053 | 0.057 | 0.052 | 10.41 |
| 87) | Rt | 1,2,4-Trichlor... | 0.375 | 0.410 | 0.530 | 0.518 | 0.533 | 0.589 | 0.492 | 16.66 |
| 88) | t  | Hexachlorobuta... | 0.259 | 0.270 | 0.315 | 0.299 | 0.302 | 0.328 | 0.296 | 8.94  |
| 89) | t  | Naphthalene       |       | 0.597 | 0.789 | 0.840 | 0.925 | 1.031 | 0.836 | 19.42 |
| 90) | t  | 1,2,3-Trichlor... | 0.359 | 0.390 | 0.501 | 0.488 | 0.506 | 0.539 | 0.464 | 15.49 |

(#) = Out of Range