

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\  
 Method File : 524U031721DW.M  
 Title : METHOD 524.2 VOLATILES DRINKING WATER  
 Last Update : Thu Mar 18 07:25:09 2021  
 Response Via : Initial Calibration

## Calibration Files

0.5 =VU042685.D 1 =VU042686.D 2 =VU042687.D 5 =VU042688.D 10 =VU042689.D 15 =VU042690.D

| Compound |                   | 0.5            | 1     | 2     | 5     | 10    | 15    | Avg   | %RSD  |
|----------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| -----    |                   |                |       |       |       |       |       |       |       |
| 1) i     | Fluorobenzene     | -----ISTD----- |       |       |       |       |       |       |       |
| 2) T     | Dichlorodifluo... | 0.389          | 0.382 | 0.400 | 0.395 | 0.384 | 0.387 | 0.389 | 1.75  |
| 3) t     | Chloromethane     | 0.414          | 0.364 | 0.373 | 0.355 | 0.347 | 0.357 | 0.368 | 6.57  |
| 4) Rt    | Vinyl Chloride    | 0.358          | 0.368 | 0.349 | 0.362 | 0.347 | 0.346 | 0.355 | 2.56  |
| 5) T     | Bromomethane      | 0.249          | 0.232 | 0.241 | 0.226 | 0.242 | 0.217 | 0.234 | 4.99  |
| 6) T     | Chloroethane      | 0.251          | 0.224 | 0.236 | 0.239 | 0.241 | 0.262 | 0.242 | 5.26  |
| 7) T     | Trichlorofluor... | 0.596          | 0.615 | 0.598 | 0.615 | 0.604 | 0.607 | 0.606 | 1.34  |
| 8)       | 1,1,2-Trichlor... | 0.298          | 0.302 | 0.306 | 0.310 | 0.301 | 0.309 | 0.304 | 1.63  |
| 9) Rt    | 1,1-Dichloroet... | 0.269          | 0.270 | 0.261 | 0.259 | 0.257 | 0.260 | 0.263 | 2.13  |
| 10) t    | Iodomethane       |                | 0.366 | 0.410 | 0.426 | 0.422 | 0.446 | 0.414 | 7.15  |
| 11) t    | Allyl Chloride    | 0.523          | 0.502 | 0.504 | 0.502 | 0.483 | 0.505 | 0.503 | 2.52  |
| 12) t    | Acrylonitrile     | 0.088          | 0.061 | 0.070 | 0.081 | 0.077 | 0.079 | 0.076 | 12.18 |
| 13) T    | Acetone           | 0.065          | 0.058 | 0.058 | 0.057 | 0.059 | 0.060 | 0.059 | 4.63  |
| 14) T    | Carbon Disulfide  | 0.853          | 0.821 | 0.816 | 0.815 | 0.806 | 0.833 | 0.824 | 2.00  |
| 15) RT   | Methylene Chlo... | 0.357          | 0.340 | 0.327 | 0.297 | 0.295 | 0.295 | 0.319 | 8.42  |
| 16) RT   | trans-1,2-Dich... | 0.296          | 0.268 | 0.292 | 0.290 | 0.273 | 0.284 | 0.284 | 3.92  |
| 17) t    | 1,1-Dichloroet... | 0.586          | 0.601 | 0.584 | 0.586 | 0.565 | 0.574 | 0.583 | 2.06  |
| 18) T    | 2-Butanone        | 0.111          | 0.102 | 0.117 | 0.104 | 0.106 | 0.112 | 0.109 | 4.96  |
| 19)      | Cyclohexane       | 0.504          | 0.503 | 0.488 | 0.499 | 0.483 | 0.503 | 0.497 | 1.76  |
| 20)      | Methylcyclohexane | 0.422          | 0.377 | 0.408 | 0.449 | 0.453 | 0.476 | 0.431 | 8.30  |
| 21) T    | 2,2-Dichloropr... | 0.592          | 0.528 | 0.524 | 0.538 | 0.516 | 0.518 | 0.536 | 5.35  |
| 22) RT   | cis-1,2-Dichlo... | 0.333          | 0.334 | 0.309 | 0.323 | 0.307 | 0.313 | 0.320 | 3.75  |
| 23) t    | Diethyl Ether     | 0.208          | 0.222 | 0.234 | 0.217 | 0.223 | 0.232 | 0.223 | 4.34  |
| 24) t    | tert-Butyl Alc... |                | 0.013 | 0.016 | 0.017 | 0.019 | 0.014 | 0.016 | 13.29 |
| 25) t    | Methyl tert-Bu... | 0.805          | 0.778 | 0.789 | 0.767 | 0.749 | 0.786 | 0.779 | 2.50  |
| 26) t    | Bromochloromet... | 0.150          | 0.150 | 0.159 | 0.158 | 0.152 | 0.152 | 0.153 | 2.62  |
| 27) t    | Chloroform        | 0.614          | 0.612 | 0.624 | 0.624 | 0.587 | 0.589 | 0.608 | 2.72  |
| 28) RT   | 1,1,1-Trichlor... | 0.544          | 0.555 | 0.565 | 0.559 | 0.541 | 0.546 | 0.552 | 1.68  |
| 29) T    | 1,1-Dichloropr... | 0.376          | 0.389 | 0.386 | 0.394 | 0.387 | 0.392 | 0.387 | 1.64  |
| 30) RT   | Carbon Tetrach... | 0.419          | 0.402 | 0.437 | 0.437 | 0.433 | 0.439 | 0.428 | 3.43  |
| 31) t    | Isopropyl Ether   | 1.096          | 1.073 | 1.018 | 1.035 | 1.006 | 1.027 | 1.042 | 3.34  |
| 32)      | Ethyl-t-butyl ... | 0.923          | 0.931 | 0.948 | 0.927 | 0.900 | 0.931 | 0.927 | 1.67  |
| 33)      | Tert-Amyl meth... | 0.663          | 0.641 | 0.633 | 0.686 | 0.695 | 0.724 | 0.674 | 5.14  |
| 34) t    | Propionitrile     | 0.019          | 0.022 | 0.024 | 0.024 | 0.028 | 0.027 | 0.024 | 12.98 |
| 35) RT   | Benzene           | 1.156          | 1.032 | 1.067 | 1.097 | 1.074 | 1.096 | 1.087 | 3.81  |
| 36) RT   | 1,2-Dichloroet... | 0.417          | 0.421 | 0.438 | 0.421 | 0.405 | 0.427 | 0.421 | 2.62  |
| 37) RT   | Trichloroethene   | 0.273          | 0.304 | 0.290 | 0.294 | 0.294 | 0.295 | 0.292 | 3.49  |
| 38) Rt   | 1,2-Dichloropr... | 0.305          | 0.309 | 0.326 | 0.309 | 0.307 | 0.319 | 0.312 | 2.59  |
| 39) t    | Methacrylonitrile | 0.152          | 0.163 | 0.154 | 0.146 | 0.147 | 0.147 | 0.151 | 4.35  |
| 40) t    | Methyl acrylate   | 0.195          | 0.194 | 0.190 | 0.190 | 0.213 | 0.202 | 0.197 | 4.58  |
| 41) t    | Tetrahydrofuran   | 0.082          | 0.076 | 0.073 | 0.072 | 0.071 | 0.076 | 0.075 | 5.32  |
| 42) t    | 1-Chlorobutane    | 0.610          | 0.548 | 0.580 | 0.582 | 0.552 | 0.560 | 0.572 | 4.11  |
| 43) T    | Dibromomethane    | 0.163          | 0.164 | 0.168 | 0.174 | 0.178 | 0.179 | 0.171 | 4.11  |
| 44) T    | Bromodichlorom... | 0.387          | 0.379 | 0.407 | 0.409 | 0.407 | 0.417 | 0.401 | 3.68  |
| 45) T    | 4-Methyl-2-Pen... | 0.235          | 0.235 | 0.250 | 0.267 | 0.273 | 0.281 | 0.257 | 7.64  |
| 46) t    | t-1,4-Dichloro... | 0.058          | 0.064 | 0.051 | 0.106 | 0.103 | 0.117 | 0.083 | 34.51 |
| 47) t    | Methyl methacr... | 0.131          | 0.135 | 0.149 | 0.156 | 0.161 | 0.169 | 0.150 | 9.88  |
| 48) t    | Ethyl methacry... | 0.281          | 0.257 | 0.277 | 0.307 | 0.322 | 0.345 | 0.298 | 10.94 |
| 49) Rt   | Toluene           | 0.632          | 0.610 | 0.656 | 0.691 | 0.719 | 0.733 | 0.674 | 7.27  |
| 50) T    | t-1,3-Dichloro... | 0.324          | 0.307 | 0.345 | 0.372 | 0.391 | 0.420 | 0.360 | 11.82 |
| 51) T    | cis-1,3-Dichlo... | 0.374          | 0.362 | 0.384 | 0.418 | 0.420 | 0.451 | 0.402 | 8.40  |
| 52) RT   | 1,1,2-Trichlor... | 0.248          | 0.221 | 0.227 | 0.242 | 0.235 | 0.245 | 0.236 | 4.53  |
| 53) t    | 1,3-Dichloropr... | 0.424          | 0.378 | 0.400 | 0.404 | 0.413 | 0.425 | 0.407 | 4.35  |
| 54) t    | 2-Hexanone        | 0.160          | 0.164 | 0.177 | 0.189 | 0.200 | 0.209 | 0.183 | 10.76 |
| 55) t    | Dibromochlorom... | 0.260          | 0.254 | 0.280 | 0.290 | 0.292 | 0.307 | 0.281 | 7.27  |
| 56) T    | 1,2-Dibromoethane | 0.248          | 0.224 | 0.219 | 0.235 | 0.236 | 0.244 | 0.235 | 4.80  |
| 57) S    | 4-Bromofluorob... | 0.418          | 0.416 | 0.456 | 0.440 | 0.488 | 0.453 | 0.445 | 6.06  |

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|     |    |                   |       |       |       |       |       |       |       |       |
|-----|----|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 58) | RT | Tetrachloroethene | 0.317 | 0.311 | 0.319 | 0.326 | 0.315 | 0.317 | 0.317 | 1.62  |
| 59) | Rt | Chlorobenzene     | 0.735 | 0.706 | 0.735 | 0.780 | 0.789 | 0.820 | 0.761 | 5.60  |
| 60) | T  | 1,1,1,2-Tetrac... | 0.272 | 0.271 | 0.289 | 0.309 | 0.315 | 0.330 | 0.298 | 8.12  |
| 61) | t  | Pentachloroethane | 0.199 | 0.199 | 0.241 | 0.228 | 0.243 | 0.264 | 0.229 | 11.34 |
| 62) | t  | Hexachloroethane  | 0.199 | 0.206 | 0.219 | 0.249 | 0.263 | 0.284 | 0.237 | 14.33 |
| 63) | Rt | Ethyl Benzene     | 1.123 | 1.112 | 1.224 | 1.357 | 1.434 | 1.510 | 1.293 | 12.80 |
| 64) | RT | m/p-Xylenes       | 0.411 | 0.420 | 0.473 | 0.541 | 0.557 | 0.588 | 0.498 | 14.92 |
| 65) | RT | o-Xylene          | 0.401 | 0.428 | 0.465 | 0.504 | 0.531 | 0.564 | 0.482 | 12.94 |
| 66) | RT | Styrene           | 0.685 | 0.658 | 0.765 | 0.894 | 0.946 | 1.002 | 0.825 | 17.29 |
| 67) | t  | Bromoform         | 0.152 | 0.162 | 0.184 | 0.187 | 0.201 | 0.210 | 0.183 | 12.14 |
| 68) | S  | 1,2-Dichlorobe... | 0.428 | 0.456 | 0.473 | 0.470 | 0.505 | 0.497 | 0.471 | 5.92  |
| 69) | T  | Isopropylbenzene  | 1.085 | 1.105 | 1.255 | 1.383 | 1.458 | 1.579 | 1.311 | 15.07 |
| 70) | T  | 1,1,2,2-Tetrac... | 0.280 | 0.291 | 0.309 | 0.310 | 0.330 | 0.352 | 0.312 | 8.31  |
| 71) | T  | 1,2,3-Trichlor... | 0.220 | 0.225 | 0.275 | 0.253 | 0.262 | 0.238 | 0.246 | 8.88  |
| 72) | t  | Bromobenzene      | 0.370 | 0.313 | 0.360 | 0.371 | 0.388 | 0.409 | 0.368 | 8.70  |
| 73) | t  | n-propylbenzene   | 0.313 | 0.295 | 0.353 | 0.391 | 0.417 | 0.437 | 0.368 | 15.52 |
| 74) | t  | 2-Chlorotoluene   | 0.264 | 0.297 | 0.340 | 0.352 | 0.367 | 0.385 | 0.334 | 13.66 |
| 75) | t  | 1,3,5-Trimethy... | 0.938 | 0.926 | 1.111 | 1.273 | 1.360 | 1.434 | 1.174 | 18.40 |
| 76) | t  | 4-Chlorotoluene   | 0.289 | 0.308 | 0.336 | 0.382 | 0.398 | 0.411 | 0.354 | 14.23 |
| 77) | t  | tert-Butylbenzene | 1.010 | 0.969 | 1.102 | 1.219 | 1.310 | 1.388 | 1.167 | 14.32 |
| 78) | t  | 1,2,4-Trimethy... | 0.929 | 1.001 | 1.160 | 1.301 | 1.403 | 1.476 | 1.212 | 18.15 |
| 79) | t  | sec-Butylbenzene  | 1.325 | 1.310 | 1.501 | 1.656 | 1.782 | 1.865 | 1.573 | 14.82 |
| 80) |    | Nitrobenzene      | 0.006 | 0.007 | 0.008 | 0.010 | 0.011 | 0.008 |       | 24.30 |
| 81) | t  | p-Isopropyltol... | 1.022 | 1.094 | 1.277 | 1.411 | 1.524 | 1.618 | 1.324 | 17.87 |
| 82) | t  | 1,3-Dichlorobe... | 0.648 | 0.661 | 0.735 | 0.760 | 0.793 | 0.815 | 0.735 | 9.30  |
| 83) | Rt | 1,4-Dichlorobe... | 0.671 | 0.662 | 0.715 | 0.766 | 0.804 | 0.820 | 0.739 | 9.12  |
| 84) | t  | n-Butylbenzene    | 0.981 | 1.023 | 1.194 | 1.367 | 1.485 | 1.569 | 1.270 | 19.13 |
| 85) | Rt | 1,2-Dichlorobe... | 0.665 | 0.632 | 0.708 | 0.739 | 0.778 | 0.807 | 0.722 | 9.21  |
| 86) | t  | 1,2-Dibromo-3-... | 0.048 | 0.044 | 0.055 | 0.064 | 0.067 | 0.071 | 0.058 | 18.96 |
| 87) | Rt | 1,2,4-Trichlor... | 0.409 | 0.429 | 0.443 | 0.506 | 0.544 | 0.576 | 0.484 | 13.97 |
| 88) | t  | Hexachlorobuta... | 0.288 | 0.301 | 0.322 | 0.341 | 0.350 | 0.351 | 0.325 | 8.20  |
| 89) | t  | Naphthalene       | 0.570 | 0.643 | 0.814 | 0.909 | 1.021 | 0.791 |       | 23.49 |
| 90) | t  | 1,2,3-Trichlor... | 0.395 | 0.371 | 0.441 | 0.486 | 0.521 | 0.547 | 0.460 | 15.24 |

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 (#) = Out of Range