

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D070824S.M  
 Title : SW846 8260  
 Last Update : Mon Jul 08 17:06:59 2024  
 Response Via : Initial Calibration

## Calibration Files

5 =VD079340.D 10 =VD079342.D 20 =VD079343.D 50 =VD079344.D 100 =VD079345.D 150 =VD079346.D

|        | Compound            | 5              | 10    | 20    | 50    | 100   | 150   | Avg   | %RSD   |
|--------|---------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 1) I   | Pentafluorobenzene  | -----ISTD----- |       |       |       |       |       |       |        |
| 2) T   | Dichlorodifluo...   | 0.531          | 0.451 | 0.499 | 0.429 | 0.436 | 0.435 | 0.464 | 9.00   |
| 3) P   | Chloromethane       | 0.722          | 0.647 | 0.674 | 0.590 | 0.554 | 0.536 | 0.621 | 11.73  |
| 4) C   | Vinyl Chloride      | 0.708          | 0.738 | 0.619 | 0.627 | 0.595 | 0.541 | 0.638 | 11.46# |
| 5) T   | Bromomethane        | 0.578          | 0.430 | 0.448 | 0.415 | 0.401 | 0.392 | 0.444 | 15.44  |
| 6) T   | Chloroethane        | 0.404          | 0.351 | 0.373 | 0.336 | 0.309 | 0.278 | 0.342 | 13.19  |
| 7) T   | Trichlorofluor...   | 1.007          | 0.919 | 1.017 | 0.886 | 0.877 | 0.887 | 0.932 | 6.83   |
| 8) T   | Diethyl Ether       | 0.314          | 0.256 | 0.296 | 0.290 | 0.316 | 0.315 | 0.298 | 7.80   |
| 9) T   | 1,1,2-Trichlor...   | 0.604          | 0.570 | 0.623 | 0.562 | 0.577 | 0.572 | 0.585 | 4.02   |
| 10) T  | Methyl Iodide       | 0.546          | 0.544 | 0.665 | 0.681 | 0.714 | 0.719 | 0.645 | 12.40  |
| 11) T  | Tert butyl alc...   | 0.044          | 0.041 | 0.038 | 0.033 | 0.036 | 0.034 | 0.038 | 11.16  |
| 12) CM | 1,1-Dichloroet...   | 0.582          | 0.545 | 0.621 | 0.568 | 0.581 | 0.587 | 0.581 | 4.28#  |
| 13) T  | Acrolein            | 0.047          | 0.057 | 0.050 | 0.040 | 0.043 | 0.042 | 0.047 | 13.26  |
| 14) T  | Allyl chloride      | 0.730          | 0.675 | 0.761 | 0.730 | 0.782 | 0.761 | 0.740 | 5.09   |
| 15) T  | Acrylonitrile       | 0.133          | 0.121 | 0.146 | 0.138 | 0.145 | 0.140 | 0.137 | 6.84   |
| 16) T  | Acetone             | 0.122          | 0.104 | 0.114 | 0.113 | 0.112 | 0.108 | 0.112 | 5.28   |
| 17) T  | Carbon Disulfide    | 1.941          | 1.732 | 1.939 | 1.793 | 1.809 | 1.793 | 1.834 | 4.67   |
| 18) T  | Methyl Acetate      | 0.363          | 0.373 | 0.371 | 0.332 | 0.345 | 0.319 | 0.351 | 6.35   |
| 19) T  | Methyl tert-bu...   | 1.146          | 1.161 | 1.323 | 1.318 | 1.418 | 1.376 | 1.290 | 8.69   |
| 20) T  | Methylene Chlo...   | 1.984          | 1.546 | 1.163 | 0.868 | 0.785 | 0.735 | 1.180 | 42.07  |
| 21) T  | trans-1,2-Dich...   | 0.616          | 0.625 | 0.680 | 0.639 | 0.659 | 0.651 | 0.645 | 3.60   |
| 22) T  | Diisopropyl ether   | 1.466          | 1.560 | 1.815 | 1.737 | 1.715 | 1.649 | 1.657 | 7.67   |
| 23) T  | Vinyl Acetate       | 1.096          | 1.112 | 1.325 | 1.342 | 1.408 | 1.325 | 1.268 | 10.33  |
| 24) P  | 1,1-Dichloroet...   | 1.141          | 1.097 | 1.172 | 1.107 | 1.116 | 1.071 | 1.117 | 3.17   |
| 25) T  | 2-Butanone          | 0.152          | 0.150 | 0.161 | 0.159 | 0.172 | 0.160 | 0.159 | 4.86   |
| 26) T  | 2,2-Dichloropr...   | 1.033          | 0.922 | 0.989 | 0.887 | 0.903 | 0.880 | 0.936 | 6.60   |
| 27) T  | cis-1,2-Dichlo...   | 0.711          | 0.719 | 0.775 | 0.758 | 0.776 | 0.779 | 0.753 | 4.04   |
| 28) T  | Bromochloromet...   | 0.463          | 0.557 | 0.489 | 0.461 | 0.441 | 0.414 | 0.471 | 10.39  |
| 29) T  | Tetrahydrofuran     | 0.090          | 0.081 | 0.103 | 0.099 | 0.108 | 0.101 | 0.097 | 10.05  |
| 30) C  | Chloroform          | 1.157          | 1.175 | 1.246 | 1.169 | 1.160 | 1.131 | 1.173 | 3.30#  |
| 31) T  | Cyclohexane         | 1.044          | 0.806 | 0.915 | 0.839 | 0.876 | 0.866 | 0.891 | 9.37   |
| 32) T  | 1,1,1-Trichlor...   | 1.008          | 0.936 | 1.075 | 0.942 | 0.968 | 0.954 | 0.980 | 5.39   |
| 33) S  | 1,2-Dichloroet...   | 0.629          | 0.666 | 0.575 | 0.566 | 0.553 | 0.547 | 0.589 | 8.04   |
| 34) I  | 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |
| 35) S  | Dibromofluorom...   | 0.354          | 0.367 | 0.361 | 0.340 | 0.349 | 0.346 | 0.353 | 2.85   |
| 36) T  | 1,1-Dichloropr...   | 0.442          | 0.394 | 0.468 | 0.448 | 0.471 | 0.466 | 0.448 | 6.48   |
| 37) T  | Ethyl Acetate       | 0.192          | 0.162 | 0.195 | 0.198 | 0.217 | 0.201 | 0.194 | 9.38   |
| 38) T  | Carbon Tetrach...   | 0.453          | 0.454 | 0.500 | 0.463 | 0.485 | 0.475 | 0.472 | 3.90   |
| 39) T  | Methylcyclohexane   | 0.465          | 0.421 | 0.526 | 0.533 | 0.591 | 0.599 | 0.523 | 13.33  |
| 40) TM | Benzene             | 1.328          | 1.310 | 1.500 | 1.441 | 1.525 | 1.503 | 1.435 | 6.55   |
| 41) T  | Methacrylonitrile   | 0.083          | 0.076 | 0.093 | 0.110 | 0.121 | 0.116 | 0.100 | 18.57  |
| 42) TM | 1,2-Dichloroet...   | 0.320          | 0.345 | 0.364 | 0.346 | 0.358 | 0.347 | 0.347 | 4.42   |
| 43) T  | Isopropyl Acetate   | 0.322          | 0.303 | 0.359 | 0.363 | 0.397 | 0.384 | 0.355 | 10.18  |
| 44) TM | Trichloroethene     | 0.337          | 0.311 | 0.362 | 0.336 | 0.353 | 0.353 | 0.342 | 5.35   |
| 45) C  | 1,2-Dichloropr...   | 0.305          | 0.328 | 0.376 | 0.358 | 0.372 | 0.361 | 0.350 | 7.89#  |
| 46) T  | Dibromomethane      | 0.186          | 0.194 | 0.219 | 0.207 | 0.216 | 0.209 | 0.205 | 6.26   |
| 47) T  | Bromodichlorom...   | 0.475          | 0.479 | 0.527 | 0.507 | 0.519 | 0.506 | 0.502 | 4.21   |
| 48) T  | Methyl methacr...   | 0.137          | 0.122 | 0.161 | 0.170 | 0.181 | 0.180 | 0.159 | 15.20  |
| 49) T  | 1,4-Dioxane         | 0.003          | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 12.13  |
| 50) S  | Toluene-d8          | 1.267          | 1.371 | 1.354 | 1.377 | 1.388 | 1.402 | 1.360 | 3.55   |
| 51) T  | 4-Methyl-2-Pen...   | 0.154          | 0.165 | 0.198 | 0.199 | 0.217 | 0.206 | 0.190 | 13.05  |
| 52) CM | Toluene             | 0.732          | 0.780 | 0.936 | 0.912 | 0.970 | 0.970 | 0.883 | 11.55# |
| 53) T  | t-1,3-Dichloro...   | 0.398          | 0.403 | 0.474 | 0.466 | 0.493 | 0.494 | 0.455 | 9.52   |
| 54) T  | cis-1,3-Dichlo...   | 0.474          | 0.506 | 0.563 | 0.554 | 0.582 | 0.580 | 0.543 | 8.04   |
| 55) T  | 1,1,2-Trichlor...   | 0.234          | 0.270 | 0.298 | 0.281 | 0.287 | 0.283 | 0.276 | 8.13   |
| 56) T  | Ethyl methacry...   | 0.234          | 0.268 | 0.321 | 0.356 | 0.397 | 0.387 | 0.327 | 20.11  |

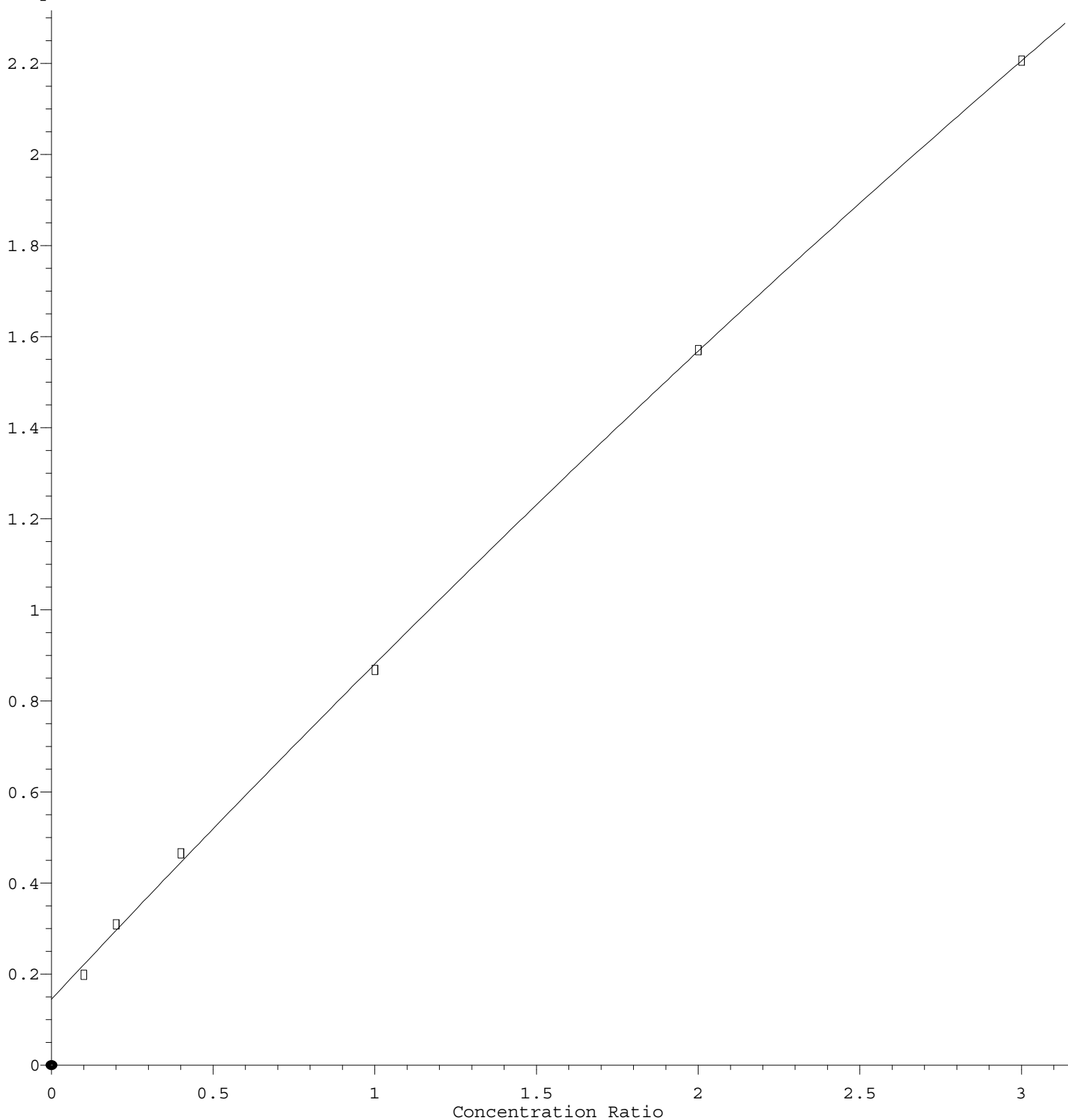
Method Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\  
 Method File : 82D070824S.M

|     |    |                       |                |       |       |       |       |       |       |        |
|-----|----|-----------------------|----------------|-------|-------|-------|-------|-------|-------|--------|
| 57) | T  | 1,3-Dichloropr...     | 0.398          | 0.415 | 0.471 | 0.462 | 0.492 | 0.477 | 0.452 | 8.27   |
| 58) | T  | 2-Chloroethyl ...     | 0.116          | 0.117 | 0.148 | 0.167 | 0.171 | 0.166 | 0.147 | 17.07  |
| 59) | T  | 2-Hexanone            | 0.114          | 0.110 | 0.139 | 0.144 | 0.158 | 0.148 | 0.136 | 14.22  |
| 60) | T  | Dibromochlorom...     | 0.308          | 0.342 | 0.384 | 0.350 | 0.373 | 0.366 | 0.354 | 7.65   |
| 61) | T  | 1,2-Dibromoethane     | 0.236          | 0.238 | 0.272 | 0.262 | 0.278 | 0.273 | 0.260 | 7.16   |
| 62) | S  | 4-Bromofluorob...     | 0.396          | 0.404 | 0.417 | 0.423 | 0.440 | 0.456 | 0.423 | 5.29   |
| 63) | I  | Chlorobenzene-d5      | -----ISTD----- |       |       |       |       |       |       |        |
| 64) | T  | Tetrachloroethene     | 0.280          | 0.264 | 0.303 | 0.287 | 0.310 | 0.314 | 0.293 | 6.59   |
| 65) | PM | Chlorobenzene         | 0.991          | 0.987 | 1.114 | 1.034 | 1.091 | 1.080 | 1.049 | 5.13   |
| 66) | T  | 1,1,1,2-Tetrac...     | 0.334          | 0.311 | 0.374 | 0.358 | 0.376 | 0.371 | 0.354 | 7.38   |
| 67) | C  | Ethyl Benzene         | 1.520          | 1.476 | 1.782 | 1.820 | 1.955 | 1.960 | 1.752 | 11.96# |
| 68) | T  | m/p-Xylenes           | 0.567          | 0.545 | 0.708 | 0.715 | 0.758 | 0.765 | 0.677 | 14.20  |
| 69) | T  | o-Xylene              | 0.525          | 0.535 | 0.640 | 0.655 | 0.719 | 0.724 | 0.633 | 13.69  |
| 70) | T  | Styrene               | 0.928          | 0.915 | 1.168 | 1.201 | 1.287 | 1.278 | 1.130 | 14.81  |
| 71) | P  | Bromoform             | 0.180          | 0.188 | 0.215 | 0.210 | 0.222 | 0.216 | 0.205 | 8.28   |
| 72) | I  | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |        |
| 73) | T  | Isopropylbenzene      | 3.028          | 2.812 | 3.418 | 3.473 | 3.595 | 3.699 | 3.337 | 10.33  |
| 74) | T  | N-amyl acetate        | 0.695          | 0.640 | 0.758 | 0.796 | 0.815 | 0.796 | 0.750 | 9.14   |
| 75) | P  | 1,1,2,2-Tetrac...     | 0.679          | 0.696 | 0.746 | 0.706 | 0.706 | 0.699 | 0.705 | 3.17   |
| 76) | T  | 1,2,3-Trichlor...     | 0.505          | 0.508 | 0.417 | 0.529 | 0.421 | 0.501 | 0.480 | 10.06  |
| 77) | T  | Bromobenzene          | 0.703          | 0.739 | 0.826 | 0.806 | 0.824 | 0.841 | 0.790 | 7.06   |
| 78) | T  | n-propylbenzene       | 3.721          | 3.550 | 4.395 | 4.342 | 4.441 | 4.509 | 4.160 | 9.94   |
| 79) | T  | 2-Chlorotoluene       | 2.124          | 2.114 | 2.515 | 2.495 | 2.512 | 2.553 | 2.386 | 8.69   |
| 80) | T  | 1,3,5-Trimethy...     | 2.468          | 2.405 | 2.977 | 2.976 | 3.027 | 3.120 | 2.829 | 10.92  |
| 81) | T  | trans-1,4-Dich...     | 0.245          | 0.235 | 0.264 | 0.266 | 0.258 | 0.261 | 0.255 | 4.79   |
| 82) | T  | 4-Chlorotoluene       | 2.288          | 2.246 | 2.744 | 2.649 | 2.633 | 2.673 | 2.539 | 8.44   |
| 83) | T  | tert-Butylbenzene     | 2.129          | 1.926 | 2.416 | 2.438 | 2.564 | 2.701 | 2.362 | 12.10  |
| 84) | T  | 1,2,4-Trimethy...     | 2.428          | 2.400 | 3.020 | 3.035 | 3.130 | 3.203 | 2.869 | 12.52  |
| 85) | T  | sec-Butylbenzene      | 3.193          | 3.075 | 3.756 | 3.757 | 3.942 | 4.000 | 3.621 | 10.80  |
| 86) | T  | p-Isopropyltol...     | 2.520          | 2.413 | 3.090 | 3.166 | 3.358 | 3.444 | 2.998 | 14.42  |
| 87) | T  | 1,3-Dichlorobe...     | 1.560          | 1.535 | 1.739 | 1.690 | 1.721 | 1.746 | 1.665 | 5.62   |
| 88) | T  | 1,4-Dichlorobe...     | 1.678          | 1.606 | 1.753 | 1.657 | 1.675 | 1.687 | 1.676 | 2.84   |
| 89) | T  | n-Butylbenzene        | 2.637          | 2.454 | 3.001 | 3.032 | 3.154 | 3.211 | 2.915 | 10.36  |
| 90) | T  | Hexachloroethane      | 0.695          | 0.603 | 0.690 | 0.654 | 0.661 | 0.672 | 0.662 | 4.99   |
| 91) | T  | 1,2-Dichlorobe...     | 1.428          | 1.357 | 1.555 | 1.500 | 1.507 | 1.515 | 1.477 | 4.85   |
| 92) | T  | 1,2-Dibromo-3-...     | 0.093          | 0.096 | 0.104 | 0.097 | 0.104 | 0.101 | 0.099 | 4.43   |
| 93) | T  | 1,2,4-Trichlor...     | 0.812          | 0.705 | 0.802 | 0.826 | 0.907 | 0.929 | 0.830 | 9.73   |
| 94) | T  | Hexachlorobuta...     | 0.452          | 0.404 | 0.447 | 0.421 | 0.454 | 0.464 | 0.440 | 5.20   |
| 95) | T  | Naphthalene           | 1.541          | 1.370 | 1.618 | 1.725 | 1.998 | 1.650 |       | 14.15  |
| 96) | T  | 1,2,3-Trichlor...     | 0.702          | 0.638 | 0.730 | 0.746 | 0.806 | 0.828 | 0.742 | 9.36   |

(#) = Out of Range

# Methylene Chloride

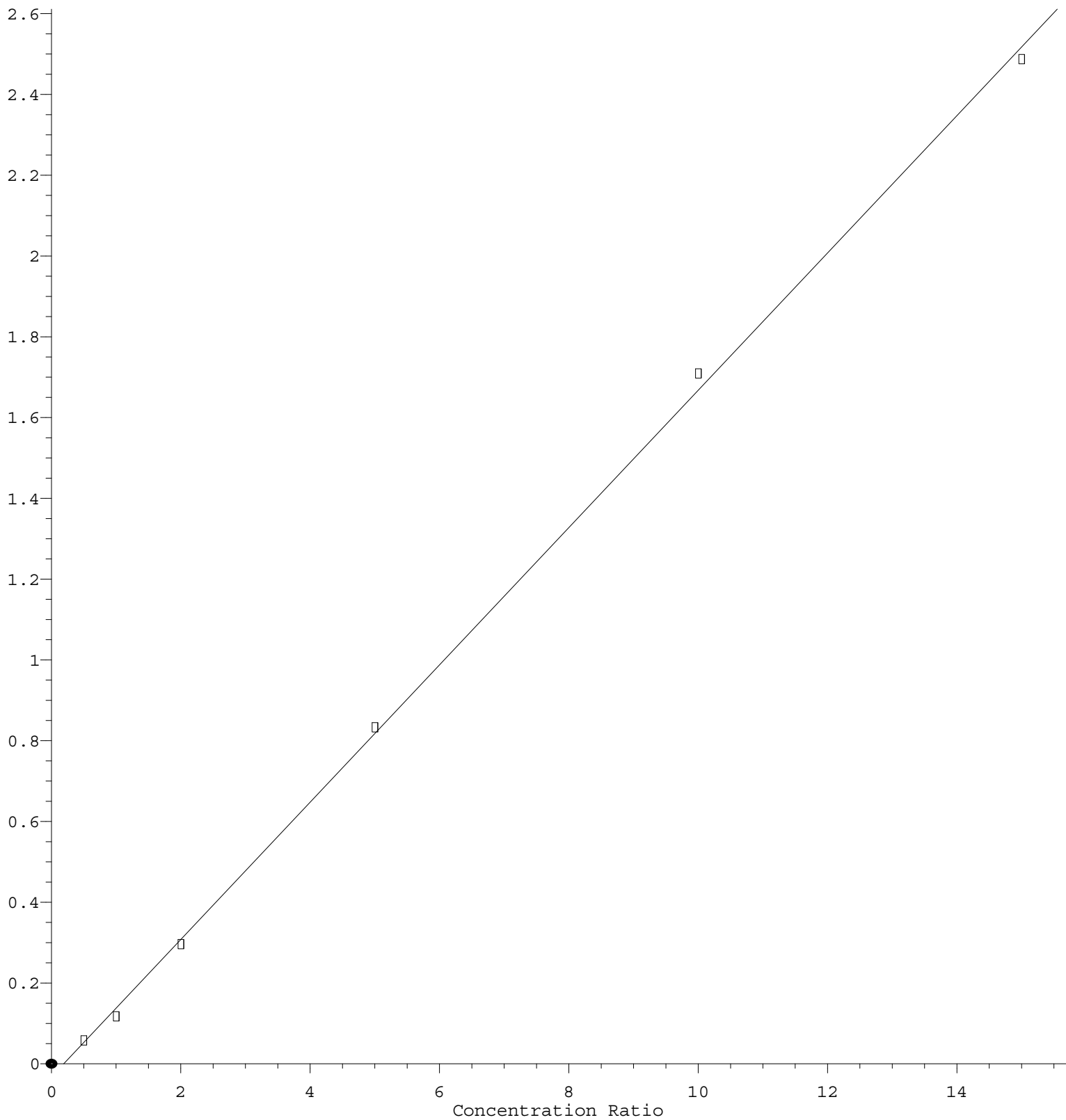
Response Ratio



$R = -2.453e-002 A^2 + 7.606e-001 A + 1.449e-001$   
 Coef of Det ( $r^2$ ) = 0.999610    Curve Fit: Quadratic  
 Method Name:    Z:\voasrv\HPCHEM1\MSVOA D\Method\82D070824S.M  
 Calibration Table Last Updated: Mon Jul 08 17:06:59 2024

## 2-Chloroethyl Vinyl ether

Response Ratio



$$\text{Response} = 1.700\text{e-}001 * \text{Amt} - 3.221\text{e-}002$$

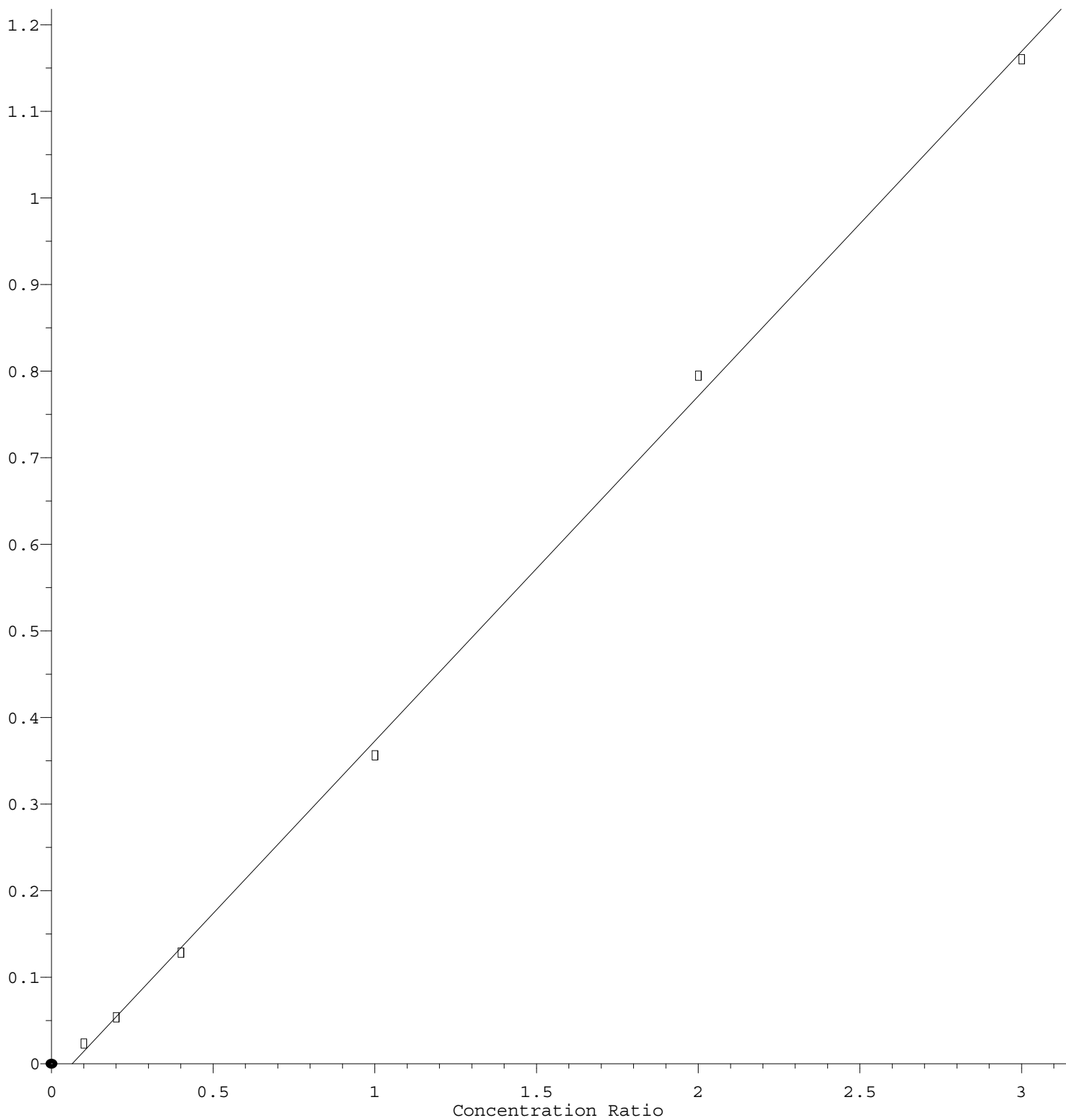
Coef of Det ( $r^2$ ) = 0.999291 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D070824S.M

Calibration Table Last Updated: Mon Jul 08 17:06:59 2024

## Ethyl methacrylate

Response Ratio



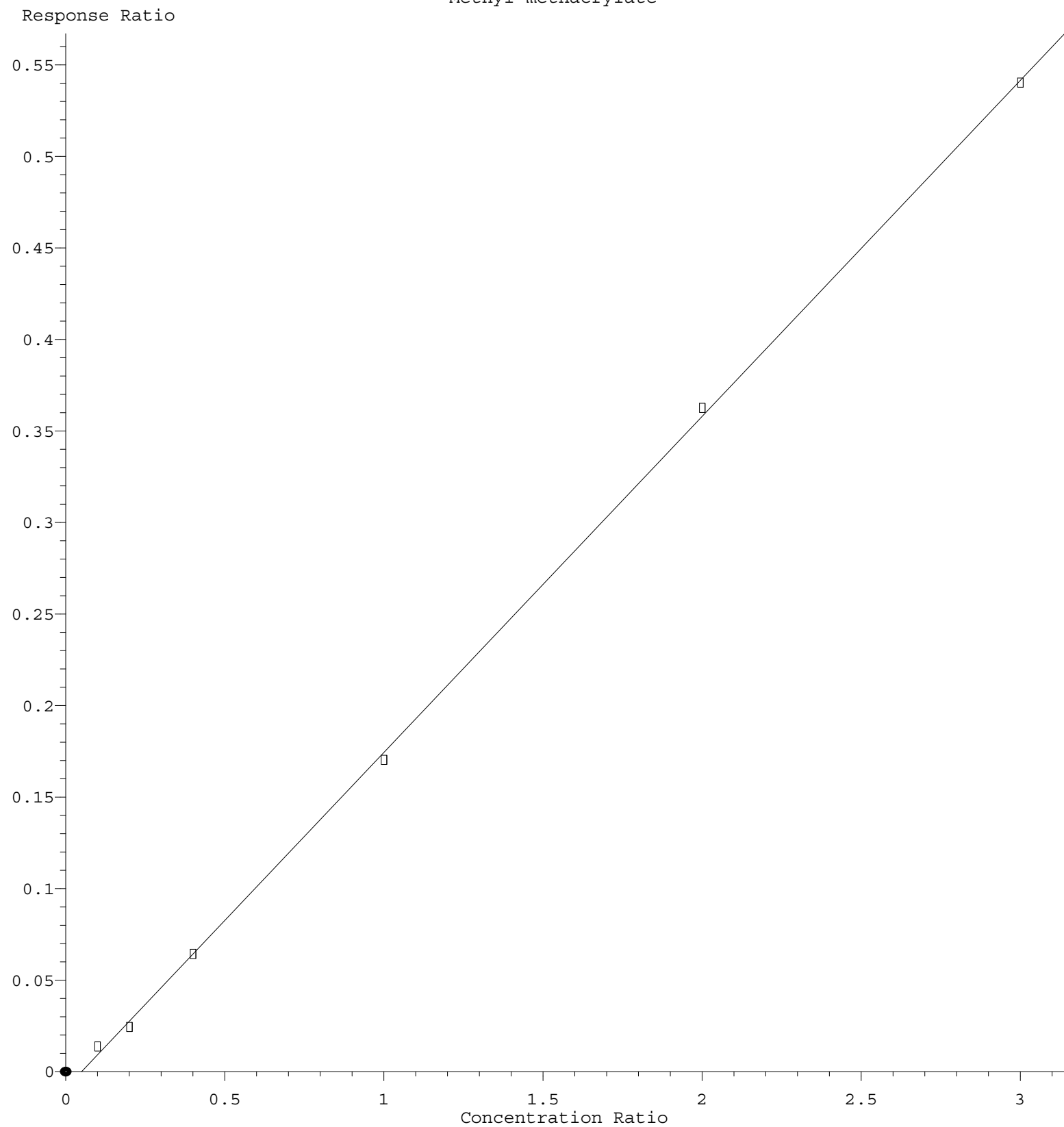
$$\text{Response} = 3.984\text{e-}001 * \text{Amt} - 2.550\text{e-}002$$

Coef of Det ( $r^2$ ) = 0.999037 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D070824S.M

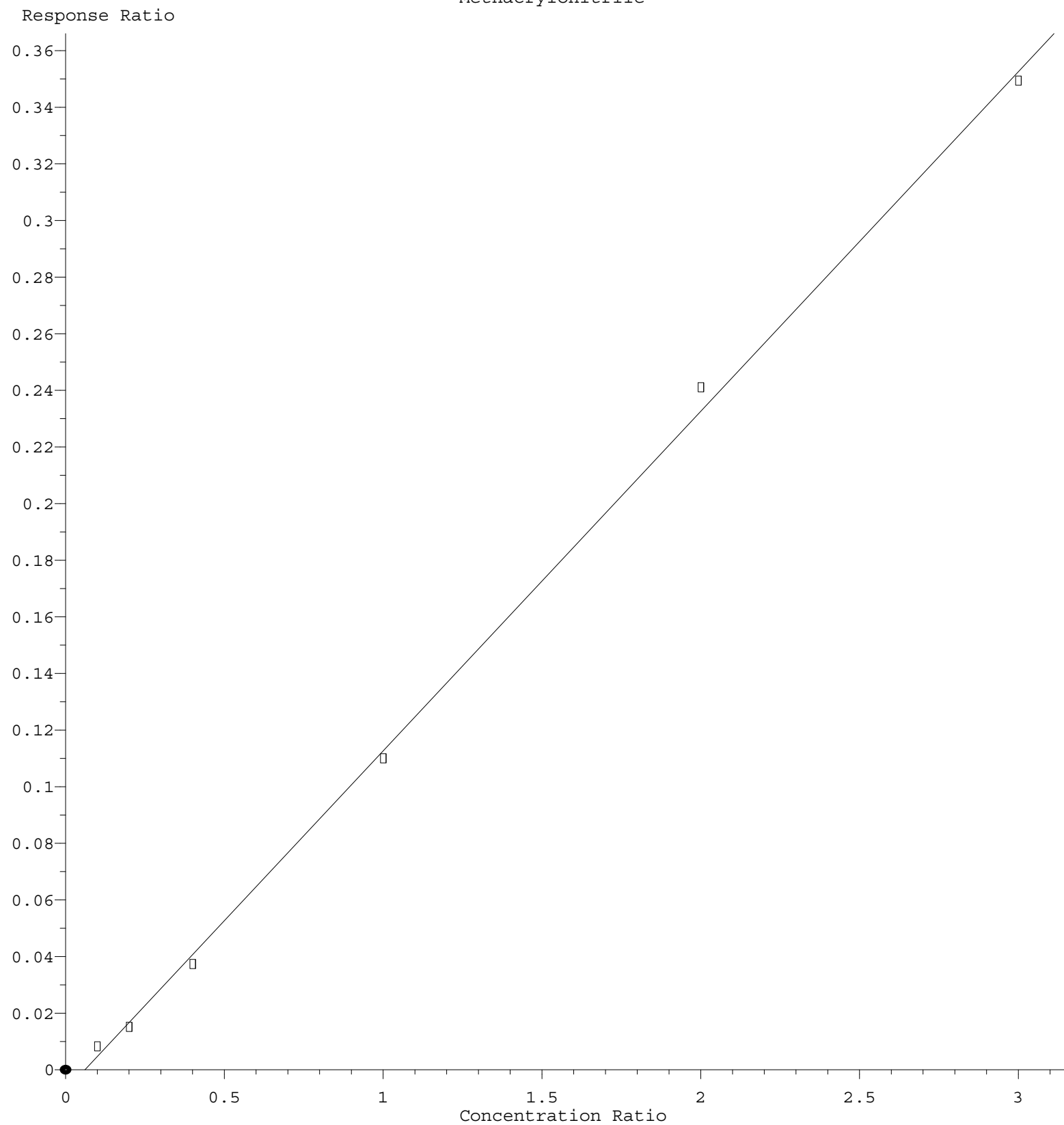
Calibration Table Last Updated: Mon Jul 08 17:06:59 2024

## Methyl methacrylate



Response =  $1.836 \times 10^{-1} \times \text{Amt} - 9.107 \times 10^{-3}$   
Coef of Det ( $r^2$ ) = 0.999690    Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D070824S.M  
Calibration Table Last Updated: Mon Jul 08 17:06:59 2024

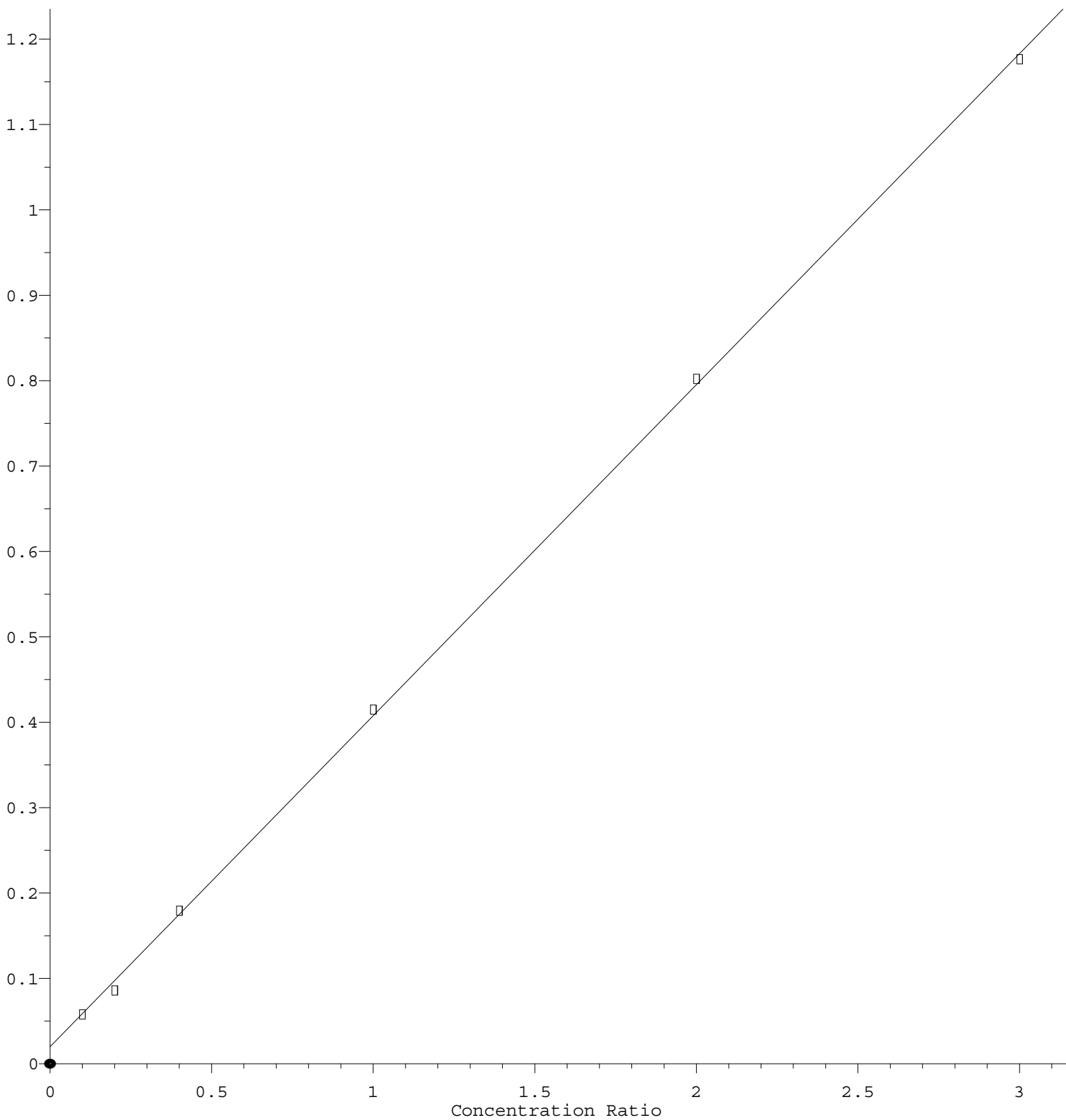
## Methacrylonitrile



Response = 1.202e-001 \* Amt - 7.390e-003  
Coef of Det ( $r^2$ ) = 0.998831 Curve Fit: Linear  
Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D070824S.M  
Calibration Table Last Updated: Mon Jul 08 17:06:59 2024

# Bromomethane

Response Ratio



$$\text{Response} = 3.878\text{e-}001 * \text{Amt} + 1.957\text{e-}002$$

Coef of Det (r^2) = 0.999712 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D070824S.M

Calibration Table Last Updated: Mon Jul 08 17:06:59 2024