

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
 Method File : 82D072924S.M
 Title : SW846 8260
 Last Update : Tue Jul 30 03:50:47 2024
 Response Via : Initial Calibration

Calibration Files

5 =VD079445.D 10 =VD079439.D 20 =VD079440.D 50 =VD079441.D 100 =VD079442.D 150 =VD079443.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.414	0.400	0.378	0.386	0.364	0.408	0.392	4.85
3) P	Chloromethane	0.806	0.741	0.711	0.693	0.640	0.740	0.722	7.70
4) C	Vinyl Chloride	0.886	0.843	0.839	0.871	0.798	0.912	0.858	4.70#
5) T	Bromomethane	0.882	0.580	0.583	0.554	0.525		0.625	23.34
6) T	Chloroethane	0.626	0.528	0.515	0.527	0.493	0.621	0.552	10.35
7) T	Trichlorofluor...	0.902	0.856	0.830	0.871	0.788	0.874	0.854	4.66
8) T	Diethyl Ether	0.260	0.231	0.258	0.235	0.260	0.303	0.258	10.00
9) T	1,1,2-Trichlor...	0.594	0.537	0.520	0.551	0.491	0.547	0.540	6.35
10) T	Methyl Iodide	0.470	0.525	0.577	0.725	0.698	0.803	0.633	20.35
11) T	Tert butyl alc...	0.040	0.029	0.029	0.020	0.027	0.030	0.029	21.69
12) CM	1,1-Dichloroet...	0.568	0.514	0.513	0.556	0.507	0.583	0.540	6.08#
13) T	Acrolein	0.049	0.049	0.050	0.032	0.042	0.047	0.045	15.27
14) T	Allyl chloride	0.738	0.632	0.653	0.720	0.706	0.832	0.713	9.92
15) T	Acrylonitrile	0.132	0.116	0.123	0.098	0.118	0.135	0.120	10.94
16) T	Acetone	0.105	0.097	0.089	0.086	0.103	0.112	0.099	9.97
17) T	Carbon Disulfide	1.862	1.708	1.703	1.848	1.670	1.908	1.783	5.65
18) T	Methyl Acetate	0.355	0.312	0.327	0.241	0.277	0.328	0.306	13.42
19) T	Methyl tert-bu...	1.112	0.980	1.095	0.995	1.138	1.295	1.103	10.34
20) T	Methylene Chlo...	2.238	1.939	0.998	0.742	0.673	0.714	1.218	56.73
21) T	trans-1,2-Dich...	0.638	0.554	0.584	0.630	0.584	0.652	0.607	6.35
22) T	Diisopropyl ether	1.566	1.442	1.568	1.575	1.577	1.796	1.587	7.23
23) T	Vinyl Acetate	1.169	1.024	1.192	1.102	1.262	1.411	1.193	11.22
24) P	1,1-Dichloroet...	1.151	1.017	1.026	1.066	0.988	1.134	1.064	6.25
25) T	2-Butanone	0.156	0.131	0.132	0.115	0.144	0.162	0.140	12.48
26) T	2,2-Dichloropr...	0.939	0.820	0.777	0.886	0.815	0.926	0.860	7.65
27) T	cis-1,2-Dichlo...	0.694	0.641	0.663	0.715	0.681	0.770	0.694	6.50
28) T	Bromochloromet...	0.534	0.497	0.462	0.398	0.438	0.470	0.466	10.12
29) T	Tetrahydrofuran	0.093	0.078	0.087	0.070	0.090	0.102	0.087	13.14
30) C	Chloroform	1.174	1.026	1.077	1.069	0.998	1.120	1.077	5.88#
31) T	Cyclohexane	0.973	0.787	0.775	0.843	0.787	0.897	0.844	9.30
32) T	1,1,1-Trichlor...	0.927	0.859	0.870	0.916	0.827	0.935	0.889	4.87
33) S	1,2-Dichloroet...	0.539	0.547	0.481	0.460	0.494	0.526	0.508	6.91
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.354	0.352	0.319	0.336	0.325	0.345	0.338	4.28
36) T	1,1-Dichloropr...	0.451	0.430	0.422	0.505	0.456	0.507	0.462	7.92
37) T	Ethyl Acetate	0.200	0.176	0.184	0.165	0.200	0.211	0.189	9.10
38) T	Carbon Tetrach...	0.494	0.456	0.468	0.527	0.458	0.511	0.486	6.11
39) T	Methylcyclohexane	0.520	0.469	0.484	0.610	0.582	0.642	0.551	12.79
40) TM	Benzene	1.466	1.367	1.387	1.566	1.419	1.597	1.467	6.49
41) T	Methacrylonitrile	0.111	0.100	0.098	0.082	0.110	0.125	0.104	13.81
42) TM	1,2-Dichloroet...	0.373	0.344	0.347	0.337	0.334	0.363	0.350	4.37
43) T	Isopropyl Acetate	0.368	0.326	0.356	0.311	0.370	0.405	0.356	9.42
44) TM	Trichloroethene	0.366	0.349	0.344	0.389	0.353	0.391	0.365	5.54
45) C	1,2-Dichloropr...	0.368	0.327	0.345	0.368	0.347	0.386	0.357	5.93#
46) T	Dibromomethane	0.209	0.191	0.199	0.189	0.190	0.211	0.198	4.92
47) T	Bromodichlorom...	0.496	0.468	0.471	0.493	0.466	0.521	0.486	4.41
48) T	Methyl methacr...	0.156	0.136	0.149	0.147	0.173	0.194	0.159	13.21
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	9.08
50) S	Toluene-d8	1.254	1.303	1.179	1.370	1.354	1.426	1.314	6.75
51) T	4-Methyl-2-Pen...	0.172	0.166	0.189	0.158	0.194	0.211	0.182	11.02
52) CM	Toluene	0.846	0.804	0.866	0.994	0.917	1.016	0.907	9.31#
53) T	t-1,3-Dichloro...	0.431	0.417	0.436	0.442	0.458	0.509	0.449	7.20
54) T	cis-1,3-Dichlo...	0.531	0.484	0.520	0.555	0.542	0.607	0.540	7.55
55) T	1,1,2-Trichlor...	0.271	0.245	0.272	0.249	0.252	0.275	0.261	5.22
56) T	Ethyl methacry...	0.285	0.258	0.293	0.293	0.343	0.381	0.309	14.43

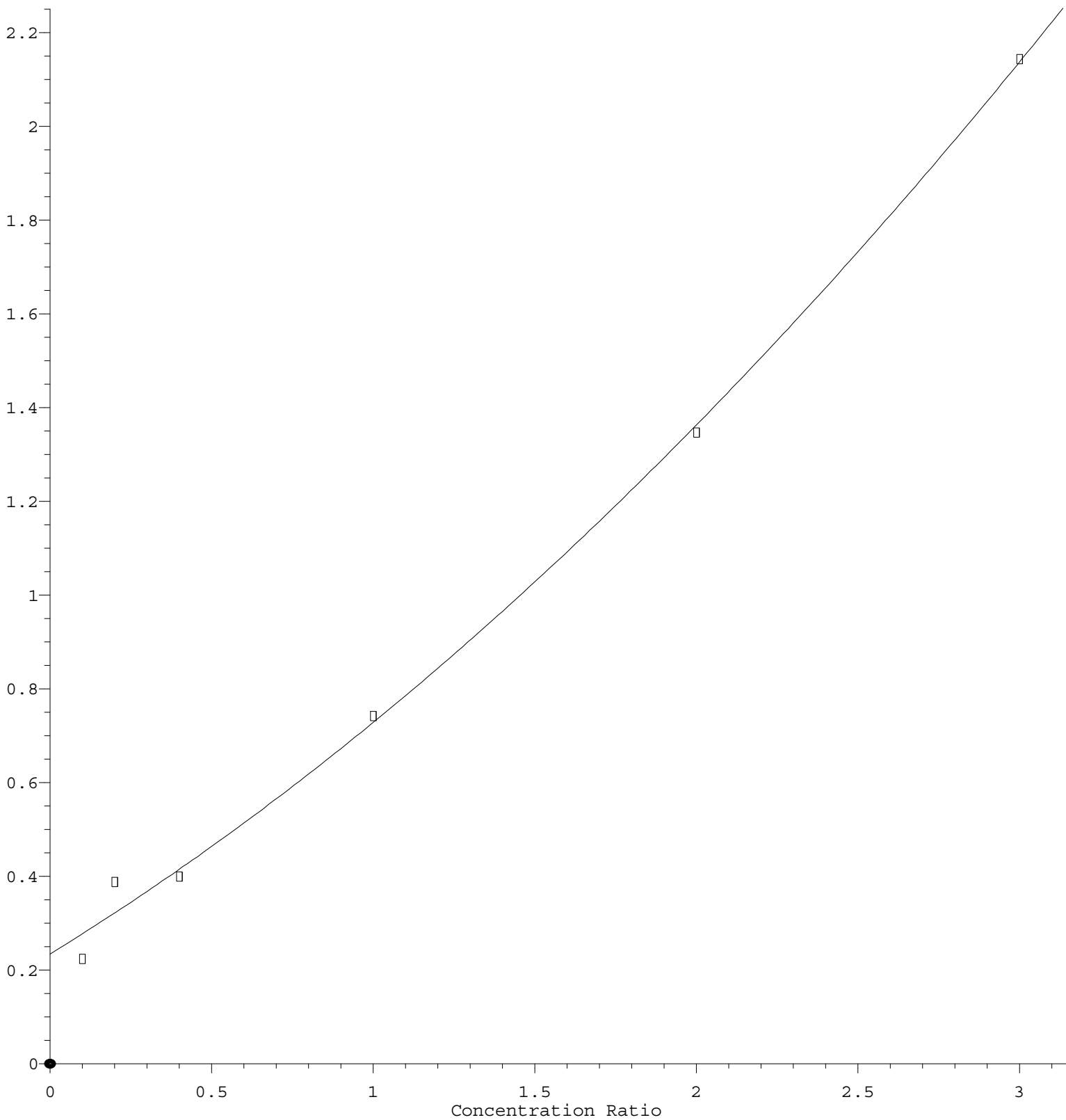
Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
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57)	T	1,3-Dichloropr...	0.448	0.421	0.436	0.424	0.441	0.488	0.443	5.49
58)	T	2-Chloroethyl ...	0.130	0.133	0.127	0.132	0.160	0.172	0.142	13.08
59)	T	2-Hexanone	0.113	0.111	0.125	0.114	0.143	0.153	0.127	13.93
60)	T	Dibromochlorom...	0.347	0.331	0.344	0.331	0.329	0.362	0.341	3.81
61)	T	1,2-Dibromoethane	0.261	0.235	0.241	0.231	0.237	0.260	0.244	5.39
62)	S	4-Bromofluorob...	0.377	0.371	0.336	0.385	0.398	0.416	0.380	7.13
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.334	0.329	0.317	0.367	0.328	0.348	0.337	5.25
65)	PM	Chlorobenzene	1.128	1.039	1.036	1.178	1.086	1.176	1.107	5.77
66)	T	1,1,1,2-Tetrac...	0.363	0.332	0.352	0.386	0.361	0.392	0.364	6.11
67)	C	Ethyl Benzene	1.655	1.543	1.637	2.040	1.895	2.104	1.813	12.85#
68)	T	m/p-Xylenes	0.648	0.628	0.665	0.805	0.745	0.824	0.719	11.70
69)	T	o-Xylene	0.598	0.536	0.604	0.743	0.700	0.774	0.659	14.23
70)	T	Styrene	1.014	0.991	1.100	1.297	1.212	1.319	1.156	12.25
71)	P	Bromoform	0.215	0.214	0.203	0.192	0.203	0.208	0.206	4.16
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.995	2.807	2.953	3.911	3.569	4.068	3.384	15.91
74)	T	N-amyl acetate	0.675	0.635	0.708	0.679	0.816	0.900	0.735	13.76
75)	P	1,1,2,2-Tetrac...	0.699	0.635	0.636	0.596	0.637	0.694	0.650	6.13
76)	T	1,2,3-Trichlor...	0.442	0.454	0.473	0.355	0.384	0.514	0.437	13.40
77)	T	Bromobenzene	0.804	0.796	0.780	0.892	0.832	0.925	0.838	6.92
78)	T	n-propylbenzene	3.745	3.525	3.723	4.805	4.389	4.890	4.180	14.21
79)	T	2-Chlorotoluene	2.189	2.006	2.118	2.611	2.365	2.674	2.327	11.66
80)	T	1,3,5-Trimethy...	2.469	2.332	2.478	3.199	2.930	3.303	2.785	14.89
81)	T	trans-1,4-Dich...	0.220	0.210	0.225	0.207	0.249	0.265	0.229	10.08
82)	T	4-Chlorotoluene	2.317	2.069	2.286	2.687	2.453	2.744	2.426	10.58
83)	T	tert-Butylbenzene	2.102	2.063	2.143	2.780	2.597	2.923	2.435	15.56
84)	T	1,2,4-Trimethy...	2.463	2.358	2.582	3.244	3.001	3.387	2.839	15.18
85)	T	sec-Butylbenzene	3.272	3.147	3.303	4.227	3.919	4.359	3.705	14.32
86)	T	p-Isopropyltol...	2.679	2.613	2.775	3.585	3.377	3.818	3.141	16.47
87)	T	1,3-Dichlorobe...	1.789	1.571	1.610	1.842	1.700	1.907	1.737	7.63
88)	T	1,4-Dichlorobe...	1.863	1.615	1.561	1.767	1.627	1.812	1.707	7.18
89)	T	n-Butylbenzene	2.599	2.428	2.535	3.325	3.117	3.518	2.920	15.72
90)	T	Hexachloroethane	0.626	0.590	0.587	0.707	0.653	0.725	0.648	9.01
91)	T	1,2-Dichlorobe...	1.544	1.371	1.411	1.545	1.440	1.594	1.484	5.97
92)	T	1,2-Dibromo-3-...	0.091	0.079	0.086	0.079	0.087	0.096	0.086	7.75
93)	T	1,2,4-Trichlor...	0.995	0.780	0.853	0.942	0.962	1.078	0.935	11.27
94)	T	Hexachlorobuta...	0.494	0.460	0.454	0.546	0.512	0.563	0.505	8.78
95)	T	Naphthalene	1.801	1.416	1.511	1.544	1.820	1.619		11.23
96)	T	1,2,3-Trichlor...	0.846	0.732	0.758	0.807	0.838	0.955	0.823	9.55

(#) = Out of Range

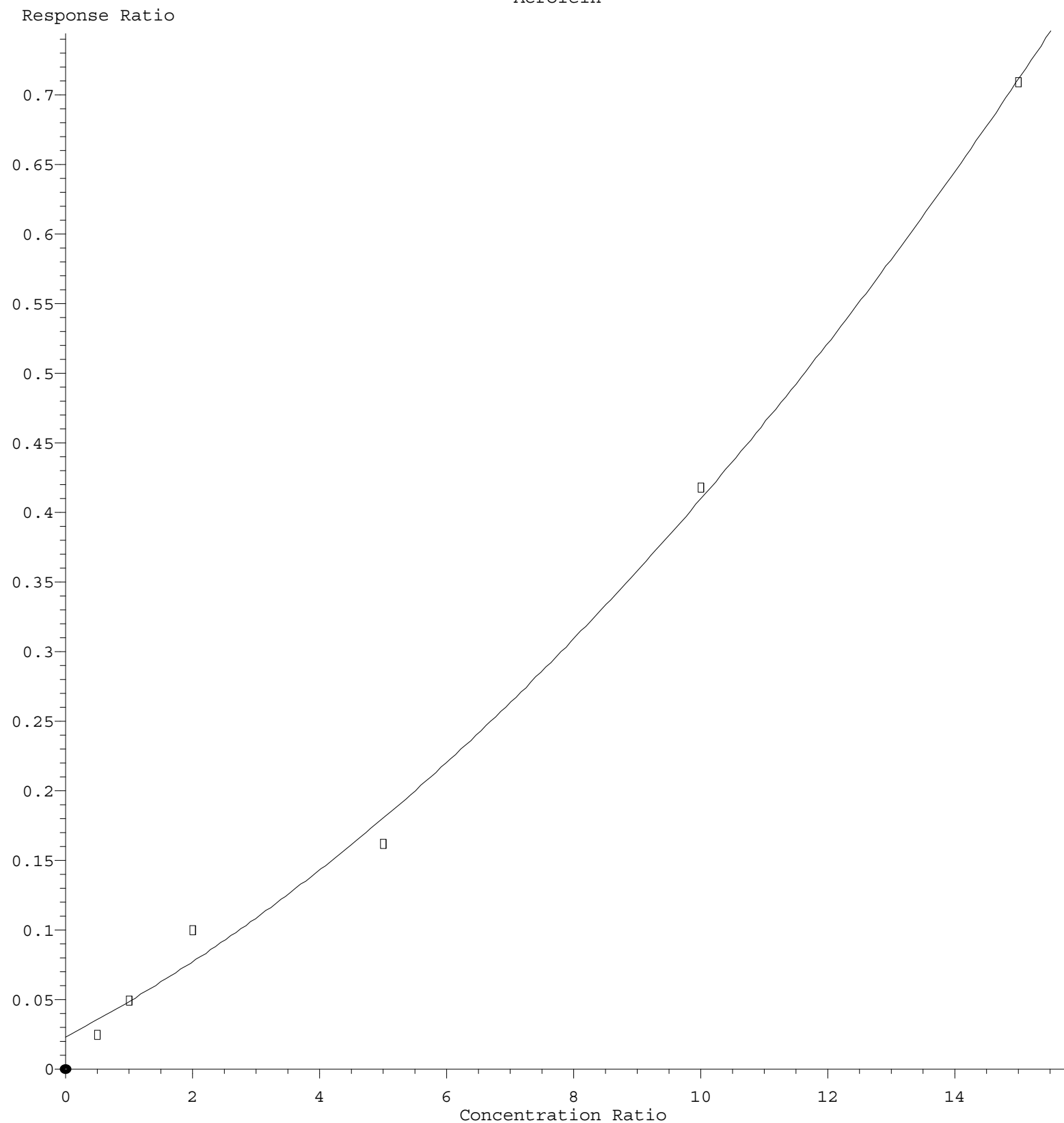
Methylene Chloride

Response Ratio



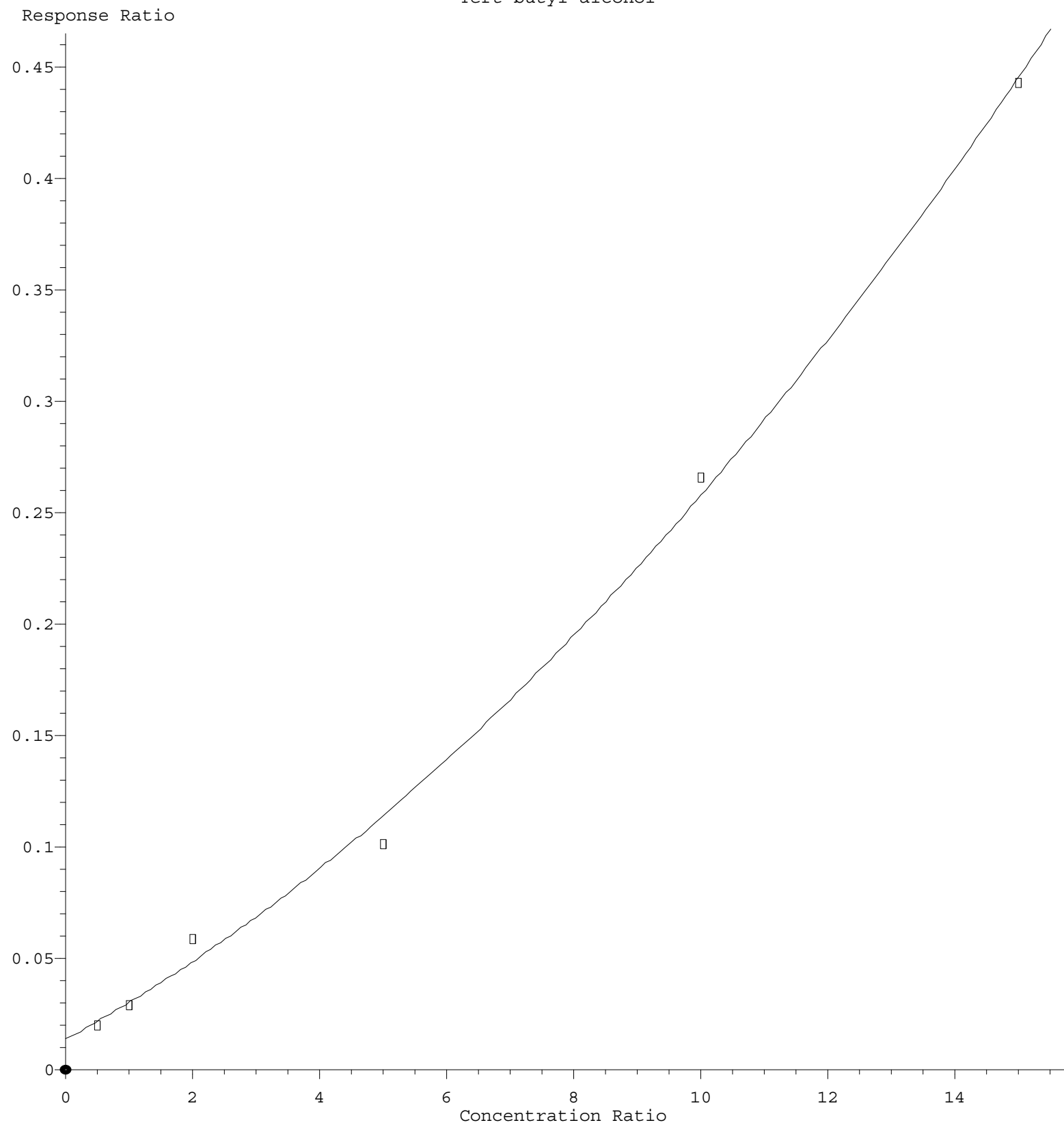
$R = 7.019e-002 A^2 + 4.239e-001 A + 2.342e-001$
 Coef of Det (r^2) = 0.997099 Curve Fit: Quadratic
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Acrolein



$R = 1.441e-003 A^2 + 2.426e-002 A + 2.297e-002$
 Coef of Det (r^2) = 0.997114 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D072924S.M
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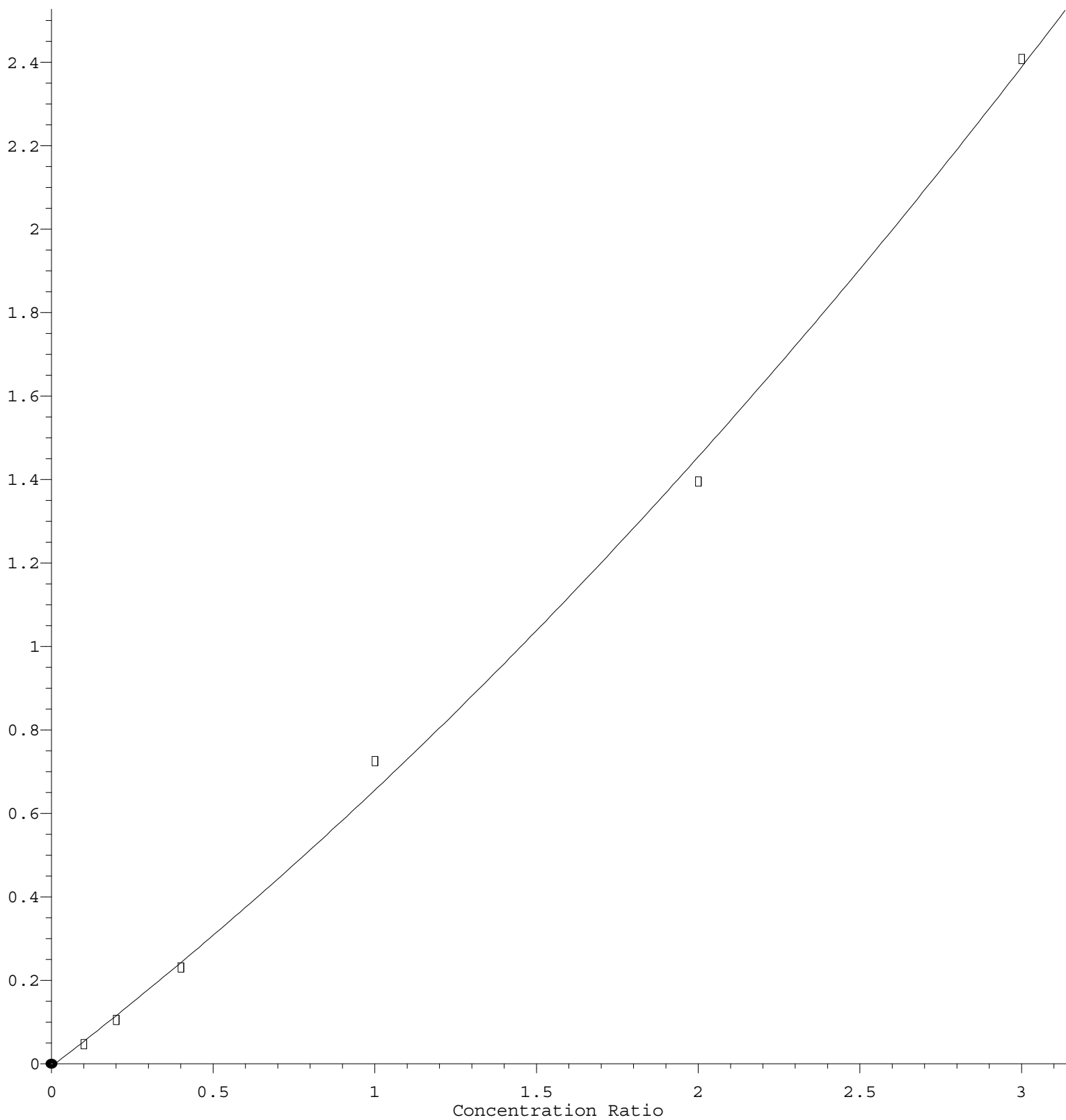
Tert butyl alcohol



$R = 8.728e-004 A^2 + 1.567e-002 A + 1.370e-002$
Coef of Det (r^2) = 0.997611 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D072924S.M
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Methyl Iodide

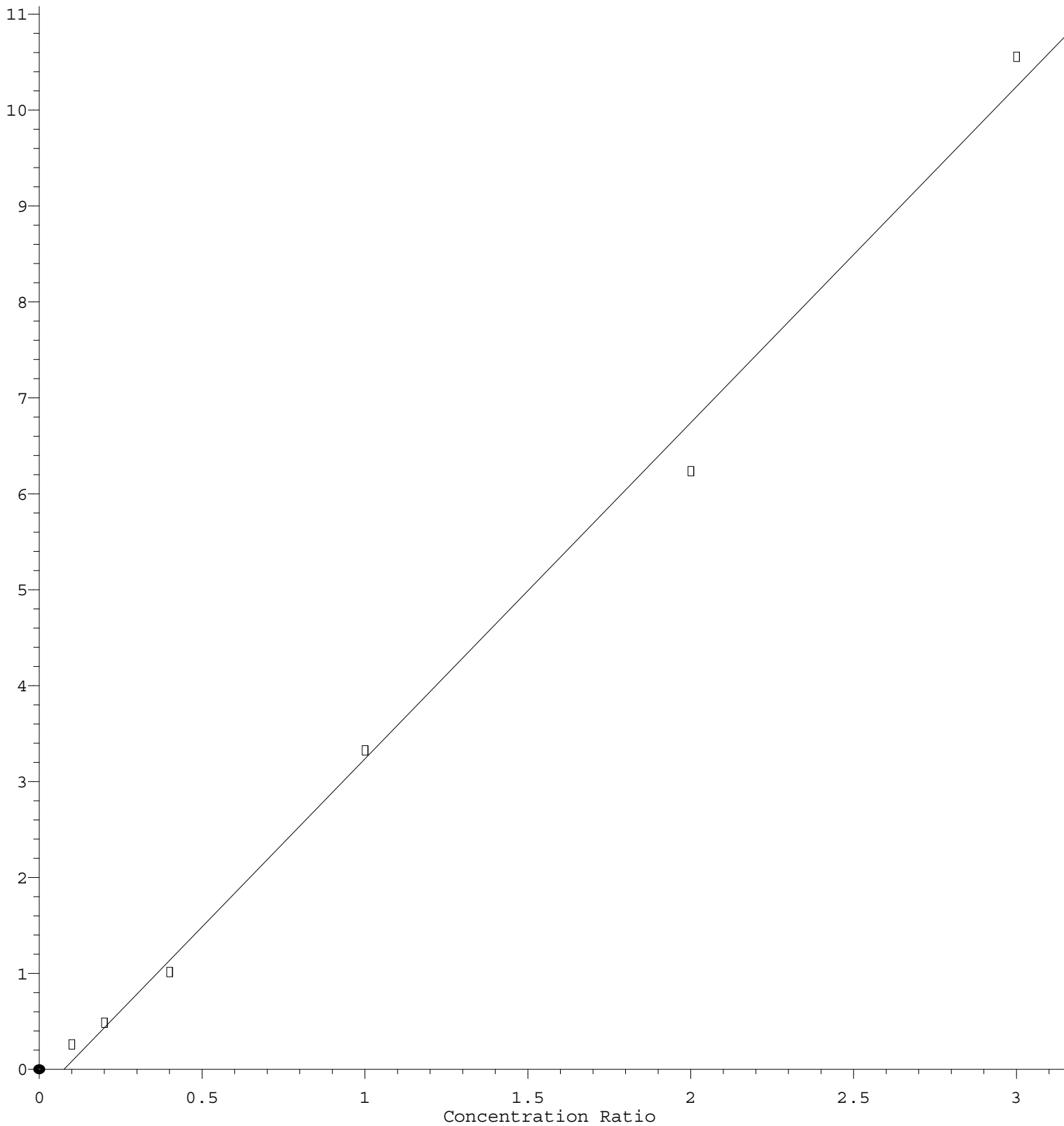
Response Ratio



$R = 6.801e-002 A^2 + 5.943e-001 A - 6.270e-003$
Coef of Det (r^2) = 0.997928 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D072924S.M
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n-Butylbenzene

Response Ratio



$$\text{Response} = 3.502\text{e}+000 * \text{Amt} - 2.649\text{e}-001$$

Coef of Det (r^2) = 0.995073 Curve Fit: Linear

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p-Isopropyltoluene

Response Ratio

12
11
10
9
8
7
6
5
4
3
2
1
0

0

0.5

1

1.5

2

2.5

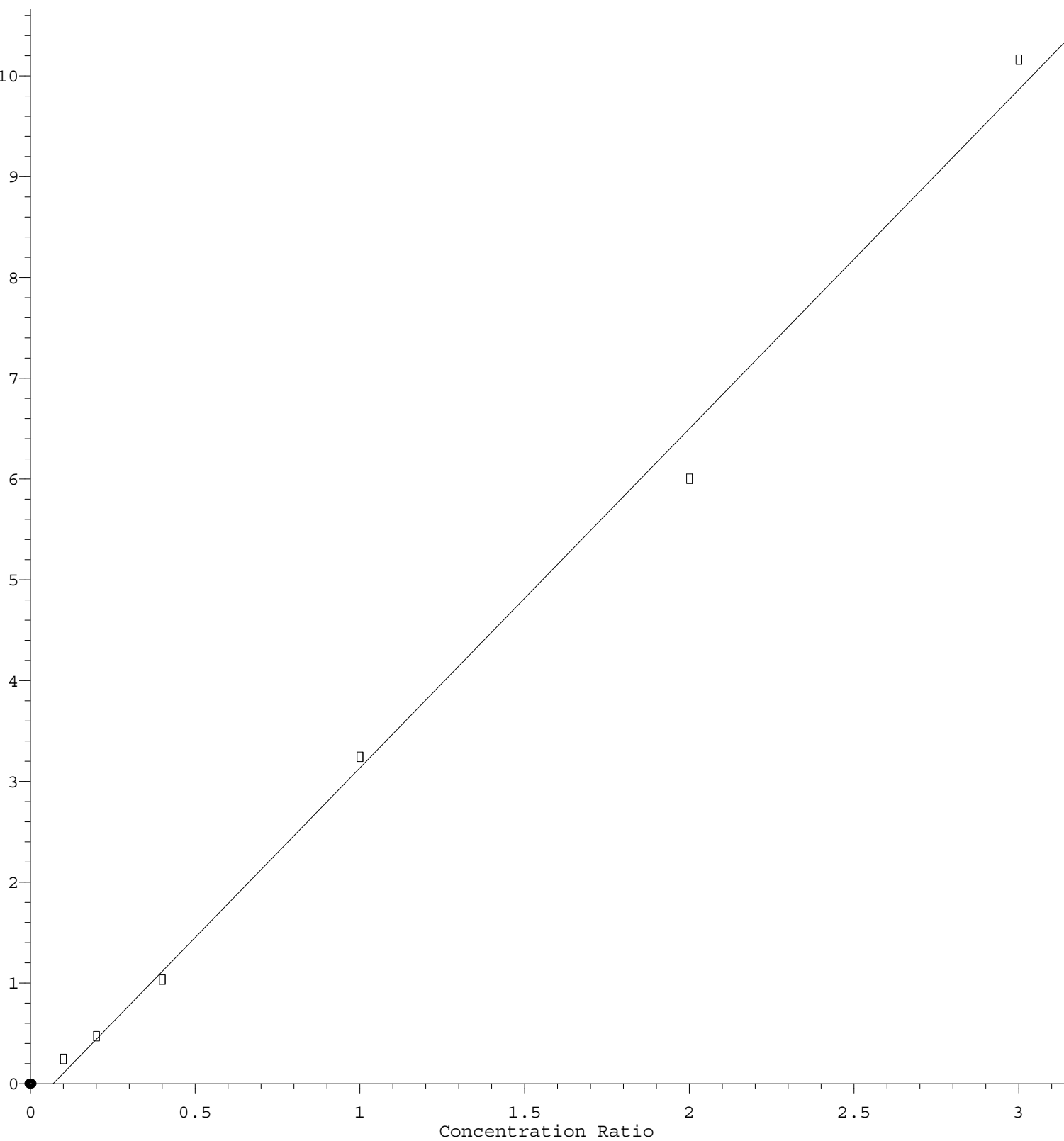
3

Concentration Ratio

Response = 3.801e+000 * Amt - 2.955e-001
Coef of Det (r^2) = 0.995055 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D072924S.M
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1,2,4-Trimethylbenzene

Response Ratio



$$\text{Response} = 3.364\text{e}+000 * \text{Amt} - 2.307\text{e}-001$$

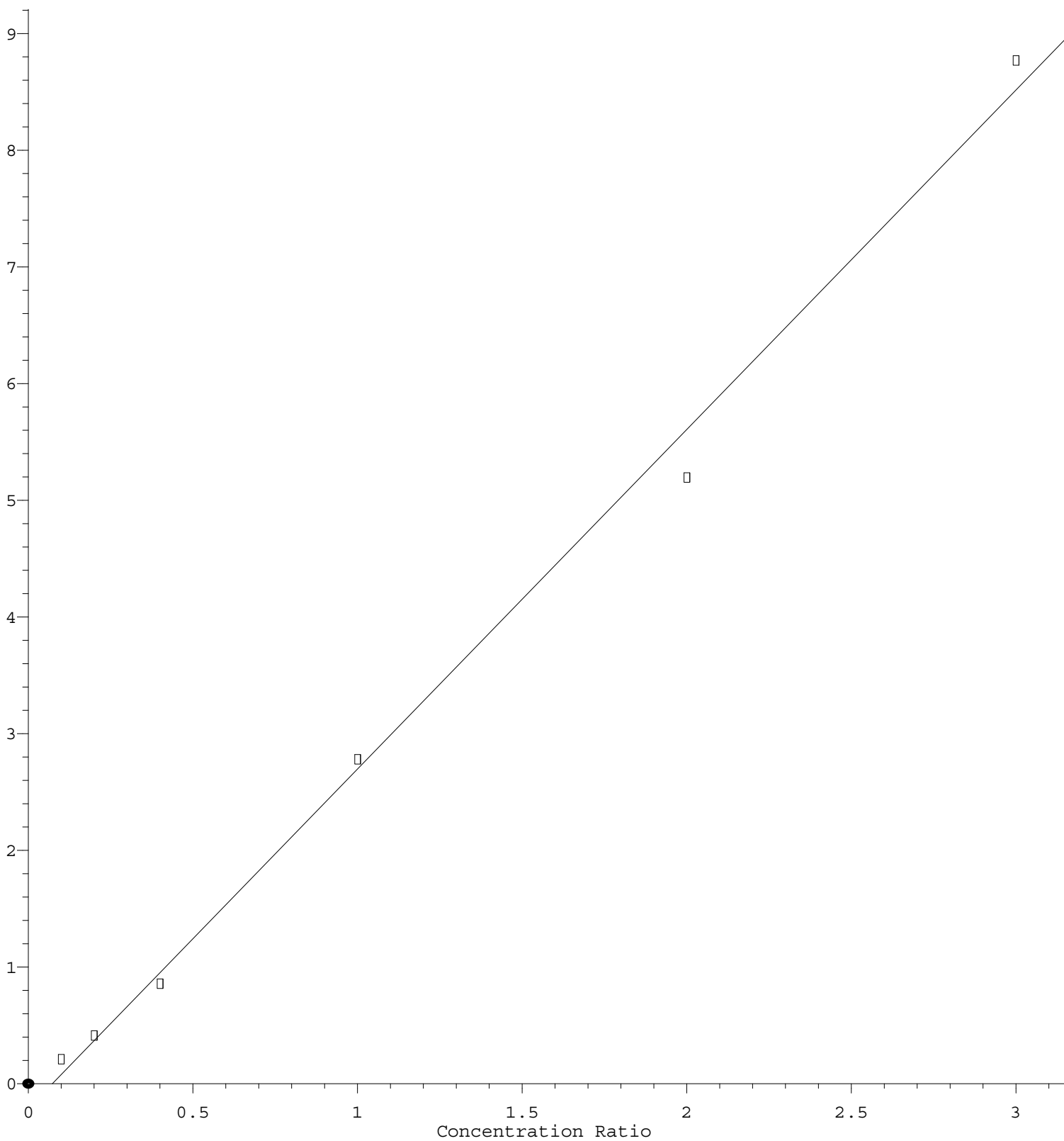
Coef of Det (r^2) = 0.995108 Curve Fit: Linear

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tert-Butylbenzene

Response Ratio



$$\text{Response} = 2.909\text{e}+000 * \text{Amt} - 2.111\text{e}-001$$

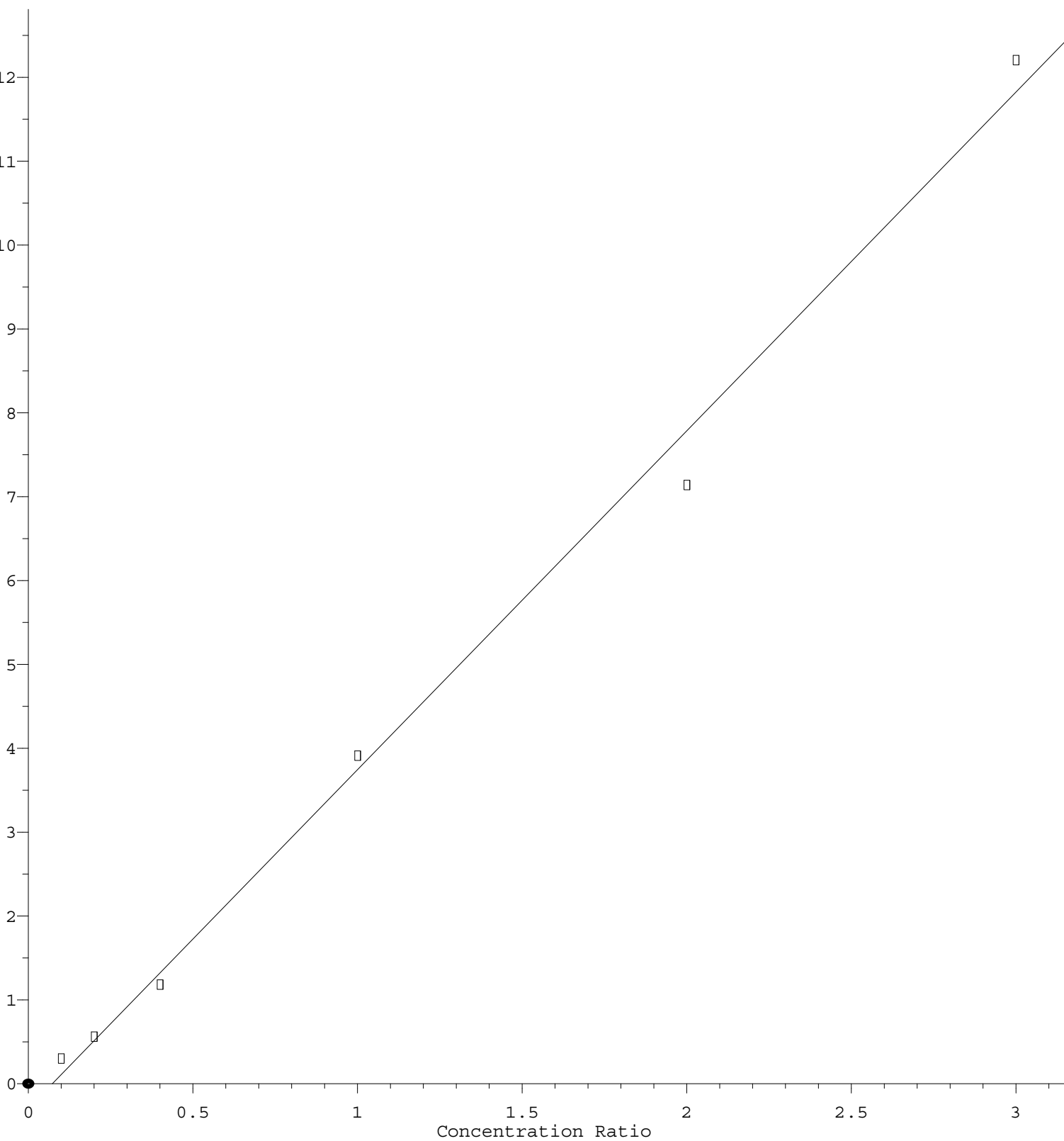
Coef of Det (r^2) = 0.995310 Curve Fit: Linear

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Isopropylbenzene

Response Ratio



$$\text{Response} = 4.038\text{e}+000 * \text{Amt} - 2.930\text{e}-001$$

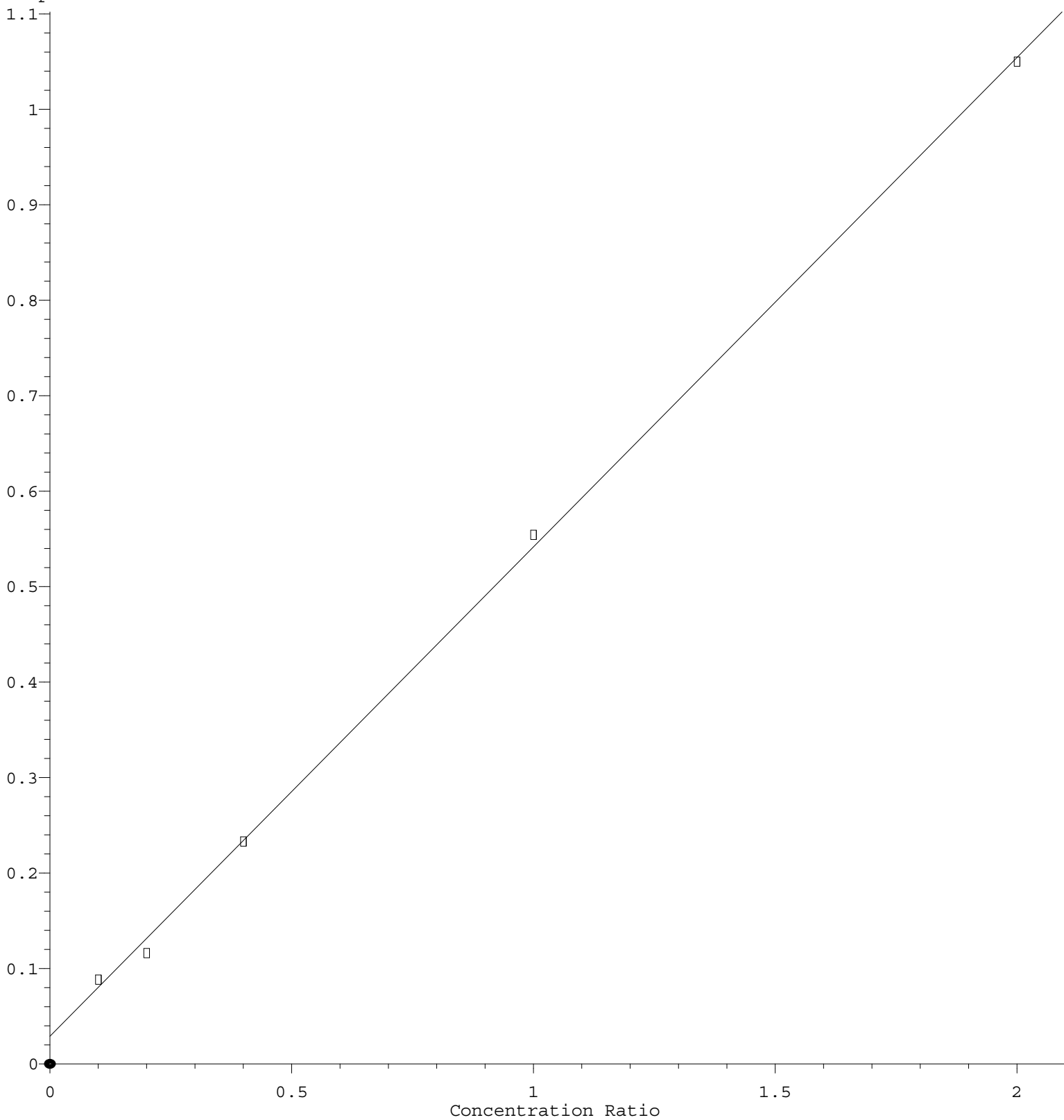
Coef of Det (r^2) = 0.994138 Curve Fit: Linear

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Bromomethane

Response Ratio



$$\text{Response} = 5.132\text{e-}001 * \text{Amt} + 2.854\text{e-}002$$

Coef of Det (r^2) = 0.999262 Curve Fit: Linear

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