

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y021424S.M
 Title : SW846 8260
 Last Update : Thu Feb 15 03:16:56 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY017381.D 10 =VY017374.D 20 =VY017380.D 50 =VY017376.D 100 =VY017377.D 150 =VY017378.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.383	0.425	0.434	0.446	0.441	0.426	0.426	5.30
3) P	Chloromethane	0.762	0.818	0.912	0.777	0.834	0.732	0.806	7.93
4) C	Vinyl Chloride	0.934	0.982	1.088	0.935	0.941	0.888	0.961	7.17#
5) T	Bromomethane	0.731	0.662	0.809	0.619	0.657	0.617	0.683	10.90
6) T	Chloroethane	0.591	0.637	0.722	0.590	0.583	0.553	0.613	9.77
7) T	Trichlorofluor...	0.894	1.006	1.127	0.924	0.940	0.905	0.966	9.11
8) T	Diethyl Ether	0.259	0.293	0.307	0.276	0.281	0.258	0.279	6.91
9) T	1,1,2-Trichlor...	0.586	0.604	0.670	0.553	0.545	0.529	0.581	8.85
10) T	Methyl Iodide	0.458	0.599	0.559	0.618	0.610	0.584	0.571	10.41
11) T	Tert butyl alc...	0.053	0.040	0.038	0.033	0.030	0.028	0.037	24.81
12) CM	1,1-Dichloroet...	0.472	0.566	0.615	0.528	0.523	0.512	0.536	9.17#
13) T	Acrolein	0.058	0.067	0.065	0.056	0.053	0.046	0.057	13.43
14) T	Allyl chloride	0.697	0.825	0.913	0.780	0.785	0.756	0.793	9.13
15) T	Acrylonitrile	0.118	0.132	0.125	0.124	0.117	0.105	0.120	7.58
16) T	Acetone	0.168	0.164	0.151	0.124	0.113	0.102	0.137	20.17
17) T	Carbon Disulfide	1.583	1.823	1.957	1.664	1.645	1.586	1.710	8.73
18) T	Methyl Acetate	0.278	0.291	0.260	0.538	0.507		0.375	36.23
19) T	Methyl tert-bu...	1.044	1.226	1.275	1.224	1.235	1.145	1.192	7.04
20) T	Methylene Chlo...	0.973	0.756	0.756	0.584	0.563	0.524	0.693	24.47
21) T	trans-1,2-Dich...	0.553	0.636	0.703	0.603	0.598	0.581	0.612	8.49
22) T	Diisopropyl ether	1.467	1.783	1.938	1.719	1.694	1.591	1.699	9.49
23) T	Vinyl Acetate	0.900	1.035	1.102	0.817	0.817	0.746	0.903	15.39
24) P	1,1-Dichloroet...	0.982	1.137	1.225	1.023	1.022	0.970	1.060	9.43
25) T	2-Butanone	0.187	0.193	0.188	0.168	0.159	0.145	0.174	11.11
26) T	2,2-Dichloropr...	0.821	0.950	1.041	0.871	0.880	0.885	0.908	8.49
27) T	cis-1,2-Dichlo...	0.600	0.678	0.733	0.653	0.659	0.632	0.659	6.82
28) T	Bromochloromet...	0.609	0.443	0.452	0.426	0.415	0.368	0.452	18.17
29) T	Tetrahydrofuran	0.094	0.102	0.098	0.103	0.094	0.085	0.096	6.89
30) C	Chloroform	0.992	1.126	1.204	1.025	1.021	0.973	1.057	8.48#
31) T	Cyclohexane	1.052	1.051	1.159	0.940	0.948	0.911	1.010	9.32
32) T	1,1,1-Trichlor...	0.833	0.982	1.104	0.896	0.915	0.895	0.938	10.09
33) S	1,2-Dichloroet...	0.640	0.475	0.586	0.494	0.505	0.484	0.531	12.59
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.351	0.278	0.354	0.301	0.313	0.316	0.319	9.22
36) T	1,1-Dichloropr...	0.466	0.525	0.607	0.509	0.514	0.511	0.522	8.84
37) T	Ethyl Acetate	0.222	0.231	0.223	0.213	0.205	0.179	0.212	8.67
38) T	Carbon Tetrach...	0.432	0.508	0.573	0.487	0.501	0.505	0.501	8.99
39) T	Methylcyclohexane	0.530	0.598	0.706	0.625	0.648	0.642	0.625	9.37
40) TM	Benzene	1.252	1.500	1.663	1.446	1.475	1.438	1.462	9.01
41) T	Methacrylonitrile	0.107	0.121	0.087	0.111	0.112	0.112	0.108	10.67
42) TM	1,2-Dichloroet...	0.337	0.391	0.417	0.370	0.370	0.348	0.372	7.82
43) T	Isopropyl Acetate	0.352	0.391	0.389	0.397	0.394	0.358	0.380	5.25
44) TM	Trichloroethene	0.323	0.393	0.422	0.376	0.376	0.377	0.378	8.50
45) C	1,2-Dichloropr...	0.307	0.360	0.395	0.353	0.356	0.342	0.352	8.09#
46) T	Dibromomethane	0.166	0.186	0.198	0.185	0.187	0.174	0.183	6.22
47) T	Bromodichlorom...	0.421	0.487	0.520	0.462	0.473	0.455	0.470	7.04
48) T	Methyl methacr...	0.167	0.181	0.186	0.228	0.230	0.210	0.200	13.10
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	7.15
50) S	Toluene-d8	1.243	1.077	1.395	1.190	1.245	1.262	1.235	8.37
51) T	4-Methyl-2-Pen...	0.197	0.211	0.210	0.219	0.213	0.190	0.207	5.30
52) CM	Toluene	0.729	0.902	1.004	0.899	0.904	0.894	0.889	9.99#
53) T	t-1,3-Dichloro...	0.367	0.438	0.467	0.446	0.456	0.438	0.435	8.12
54) T	cis-1,3-Dichlo...	0.441	0.537	0.592	0.535	0.555	0.536	0.533	9.37
55) T	1,1,2-Trichlor...	0.234	0.259	0.268	0.255	0.252	0.235	0.250	5.37
56) T	Ethyl methacry...	0.225	0.285	0.304	0.239	0.251	0.228	0.255	12.70

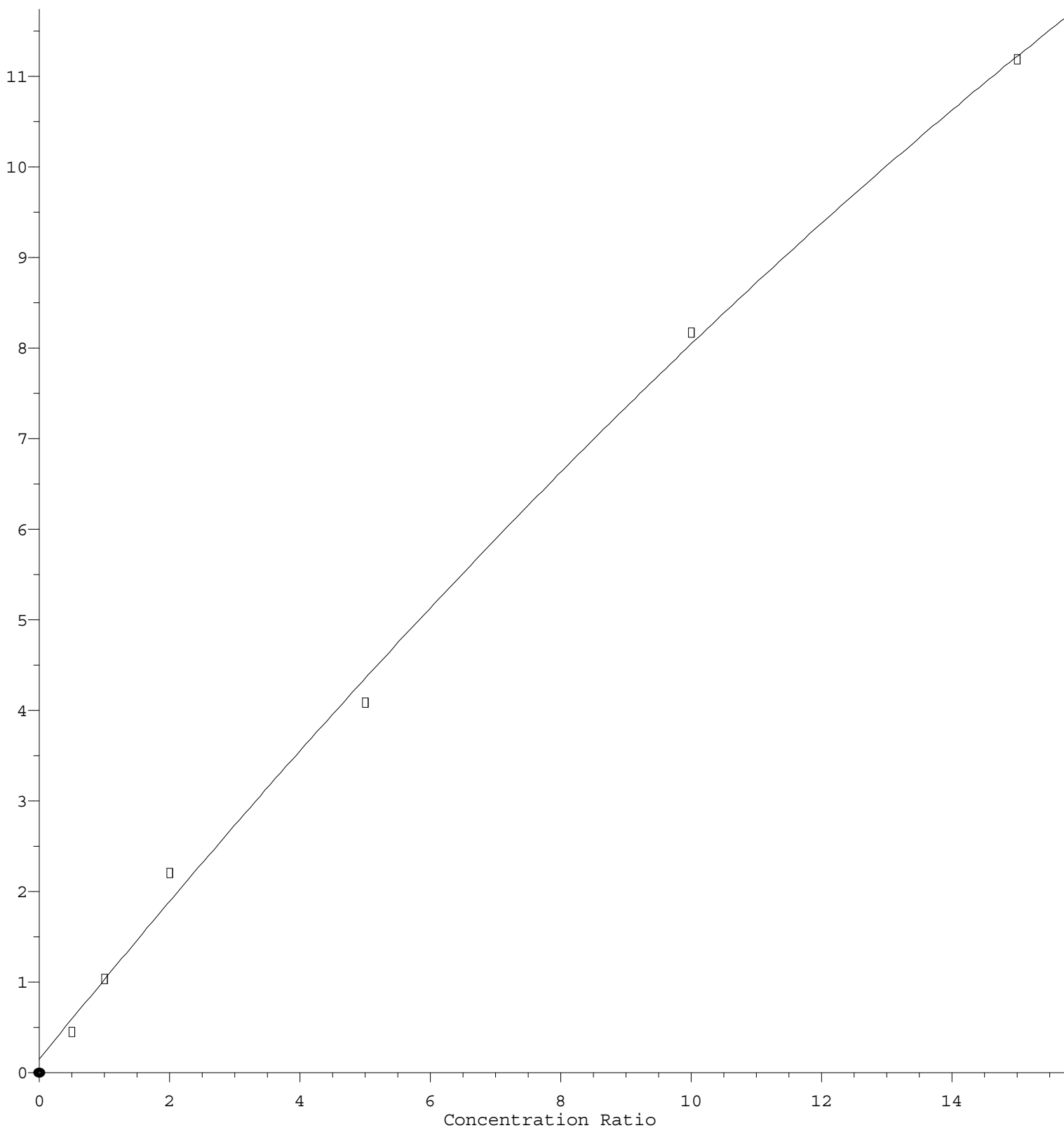
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57)	T	1,3-Dichloropr...	0.390	0.444	0.465	0.442	0.439	0.409	0.431	6.25
58)	T	2-Chloroethyl ...	0.142	0.152	0.152	0.185	0.191	0.161	0.164	12.07
59)	T	2-Hexanone	0.132	0.159	0.158	0.157	0.151	0.133	0.148	8.46
60)	T	Dibromochlorom...	0.254	0.297	0.309	0.297	0.301	0.287	0.291	6.68
61)	T	1,2-Dibromoethane	0.211	0.236	0.242	0.237	0.233	0.219	0.230	5.30
62)	S	4-Bromofluorob...	0.407	0.332	0.408	0.369	0.380	0.377	0.379	7.40
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.310	0.399	0.419	0.357	0.372	0.362	0.370	10.20
65)	PM	Chlorobenzene	0.903	1.110	1.194	1.041	1.062	1.050	1.060	8.99
66)	T	1,1,1,2-Tetrac...	0.309	0.391	0.417	0.382	0.394	0.394	0.381	9.78
67)	C	Ethyl Benzene	1.514	1.900	2.213	1.971	2.055	2.061	1.953	12.23#
68)	T	m/p-Xylenes	0.564	0.741	0.844	0.731	0.767	0.769	0.736	12.66
69)	T	o-Xylene	0.510	0.653	0.763	0.668	0.697	0.706	0.666	12.80
70)	T	Styrene	0.788	1.075	1.225	0.991	1.032	1.019	1.022	13.85
71)	P	Bromoform	0.161	0.187	0.193	0.191	0.196	0.181	0.185	7.01
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.214	4.138	4.973	4.023	4.223	4.429	4.167	13.79
74)	T	N-amyl acetate	0.703	0.817	0.898	0.843	0.873	0.810	0.824	8.26
75)	P	1,1,2,2-Tetrac...	0.724	0.823	0.797	0.713	0.729	0.694	0.747	6.87
76)	T	1,2,3-Trichlor...	0.476	0.574	0.444	0.505	0.513	0.487	0.500	8.73
77)	T	Bromobenzene	0.772	0.879	0.977	0.854	0.888	0.896	0.877	7.57
78)	T	n-propylbenzene	4.217	5.138	6.117	4.887	5.122	5.297	5.130	12.00
79)	T	2-Chlorotoluene	2.425	2.883	3.319	2.635	2.714	2.819	2.799	10.75
80)	T	1,3,5-Trimethy...	2.523	3.241	3.855	3.211	3.349	3.469	3.275	13.31
81)	T	trans-1,4-Dich...	0.208	0.223	0.248	0.218	0.231	0.226	0.226	6.03
82)	T	4-Chlorotoluene	2.440	2.980	3.420	2.746	2.831	2.872	2.882	11.15
83)	T	tert-Butylbenzene	2.251	2.860	3.379	2.758	2.904	3.008	2.860	12.84
84)	T	1,2,4-Trimethy...	2.505	3.173	3.791	3.161	3.342	3.423	3.233	13.11
85)	T	sec-Butylbenzene	3.688	4.419	5.380	4.125	4.271	4.301	4.364	12.81
86)	T	p-Isopropyltol...	2.692	3.396	4.187	3.473	3.665	3.773	3.531	14.06
87)	T	1,3-Dichlorobe...	1.588	1.823	2.001	1.673	1.768	1.803	1.776	7.95
88)	T	1,4-Dichlorobe...	1.631	1.824	1.975	1.612	1.668	1.656	1.728	8.27
89)	T	n-Butylbenzene	2.966	3.273	4.074	3.343	3.483	3.440	3.430	10.63
90)	T	Hexachloroethane	0.657	0.736	0.865	0.691	0.721	0.722	0.732	9.67
91)	T	1,2-Dichlorobe...	1.304	1.527	1.661	1.409	1.450	1.431	1.464	8.26
92)	T	1,2-Dibromo-3-...	0.100	0.097	0.090	0.090	0.095	0.086	0.093	5.49
93)	T	1,2,4-Trichlor...	0.647	0.667	0.824	0.730	0.795	0.718	0.730	9.51
94)	T	Hexachlorobuta...	0.482	0.439	0.528	0.428	0.429	0.398	0.451	10.35
95)	T	Naphthalene	1.042	1.105	1.271	1.356	1.521	1.329	1.271	13.77
96)	T	1,2,3-Trichlor...	0.602	0.560	0.658	0.615	0.662	0.579	0.613	6.71

(#) = Out of Range

Vinyl Acetate

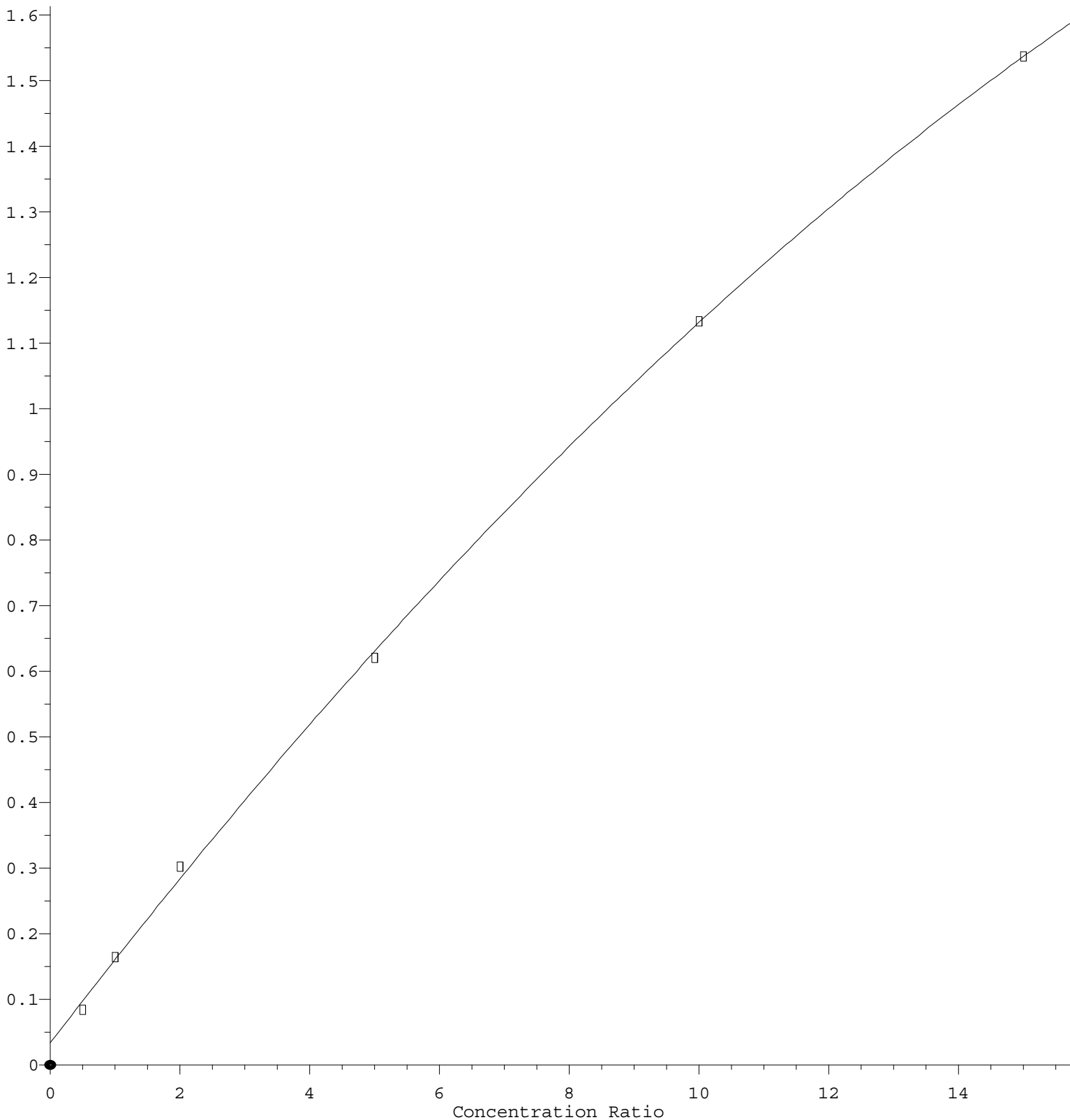
Response Ratio



$R = -1.032e-002 A^2 + 8.928e-001 A + 1.481e-001$
 Coef of Det (r^2) = 0.997756 Curve Fit: Quadratic
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Acetone

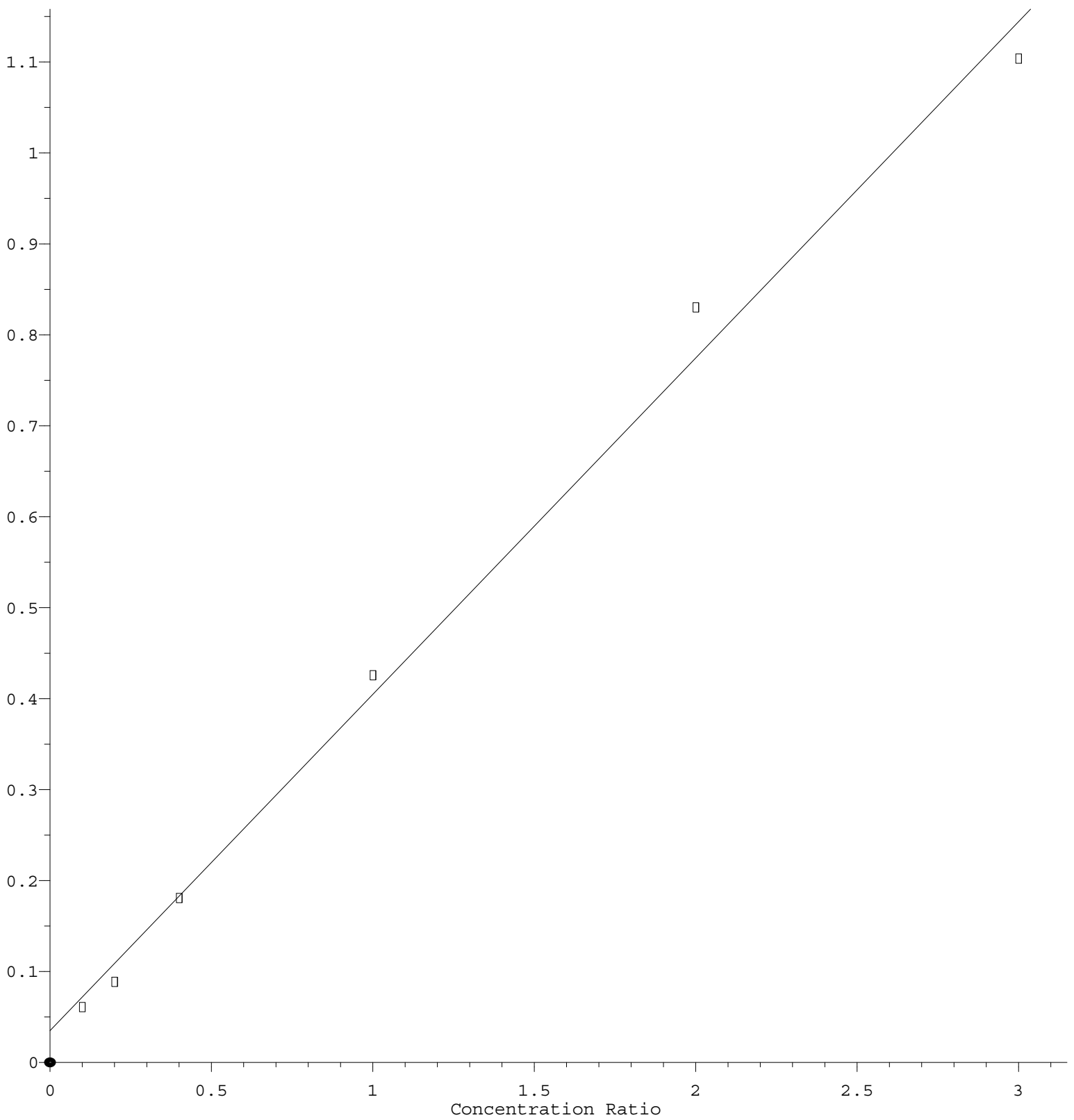
Response Ratio



$R = -1.919e-003 A^2 + 1.290e-001 A + 3.353e-002$
 Coef of Det (r^2) = 0.999624 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y021424S.M
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Bromochloromethane

Response Ratio



$$\text{Response} = 3.700\text{e-}001 * \text{Amt} + 3.510\text{e-}002$$

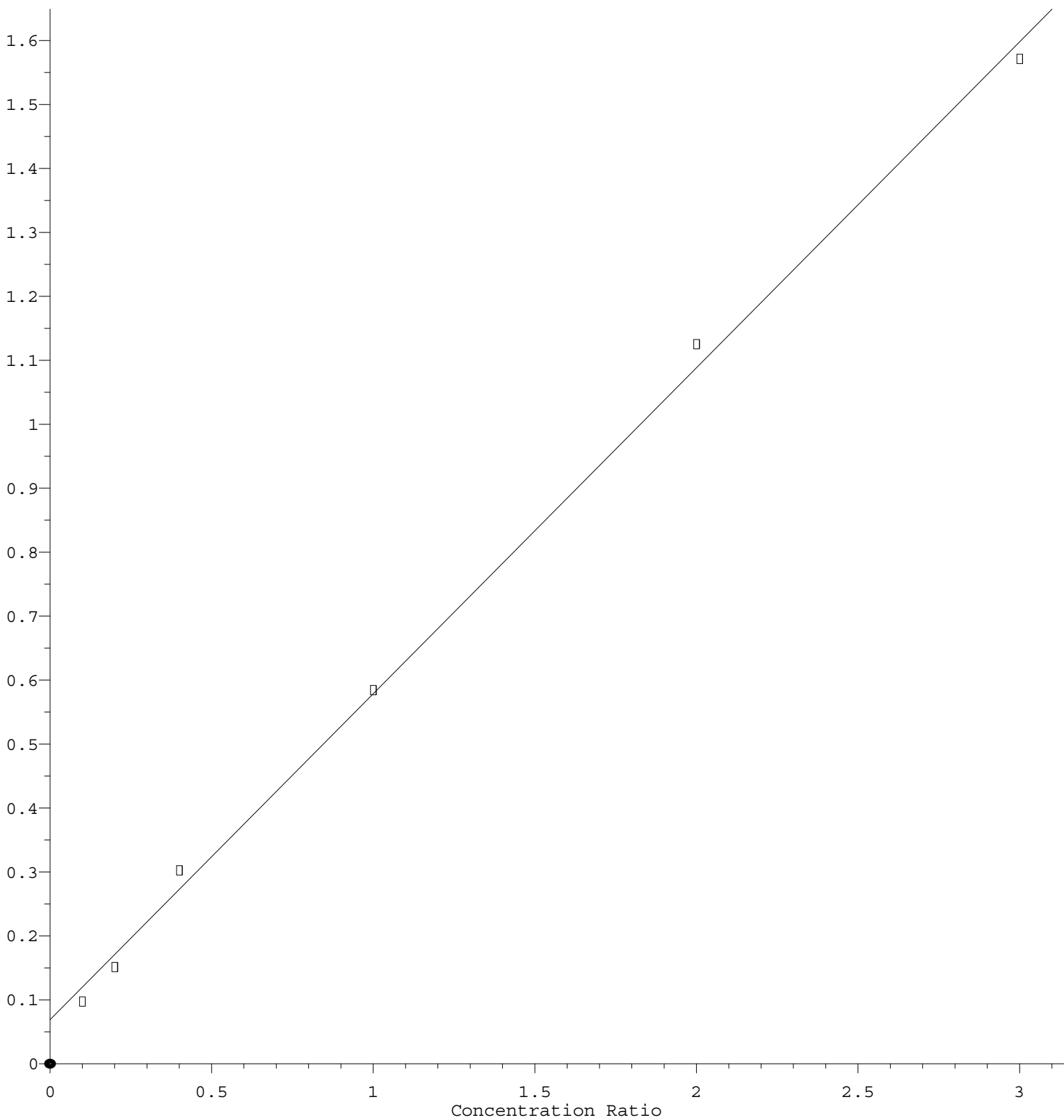
Coef of Det (r^2) = 0.993823 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$$\text{Response} = 5.099\text{e-}001 * \text{Amt} + 6.920\text{e-}002$$

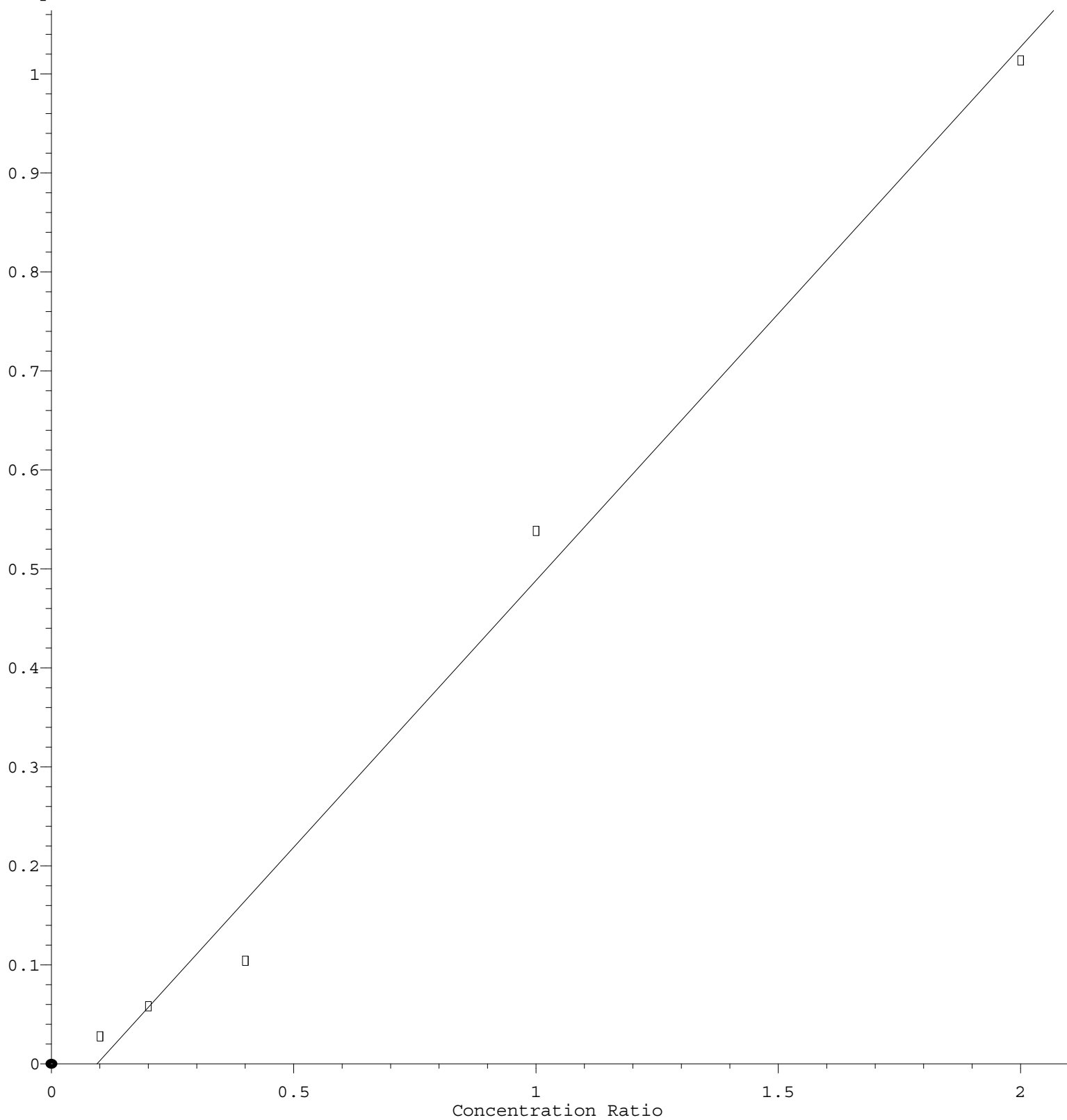
Coef of Det (r^2) = 0.997795 Curve Fit: Linear

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Methyl Acetate

Response Ratio



$$\text{Response} = 5.390\text{e-}001 * \text{Amt} - 5.049\text{e-}002$$

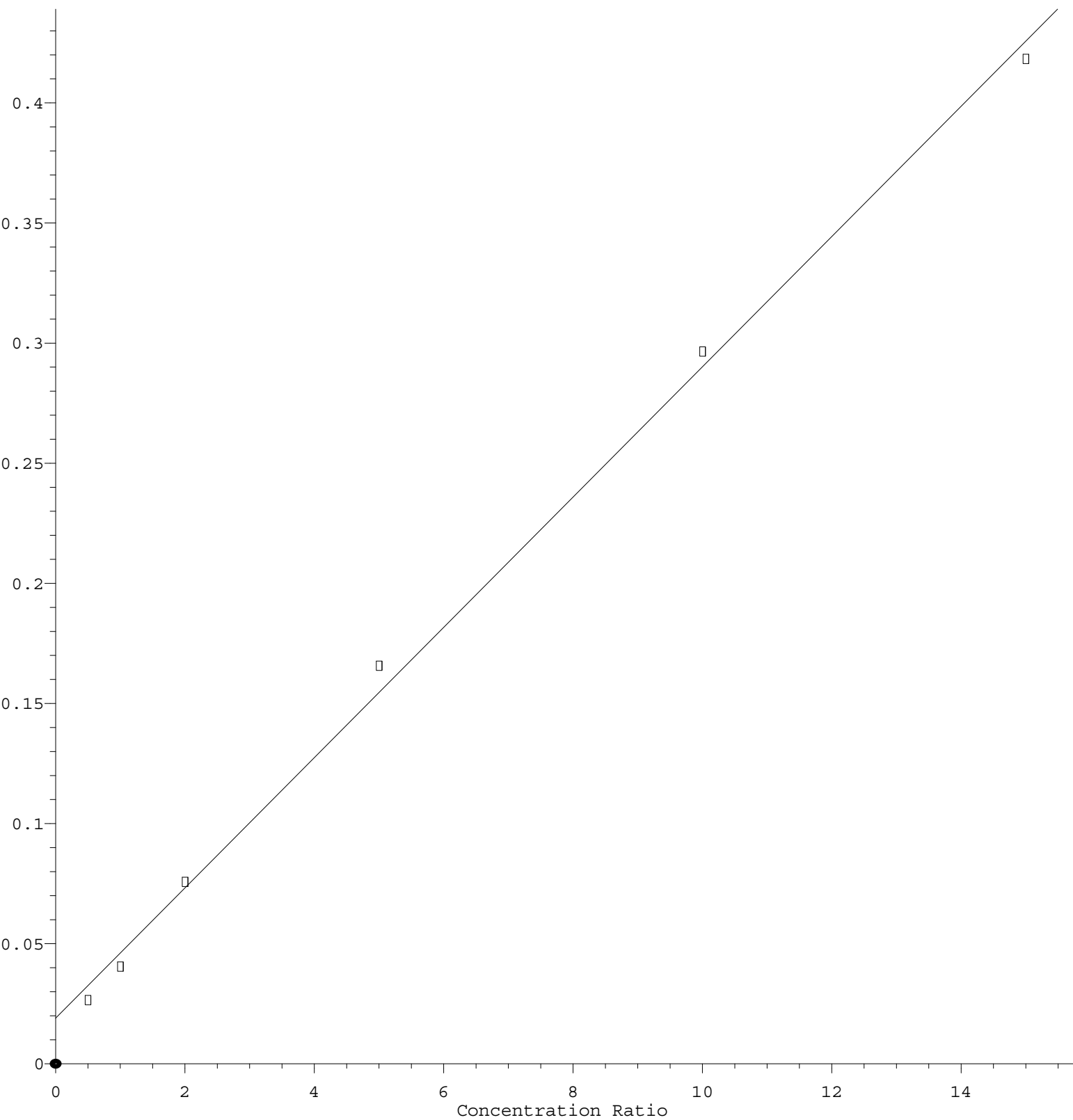
Coef of Det (r^2) = 0.990366 Curve Fit: Linear

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Tert butyl alcohol

Response Ratio



$$\text{Response} = 2.711\text{e-}002 * \text{Amt} + 1.916\text{e-}002$$

Coef of Det (r^2) = 0.997630 Curve Fit: Linear

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