

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y120325S.M
 Title : SW846 8260
 Last Update : Thu Dec 04 03:49:13 2025
 Response Via : Initial Calibration

Calibration Files

5 =VY023874.D 10 =VY023868.D 20 =VY023869.D 50 =VY023870.D 100 =VY023871.D 150 =VY023872.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.380	0.414	0.329	0.422	0.349	0.375	0.378	9.51
3) P	Chloromethane	0.583	0.543	0.452	0.599	0.505	0.554	0.539	10.02
4) C	Vinyl Chloride	0.595	0.624	0.525	0.705	0.595	0.648	0.615	9.81#
5) T	Bromomethane	0.524	0.462	0.381	0.453	0.392	0.454	0.444	11.72
6) T	Chloroethane	0.442	0.433	0.353	0.460	0.387	0.428	0.417	9.48
7) T	Trichlorofluor...	0.880	0.914	0.736	0.949	0.808	0.875	0.860	8.93
8) T	Diethyl Ether	0.259	0.262	0.220	0.280	0.252	0.274	0.258	8.22
9) T	1,1,2-Trichlor...	0.539	0.566	0.445	0.558	0.472	0.512	0.516	9.39
10) T	Methyl Iodide	0.404	0.459	0.412	0.649	0.554	0.599	0.513	20.01
11) T	Tert butyl alc...	0.056	0.047	0.035	0.036	0.035	0.035	0.041	21.66
12) CM	1,1-Dichloroet...	0.461	0.496	0.416	0.539	0.465	0.515	0.482	9.11#
13) T	Acrolein	0.028	0.045	0.035	0.021	0.029	0.029	0.031	25.94
14) T	Allyl chloride	0.741	0.765	0.649	0.862	0.760	0.844	0.770	9.97
15) T	Acrylonitrile	0.105	0.111	0.095	0.123	0.116	0.122	0.112	9.51
16) T	Acetone	0.154	0.169	0.142	0.153	0.140	0.140	0.150	7.60
17) T	Carbon Disulfide	1.278	1.329	1.096	1.739	1.483	1.614	1.423	16.53
18) T	Methyl Acetate	0.246	0.254	0.203	0.276	0.274	0.271	0.254	10.82
19) T	Methyl tert-bu...	1.122	1.187	1.028	1.343	1.238	1.342	1.210	10.27
20) T	Methylene Chlo...	0.906	0.647	0.491	0.581	0.495	0.538	0.610	25.65
21) T	trans-1,2-Dich...	0.527	0.536	0.444	0.598	0.516	0.569	0.531	9.89
22) T	Diisopropyl ether	1.572	1.718	1.472	1.891	1.681	1.841	1.696	9.32
23) T	Vinyl Acetate	0.799	0.917	0.799	1.076	0.987	1.061	0.940	13.10
24) P	1,1-Dichloroet...	0.990	1.011	0.859	1.066	0.931	1.022	0.980	7.53
25) T	2-Butanone	0.181	0.198	0.159	0.187	0.178	0.180	0.181	7.05
26) T	2,2-Dichloropr...	0.997	0.961	0.779	0.938	0.819	0.893	0.898	9.42
27) T	cis-1,2-Dichlo...	0.616	0.618	0.531	0.677	0.596	0.665	0.617	8.52
28) T	Bromochloromet...	0.381	0.363	0.354	0.441	0.349	0.358	0.374	9.21
29) T	Tetrahydrofuran	0.080	0.093	0.077	0.106	0.101	0.104	0.093	13.13
30) C	Chloroform	1.024	1.039	0.878	1.061	0.921	1.017	0.990	7.35#
31) T	Cyclohexane	0.967	0.957	0.762	1.052	0.902	0.982	0.937	10.49
32) T	1,1,1-Trichlor...	0.918	0.941	0.776	0.968	0.836	0.923	0.894	8.13
33) S	1,2-Dichloroet...	0.445	0.491	0.534	0.486	0.551	0.495	0.500	7.55
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.265	0.319	0.349	0.314	0.353	0.323	0.321	9.86
36) T	1,1-Dichloropr...	0.435	0.489	0.404	0.538	0.463	0.509	0.473	10.41
37) T	Ethyl Acetate	0.186	0.225	0.190	0.244	0.227	0.236	0.218	11.10
38) T	Carbon Tetrach...	0.508	0.547	0.455	0.577	0.497	0.547	0.522	8.40
39) T	Methylcyclohexane	0.526	0.598	0.492	0.735	0.637	0.704	0.616	15.63
40) TM	Benzene	1.383	1.459	1.234	1.606	1.376	1.517	1.429	9.00
41) T	Methacrylonitrile	0.107	0.117	0.106	0.128	0.108	0.110	0.113	7.44
42) TM	1,2-Dichloroet...	0.357	0.388	0.329	0.410	0.363	0.391	0.373	7.79
43) T	Isopropyl Acetate	0.350	0.402	0.347	0.456	0.434	0.462	0.409	12.52
44) TM	Trichloroethene	0.361	0.375	0.315	0.411	0.354	0.391	0.368	8.95
45) C	1,2-Dichloropr...	0.324	0.351	0.295	0.373	0.329	0.358	0.338	8.30#
46) T	Dibromomethane	0.176	0.188	0.158	0.202	0.179	0.196	0.183	8.56
47) T	Bromodichlorom...	0.467	0.509	0.423	0.530	0.462	0.509	0.483	8.19
48) T	Methyl methacr...	0.140	0.179	0.159	0.224	0.215	0.228	0.191	19.28
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	11.67
50) S	Toluene-d8	1.064	1.211	1.354	1.228	1.376	1.256	1.248	9.03
51) T	4-Methyl-2-Pen...	0.173	0.208	0.184	0.248	0.233	0.243	0.215	14.63
52) CM	Toluene	0.805	0.913	0.765	1.019	0.887	0.981	0.895	10.94#
53) T	t-1,3-Dichloro...	0.384	0.421	0.376	0.493	0.449	0.494	0.436	11.84
54) T	cis-1,3-Dichlo...	0.461	0.504	0.440	0.580	0.518	0.579	0.514	11.34
55) T	1,1,2-Trichlor...	0.237	0.253	0.214	0.272	0.244	0.264	0.247	8.26
56) T	Ethyl methacry...	0.241	0.281	0.252	0.372	0.358	0.391	0.316	20.74

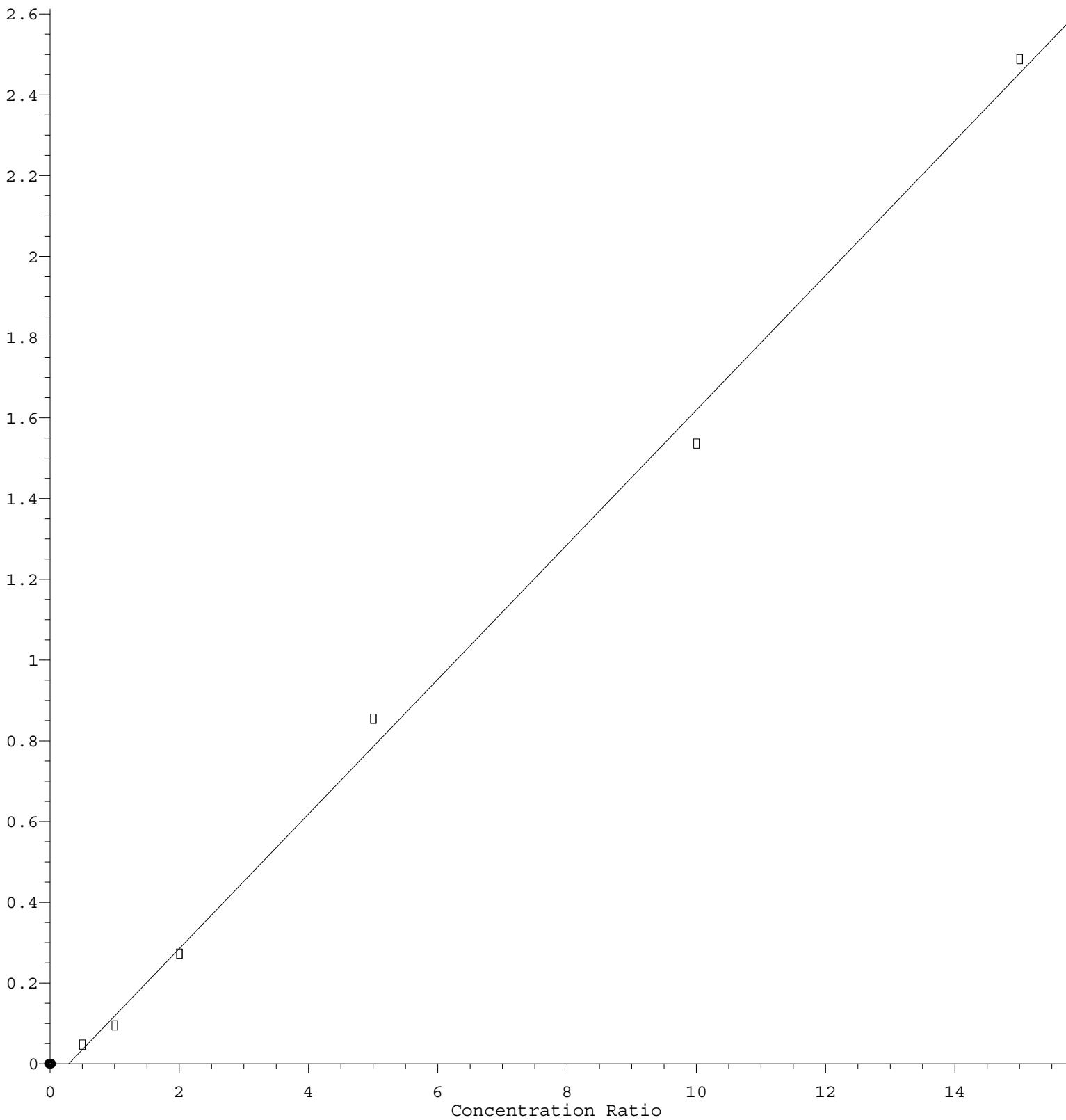
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57)	T	1,3-Dichloropr...	0.402	0.429	0.366	0.474	0.423	0.461	0.426	9.19
58)	T	2-Chloroethyl ...	0.095	0.095	0.136	0.171	0.154	0.166	0.136	24.95
59)	T	2-Hexanone	0.127	0.164	0.145	0.183	0.174	0.179	0.162	13.56
60)	T	Dibromochlorom...	0.317	0.337	0.287	0.365	0.326	0.358	0.332	8.59
61)	T	1,2-Dibromoethane	0.202	0.228	0.193	0.253	0.228	0.248	0.225	10.63
62)	S	4-Bromofluorob...	0.401	0.409	0.434	0.409	0.470	0.432	0.426	5.96
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.481	0.528	0.438	0.545	0.455	0.488	0.489	8.43
65)	PM	Chlorobenzene	1.117	1.175	1.014	1.248	1.086	1.207	1.141	7.51
66)	T	1,1,1,2-Tetrac...	0.375	0.411	0.345	0.426	0.370	0.409	0.389	7.89
67)	C	Ethyl Benzene	1.804	1.951	1.716	2.254	1.959	2.153	1.973	10.30#
68)	T	m/p-Xylenes	0.669	0.743	0.666	0.865	0.750	0.833	0.754	10.89
69)	T	o-Xylene	0.613	0.680	0.618	0.814	0.711	0.797	0.705	12.20
70)	T	Styrene	1.009	1.115	1.014	1.335	1.185	1.318	1.163	12.29
71)	P	Bromoform	0.203	0.221	0.188	0.240	0.225	0.242	0.220	9.62
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	3.298	3.703	3.251	4.124	3.631	4.096	3.684	10.18
74)	T	N-amyl acetate	0.621	0.718	0.655	0.919	0.894	0.983	0.798	19.10
75)	P	1,1,2,2-Tetrac...	0.548	0.622	0.514	0.629	0.600	0.652	0.594	8.86
76)	T	1,2,3-Trichlor...	0.529	0.515	0.499	0.496	0.445	0.491	0.496	5.75
77)	T	Bromobenzene	0.847	0.875	0.741	0.921	0.827	0.922	0.856	7.96
78)	T	n-propylbenzene	4.091	4.431	3.969	5.003	4.355	4.822	4.445	9.07
79)	T	2-Chlorotoluene	2.439	2.531	2.249	2.776	2.433	2.720	2.525	7.79
80)	T	1,3,5-Trimethy...	2.763	2.973	2.689	3.340	2.920	3.275	2.993	8.85
81)	T	trans-1,4-Dich...	0.179	0.205	0.171	0.229	0.217	0.242	0.207	13.45
82)	T	4-Chlorotoluene	2.555	2.677	2.331	2.850	2.487	2.804	2.617	7.56
83)	T	tert-Butylbenzene	2.459	2.676	2.382	3.022	2.664	2.988	2.699	9.78
84)	T	1,2,4-Trimethy...	2.659	2.973	2.656	3.347	2.897	3.260	2.965	9.85
85)	T	sec-Butylbenzene	3.709	4.074	3.559	4.521	3.906	4.315	4.014	9.07
86)	T	p-Isopropyltol...	2.958	3.324	2.961	3.771	3.267	3.662	3.324	10.28
87)	T	1,3-Dichlorobe...	1.781	1.780	1.518	1.839	1.617	1.807	1.724	7.36
88)	T	1,4-Dichlorobe...	1.784	1.744	1.489	1.803	1.572	1.750	1.690	7.59
89)	T	n-Butylbenzene	2.787	2.973	2.711	3.499	3.062	3.426	3.076	10.57
90)	T	Hexachloroethane	0.690	0.733	0.627	0.741	0.658	0.734	0.697	6.73
91)	T	1,2-Dichlorobe...	1.534	1.528	1.334	1.609	1.416	1.574	1.499	6.92
92)	T	1,2-Dibromo-3-...	0.086	0.095	0.081	0.098	0.099	0.102	0.093	8.86
93)	T	1,2,4-Trichlor...	0.899	0.846	0.749	0.953	0.883	1.004	0.889	9.93
94)	T	Hexachlorobuta...	0.572	0.588	0.489	0.598	0.521	0.578	0.558	7.68
95)	T	Naphthalene	1.294	1.214	1.178	1.626	1.659	1.819	1.465	18.41
96)	T	1,2,3-Trichlor...	0.769	0.703	0.645	0.818	0.766	0.849	0.759	9.83

(#) = Out of Range

2-Chloroethyl Vinyl ether

Response Ratio



$$\text{Response} = 1.668\text{e-}001 * \text{Amt} - 4.911\text{e-}002$$

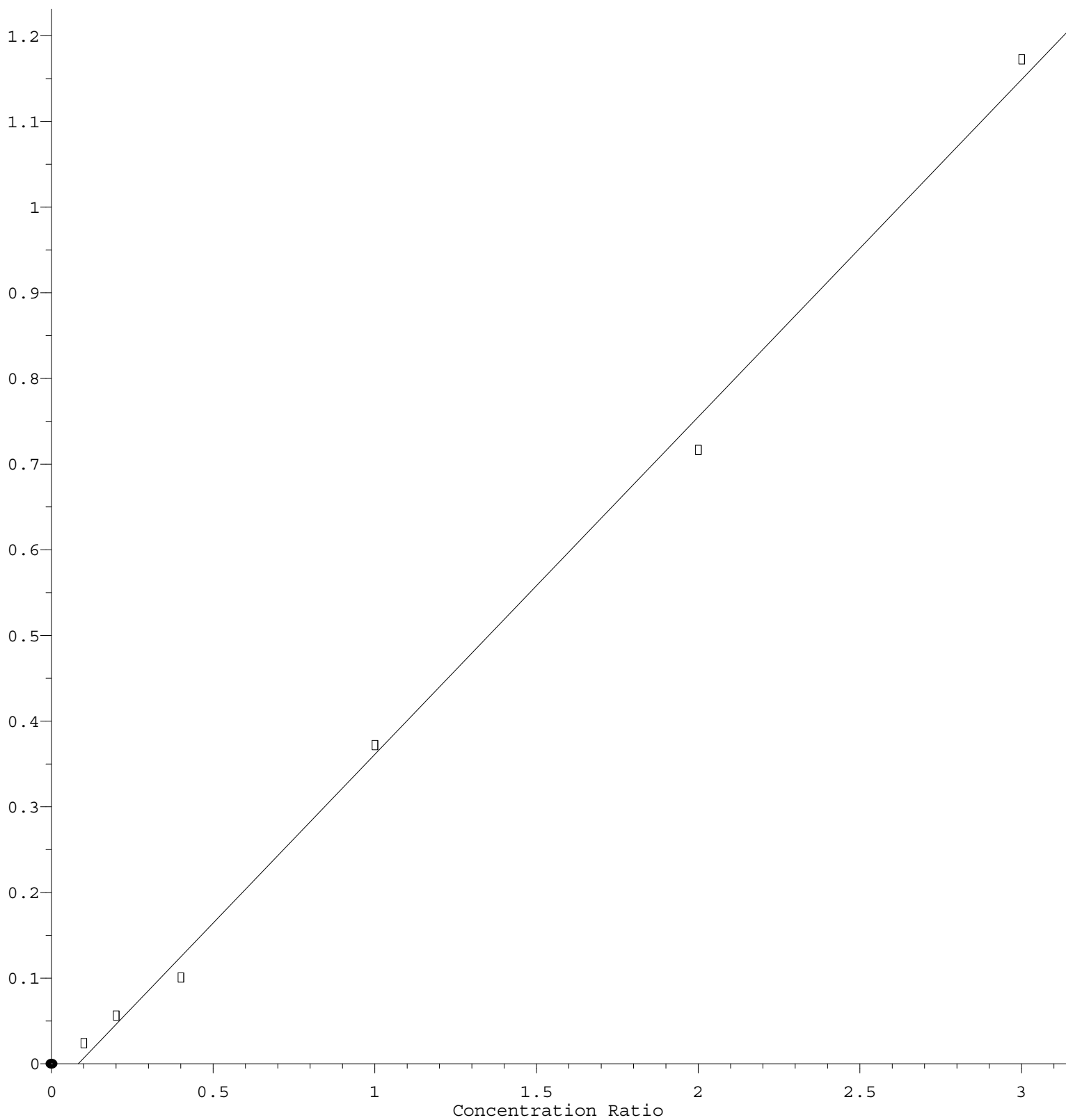
Coef of Det (r^2) = 0.997070 Curve Fit: Linear

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Ethyl methacrylate

Response Ratio



$$\text{Response} = 3.938\text{e-}001 * \text{Amt} - 3.269\text{e-}002$$

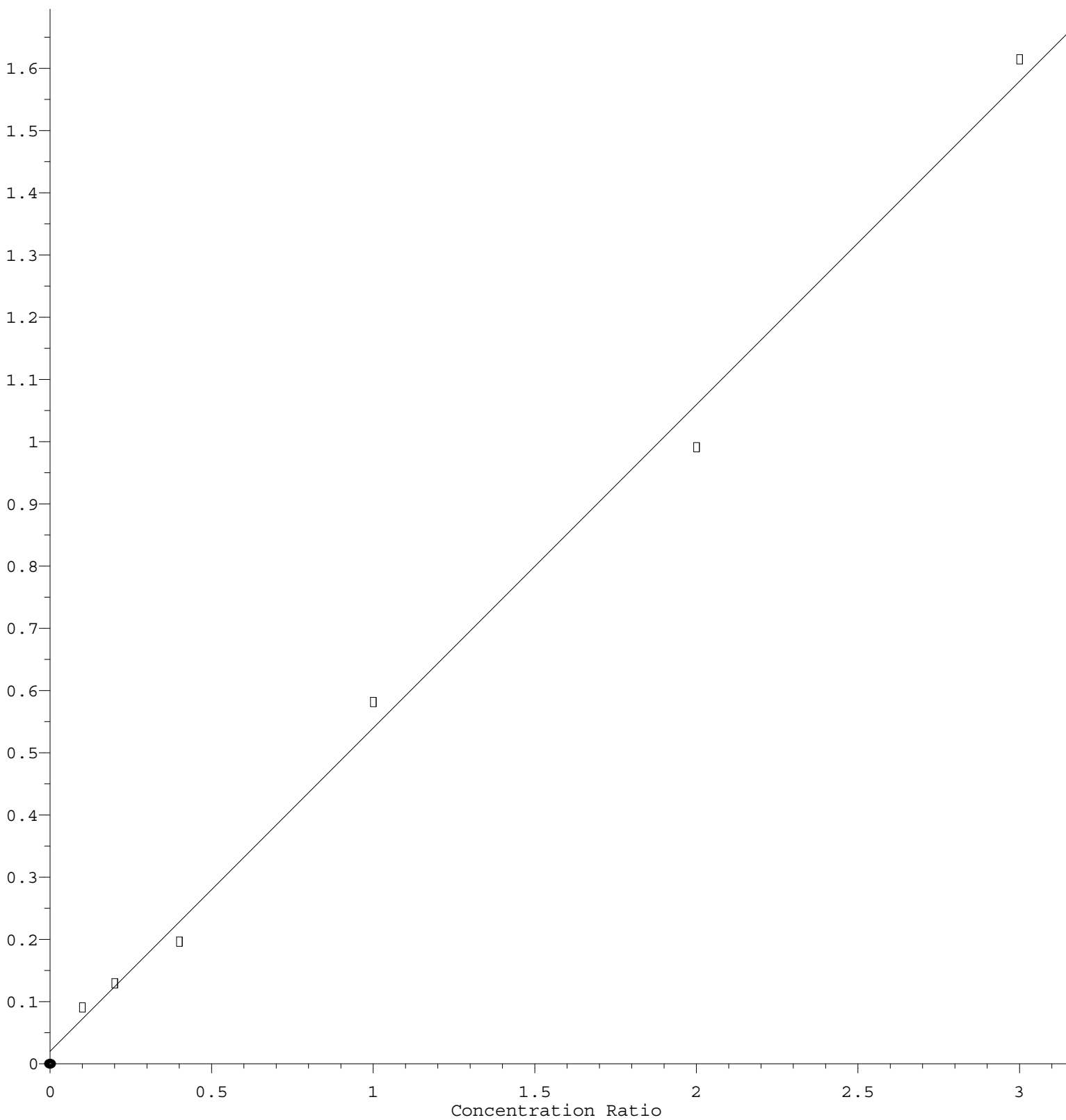
Coef of Det (r^2) = 0.997002 Curve Fit: Linear

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Methylene Chloride

Response Ratio



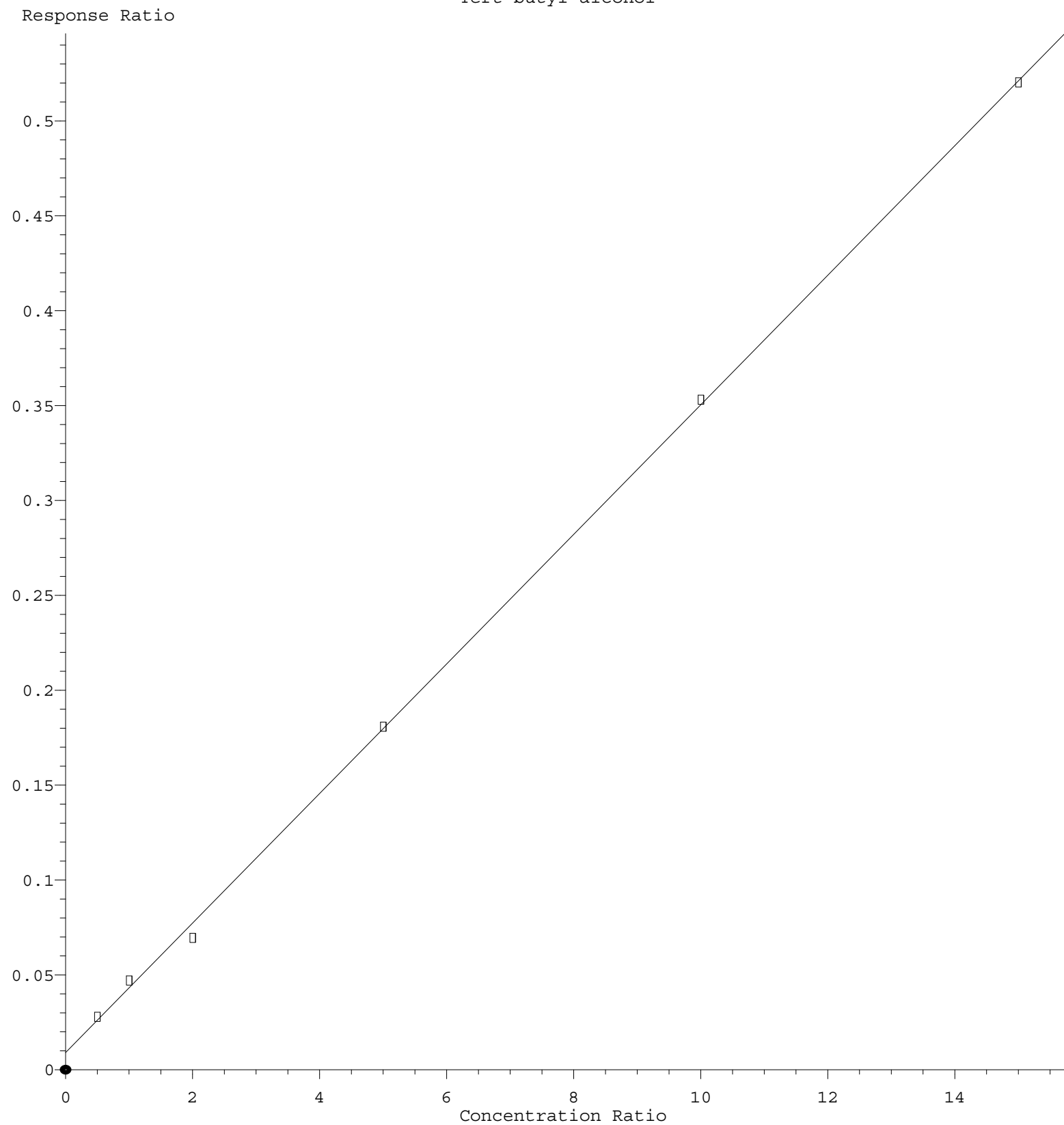
$$\text{Response} = 5.197\text{e-}001 * \text{Amt} + 2.017\text{e-}002$$

Coef of Det (r^2) = 0.995045 Curve Fit: Linear

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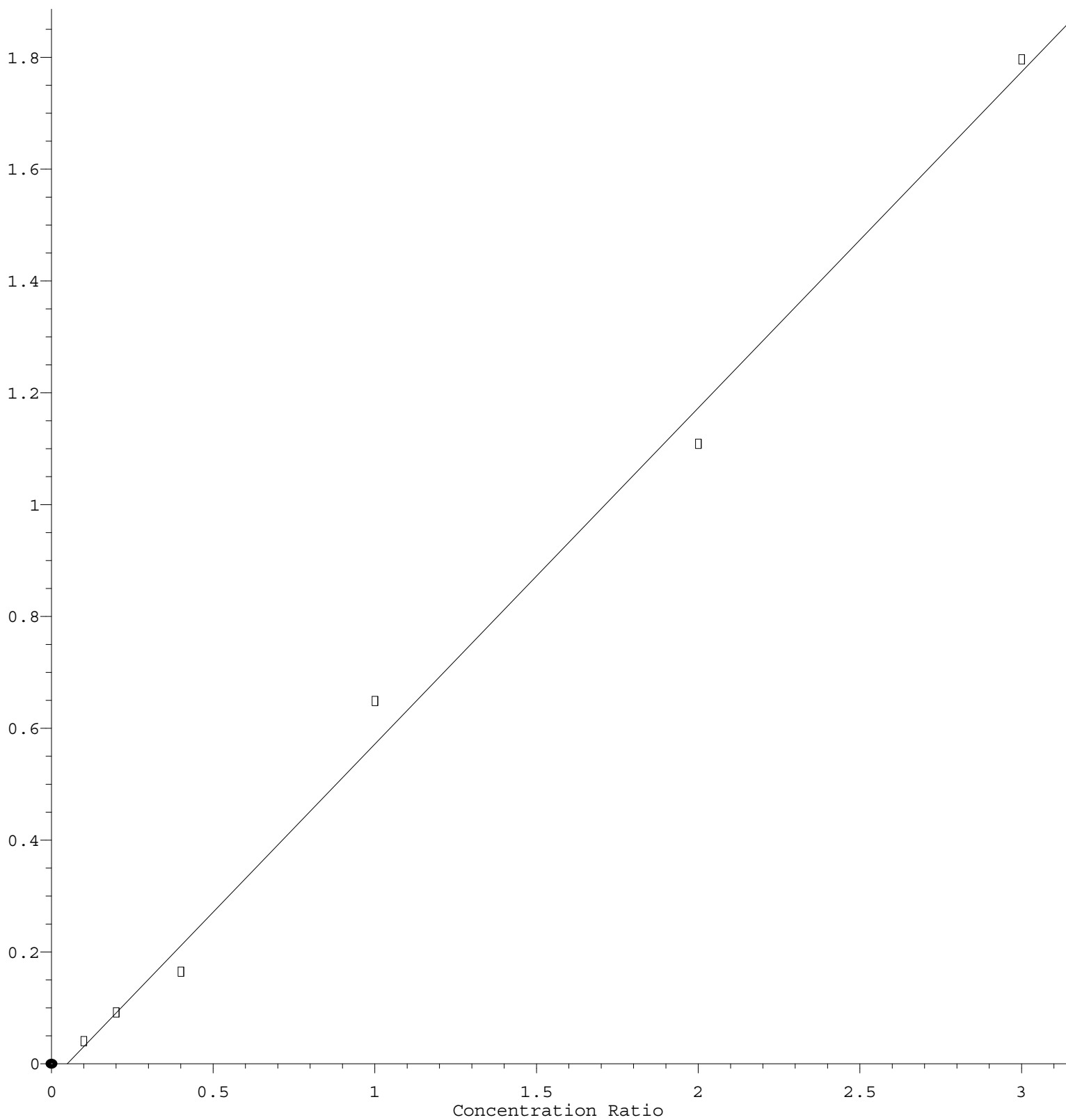
Tert butyl alcohol



Response = $3.417 \times 10^{-2} \times \text{Amt} + 8.977 \times 10^{-3}$
Coef of Det (r^2) = 0.999554 Curve Fit: Linear
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Methyl Iodide

Response Ratio



$$\text{Response} = 6.010\text{e-}001 * \text{Amt} - 2.933\text{e-}002$$

Coef of Det (r^2) = 0.994766 Curve Fit: Linear

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