

Method Path : Z:\voasrv\HPCHEM1\MSVOA_U\Method\
 Method File : 82U011923W.M
 Title : SW846 8260
 Last Update : Fri Jan 20 01:04:16 2023
 Response Via : Initial Calibration

Calibration Files

1 =VU052734.D 5 =VU052735.D 20 =VU052736.D 50 =VU052737.D 100 =VU052738.D 150 =VU052739.D

Compound		1	5	20	50	100	150	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.645	0.648	0.565	0.556	0.563	0.561	0.590	7.48
3) P	Chloromethane	0.729	0.704	0.585	0.539	0.539	0.538	0.606	14.55
4) C	Vinyl Chloride	0.610	0.664	0.584	0.579	0.593	0.595	0.604	5.18#
5) T	Bromomethane		0.292	0.285	0.289	0.305	0.321	0.298	4.93
6) T	Chloroethane	0.410	0.436	0.369	0.357	0.363	0.356	0.382	8.69
7) T	Trichlorofluor...	0.997	0.994	0.925	0.889	0.897	0.878	0.930	5.70
8) T	Diethyl Ether	0.316	0.388	0.339	0.327	0.330	0.332	0.339	7.44
9) T	1,1,2-Trichlor...	0.517	0.608	0.542	0.513	0.523	0.524	0.538	6.61
10) T	Methyl Iodide		0.341	0.395	0.460	0.493	0.519	0.442	16.49
11) T	Tert butyl alc...		0.121	0.127	0.130	0.125	0.110	0.123	6.08
12) CM	1,1-Dichloroet...	0.577	0.573	0.522	0.501	0.509	0.509	0.532	6.45#
13) T	Acrolein		0.157	0.112	0.111	0.111	0.112	0.121	16.70
14) T	Allyl chloride	0.693	0.900	0.842	0.850	0.876	0.865	0.838	8.78
15) T	Acrylonitrile	0.337	0.356	0.336	0.338	0.334	0.331	0.339	2.69
16) T	Acetone	0.355	0.367	0.336	0.335	0.334	0.332	0.343	4.22
17) T	Carbon Disulfide	1.805	1.709	1.540	1.483	1.514	1.510	1.594	8.25
18) T	Methyl Acetate	1.029	0.976	0.943	0.921	0.911	0.920	0.950	4.78
19) T	Methyl tert-bu...	1.677	1.870	1.768	1.797	1.847	1.851	1.802	3.99
20) T	Methylene Chlo...	1.326	0.854	0.647	0.609	0.603	0.596	0.773	37.29
21) T	trans-1,2-Dich...	0.600	0.593	0.565	0.552	0.564	0.565	0.573	3.30
22) T	Diisopropyl ether	1.606	1.828	1.798	1.741	1.739	1.741	1.742	4.37
23) T	Vinyl Acetate	1.157	1.340	1.340	1.369	1.403	1.411	1.337	6.96
24) P	1,1-Dichloroet...	1.141	1.219	1.110	1.049	1.058	1.052	1.105	6.07
25) T	2-Butanone	0.391	0.464	0.444	0.455	0.453	0.447	0.443	5.91
26) T	2,2-Dichloropr...	0.866	0.996	0.889	0.877	0.900	0.911	0.906	5.16
27) T	cis-1,2-Dichlo...	0.566	0.657	0.636	0.635	0.639	0.643	0.629	5.11
28) T	Bromochloromet...	0.469	0.511	0.462	0.450	0.437	0.438	0.461	5.98
29) T	Tetrahydrofuran	0.218	0.265	0.264	0.267	0.267	0.261	0.257	7.44
30) C	Chloroform	1.433	1.314	1.142	1.072	1.071	1.054	1.181	13.26#
31) T	Cyclohexane		1.183	0.999	0.956	0.955	0.952	1.009	9.81
32) T	1,1,1-Trichlor...	0.974	1.048	0.970	0.941	0.942	0.930	0.967	4.46
33) S	1,2-Dichloroet...		0.821	0.741	0.693	0.673	0.671	0.720	8.80
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.375	0.347	0.348	0.335	0.336	0.348	4.68
36) T	1,1-Dichloropr...	0.476	0.503	0.494	0.502	0.516	0.505	0.500	2.68
37) T	Ethyl Acetate	0.600	0.591	0.514	0.528	0.517	0.509	0.543	7.62
38) T	Carbon Tetrach...	0.493	0.528	0.514	0.515	0.522	0.511	0.514	2.29
39) T	Methylcyclohexane	0.465	0.565	0.567	0.607	0.642	0.642	0.581	11.44
40) TM	Benzene	1.489	1.616	1.490	1.491	1.499	1.466	1.508	3.56
41) T	Methacrylonitrile	0.222	0.249	0.268	0.276	0.283	0.279	0.263	8.94
42) TM	1,2-Dichloroet...	0.521	0.597	0.545	0.541	0.539	0.525	0.545	4.99
43) T	Isopropyl Acetate	0.642	0.748	0.746	0.785	0.807	0.813	0.757	8.31
44) TM	Trichloroethene	0.346	0.395	0.368	0.368	0.382	0.380	0.373	4.45
45) C	1,2-Dichloropr...	0.373	0.430	0.382	0.380	0.388	0.381	0.389	5.30#
46) T	Dibromomethane	0.285	0.284	0.258	0.262	0.265	0.263	0.269	4.29
47) T	Bromodichlorom...	0.528	0.577	0.534	0.525	0.540	0.531	0.539	3.57
48) T	Methyl methacr...	0.257	0.320	0.339	0.369	0.390	0.394	0.345	15.00
49) T	1,4-Dioxane	0.006	0.007	0.008	0.008	0.007	0.005	0.007	15.16
50) S	Toluene-d8		1.369	1.286	1.310	1.275	1.289	1.306	2.86
51) T	4-Methyl-2-Pen...	0.407	0.481	0.500	0.516	0.521	0.515	0.490	8.79
52) CM	Toluene	0.766	0.946	0.929	0.936	0.953	0.943	0.912	7.88#
53) T	t-1,3-Dichloro...	0.489	0.541	0.548	0.579	0.604	0.617	0.563	8.34
54) T	cis-1,3-Dichlo...	0.512	0.585	0.586	0.614	0.652	0.655	0.601	8.86
55) T	1,1,2-Trichlor...	0.344	0.403	0.375	0.375	0.372	0.366	0.372	5.16
56) T	Ethyl methacry...	0.356	0.482	0.511	0.568	0.608	0.621	0.524	18.81

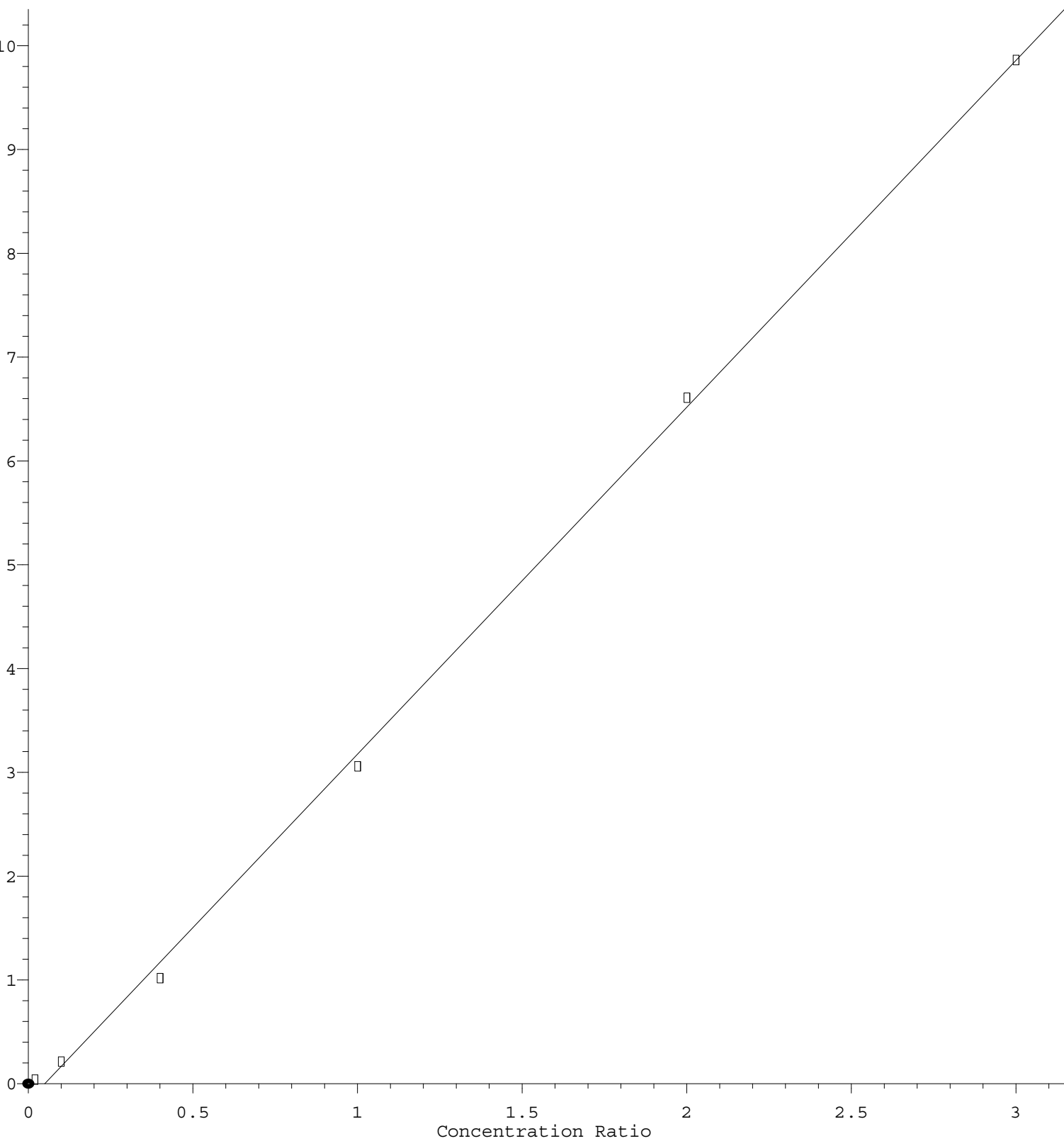
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57)	T	1,3-Dichloropr...	0.600	0.699	0.654	0.650	0.662	0.652	0.653	4.82
58)	T	2-Chloroethyl ...		0.012	0.011	0.014	0.019	0.023	0.016	31.30
59)	T	2-Hexanone	0.280	0.365	0.390	0.407	0.414	0.408	0.377	13.43
60)	T	Dibromochlorom...	0.396	0.417	0.400	0.405	0.417	0.419	0.409	2.40
61)	T	1,2-Dibromoethane	0.338	0.408	0.404	0.392	0.403	0.401	0.391	6.78
62)	S	4-Bromofluorob...		0.460	0.455	0.486	0.487	0.497	0.477	3.85
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.367	0.356	0.333	0.340	0.349	0.339	0.347	3.60
65)	PM	Chlorobenzene	1.071	1.114	1.018	1.030	1.064	1.051	1.058	3.21
66)	T	1,1,1,2-Tetrac...	0.390	0.430	0.385	0.387	0.395	0.393	0.397	4.23
67)	C	Ethyl Benzene	1.546	1.756	1.739	1.848	1.924	1.914	1.788	7.90#
68)	T	m/p-Xylenes	0.567	0.655	0.701	0.741	0.754	0.749	0.694	10.51
69)	T	o-Xylene	0.535	0.626	0.667	0.698	0.726	0.726	0.663	11.10
70)	T	Styrene	0.768	1.008	1.094	1.188	1.233	1.233	1.087	16.49
71)	P	Bromoform	0.303	0.345	0.321	0.330	0.344	0.345	0.331	5.11
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.884	3.187	3.311	3.488	3.484	3.411	3.294	7.02
74)	T	N-amyl acetate	1.012	1.153	1.214	1.336	1.409	1.405	1.255	12.54
75)	P	1,1,2,2-Tetrac...	1.551	1.411	1.249	1.222	1.213	1.183	1.305	11.09
76)	T	1,2,3-Trichlor...	1.371	1.465	1.324	1.339	1.355	1.334	1.364	3.81
77)	T	Bromobenzene	0.867	0.922	0.816	0.834	0.844	0.827	0.852	4.54
78)	T	n-propylbenzene	3.114	3.616	3.913	4.222	4.221	4.158	3.874	11.36
79)	T	2-Chlorotoluene	2.158	2.475	2.395	2.483	2.454	2.398	2.394	5.07
80)	T	1,3,5-Trimethy...	2.093	2.561	2.815	2.995	2.996	2.958	2.736	13.01
81)	T	trans-1,4-Dich...		0.309	0.327	0.354	0.376	0.390	0.351	9.53
82)	T	4-Chlorotoluene	2.387	2.636	2.791	2.862	2.868	2.827	2.729	6.88
83)	T	tert-Butylbenzene	2.454	2.747	2.733	2.929	3.012	2.977	2.809	7.46
84)	T	1,2,4-Trimethy...	2.043	2.497	2.824	2.973	2.992	2.967	2.716	13.95
85)	T	sec-Butylbenzene	2.565	3.197	3.479	3.759	3.807	3.821	3.438	14.29
86)	T	p-Isopropyltol...	2.221	2.646	2.929	3.189	3.293	3.262	2.923	14.45
87)	T	1,3-Dichlorobe...	1.592	1.645	1.592	1.646	1.643	1.625	1.624	1.59
88)	T	1,4-Dichlorobe...	1.700	1.786	1.577	1.632	1.682	1.641	1.670	4.26
89)	T	n-Butylbenzene	1.876	2.245	2.352	2.711	2.901	2.965	2.508	16.89
90)	T	Hexachloroethane	0.593	0.563	0.523	0.542	0.569	0.575	0.561	4.46
91)	T	1,2-Dichlorobe...	1.703	1.692	1.576	1.625	1.630	1.600	1.638	3.08
92)	T	1,2-Dibromo-3-...	0.266	0.278	0.255	0.271	0.278	0.275	0.271	3.25
93)	T	1,2,4-Trichlor...	0.799	0.824	0.886	1.008	1.101	1.121	0.956	14.62
94)	T	Hexachlorobuta...	0.521	0.547	0.490	0.524	0.547	0.552	0.530	4.45
95)	T	Naphthalene	1.961	2.127	2.543	3.057	3.304	3.287	2.713	21.71
96)	T	1,2,3-Trichlor...	0.757	0.862	0.900	1.014	1.081	1.083	0.950	13.85

(#) = Out of Range

Naphthalene

Response Ratio



$$\text{Response} = 3.343\text{e}+000 * \text{Amt} - 1.672\text{e}-001$$

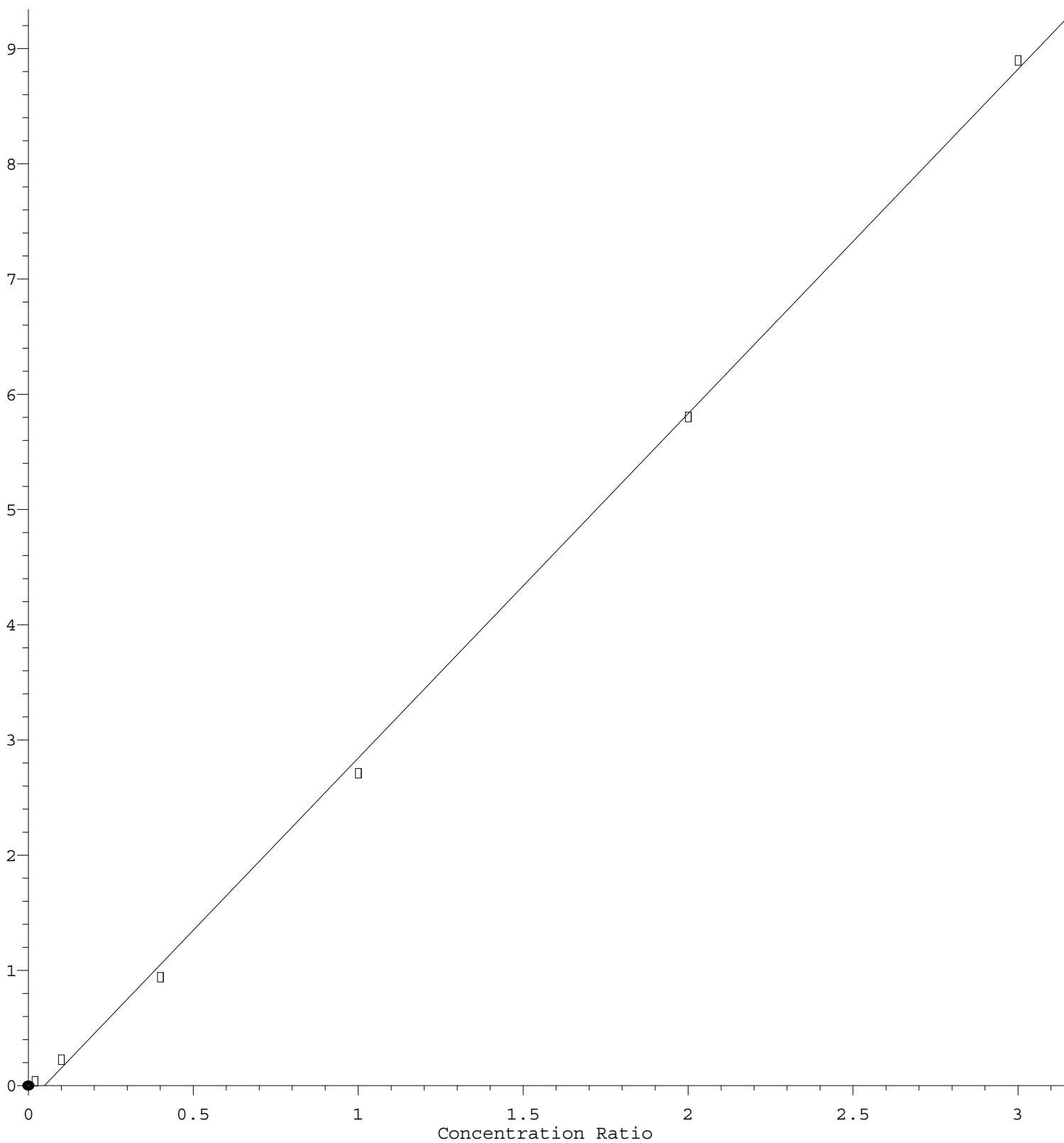
Coef of Det (r^2) = 0.999154 Curve Fit: Linear

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n-Butylbenzene

Response Ratio



$$\text{Response} = 2.989\text{e}+000 * \text{Amt} - 1.460\text{e}-001$$

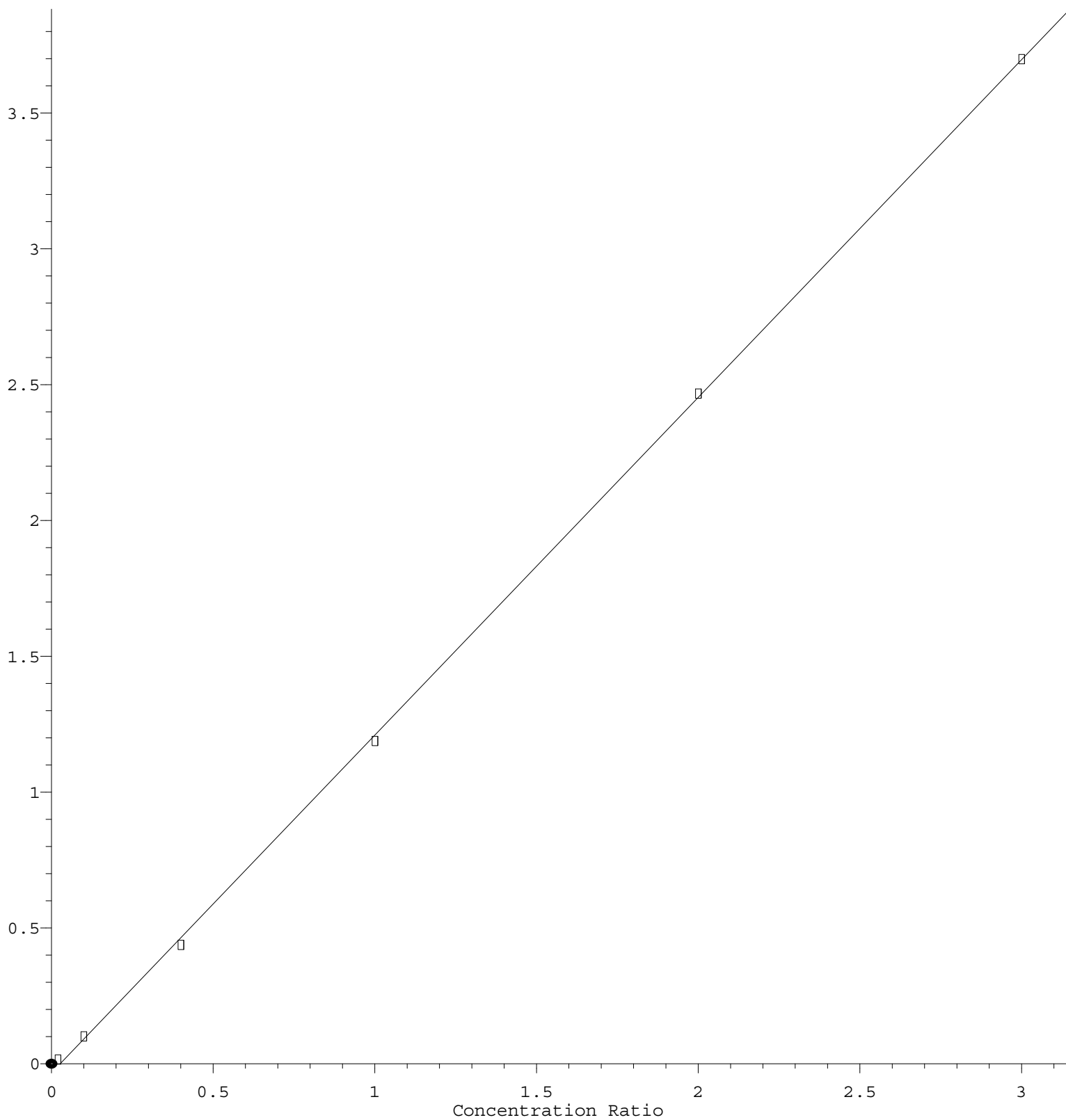
Coef of Det (r^2) = 0.999112 Curve Fit: Linear

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Styrene

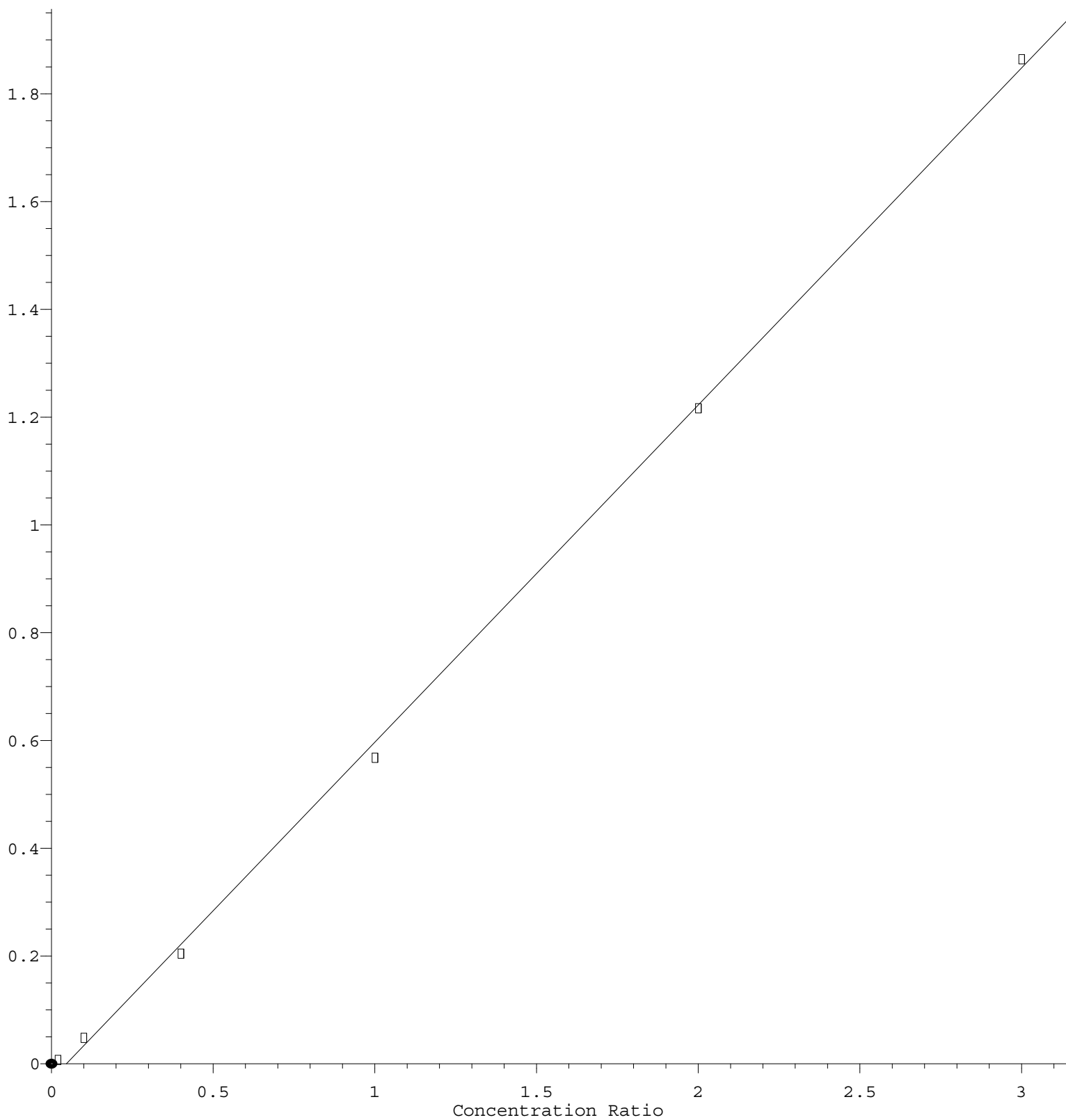
Response Ratio



Response = 1.243e+000 * Amt - 3.325e-002
Coef of Det (r^2) = 0.999815 Curve Fit: Linear
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Ethyl methacrylate

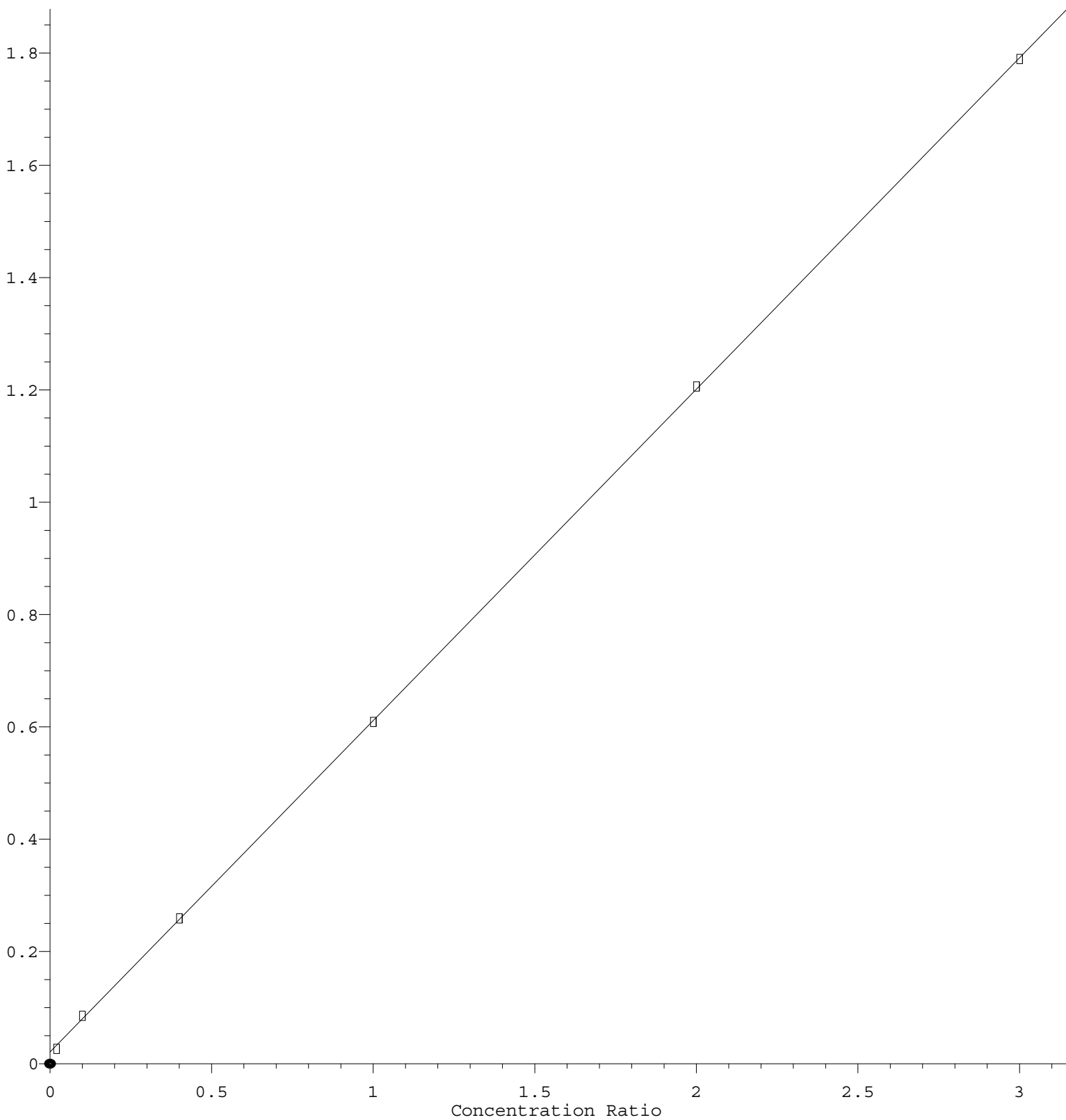
Response Ratio



Response = $6.257 \times 10^{-1} \times \text{Amt} - 2.859 \times 10^{-2}$
Coef of Det (r^2) = 0.999211 Curve Fit: Linear
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Methylene Chloride

Response Ratio



$$\text{Response} = 5.902\text{e-}001 * \text{Amt} + 2.110\text{e-}002$$

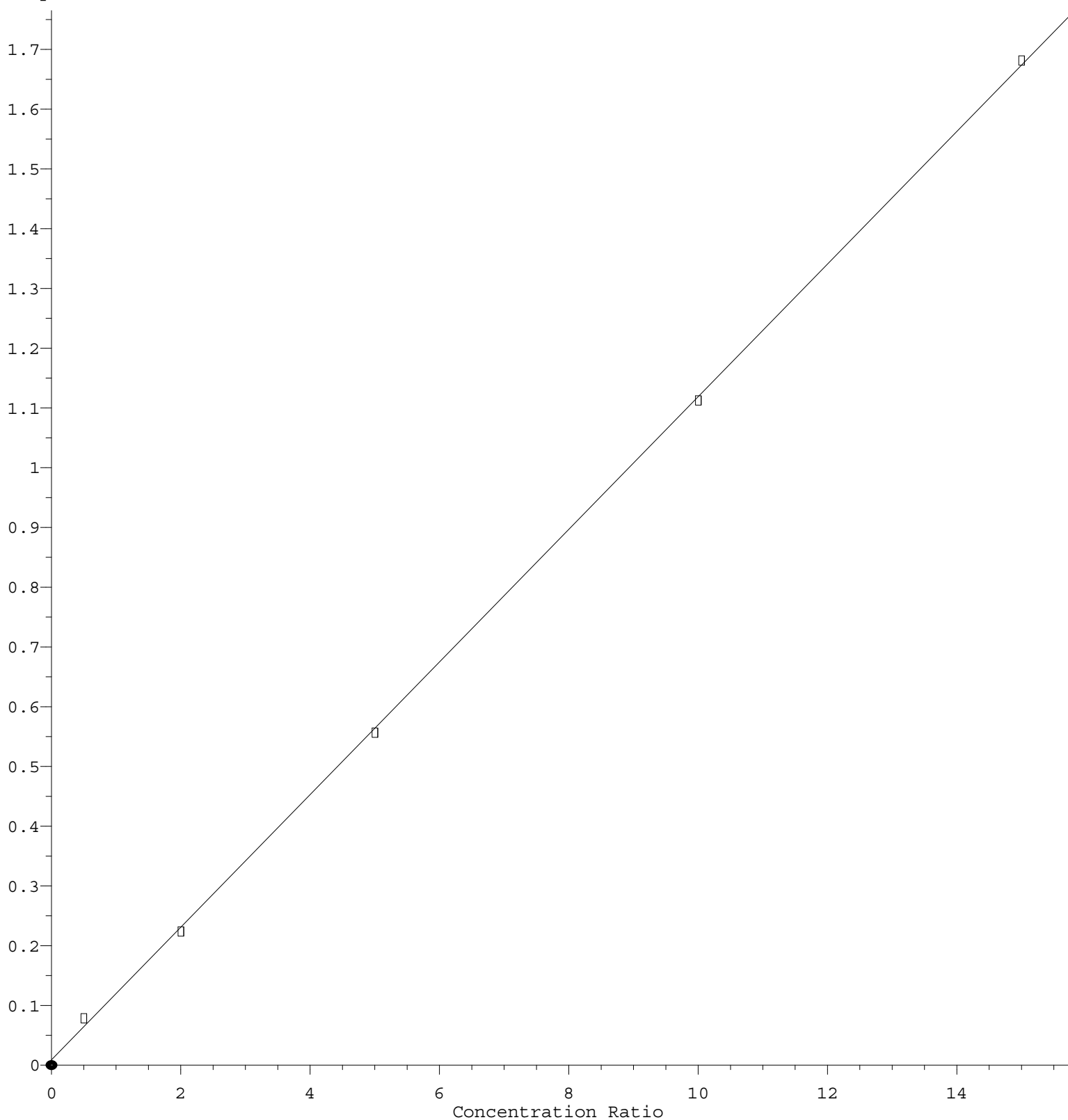
Coef of Det (r^2) = 0.999957 Curve Fit: Linear

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Acrolein

Response Ratio



$$\text{Response} = 1.110\text{e-}001 * \text{Amt} + 8.967\text{e-}003$$

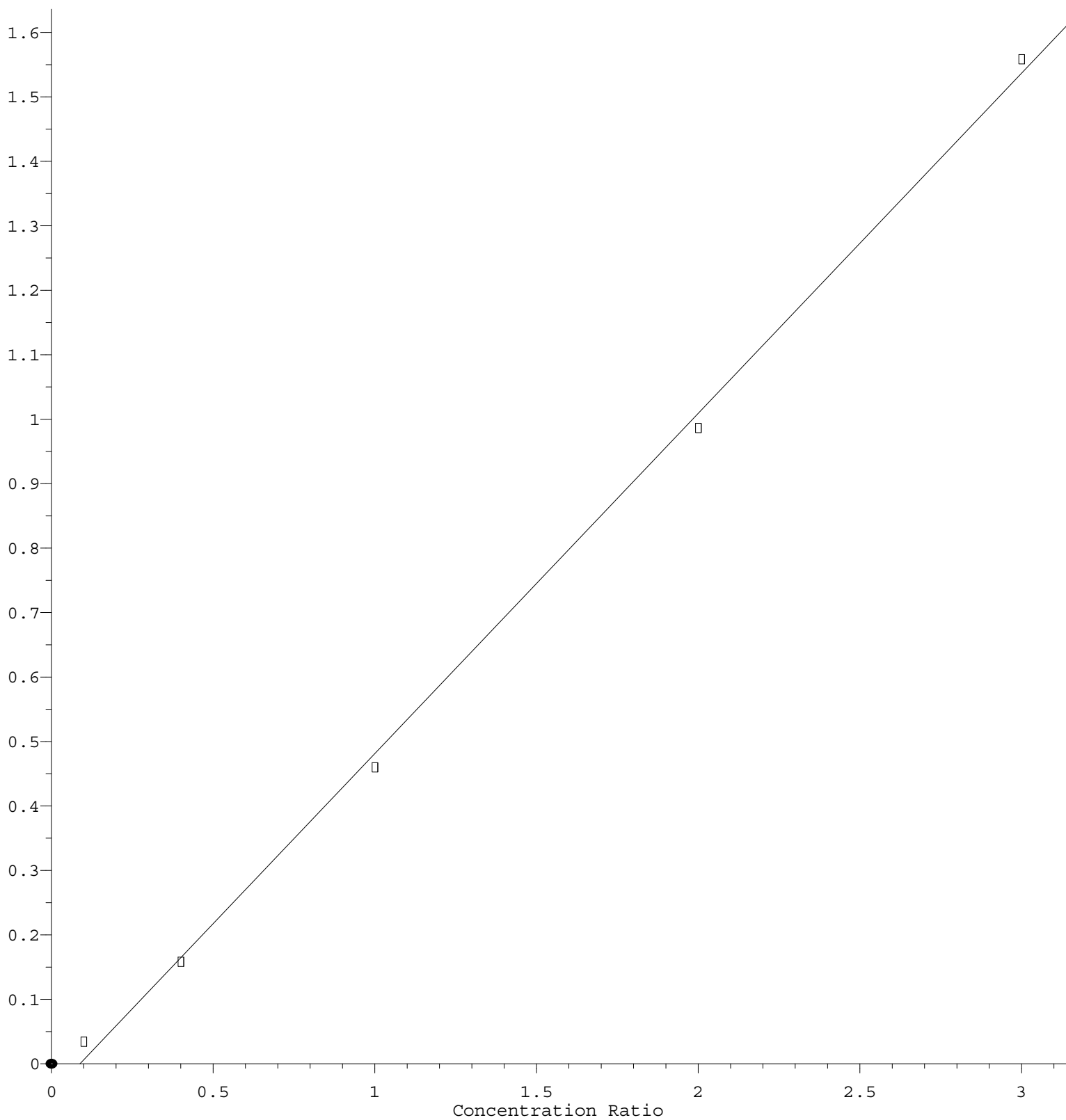
Coef of Det (r^2) = 0.999775 Curve Fit: Linear

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Methyl Iodide

Response Ratio



$$\text{Response} = 5.277\text{e-}001 * \text{Amt} - 4.665\text{e-}002$$

Coef of Det (r^2) = 0.998583 Curve Fit: Linear

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