

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N092922W.M
 Title : SW846 8260
 Last Update : Fri Sep 30 07:44:59 2022
 Response Via : Initial Calibration

Calibration Files

1 =VN074651.D 5 =VN074652.D 20 =VN074654.D 50 =VN074655.D 100 =VN074656.D 10 =VN074653.D

	Compound	1	5	20	50	100	10	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	1.038	1.044	1.051	1.020	0.993	1.135	1.047	4.61
3) P	Chloromethane	1.693	1.559	1.539	1.442	1.323	1.633	1.531	8.69
4) C	Vinyl Chloride	2.390	2.304	2.291	2.187	2.025	2.144	2.224	5.89#
5) T	Bromomethane		1.800	1.574	1.584	1.209	1.513	1.536	13.87
6) T	Chloroethane		1.865	1.883	1.734	1.364	1.697	1.709	12.21
7) T	Trichlorofluor...	1.838	1.665	1.478	1.466	1.365	1.465	1.546	11.20
8) T	Diethyl Ether	0.934	0.819	0.682	0.662	0.628	0.675	0.734	16.12
9) T	1,1,2-Trichlor...	1.058	0.983	0.884	0.851	0.810	0.943	0.921	9.91
10) T	Methyl Iodide		1.128	1.100	1.112	1.084	1.049	1.095	2.75
11) T	Tert butyl alc...		0.419	0.325	0.317	0.292	0.320	0.335	14.64
12) CM	1,1-Dichloroet...	1.132	1.016	0.875	0.883	0.798	0.898	0.934	12.84#
13) T	Acrolein		0.188	0.138	0.137	0.136	0.124	0.145	17.20
14) T	Allyl chloride	2.341	2.032	2.019	1.953	1.855	1.903	2.017	8.54
15) T	Acrylonitrile	0.820	0.813	0.795	0.797	0.757	0.757	0.790	3.43
16) T	Acetone	0.865	0.746	0.638	0.616	0.586	0.606	0.676	16.02
17) T	Carbon Disulfide	3.080	2.980	2.565	2.602	2.486	2.639	2.725	8.93
18) T	Methyl Acetate	2.771	2.341	2.245	2.247	2.099	2.188	2.315	10.24
19) T	Methyl tert-bu...	3.891	3.774	3.455	3.512	3.390	3.363	3.564	6.10
20) T	Methylene Chlo...	1.851	1.412	1.128	1.124	1.037	1.151	1.284	23.81
21) T	trans-1,2-Dich...	1.204	1.088	0.943	0.956	0.939	0.991	1.020	10.38
22) T	Diisopropyl ether	4.265	4.443	4.031	4.055	3.924	3.903	4.103	5.12
23) T	Vinyl Acetate	3.699	3.803	3.550	3.639	3.517	3.432	3.607	3.72
24) P	1,1-Dichloroet...	2.181	2.265	2.063	2.071	1.947	2.036	2.094	5.37
25) T	2-Butanone	1.233	1.269	1.122	1.143	1.060	1.094	1.153	7.04
26) T	2,2-Dichloropr...	2.019	1.905	1.684	1.717	1.646	1.714	1.781	8.28
27) T	cis-1,2-Dichlo...	1.500	1.375	1.190	1.168	1.089	1.165	1.248	12.50
28) T	Bromochloromet...	0.847	0.959	1.019	1.034	1.056	0.807	0.954	10.90
29) T	Tetrahydrofuran	0.787	0.784	0.769	0.778	0.729	0.719	0.761	3.88
30) C	Chloroform	1.829	2.029	1.932	1.972	1.894	1.922	1.930	3.52#
31) T	Cyclohexane		2.442	1.930	1.954	1.816	2.037	2.036	11.81
32) T	1,1,1-Trichlor...	2.000	1.676	1.626	1.688	1.614	1.556	1.693	9.31
33) S	1,2-Dichloroet...		1.324	1.164	1.266	1.289	1.223	1.253	4.95
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.552	0.501	0.532	0.540	0.521	0.529	3.66
36) T	1,1-Dichloropr...	0.984	0.893	0.769	0.830	0.799	0.811	0.848	9.25
37) T	Ethyl Acetate	1.276	1.261	1.239	1.255	1.234	1.249	1.252	1.21
38) T	Carbon Tetrach...	0.797	0.824	0.734	0.791	0.768	0.744	0.776	4.39
39) T	Methylcyclohexane	1.033	1.127	1.036	1.046	1.034	1.072	1.058	3.47
40) TM	Benzene	2.633	2.759	2.552	2.615	2.535	2.580	2.612	3.10
41) T	Methacrylonitrile	0.554	0.593	0.485	0.578	0.586	0.494	0.549	8.65
42) TM	1,2-Dichloroet...	1.000	0.901	0.825	0.862	0.842	0.837	0.878	7.46
43) T	Isopropyl Acetate	2.190	1.997	1.944	2.008	1.939	1.953	2.005	4.74
44) TM	Trichloroethene	0.510	0.595	0.538	0.552	0.533	0.538	0.544	5.22
45) C	1,2-Dichloropr...	0.783	0.749	0.677	0.700	0.675	0.683	0.711	6.29#
46) T	Dibromomethane	0.498	0.468	0.424	0.442	0.425	0.433	0.448	6.49
47) T	Bromodichlorom...	0.939	0.924	0.822	0.880	0.858	0.833	0.876	5.42
48) T	Methyl methacr...	0.829	0.811	0.796	0.836	0.852	0.835	0.826	2.41
49) T	1,4-Dioxane	0.017	0.016	0.015	0.016	0.015	0.016	0.016	3.83
50) S	Toluene-d8		2.210	2.078	2.266	2.368	2.209	2.226	4.72
51) T	4-Methyl-2-Pen...	1.259	1.312	1.243	1.298	1.291	1.210	1.269	3.04
52) CM	Toluene	1.559	1.583	1.522	1.643	1.631	1.526	1.577	3.25#
53) T	t-1,3-Dichloro...	0.919	1.029	0.968	1.043	1.043	0.955	0.993	5.29
54) T	cis-1,3-Dichlo...	1.145	1.137	1.043	1.085	1.070	1.084	1.094	3.61
55) T	1,1,2-Trichlor...	0.743	0.625	0.598	0.622	0.606	0.620	0.636	8.46
56) T	Ethyl methacry...	0.992	1.152	1.077	1.167	1.176	1.015	1.097	7.32

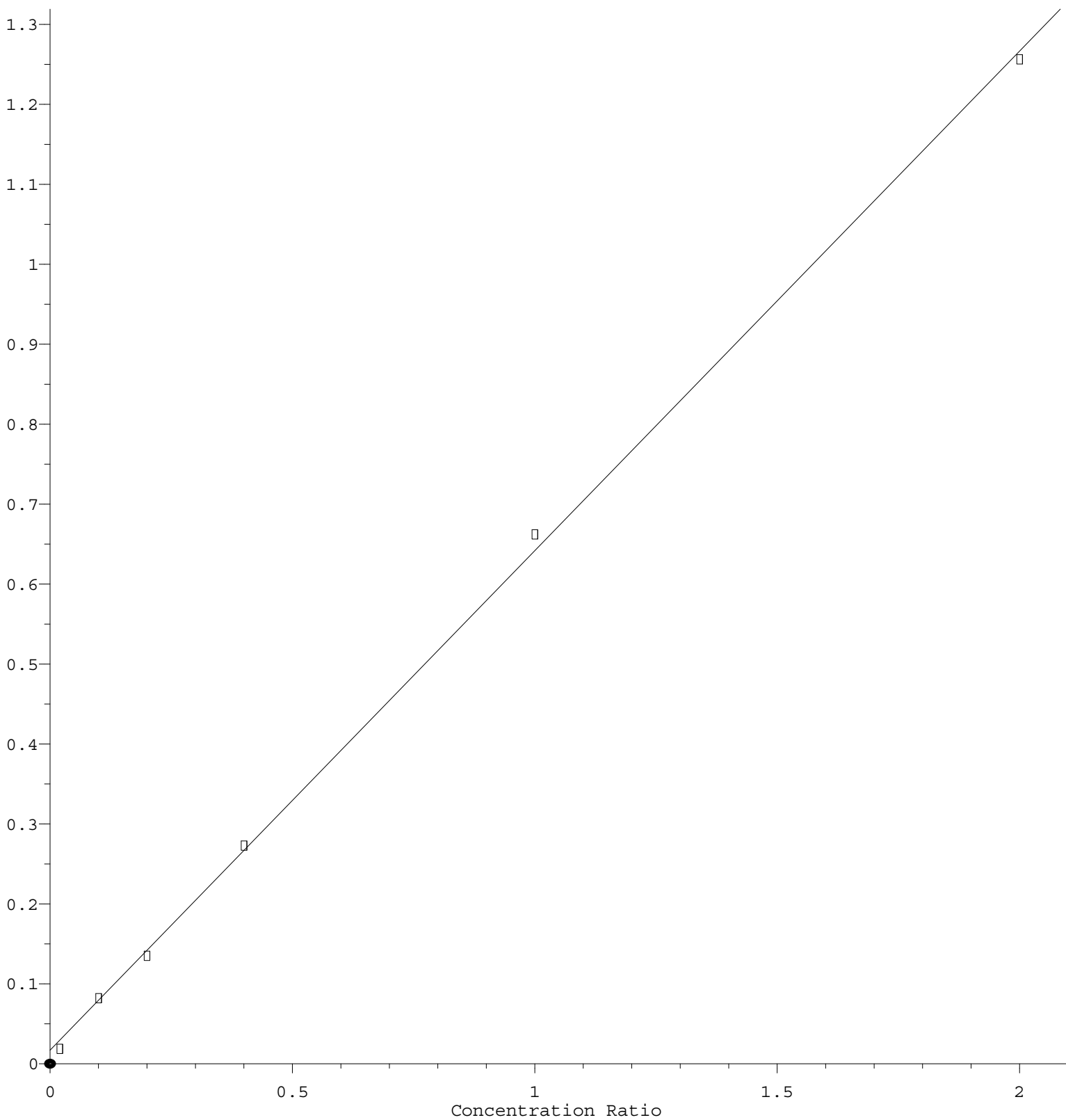
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57)	T	1,3-Dichloropr...	1.111	1.181	1.082	1.142	1.099	1.134	1.125	3.16
58)	T	2-Chloroethyl ...	0.494	0.429	0.429	0.452	0.461	0.420	0.448	6.17
59)	T	2-Hexanone	0.968	0.980	0.937	0.995	0.988	0.886	0.959	4.29
60)	T	Dibromochlorom...	0.613	0.605	0.587	0.635	0.657	0.572	0.612	5.06
61)	T	1,2-Dibromoethane	0.587	0.663	0.605	0.654	0.634	0.595	0.623	5.15
62)	S	4-Bromofluorob...		0.688	0.600	0.745	0.822	0.674	0.706	11.79
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.494	0.463	0.394	0.405	0.381	0.398	0.423	10.71
65)	PM	Chlorobenzene	1.574	1.588	1.451	1.504	1.431	1.429	1.496	4.76
66)	T	1,1,1,2-Tetrac...	0.477	0.618	0.510	0.547	0.527	0.524	0.534	8.86
67)	C	Ethyl Benzene	2.675	3.053	2.710	2.892	2.764	2.700	2.799	5.24#
68)	T	m/p-Xylenes	1.058	1.096	1.006	1.105	1.084	1.010	1.060	4.05
69)	T	o-Xylene	1.034	1.145	1.043	1.101	1.075	0.993	1.065	5.05
70)	T	Styrene	1.539	1.747	1.632	1.848	1.853	1.577	1.699	8.04
71)	P	Bromoform	0.469	0.422	0.394	0.448	0.459	0.375	0.428	8.72
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	5.034	5.153	4.590	4.287	4.173	4.867	4.684	8.56
74)	T	N-amyl acetate	3.636	3.159	2.667	2.554	2.381	2.820	2.869	15.99
75)	P	1,1,2,2-Tetrac...	2.240	1.944	1.751	1.579	1.431	1.748	1.782	15.93
76)	T	1,2,3-Trichlor...	1.240	1.873	1.208	1.138	1.078	1.493	1.338	22.28
77)	T	Bromobenzene	1.324	1.036	0.937	0.882	0.843	0.999	1.003	17.18
78)	T	n-propylbenzene	5.610	5.847	5.400	5.198	4.930	5.431	5.403	5.89
79)	T	2-Chlorotoluene	3.752	3.543	3.081	3.006	2.813	3.284	3.247	10.82
80)	T	1,3,5-Trimethy...	3.639	3.986	3.746	3.674	3.480	3.901	3.738	4.92
81)	T	trans-1,4-Dich...		0.635	0.593	0.587	0.575	0.602	0.598	3.85
82)	T	4-Chlorotoluene	3.224	3.202	2.925	2.923	2.896	2.958	3.021	4.97
83)	T	tert-Butylbenzene	3.657	3.592	3.230	3.149	3.089	3.311	3.338	7.05
84)	T	1,2,4-Trimethy...	3.695	4.070	3.754	3.602	3.476	3.798	3.733	5.40
85)	T	sec-Butylbenzene	4.777	5.000	4.608	4.613	4.483	4.663	4.691	3.81
86)	T	p-Isopropyltol...	3.775	3.818	3.629	3.695	3.645	3.735	3.716	1.98
87)	T	1,3-Dichlorobe...	2.011	1.918	1.733	1.771	1.712	1.779	1.821	6.46
88)	T	1,4-Dichlorobe...	2.186	2.104	1.667	1.765	1.714	1.729	1.861	12.03
89)	T	n-Butylbenzene	3.328	3.422	3.162	3.280	3.291	3.188	3.279	2.89
90)	T	Hexachloroethane	0.920	0.911	0.760	0.735	0.687	0.784	0.800	11.92
91)	T	1,2-Dichlorobe...	2.212	2.012	1.797	1.794	1.724	1.860	1.900	9.53
92)	T	1,2-Dibromo-3-...	0.459	0.374	0.336	0.327	0.311	0.346	0.359	14.86
93)	T	1,2,4-Trichlor...	0.892	0.913	0.825	0.803	0.798	0.862	0.849	5.61
94)	T	Hexachlorobuta...	0.572	0.460	0.372	0.348	0.352	0.390	0.415	20.85
95)	T	Naphthalene	3.064	3.514	3.402	3.313	3.211	3.422	3.321	4.89
96)	T	1,2,3-Trichlor...	0.894	0.894	0.819	0.812	0.792	0.859	0.845	5.21

(#) = Out of Range

Diethyl Ether

Response Ratio



$$\text{Response} = 6.249\text{e-}001 * \text{Amt} + 1.707\text{e-}002$$

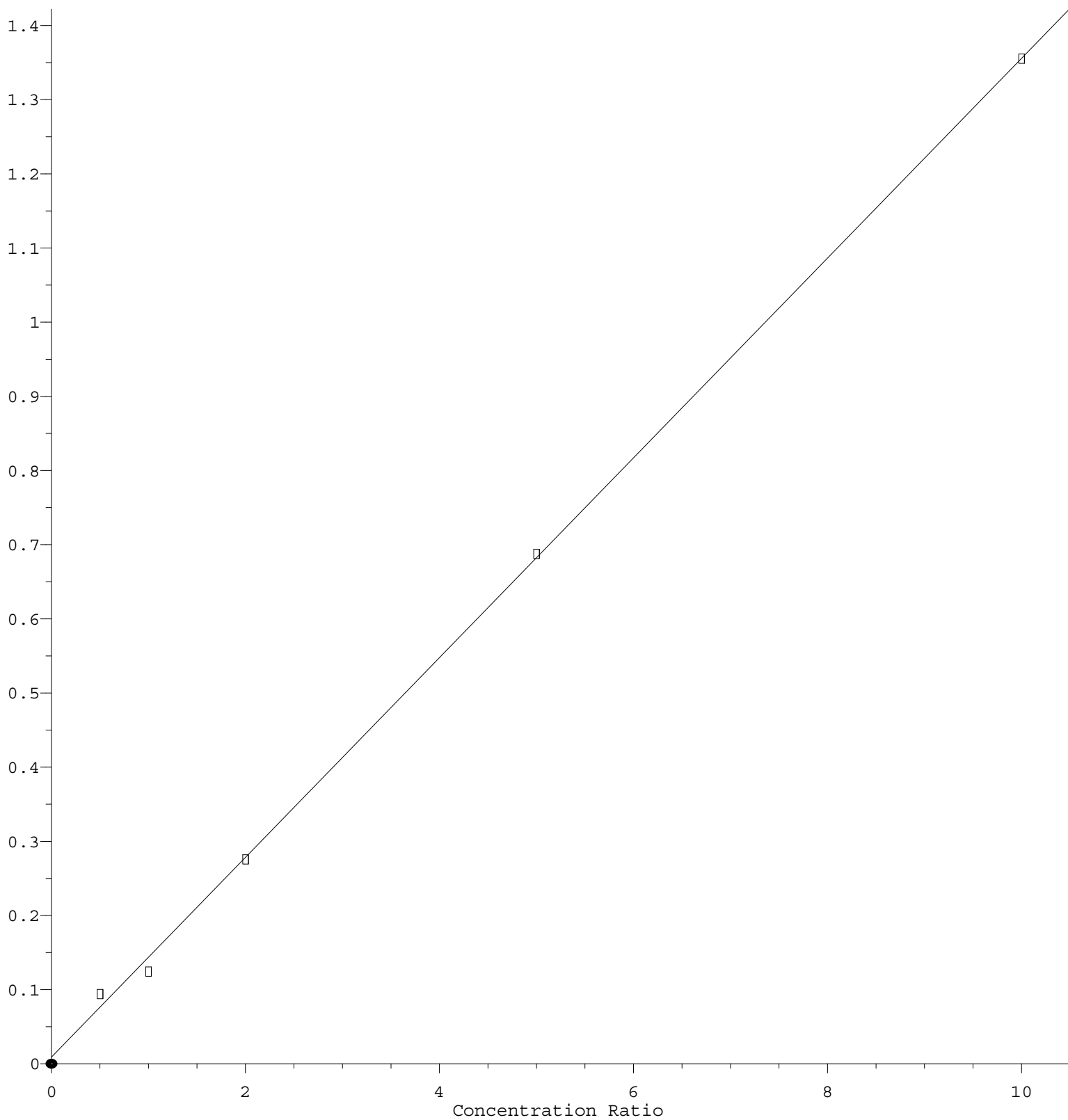
Coef of Det (r^2) = 0.999359 Curve Fit: Linear

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Acrolein

Response Ratio



$$\text{Response} = 1.347\text{e-}001 * \text{Amt} + 8.795\text{e-}003$$

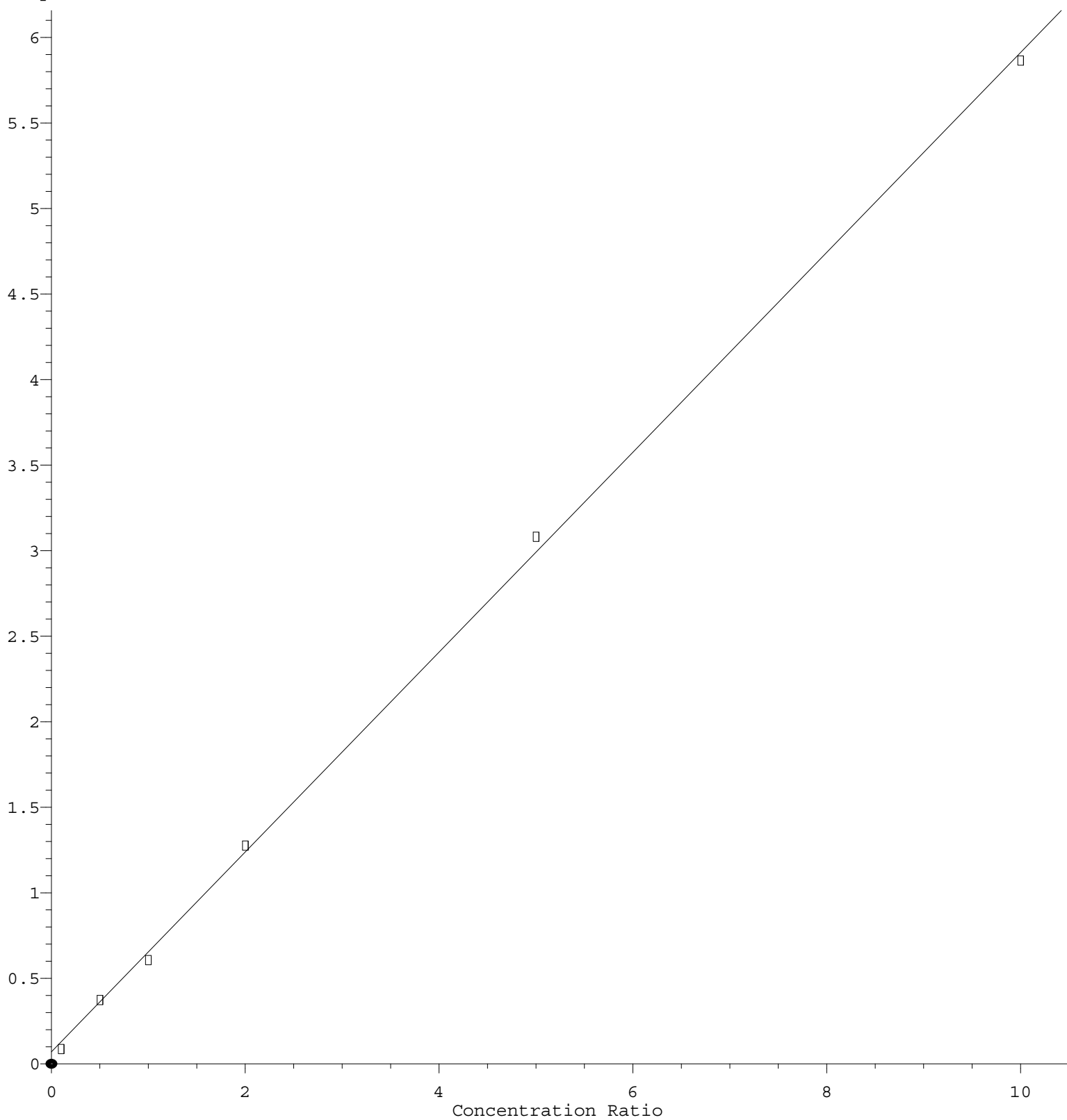
Coef of Det (r^2) = 0.999357 Curve Fit: Linear

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Acetone

Response Ratio



$$\text{Response} = 5.842\text{e-}001 * \text{Amt} + 7.015\text{e-}002$$

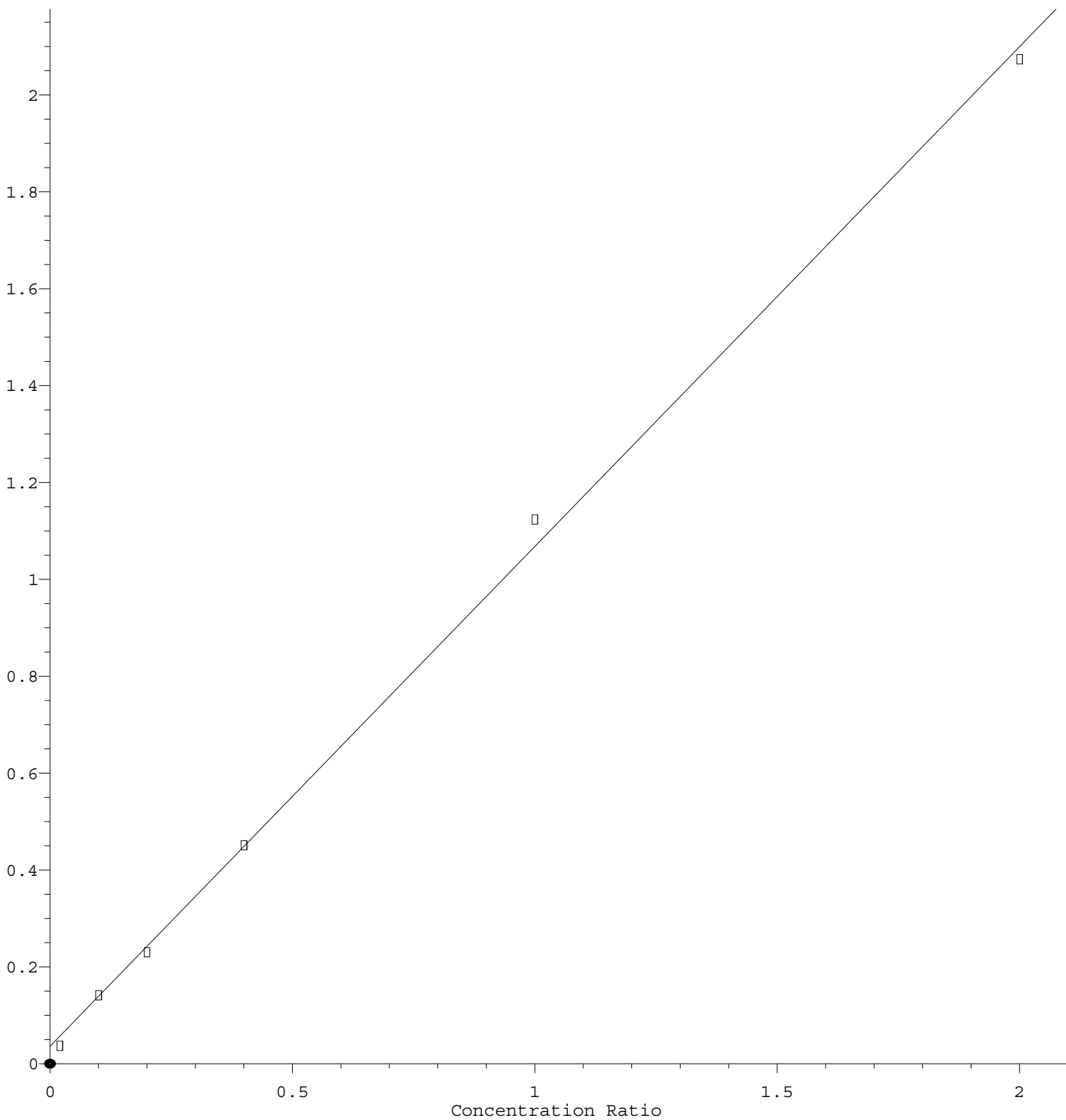
Coef of Det (r^2) = 0.999358 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$$\text{Response} = 1.032\text{e}+000 * \text{Amt} + 3.629\text{e}-002$$

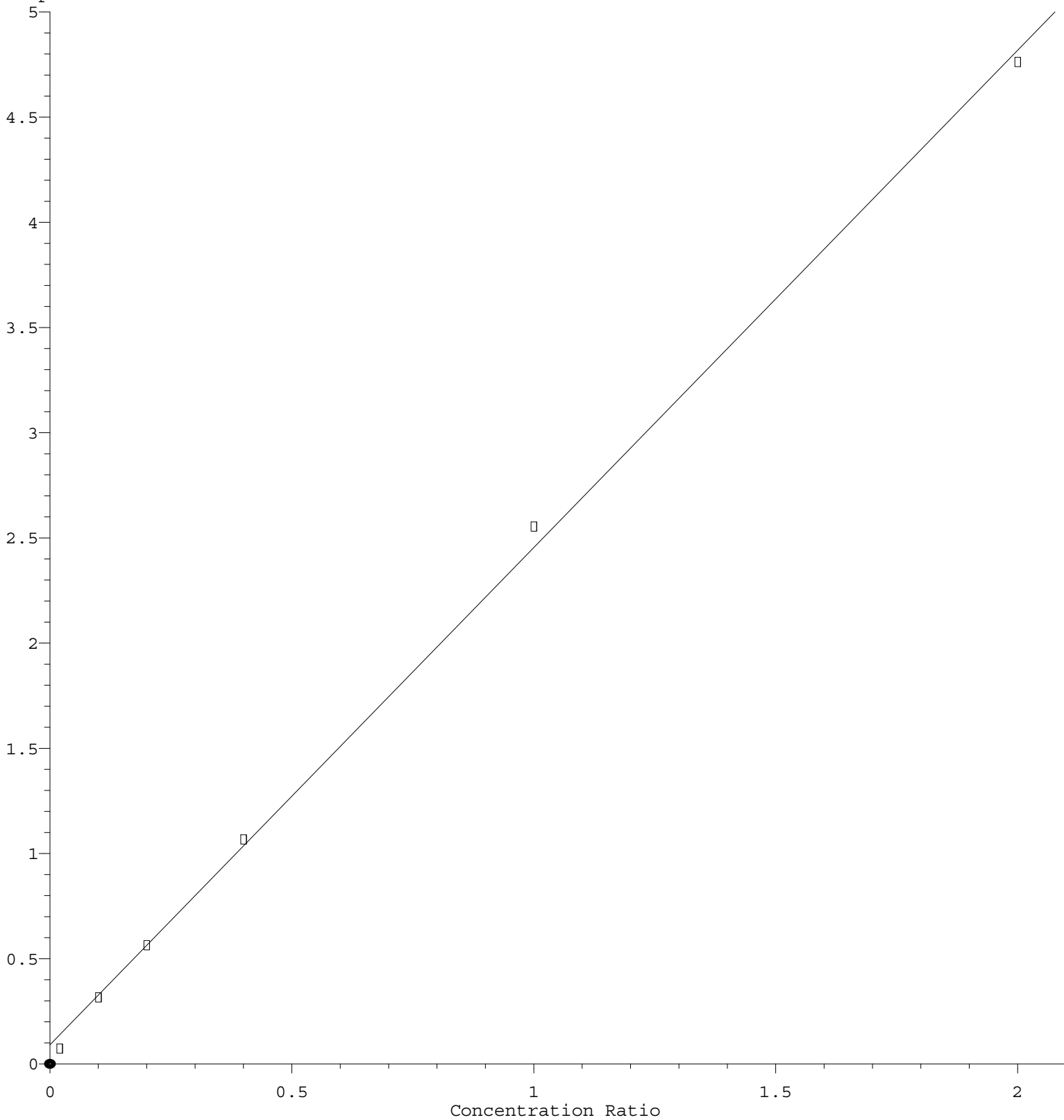
Coef of Det (r^2) = 0.998602 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N092922W.M

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N-amyl acetate

Response Ratio



$$\text{Response} = 2.363\text{e}+000 * \text{Amt} + 9.071\text{e}-002$$

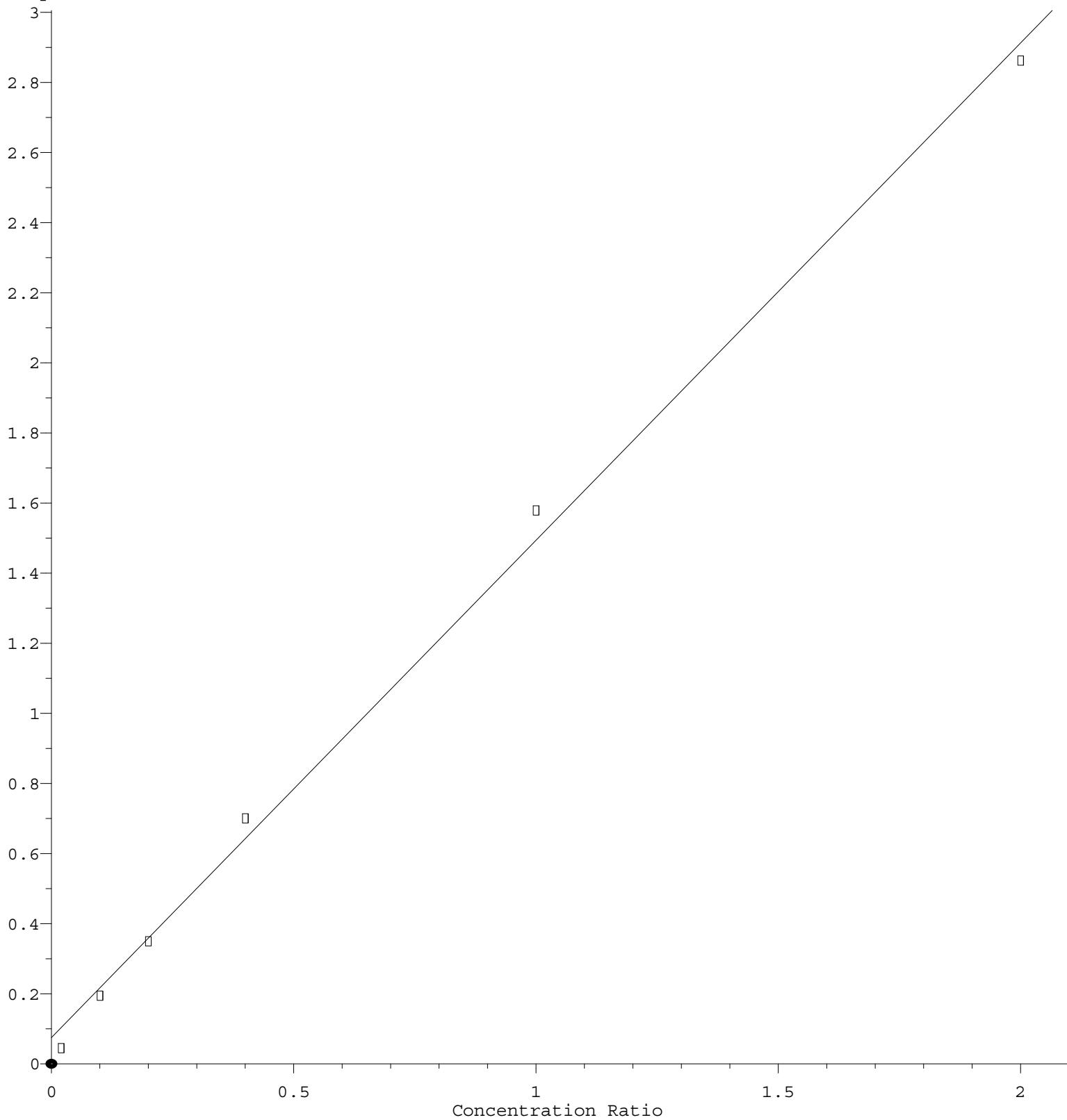
Coef of Det (r^2) = 0.998869 Curve Fit: Linear

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1,1,2,2-Tetrachloroethane

Response Ratio



$$\text{Response} = 1.419\text{e}+000 * \text{Amt} + 7.516\text{e}-002$$

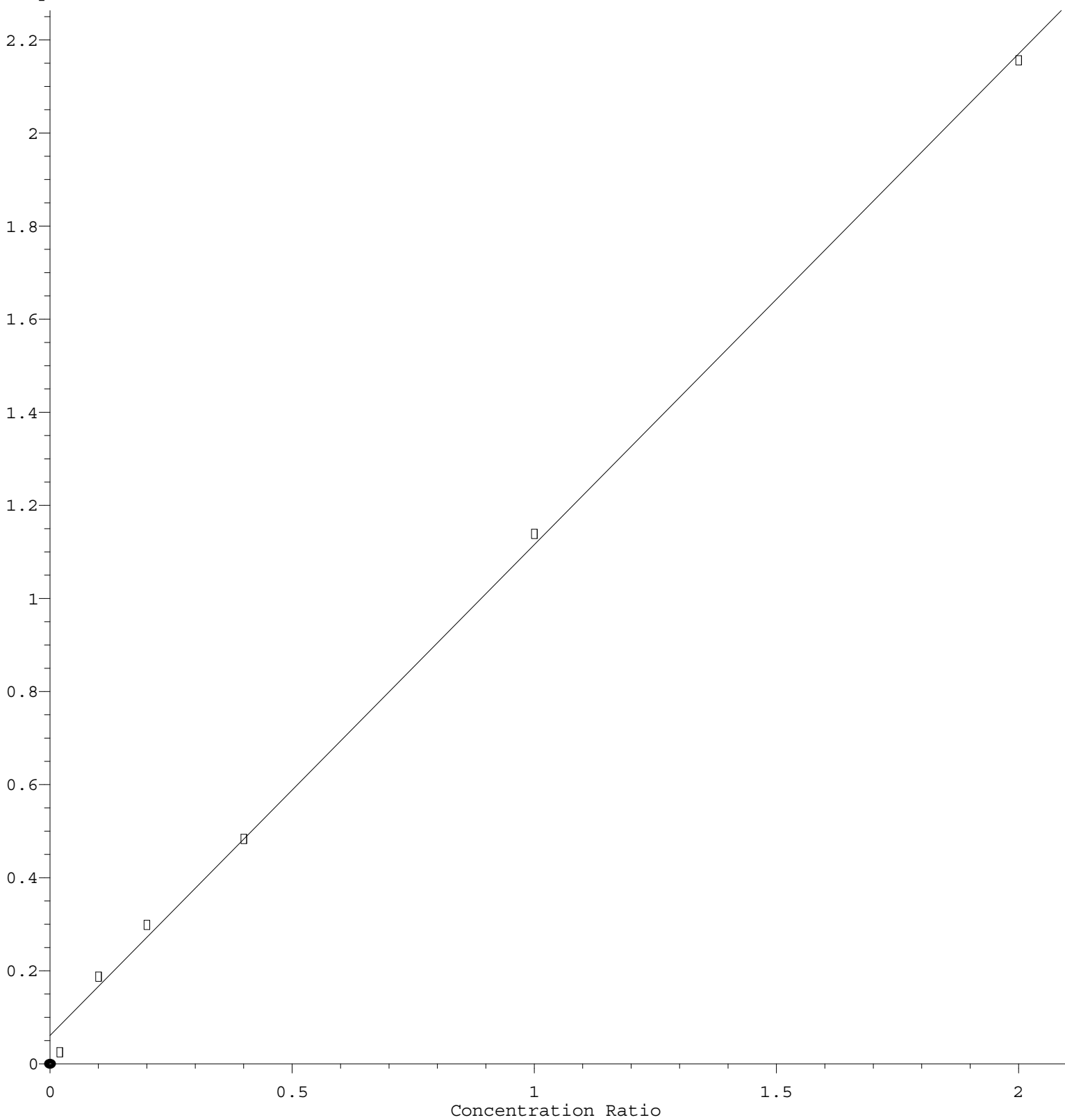
Coef of Det (r^2) = 0.997087 Curve Fit: Linear

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1,2,3-Trichloropropane

Response Ratio



$$\text{Response} = 1.055\text{e}+000 * \text{Amt} + 6.059\text{e}-002$$

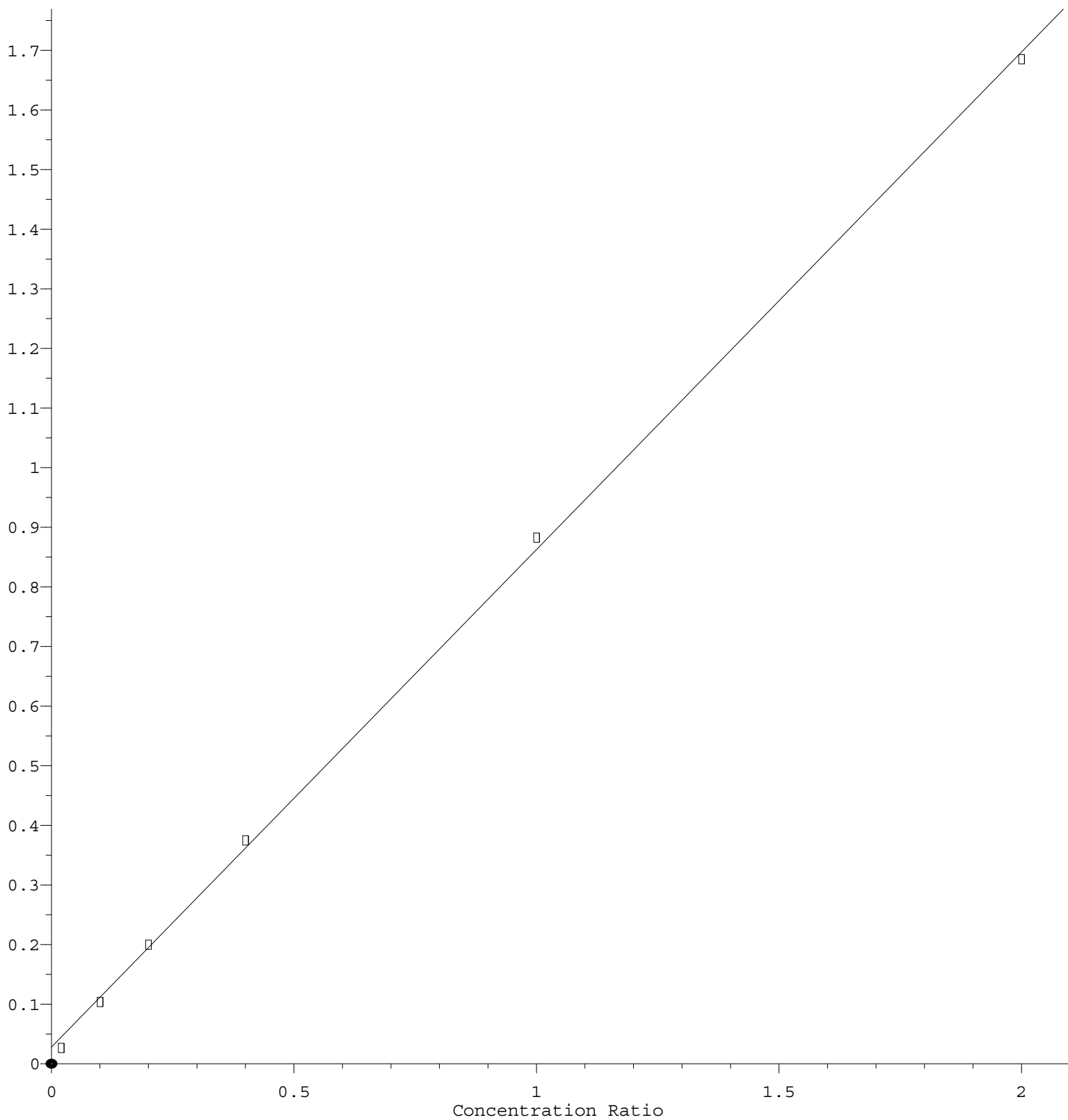
Coef of Det (r^2) = 0.998409 Curve Fit: Linear

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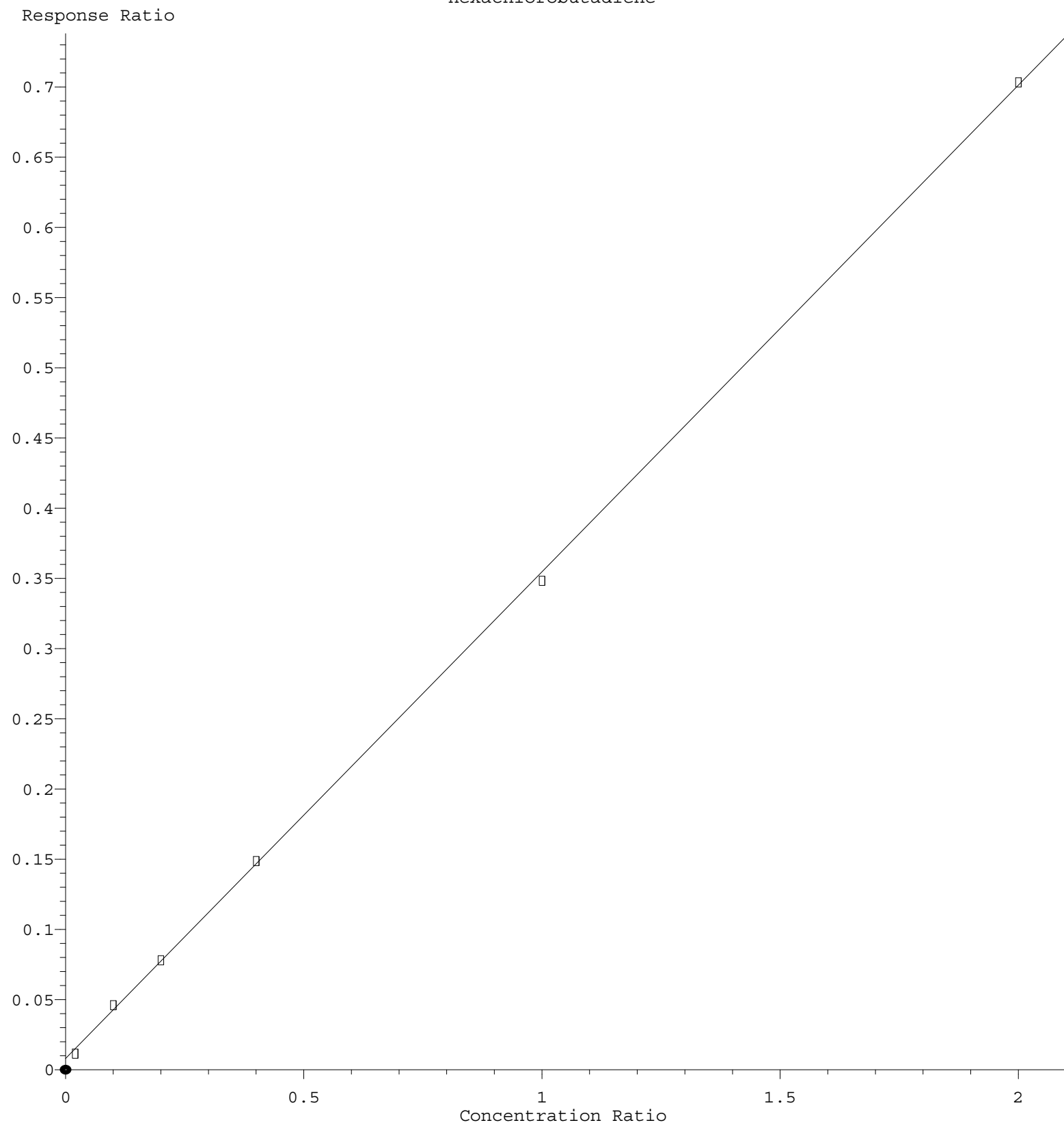
Bromobenzene

Response Ratio



$\text{Response} = 8.349\text{e-}001 * \text{Amt} + 2.771\text{e-}002$
 Coef of Det (r^2) = 0.999444 Curve Fit: Linear
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Hexachlorobutadiene



Response = $3.466 \times 10^{-1} \times \text{Amt} + 7.678 \times 10^{-3}$
Coef of Det (r^2) = 0.999795 Curve Fit: Linear
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