

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X100523W.M
 Title : SW846 8260
 Last Update : Thu Oct 05 15:27:13 2023
 Response Via : Initial Calibration

Calibration Files

1 =VX038090.D 5 =VX038091.D 20 =VX038092.D 50 =VX038093.D 100 =VX038094.D 150 =VX038095.D

Compound		1	5	20	50	100	150	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.425	0.466	0.510	0.495	0.475	0.524	0.483	7.34
3) P	Chloromethane	0.584	0.513	0.489	0.454	0.454	0.457	0.492	10.34
4) C	Vinyl Chloride	0.539	0.554	0.580	0.544	0.522	0.534	0.545	3.66#
5) T	Bromomethane		0.966	0.563	0.768	0.727	0.698	0.744	19.62
6) T	Chloroethane	0.657	0.458	0.426	0.436	0.423	0.501	0.484	18.55
7) T	Trichlorofluor...	1.014	1.085	1.083	1.076	1.051	1.155	1.077	4.30
8) T	Diethyl Ether	0.377	0.399	0.420	0.399	0.390	0.425	0.402	4.48
9) T	1,1,2-Trichlor...	0.472	0.478	0.458	0.467	0.451	0.496	0.470	3.41
10) T	Methyl Iodide		0.648	0.669	0.672	0.676	0.719	0.677	3.85
11) T	Tert butyl alc...		0.273	0.184	0.175	0.175	0.172	0.196	22.08
12) CM	1,1-Dichloroet...	0.437	0.454	0.453	0.458	0.450	0.493	0.457	4.11#
13) T	Acrolein		0.116	0.113	0.103	0.116	0.124	0.114	6.63
14) T	Allyl chloride	0.815	0.796	0.810	0.814	0.820	0.855	0.818	2.42
15) T	Acrylonitrile	0.372	0.367	0.376	0.364	0.360	0.356	0.366	2.06
16) T	Acetone	0.379	0.339	0.338	0.320	0.318	0.319	0.336	6.95
17) T	Carbon Disulfide	1.519	1.213	1.230	1.249	1.286	1.413	1.318	9.21
18) T	Methyl Acetate	1.388	1.487	1.486	1.420	1.415	1.440	1.439	2.80
19) T	Methyl tert-bu...	1.716	1.826	1.835	1.820	1.829	1.905	1.822	3.32
20) T	Methylene Chlo...	0.796	0.654	0.586	0.571	0.578	0.602	0.631	13.64
21) T	trans-1,2-Dich...	0.555	0.559	0.567	0.574	0.556	0.588	0.566	2.29
22) T	Diisopropyl ether	1.650	1.703	1.738	1.754	1.690	1.753	1.715	2.41
23) T	Vinyl Acetate	1.194	1.187	1.307	1.301	1.264	1.293	1.258	4.31
24) P	1,1-Dichloroet...	1.068	1.028	1.062	1.026	1.015	1.045	1.041	2.05
25) T	2-Butanone	0.567	0.550	0.563	0.535	0.521	0.512	0.542	4.12
26) T	2,2-Dichloropr...	0.766	0.763	0.808	0.833	0.834	0.872	0.813	5.22
27) T	cis-1,2-Dichlo...	0.686	0.678	0.675	0.664	0.660	0.684	0.675	1.54
28) T	Bromochloromet...	0.417	0.490	0.478	0.494	0.472	0.467	0.470	5.92
29) T	Tetrahydrofuran	0.368	0.357	0.366	0.347	0.338	0.339	0.353	3.79
30) C	Chloroform	1.050	1.138	1.164	1.168	1.136	1.172	1.138	4.02#
31) T	Cyclohexane		0.847	0.893	0.895	0.834	0.887	0.871	3.28
32) T	1,1,1-Trichlor...	0.926	0.893	0.965	1.013	0.999	1.052	0.975	5.99
33) S	1,2-Dichloroet...		0.826	0.833	0.810	0.769	0.783	0.804	3.41
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.352	0.367	0.360	0.357	0.366	0.360	1.71
36) T	1,1-Dichloropr...	0.574	0.488	0.472	0.481	0.477	0.489	0.497	7.68
37) T	Ethyl Acetate	0.616	0.583	0.587	0.581	0.589	0.584	0.590	2.19
38) T	Carbon Tetrach...	0.499	0.451	0.467	0.497	0.497	0.523	0.489	5.24
39) T	Methylcyclohexane	0.595	0.572	0.571	0.591	0.566	0.597	0.582	2.35
40) TM	Benzene	1.325	1.400	1.404	1.402	1.390	1.416	1.390	2.37
41) T	Methacrylonitrile	0.297	0.275	0.302	0.294	0.292	0.301	0.294	3.33
42) TM	1,2-Dichloroet...	0.561	0.561	0.561	0.557	0.544	0.548	0.555	1.39
43) T	Isopropyl Acetate	0.807	0.837	0.899	0.905	0.917	0.919	0.881	5.32
44) TM	Trichloroethene	0.331	0.368	0.368	0.367	0.368	0.380	0.363	4.61
45) C	1,2-Dichloropr...	0.358	0.365	0.361	0.361	0.352	0.360	0.360	1.18#
46) T	Dibromomethane	0.286	0.276	0.271	0.276	0.280	0.284	0.279	2.04
47) T	Bromodichlorom...	0.439	0.460	0.495	0.524	0.521	0.539	0.496	8.01
48) T	Methyl methacr...	0.393	0.411	0.419	0.432	0.433	0.435	0.420	3.83
49) T	1,4-Dioxane	0.010	0.010	0.011	0.011	0.011	0.010	0.010	4.45
50) S	Toluene-d8		1.337	1.397	1.379	1.372	1.399	1.377	1.84
51) T	4-Methyl-2-Pen...	0.573	0.609	0.640	0.610	0.615	0.597	0.608	3.60
52) CM	Toluene	0.830	0.874	0.916	0.920	0.929	0.962	0.905	5.10#
53) T	t-1,3-Dichloro...	0.453	0.435	0.512	0.573	0.602	0.620	0.533	14.62
54) T	cis-1,3-Dichlo...	0.477	0.506	0.559	0.588	0.602	0.626	0.560	10.28
55) T	1,1,2-Trichlor...	0.374	0.383	0.384	0.390	0.394	0.399	0.387	2.33
56) T	Ethyl methacry...	0.527	0.545	0.589	0.617	0.638	0.645	0.594	8.24

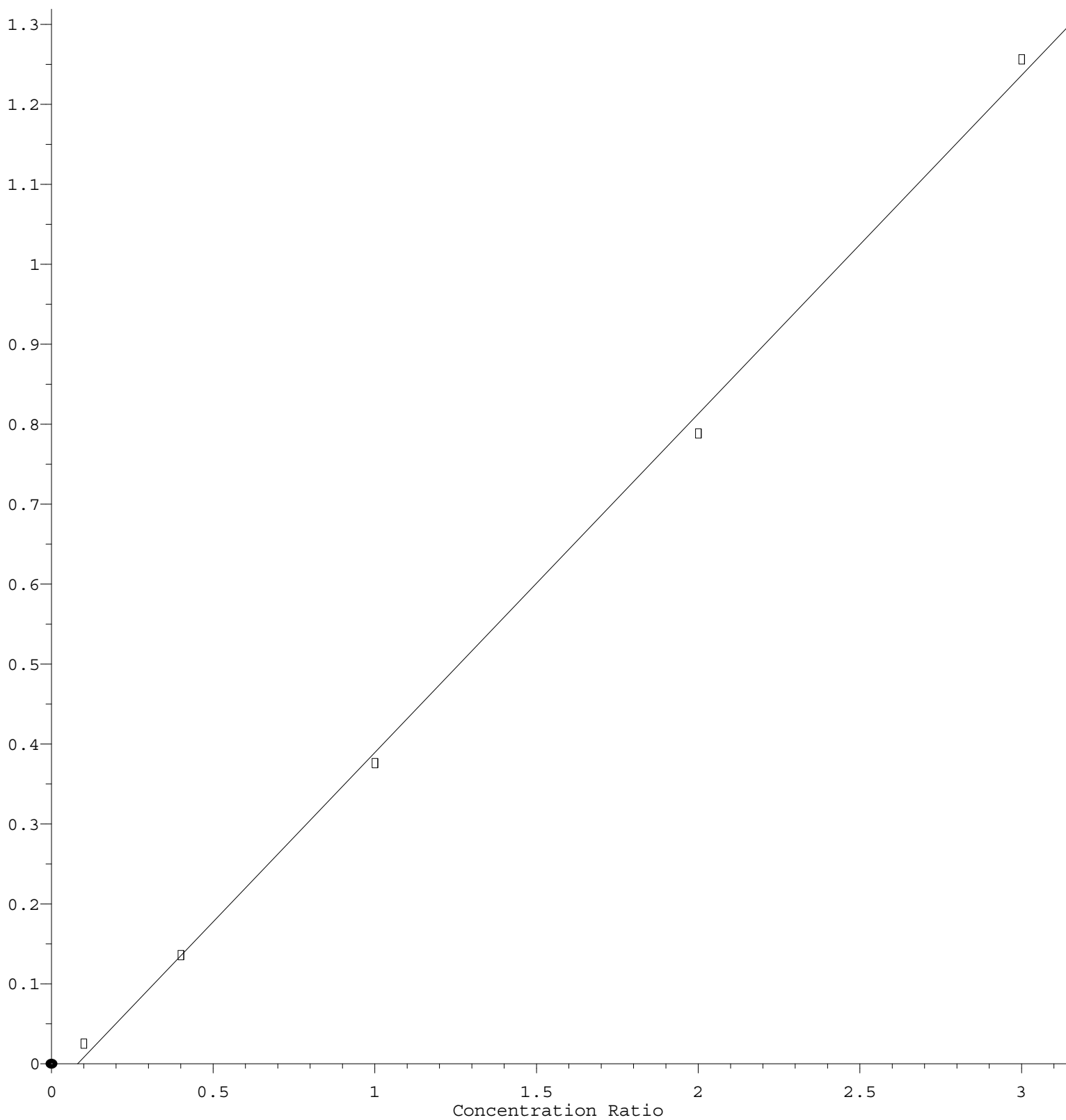
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57)	T	1,3-Dichloropr...	0.606	0.603	0.634	0.639	0.636	0.639	0.626	2.68
58)	T	2-Chloroethyl ...	0.275	0.285	0.291	0.295	0.300	0.302	0.291	3.39
59)	T	2-Hexanone	0.451	0.493	0.518	0.491	0.498	0.479	0.488	4.57
60)	T	Dibromochlorom...	0.303	0.331	0.368	0.401	0.428	0.443	0.379	14.58
61)	T	1,2-Dibromoethane	0.376	0.398	0.420	0.429	0.446	0.443	0.419	6.48
62)	S	4-Bromofluorob...		0.506	0.507	0.520	0.538	0.539	0.522	3.02
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.316	0.326	0.325	0.329	0.316	0.331	0.324	1.99
65)	PM	Chlorobenzene	1.111	1.038	1.034	1.033	1.020	1.041	1.046	3.12
66)	T	1,1,1,2-Tetrac...	0.292	0.323	0.364	0.376	0.378	0.389	0.354	10.70
67)	C	Ethyl Benzene	1.831	1.818	1.891	1.899	1.865	1.902	1.868	1.93#
68)	T	m/p-Xylenes	0.686	0.708	0.716	0.730	0.734	0.758	0.722	3.41
69)	T	o-Xylene	0.713	0.672	0.692	0.703	0.717	0.733	0.705	2.98
70)	T	Styrene	1.003	1.079	1.153	1.184	1.225	1.243	1.148	8.00
71)	P	Bromoform	0.248	0.239	0.276	0.309	0.329	0.348	0.292	15.18
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.167	3.309	3.448	3.393	3.349	3.453	3.353	3.19
74)	T	N-amyl acetate	1.149	1.337	1.555	1.530	1.490	1.530	1.432	11.11
75)	P	1,1,2,2-Tetrac...	1.191	1.217	1.308	1.242	1.197	1.228	1.230	3.44
76)	T	1,2,3-Trichlor...	1.086	1.130	1.184	1.149	1.138	1.134	1.137	2.78
77)	T	Bromobenzene	0.833	0.803	0.827	0.816	0.801	0.832	0.819	1.75
78)	T	n-propylbenzene	4.052	4.052	4.237	4.144	4.010	4.105	4.100	2.00
79)	T	2-Chlorotoluene	2.607	2.406	2.441	2.387	2.359	2.388	2.432	3.70
80)	T	1,3,5-Trimethy...	2.641	2.752	3.006	2.961	2.939	3.057	2.893	5.57
81)	T	trans-1,4-Dich...		0.252	0.340	0.376	0.394	0.419	0.356	18.29
82)	T	4-Chlorotoluene	2.939	2.737	2.937	2.886	2.838	2.927	2.877	2.74
83)	T	tert-Butylbenzene	2.663	2.708	2.826	2.864	2.915	2.985	2.827	4.33
84)	T	1,2,4-Trimethy...	2.601	2.851	2.972	2.975	2.921	2.986	2.884	5.12
85)	T	sec-Butylbenzene	3.499	3.575	3.735	3.765	3.658	3.738	3.662	2.89
86)	T	p-Isopropyltol...	2.804	2.899	3.069	3.103	3.068	3.185	3.021	4.68
87)	T	1,3-Dichlorobe...	1.819	1.595	1.632	1.624	1.573	1.623	1.644	5.38
88)	T	1,4-Dichlorobe...	1.819	1.682	1.697	1.619	1.610	1.645	1.679	4.58
89)	T	n-Butylbenzene	2.891	2.881	3.012	3.075	3.042	3.150	3.009	3.51
90)	T	Hexachloroethane	0.423	0.425	0.493	0.534	0.549	0.583	0.501	13.28
91)	T	1,2-Dichlorobe...	1.623	1.568	1.601	1.555	1.522	1.614	1.581	2.47
92)	T	1,2-Dibromo-3-...	0.258	0.270	0.319	0.314	0.307	0.317	0.297	8.95
93)	T	1,2,4-Trichlor...	1.073	1.061	1.066	1.042	1.022	1.097	1.060	2.43
94)	T	Hexachlorobuta...	0.480	0.406	0.418	0.419	0.403	0.435	0.427	6.68
95)	T	Naphthalene	3.775	3.465	3.828	3.664	3.609	3.809	3.692	3.79
96)	T	1,2,3-Trichlor...	1.030	0.962	1.058	1.018	1.014	1.075	1.026	3.82

(#) = Out of Range

trans-1,4-Dichloro-2-butene

Response Ratio



$$\text{Response} = 4.234\text{e-}001 * \text{Amt} - 3.417\text{e-}002$$

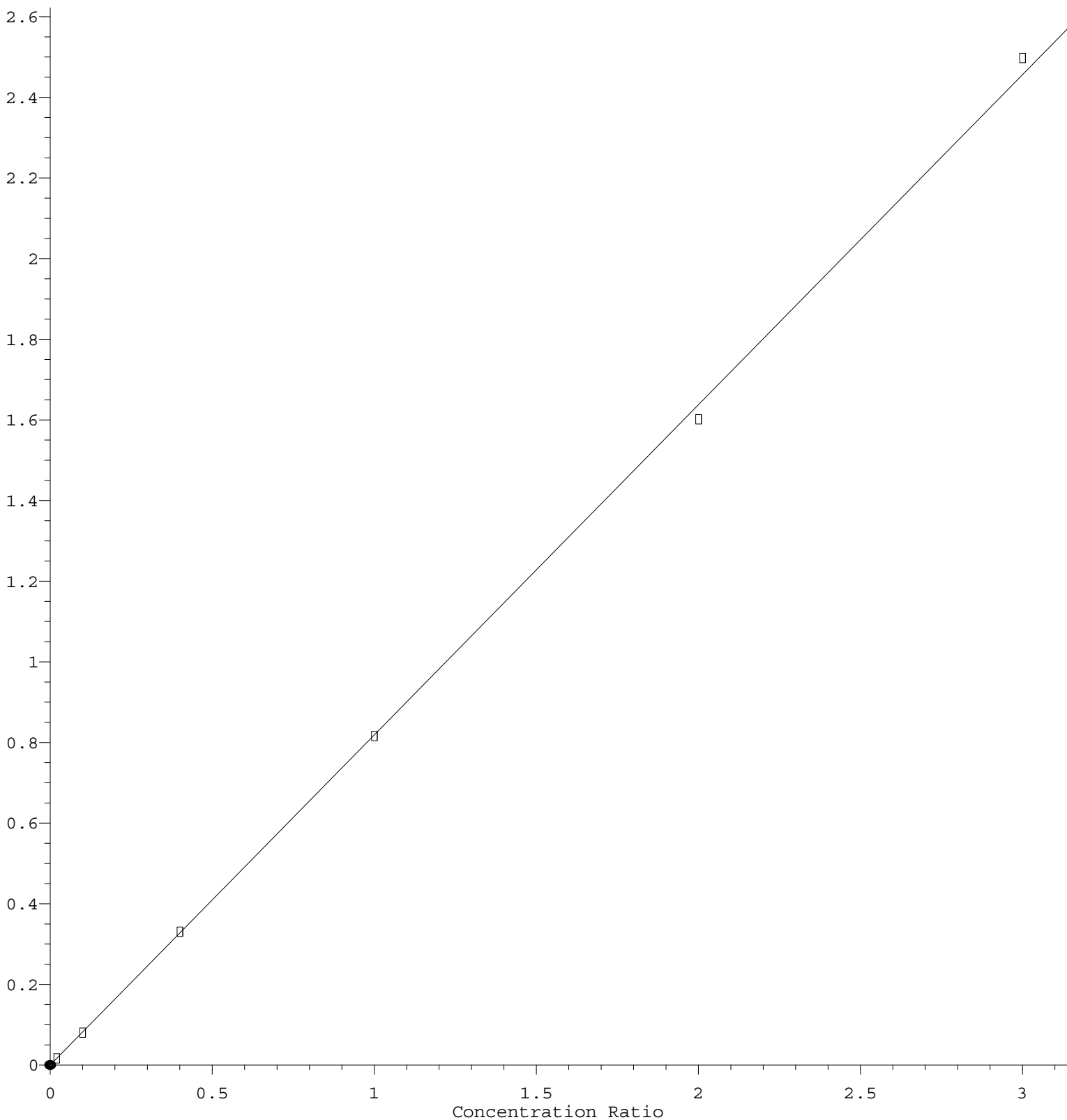
Coef of Det (r^2) = 0.998578 Curve Fit: Linear

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Bromobenzene

Response Ratio



$$\text{Response} = 8.186\text{e-}001 * \text{Amt}$$

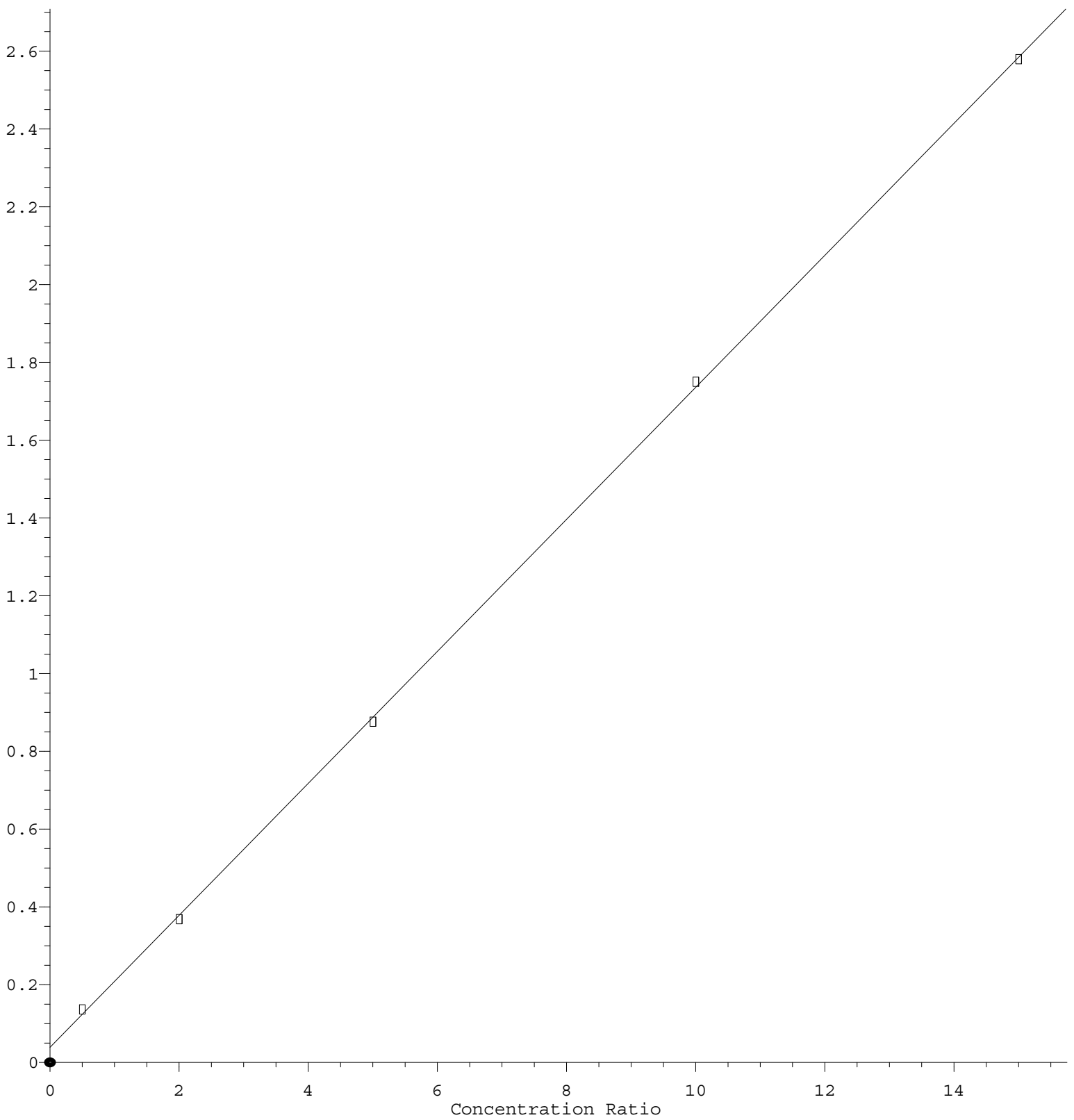
RF Rel Std Dev = 1.754% Curve Fit: Avg RF

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Tert butyl alcohol

Response Ratio



$$\text{Response} = 1.697\text{e-}001 * \text{Amt} + 3.938\text{e-}002$$

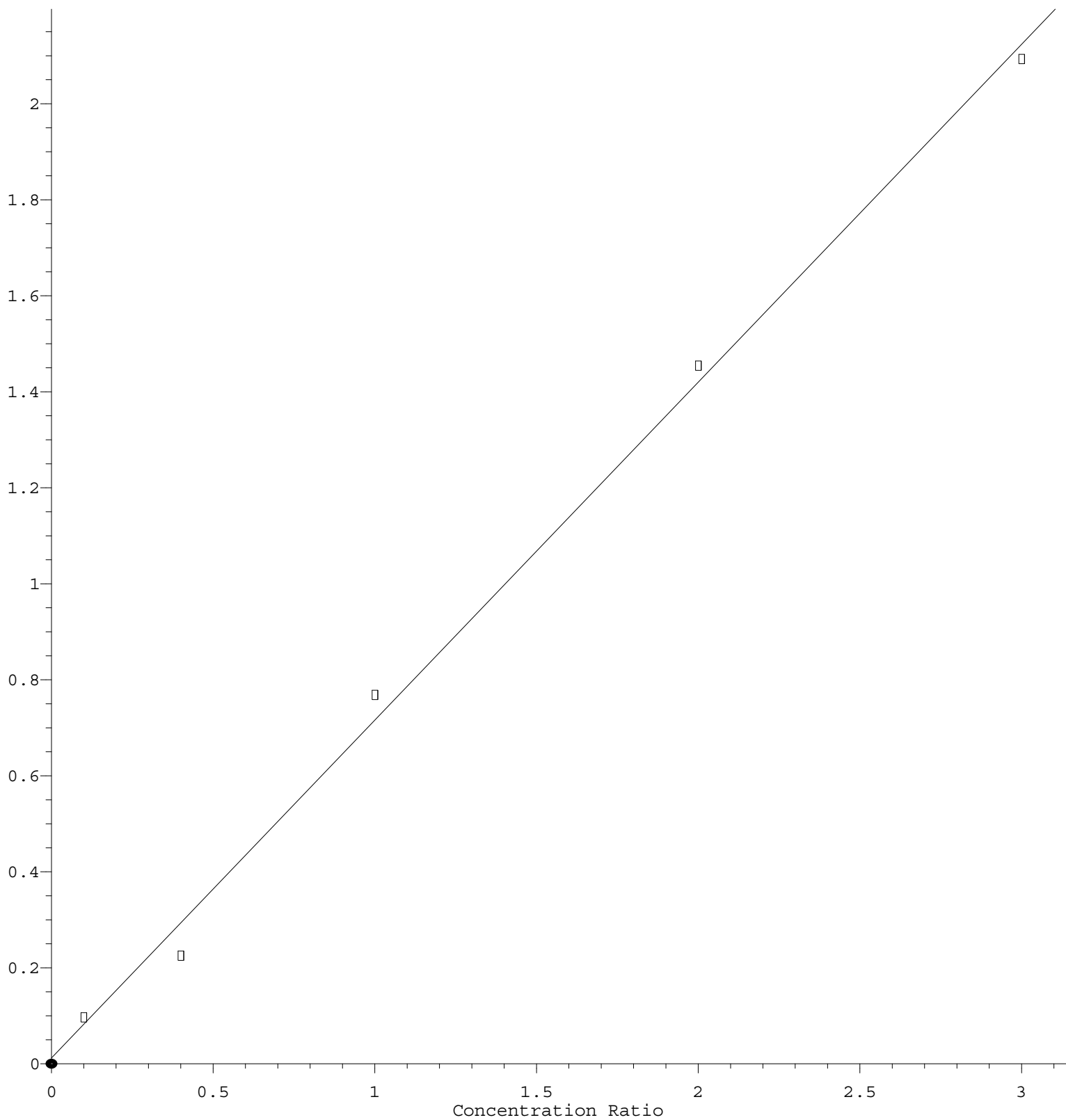
Coef of Det (r^2) = 0.999852 Curve Fit: Linear

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Bromomethane

Response Ratio



$$\text{Response} = 7.041\text{e-}001 * \text{Amt} + 1.221\text{e-}002$$

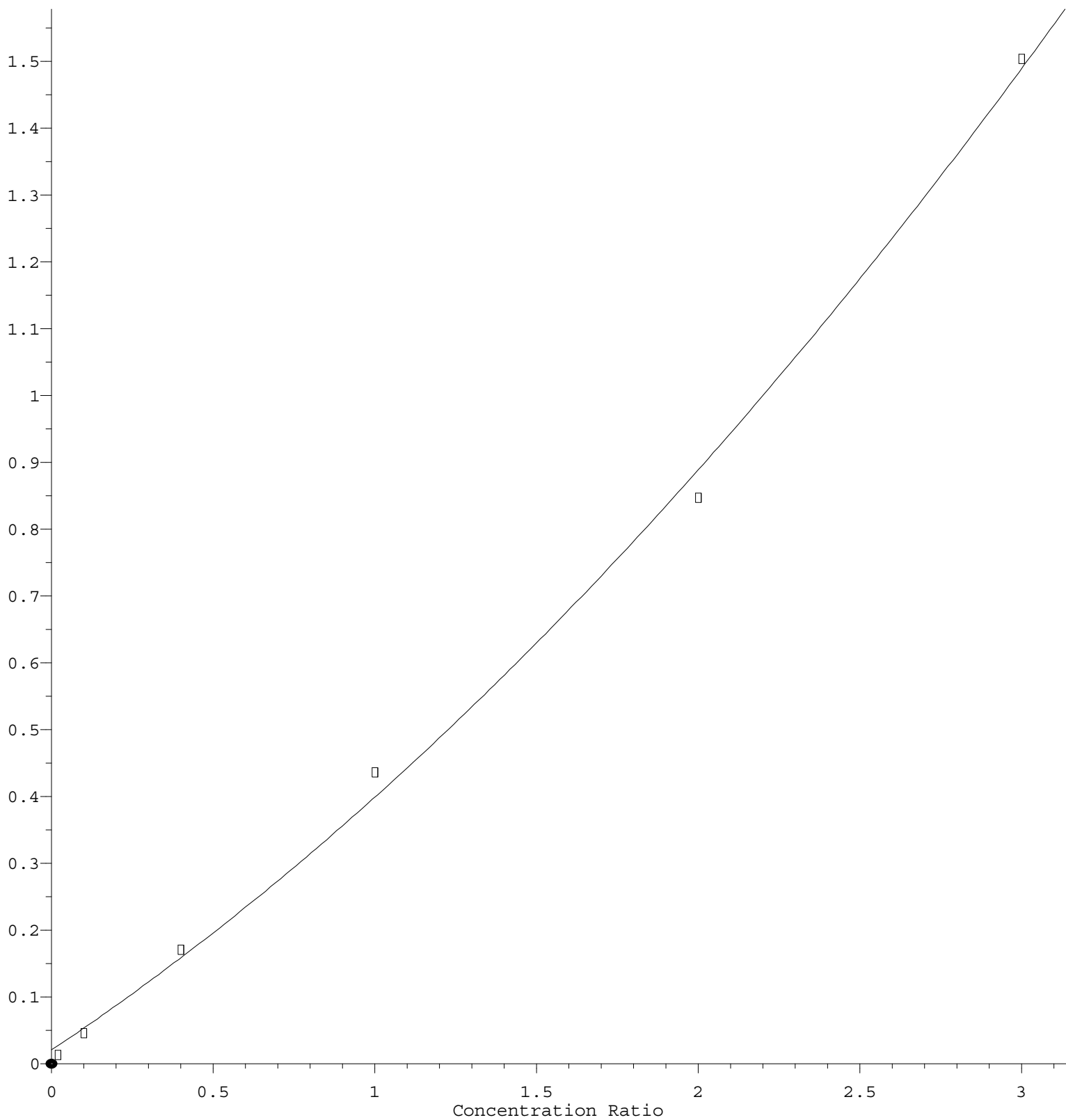
Coef of Det (r^2) = 0.996567 Curve Fit: Linear

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Chloroethane

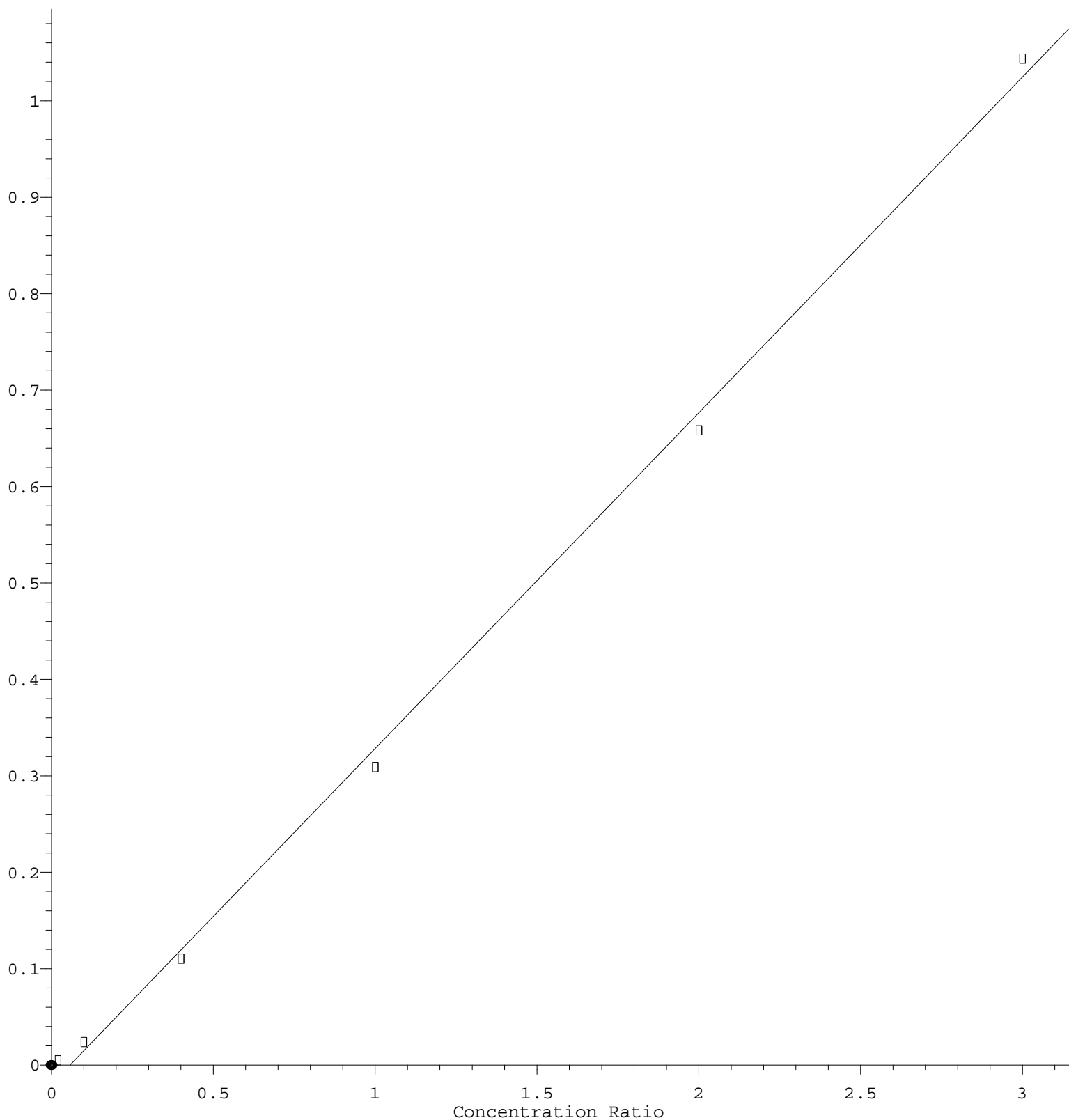
Response Ratio



$R = 5.559e-002 A^2 + 3.228e-001 A + 2.055e-002$
Coef of Det (r^2) = 0.997803 Curve Fit: Quadratic
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Bromoform

Response Ratio



Response = 3.481e-001 * Amt - 1.994e-002
 Coef of Det (r^2) = 0.998206 Curve Fit: Linear
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