

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM012624.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Sat Jan 27 04:28:10 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BM043908.D 5 =BM043909.D 10 =BM043910.D 20 =BM043911.D 40 =BM043912.D 50 =BM043913.D 60 =BM043914.D 80 =BM043915.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.596	0.576	0.566	0.531	0.543	0.564	0.546	0.560		3.93
3)	Pyridine	1.509	1.541	1.534	1.479	1.508	1.579	1.555	1.529		2.18
4)	n-Nitrosodimet...	0.683	0.697	0.723	0.724	0.719	0.744	0.721	0.716		2.81
5) S	2-Fluorophenol	1.213	1.272	1.335	1.308	1.342	1.392	1.370	1.319		4.61
6)	Aniline	1.605	1.655	1.738	1.724	1.742	1.804	1.778	1.721		4.02
7) S	Phenol-d6	1.606	1.663	1.770	1.787	1.807	1.878	1.861	1.767		5.65
8)	2-Chlorophenol	1.246	1.299	1.374	1.385	1.404	1.458	1.439	1.372		5.51
9)	Benzaldehyde	1.257	1.150	1.082	0.935	0.850	0.819	0.737	0.976		19.60
10) C	Phenol	1.629	1.669	1.753	1.746	1.751	1.827	1.799	1.739		3.98
11)	bis(2-Chloroet...	1.483	1.421	1.470	1.474	1.470	1.520	1.484	1.475		1.99
12)	1,3-Dichlorobe...	1.630	1.624	1.632	1.593	1.605	1.652	1.629	1.624		1.20
13) C	1,4-Dichlorobe...	1.671	1.618	1.656	1.607	1.616	1.675	1.659	1.643		1.73
14)	1,2-Dichlorobe...	1.605	1.566	1.592	1.549	1.558	1.602	1.577	1.578		1.39
15)	Benzyl Alcohol	0.974	1.054	1.173	1.207	1.211	1.258	1.240	1.160		9.12
16)	2,2'-oxybis(1-...	2.196	2.172	2.266	2.205	2.183	2.216	2.158	2.199		1.61
17)	2-Methylphenol	0.992	1.032	1.126	1.140	1.136	1.183	1.170	1.111		6.42
18)	Hexachloroethane	0.596	0.598	0.616	0.616	0.623	0.643	0.633	0.618		2.75
19) P	n-Nitroso-di-n...	1.099	1.099	1.111	1.274	1.245	1.227	1.242	1.204	1.187	6.13
20)	3+4-Methylphenols	1.280	1.336	1.542	1.548	1.560	1.621	1.605	1.499		8.98
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.529	0.529	0.539	0.527	0.535	0.550	0.543	0.536		1.62
23) S	Nitrobenzene-d5	0.375	0.393	0.410	0.415	0.421	0.432	0.432	0.411		5.03
24)	Nitrobenzene	0.406	0.405	0.416	0.411	0.416	0.424	0.426	0.415		1.95
25)	Isophorone	0.682	0.706	0.783	0.786	0.791	0.805	0.802	0.765		6.49
26) C	2-Nitrophenol	0.063	0.076	0.104	0.129	0.144	0.157	0.167	0.120		33.19#
27)	2,4-Dimethylph...	0.177	0.196	0.216	0.224	0.230	0.236	0.239	0.217		10.52
28)	bis(2-Chloroet...	0.436	0.444	0.478	0.475	0.481	0.488	0.490	0.470		4.58
29) C	2,4-Dichloroph...	0.205	0.236	0.275	0.291	0.299	0.310	0.317	0.276		14.94
30)	1,2,4-Trichlor...	0.343	0.341	0.341	0.345	0.350	0.359	0.366	0.349		2.77
31)	Naphthalene	1.091	1.095	1.109	1.103	1.122	1.149	1.147	1.117		2.10
32)	Benzoic acid		0.072	0.102	0.133	0.160	0.172	0.194	0.139		32.91
33)	4-Chloroaniline	0.384	0.394	0.424	0.422	0.428	0.437	0.440	0.418		5.10
34) C	Hexachlorobuta...	0.198	0.200	0.200	0.202	0.204	0.212	0.214	0.204		3.00
35)	Caprolactam		0.066	0.091	0.096	0.098	0.101	0.102	0.092		14.40
36) C	4-Chloro-3-met...	0.233	0.259	0.311	0.323	0.328	0.337	0.342	0.305		13.82
37)	2-Methylnaphth...	0.712	0.723	0.767	0.762	0.768	0.788	0.794	0.759		4.08
38)	1-Methylnaphth...	0.712	0.707	0.756	0.749	0.756	0.771	0.774	0.746		3.58

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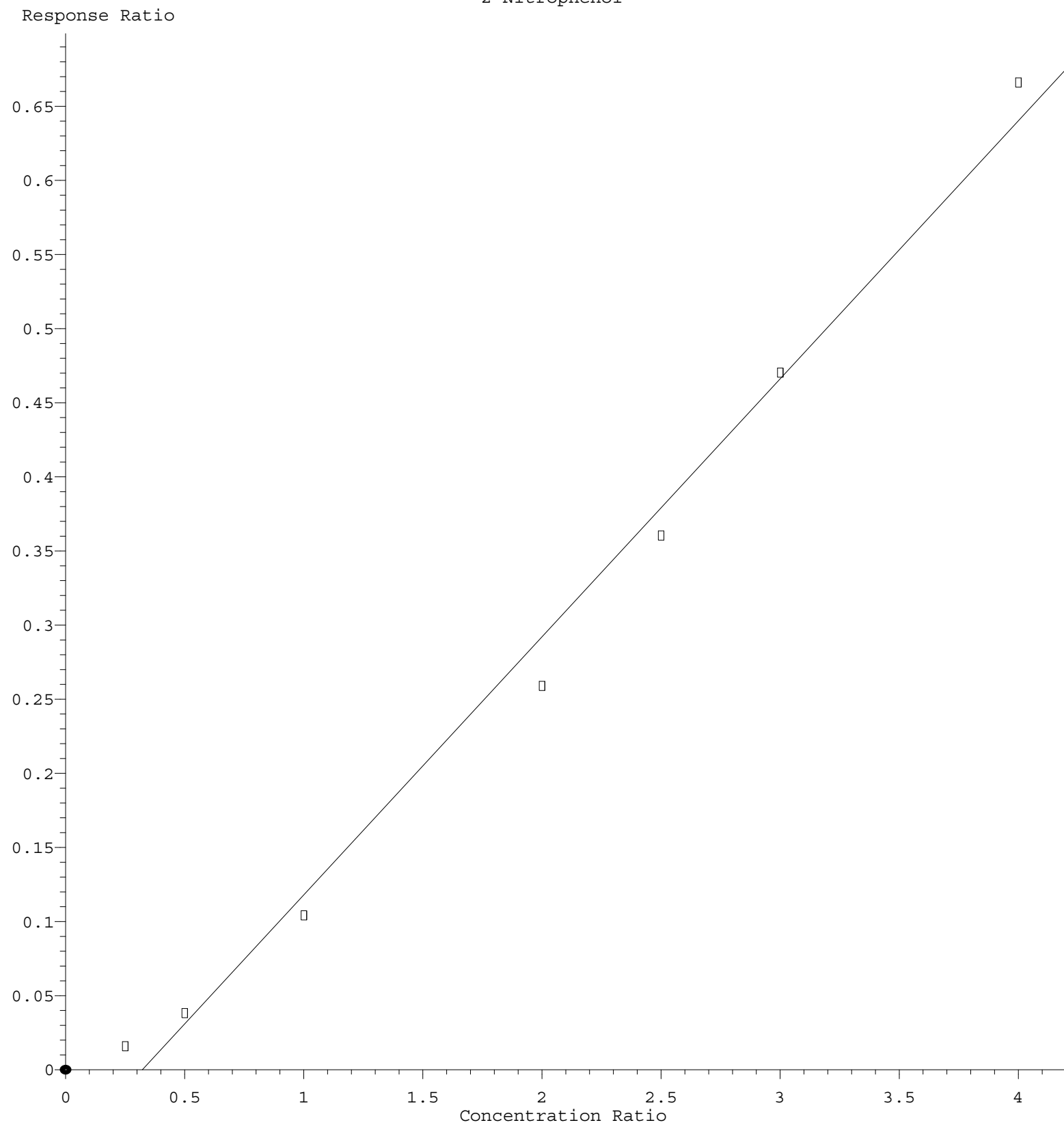
39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.601	0.611	0.596	0.617	0.632	0.663	0.667	0.627	4.57
41) P	Hexachlorocycl...		0.152	0.170	0.196	0.212	0.227	0.234	0.198	16.40
42) S	2,4,6-Tribromo...		0.173	0.223	0.241	0.252	0.264	0.269	0.237	15.02
43) C	2,4,6-Trichlor...	0.225	0.280	0.337	0.377	0.399	0.420	0.428	0.352	21.58
44)	2,4,5-Trichlor...	0.267	0.336	0.395	0.423	0.442	0.466	0.471	0.400	18.69
45) S	2-Fluorobiphenyl	1.500	1.534	1.531	1.566	1.607	1.652	1.648	1.577	3.78
46)	1,1'-Biphenyl	1.589	1.628	1.612	1.632	1.666	1.727	1.725	1.654	3.29
47)	2-Chloronaphth...	1.275	1.295	1.267	1.283	1.313	1.356	1.344	1.305	2.64
48)	2-Nitroaniline	0.197	0.241	0.314	0.353	0.373	0.393	0.396	0.324	23.99
49)	Acenaphthylene	1.805	1.853	1.891	1.902	1.945	2.019	1.996	1.916	3.99
50)	Dimethylphthalate	1.317	1.387	1.490	1.482	1.520	1.564	1.544	1.472	6.07
51)	2,6-Dinitrotol...	0.200	0.246	0.296	0.313	0.325	0.336	0.339	0.294	17.81
52) C	Acenaphthene	1.173	1.175	1.195	1.207	1.235	1.275	1.267	1.218	3.42
53)	3-Nitroaniline	0.216	0.262	0.319	0.334	0.346	0.359	0.363	0.314	17.54
54) P	2,4-Dinitrophenol		0.045	0.061	0.080	0.096	0.111	0.125	0.086	34.94
55)	Dibenzofuran	1.832	1.824	1.838	1.826	1.857	1.903	1.899	1.854	1.82
56) P	4-Nitrophenol		0.171	0.235	0.255	0.273	0.288	0.289	0.252	17.65
57)	2,4-Dinitrotol...	0.214	0.274	0.373	0.405	0.426	0.450	0.452	0.371	24.94
58)	Fluorene	1.461	1.480	1.563	1.563	1.591	1.631	1.609	1.557	4.11
59)	2,3,4,6-Tetrac...	0.190	0.270	0.322	0.340	0.353	0.370	0.374	0.317	20.86
60)	Diethylphthalate	1.282	1.396	1.575	1.553	1.590	1.626	1.608	1.518	8.51
61)	4-Chlorophenyl...	0.730	0.732	0.766	0.769	0.778	0.799	0.798	0.768	3.64
62)	4-Nitroaniline	0.230	0.279	0.332	0.344	0.358	0.373	0.370	0.327	16.23
63)	Azobenzene	1.625	1.619	1.692	1.656	1.658	1.686	1.648	1.655	1.68
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.033	0.048	0.067	0.077	0.087	0.098	0.068	35.89
66) c	n-Nitrosodiphe...	0.556	0.589	0.638	0.646	0.657	0.678	0.680	0.635	7.29
67)	4-Bromophenyl-...	0.206	0.209	0.224	0.231	0.235	0.243	0.246	0.228	6.88
68)	Hexachlorobenzene	0.251	0.255	0.261	0.264	0.267	0.277	0.280	0.265	4.11
69)	Atrazine	0.137	0.155	0.179	0.178	0.182	0.183	0.179	0.170	10.40
70) C	Pentachlorophenol		0.090	0.125	0.145	0.156	0.166	0.172	0.142	21.50
71)	Phenanthrene	1.068	1.078	1.102	1.108	1.121	1.157	1.159	1.113	3.19
72)	Anthracene	1.005	1.039	1.087	1.102	1.125	1.154	1.162	1.096	5.28
73)	Carbazole	0.958	1.009	1.044	1.044	1.064	1.093	1.106	1.045	4.83
74)	Di-n-butylphth...	0.822	1.009	1.261	1.334	1.361	1.413	1.416	1.231	18.54
75) C	Fluoranthene	1.186	1.204	1.243	1.244	1.276	1.329	1.355	1.262	4.93
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.124	0.101	0.204	0.241	0.336	0.363	0.364	0.247	44.72
78)	Pyrene	1.310	1.361	1.549	1.557	1.567	1.567	1.545	1.494	7.32
79) S	Terphenyl-d14	1.128	1.144	1.339	1.344	1.336	1.300	1.141	1.248	8.32
80)	Butylbenzylpht...	0.192	0.274	0.442	0.534	0.579	0.615	0.638	0.468	37.18
81)	Benzo(a)anthra...	1.314	1.351	1.411	1.409	1.436	1.481	1.462	1.409	4.21
82)	3,3'-Dichlorob...		0.310	0.388	0.428	0.453	0.469	0.474	0.420	14.92
83)	Chrysene	1.297	1.308	1.332	1.341	1.366	1.388	1.377	1.344	2.58
84)	Bis(2-ethylhex...	0.404	0.553	0.805	0.933	0.985	1.027	1.049	0.822	30.60
85) c	Di-n-octyl pht...		0.768	1.122	1.418	1.546	1.657	1.729	1.373	26.61

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.266	1.377	1.473	1.497	1.533	1.595	1.606	1.478	8.22
88)	Benzo(b)fluora...	1.126	1.192	1.258	1.257	1.355	1.401	1.394	1.283	8.15
89)	Benzo(k)fluora...	1.126	1.181	1.252	1.283	1.280	1.353	1.395	1.267	7.32
90) C	Benzo(a)pyrene	0.942	1.008	1.089	1.116	1.157	1.212	1.235	1.108	9.55
91)	Dibenzo(a,h)an...	1.058	1.135	1.216	1.241	1.272	1.326	1.343	1.227	8.32
92)	Benzo(g,h,i)pe...	1.091	1.152	1.213	1.218	1.257	1.298	1.308	1.220	6.39

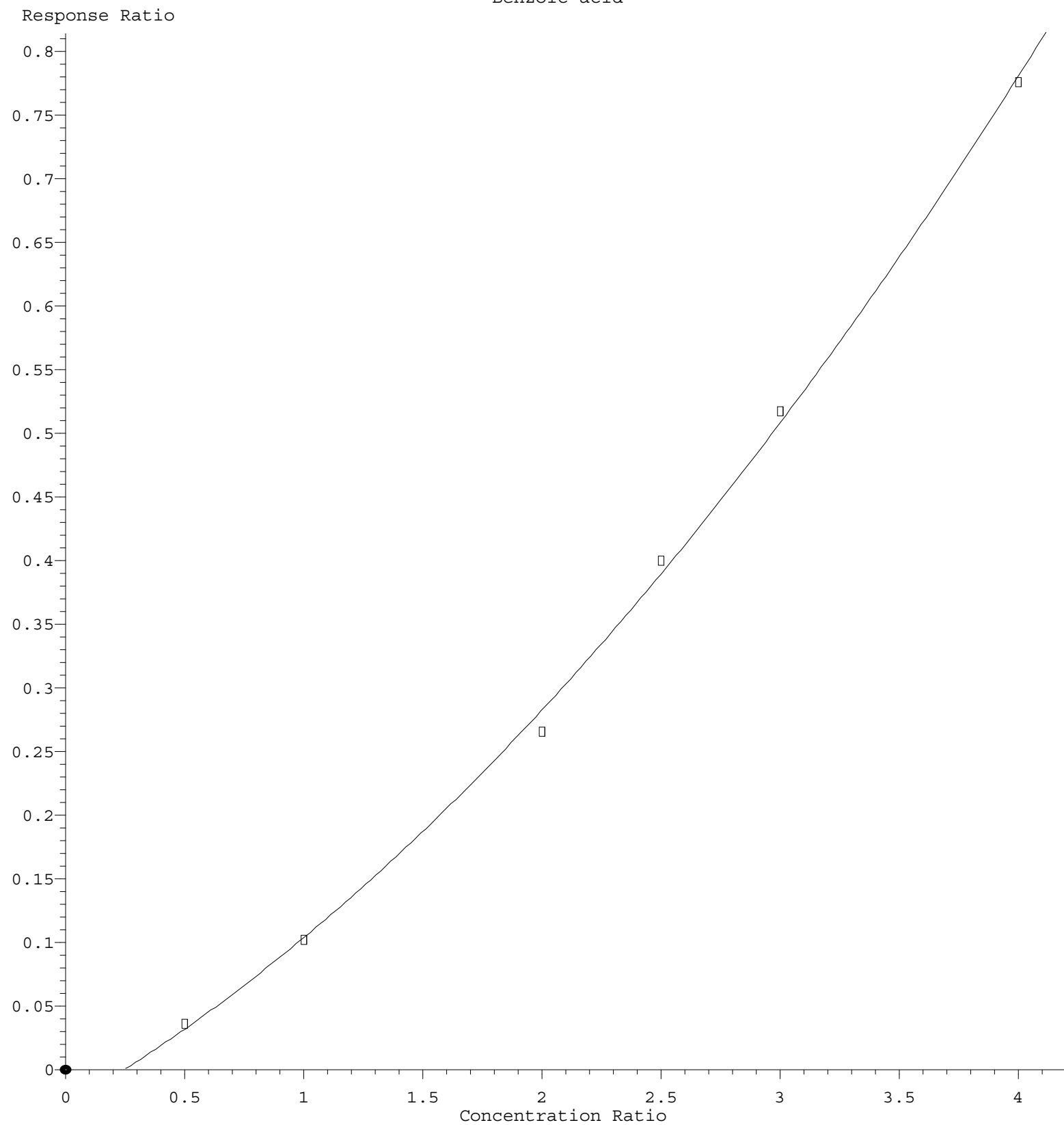
(#) = Out of Range

2-Nitrophenol



Response = $1.740 \times 10^{-1} \times \text{Amt} - 5.602 \times 10^{-2}$
Coef of Det (r^2) = 0.990937 Curve Fit: Linear
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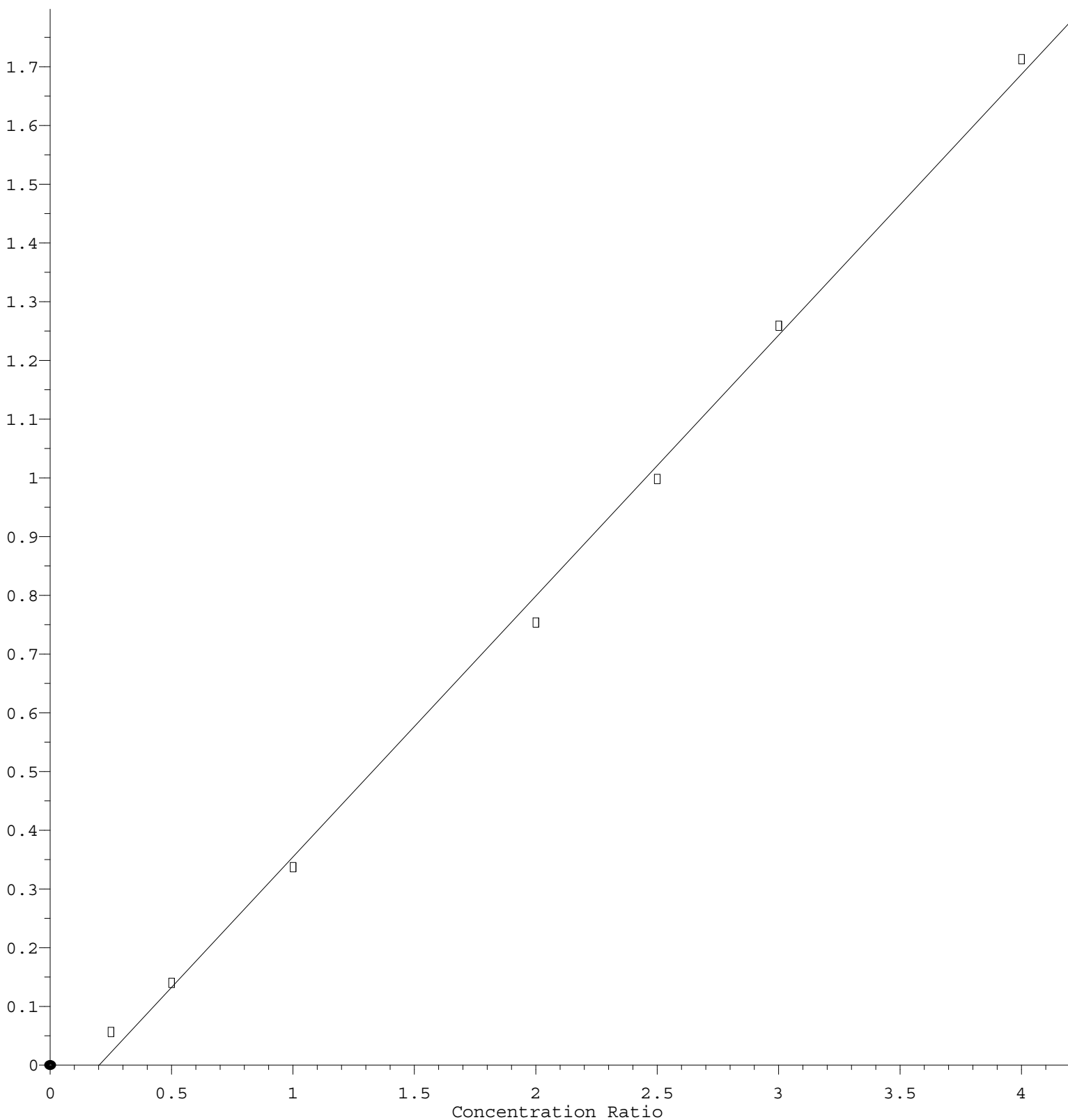
Benzoic acid



$R = 2.341e-002 A^2 + 1.086e-001 A - 2.823e-002$
Coef of Det (r^2) = 0.998620 Curve Fit: Quadratic
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2,4,6-Trichlorophenol

Response Ratio



$$\text{Response} = 4.443\text{e-}001 * \text{Amt} - 8.995\text{e-}002$$

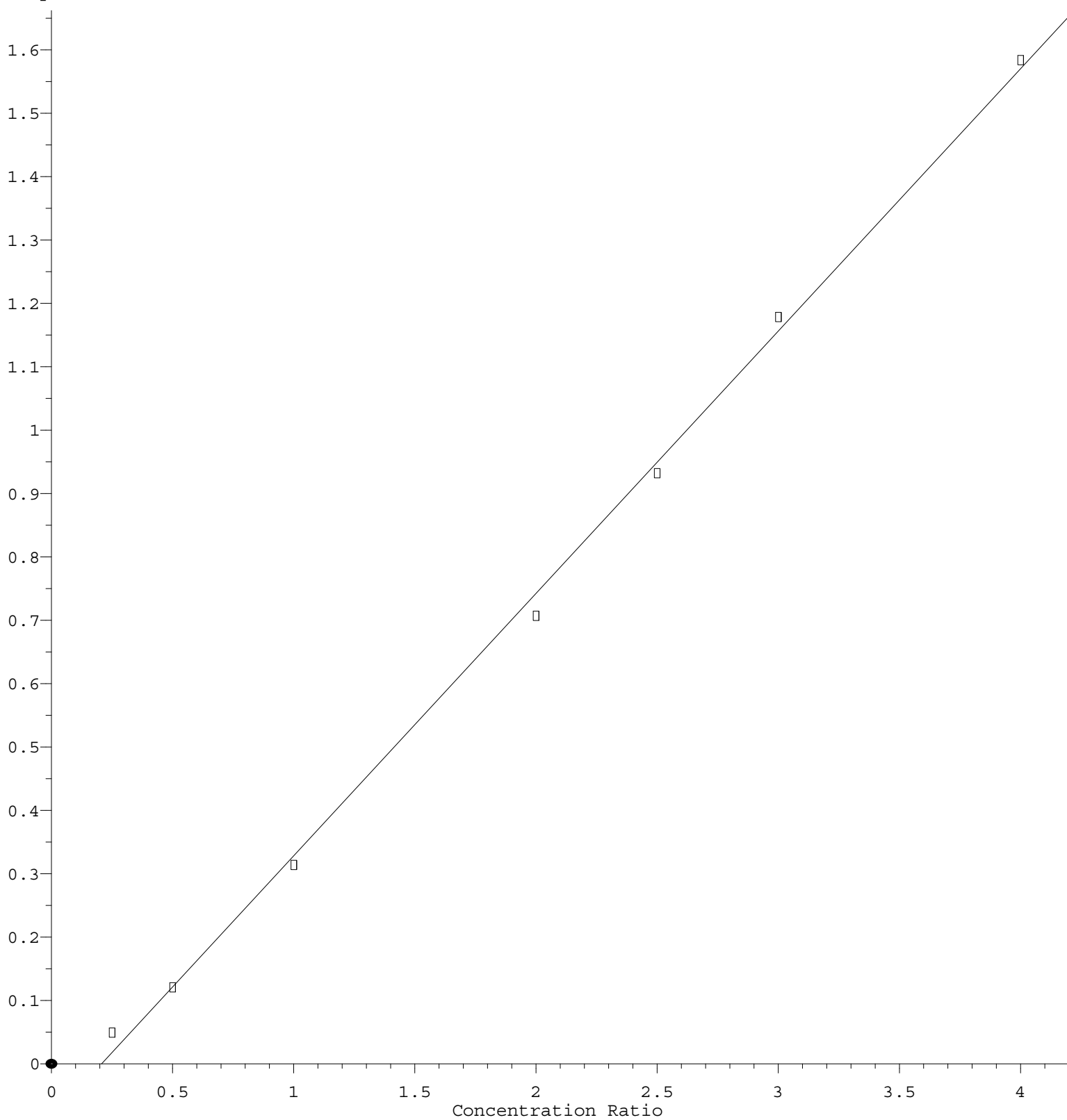
Coef of Det (r^2) = 0.997773 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



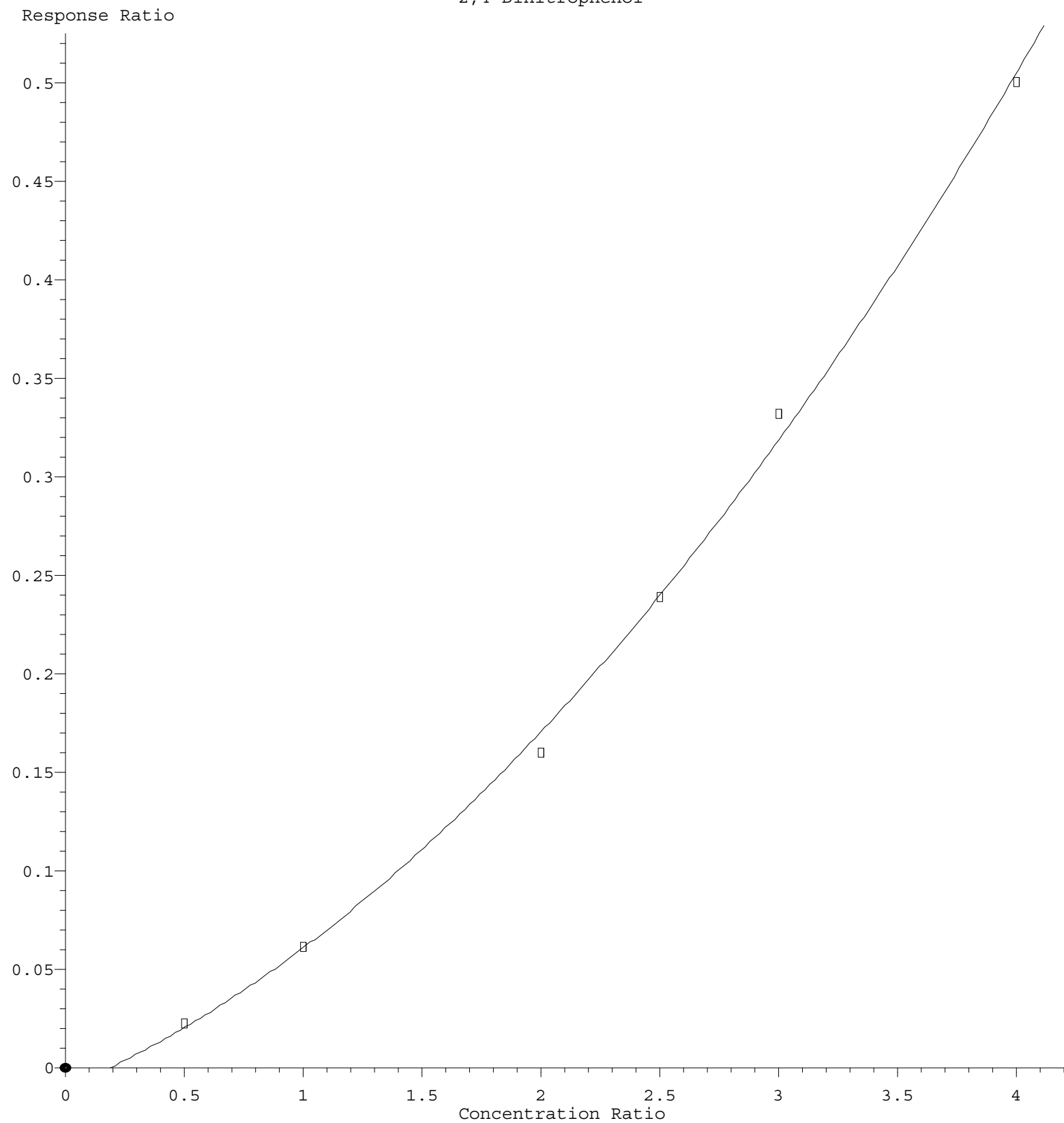
$$\text{Response} = 4.140\text{e-}001 * \text{Amt} - 8.590\text{e-}002$$

Coef of Det (r^2) = 0.998268 Curve Fit: Linear

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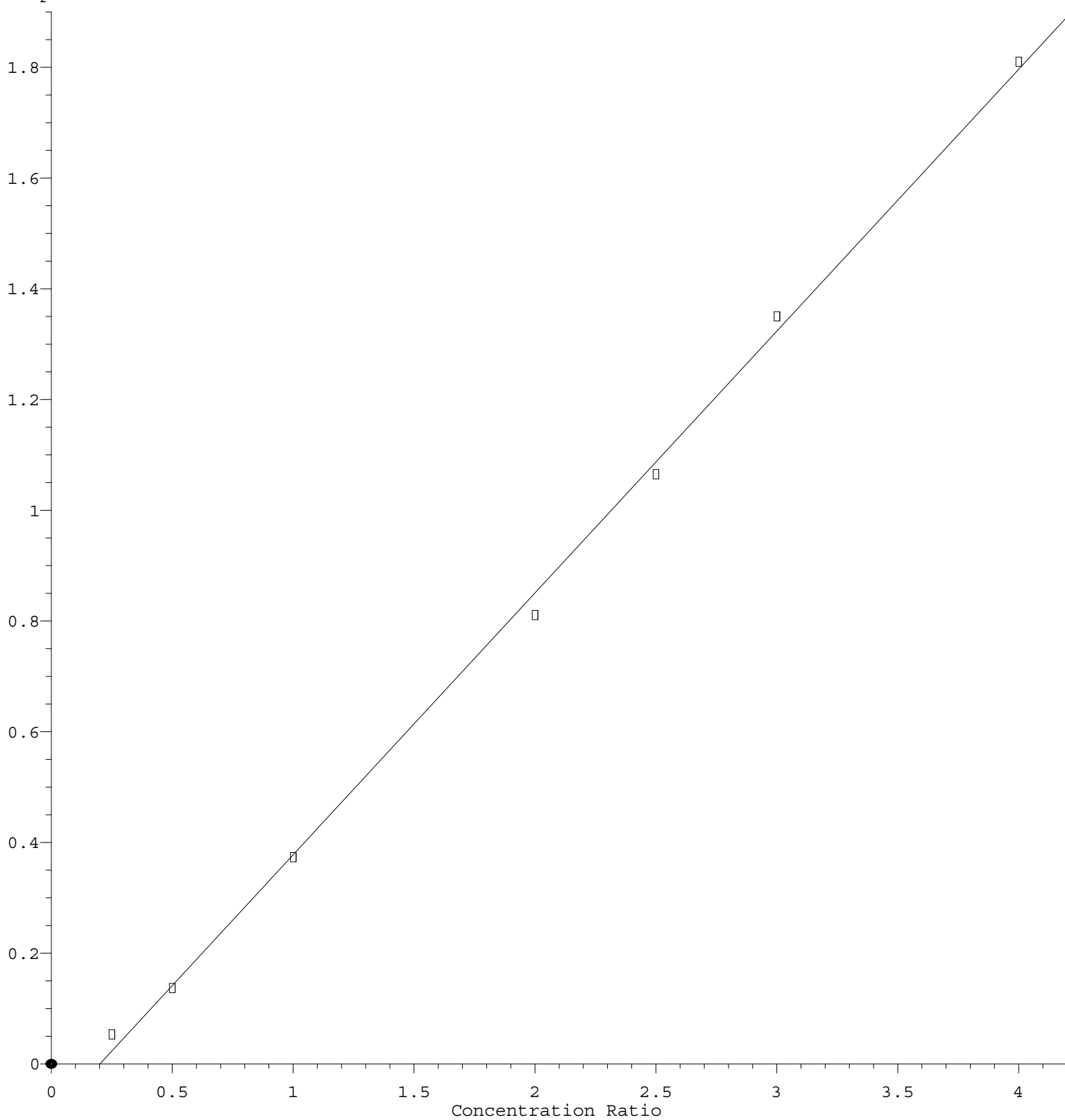
2,4-Dinitrophenol



$R = 1.918e-002 A^2 + 5.216e-002 A - 1.047e-002$
 Coef of Det (r^2) = 0.998009 Curve Fit: Quadratic
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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.729\text{e-}001 * \text{Amt} - 9.523\text{e-}002$$

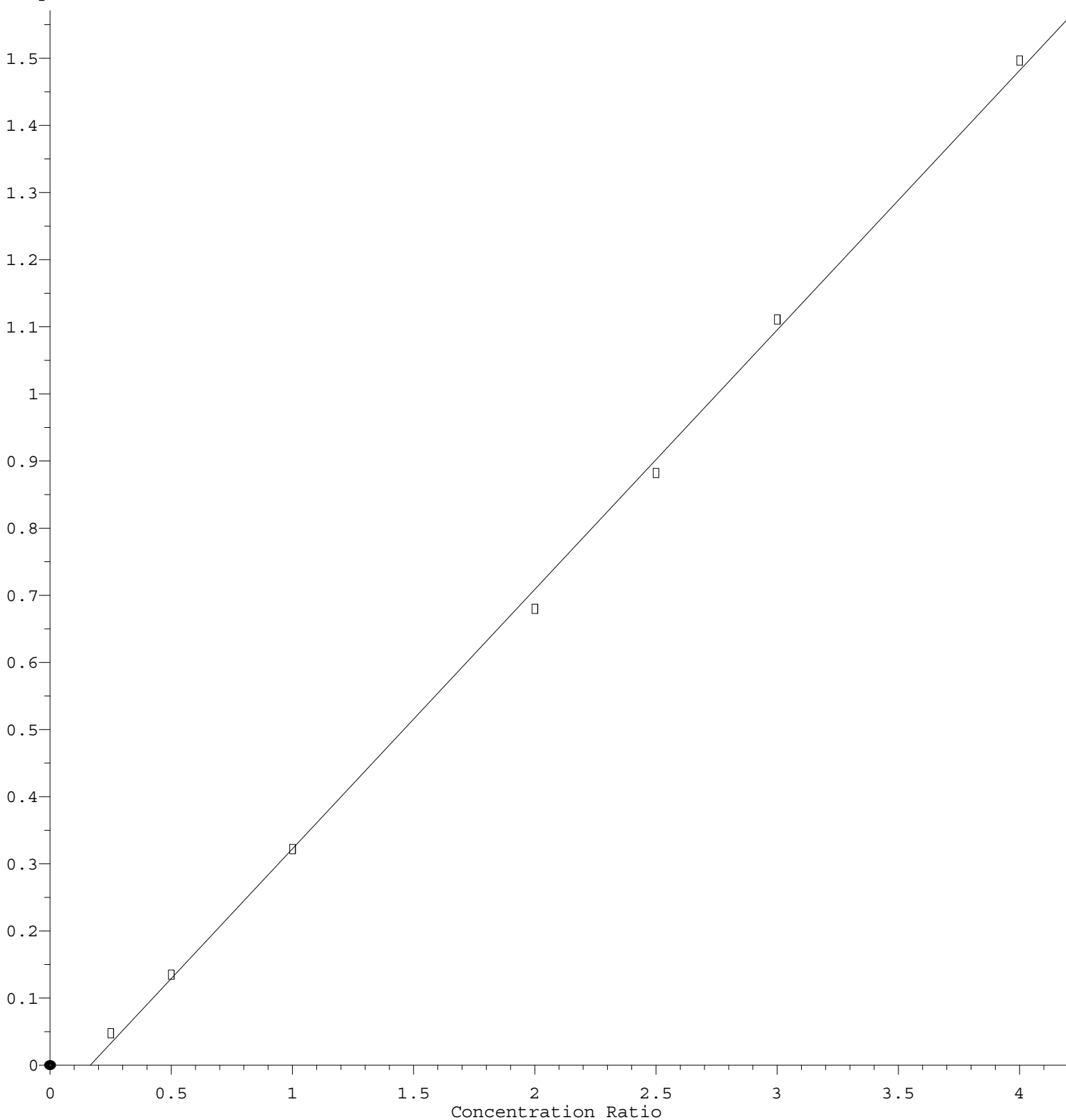
Coef of Det (r^2) = 0.998470 Curve Fit: Linear

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2,3,4,6-Tetrachlorophenol

Response Ratio



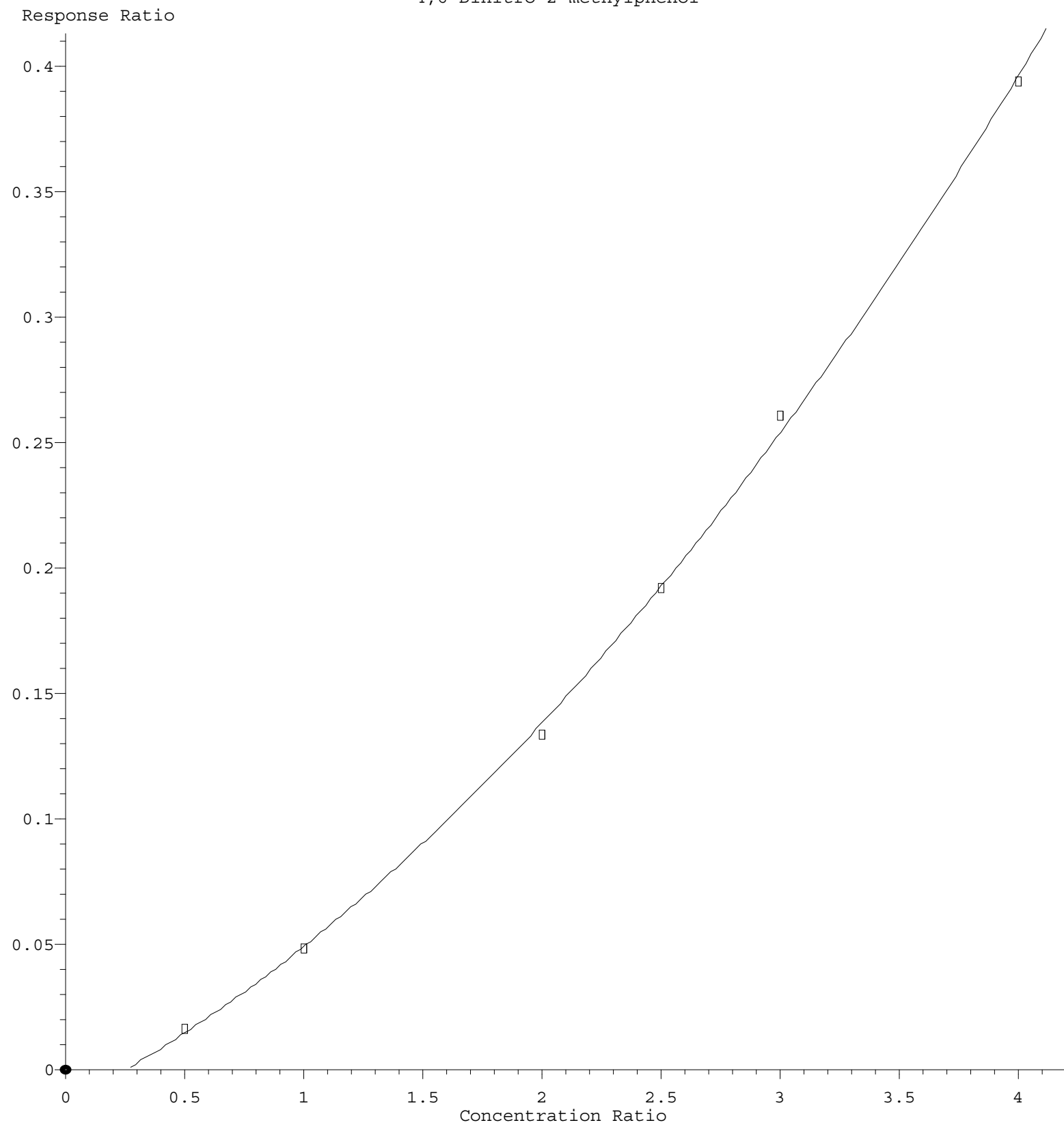
$$\text{Response} = 3.865\text{e-}001 * \text{Amt} - 6.401\text{e-}002$$

Coef of Det (r^2) = 0.998861 Curve Fit: Linear

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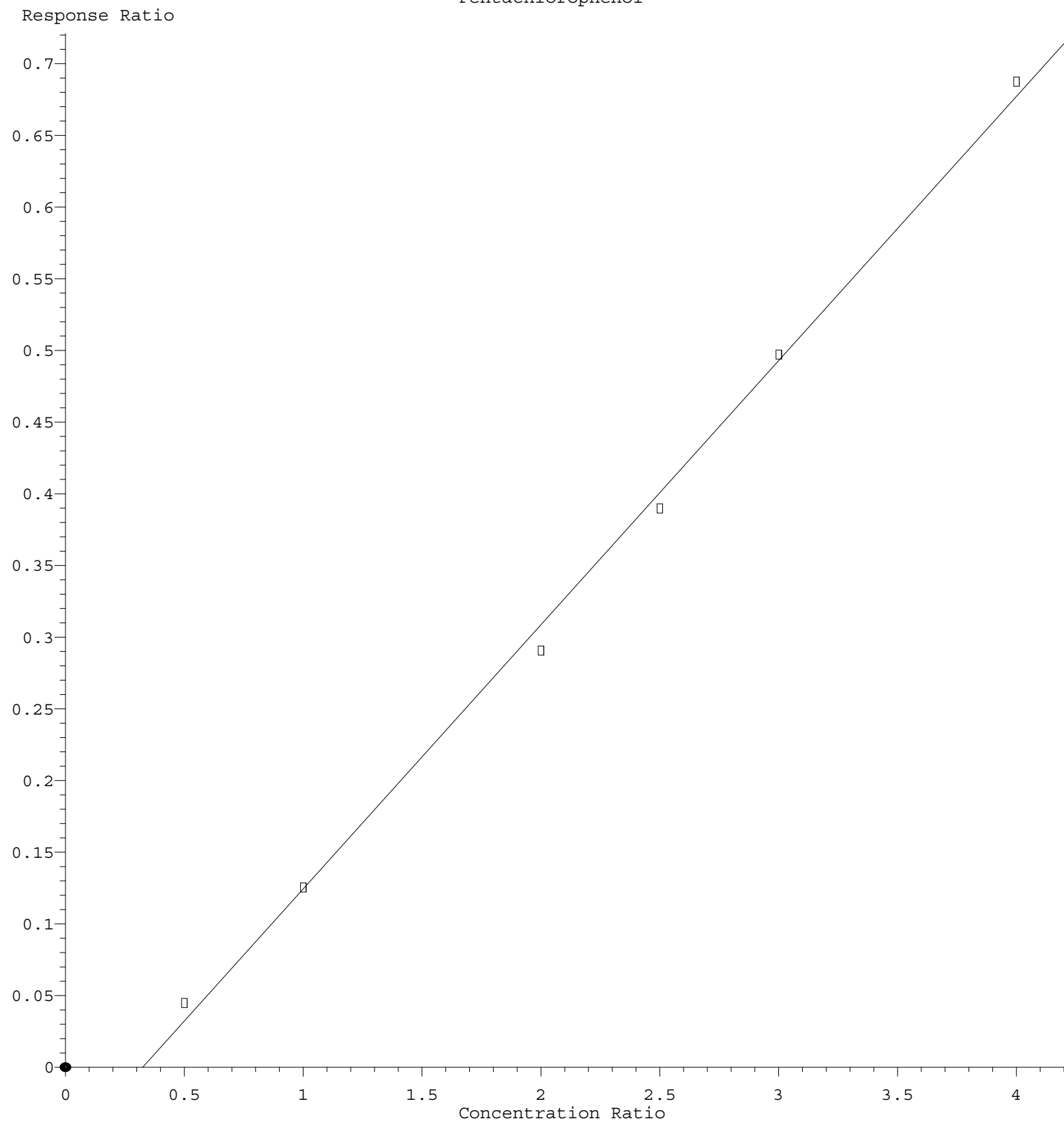
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4,6-Dinitro-2-methylphenol



$R = 1.335e-002 A^2 + 4.898e-002 A - 1.319e-002$
Coef of Det (r^2) = 0.999214 Curve Fit: Quadratic
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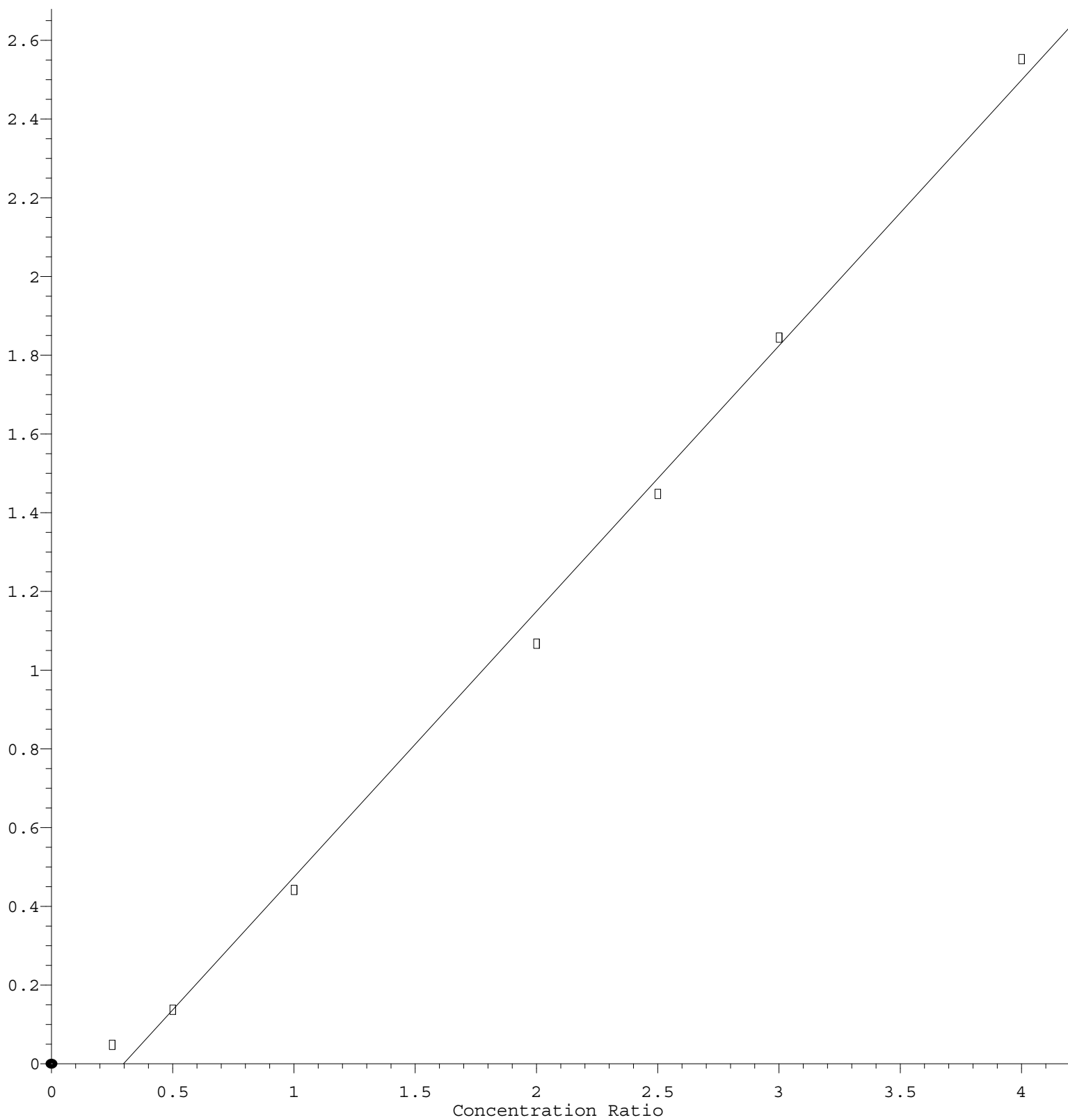
Pentachlorophenol



Response = $1.842e-001 * \text{Amt} - 5.995e-002$
 Coef of Det (r^2) = 0.997436 Curve Fit: Linear
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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 6.749\text{e-}001 * \text{Amt} - 2.005\text{e-}001$$

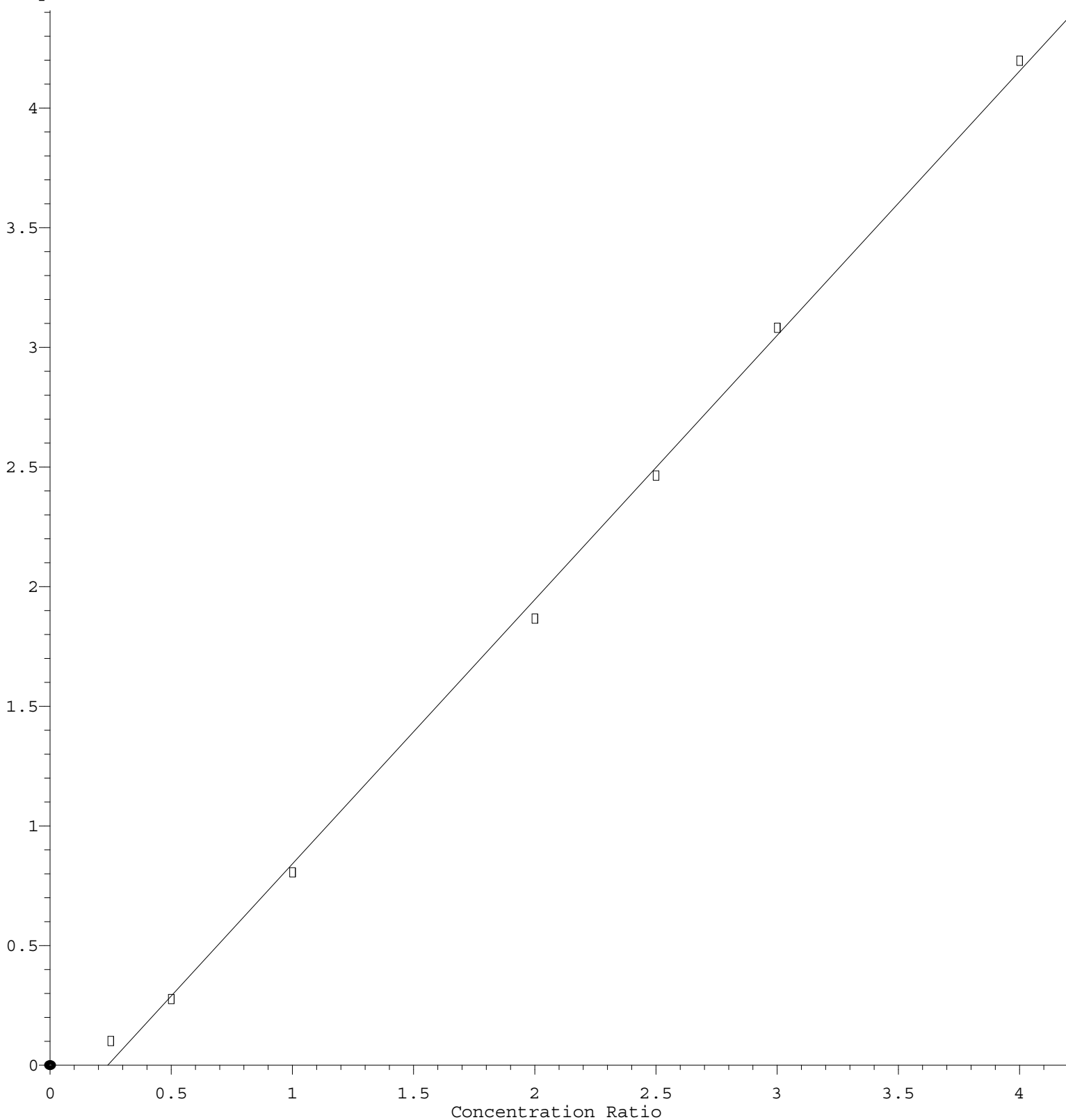
Coef of Det (r^2) = 0.996390 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 1.104\text{e}+000 * \text{Amt} - 2.633\text{e}-001$$

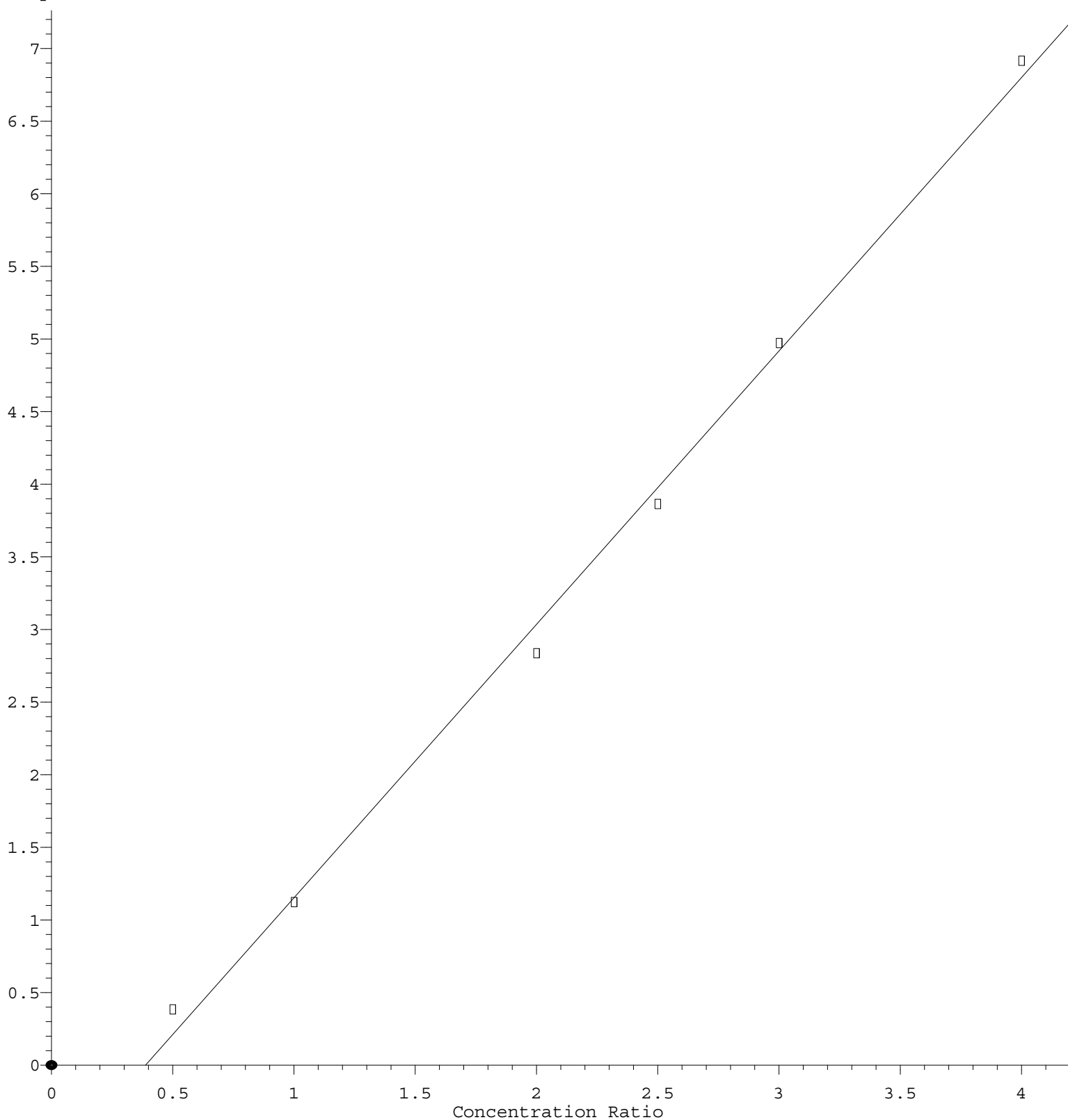
Coef of Det (r^2) = 0.998605 Curve Fit: Linear

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Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.883\text{e}+000 * \text{Amt} - 7.297\text{e}-001$$

Coef of Det (r^2) = 0.996651 Curve Fit: Linear

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