

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP112122.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Nov 21 23:51:17 2022
 Response Via : Initial Calibration

Calibration Files

2.5 =BP012681.D 5 =BP012682.D 10 =BP012683.D 20 =BP012684.D 40 =BP012685.D 50 =BP012686.D 60 =BP012687.D 80 =BP012688.D

Compound		2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.469	0.444	0.408	0.388	0.397	0.384	0.351	0.406		9.73
3)	Pyridine	1.244	1.289	1.278	1.242	1.328	1.288	1.203	1.267		3.22
4)	n-Nitrosodimet...	0.564	0.591	0.552	0.543	0.572	0.545	0.507	0.553		4.77
5) S	2-Fluorophenol	0.986	1.003	0.968	0.974	1.046	1.002	0.933	0.987		3.55
6)	Aniline	1.575	1.678	1.695	1.749	1.874	1.814	1.722	1.730		5.60
7) S	Phenol-d6	1.241	1.341	1.371	1.368	1.481	1.442	1.345	1.370		5.62
8)	2-Chlorophenol	1.177	1.225	1.233	1.246	1.344	1.288	1.220	1.248		4.32
9)	Benzaldehyde	0.920	0.972	0.930	0.740	0.768	0.734		0.844		12.79
10) C	Phenol	1.413	1.519	1.556	1.550	1.673	1.633	1.530	1.554		5.39
11)	bis(2-Chloroet...	1.380	1.415	1.337	1.310	1.380	1.317	1.240	1.340		4.34
12)	1,3-Dichlorobe...	1.591	1.607	1.517	1.471	1.561	1.480	1.389	1.517		5.06
13) C	1,4-Dichlorobe...	1.652	1.677	1.546	1.514	1.604	1.517	1.427	1.562		5.60
14)	1,2-Dichlorobe...	1.598	1.612	1.528	1.470	1.550	1.463	1.374	1.514		5.55
15)	Benzyl Alcohol	0.746	0.854	0.915	0.992	1.101	1.078	1.042	0.961		13.46
16)	2,2'-oxybis(1-...	2.107	2.109	1.988	1.932	2.000	1.891	1.776	1.972		6.03
17)	2-Methylphenol	0.908	1.027	1.067	1.091	1.185	1.148	1.085	1.073		8.35
18)	Hexachloroethane	0.603	0.615	0.562	0.548	0.580	0.548	0.513	0.567		6.20
19) P	n-Nitroso-di-n...	0.725	0.875	0.954	0.976	0.999	1.056	1.014	0.950	0.944	10.92
20)	3+4-Methylphenols	1.140	1.309	1.450	1.495	1.633	1.609	1.518	1.451		11.99
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.483	0.515	0.497	0.477	0.522	0.496	0.464	0.494		4.19
23) S	Nitrobenzene-d5	0.318	0.354	0.353	0.355	0.392	0.373	0.354	0.357		6.32
24)	Nitrobenzene	0.337	0.367	0.367	0.365	0.400	0.382	0.365	0.369		5.19
25)	Isophorone	0.673	0.697	0.667	0.671	0.739	0.706	0.675	0.690		3.77
26) C	2-Nitrophenol	0.073	0.086	0.097	0.125	0.153	0.150	0.158	0.120		28.93
27)	2,4-Dimethylph...	0.185	0.216	0.227	0.241	0.271	0.264	0.256	0.237		12.74
28)	bis(2-Chloroet...	0.342	0.384	0.382	0.391	0.432	0.412	0.395	0.391		7.15
29) C	2,4-Dichloroph...	0.215	0.270	0.283	0.311	0.353	0.341	0.334	0.301		16.14
30)	1,2,4-Trichlor...	0.364	0.369	0.357	0.355	0.398	0.379	0.368	0.370		3.96
31)	Naphthalene	1.127	1.153	1.096	1.075	1.180	1.124	1.062	1.117		3.76
32)	Benzoic acid		0.075	0.080	0.120	0.158	0.164	0.181	0.130		34.59
33)	4-Chloroaniline	0.250	0.349	0.386	0.412	0.467	0.452	0.437	0.393		19.03
34) C	Hexachlorobuta...	0.235	0.234	0.223	0.221	0.247	0.233	0.228	0.232		3.76
35)	Caprolactam		0.065	0.071	0.089	0.102	0.105	0.102	0.089		19.32
36) C	4-Chloro-3-met...	0.247	0.293	0.303	0.321	0.359	0.348	0.335	0.315		12.09
37)	2-Methylnaphth...	0.749	0.797	0.778	0.778	0.857	0.814	0.773	0.793		4.41
38)	1-Methylnaphth...	0.777	0.807	0.771	0.763	0.836	0.799	0.752	0.787		3.69

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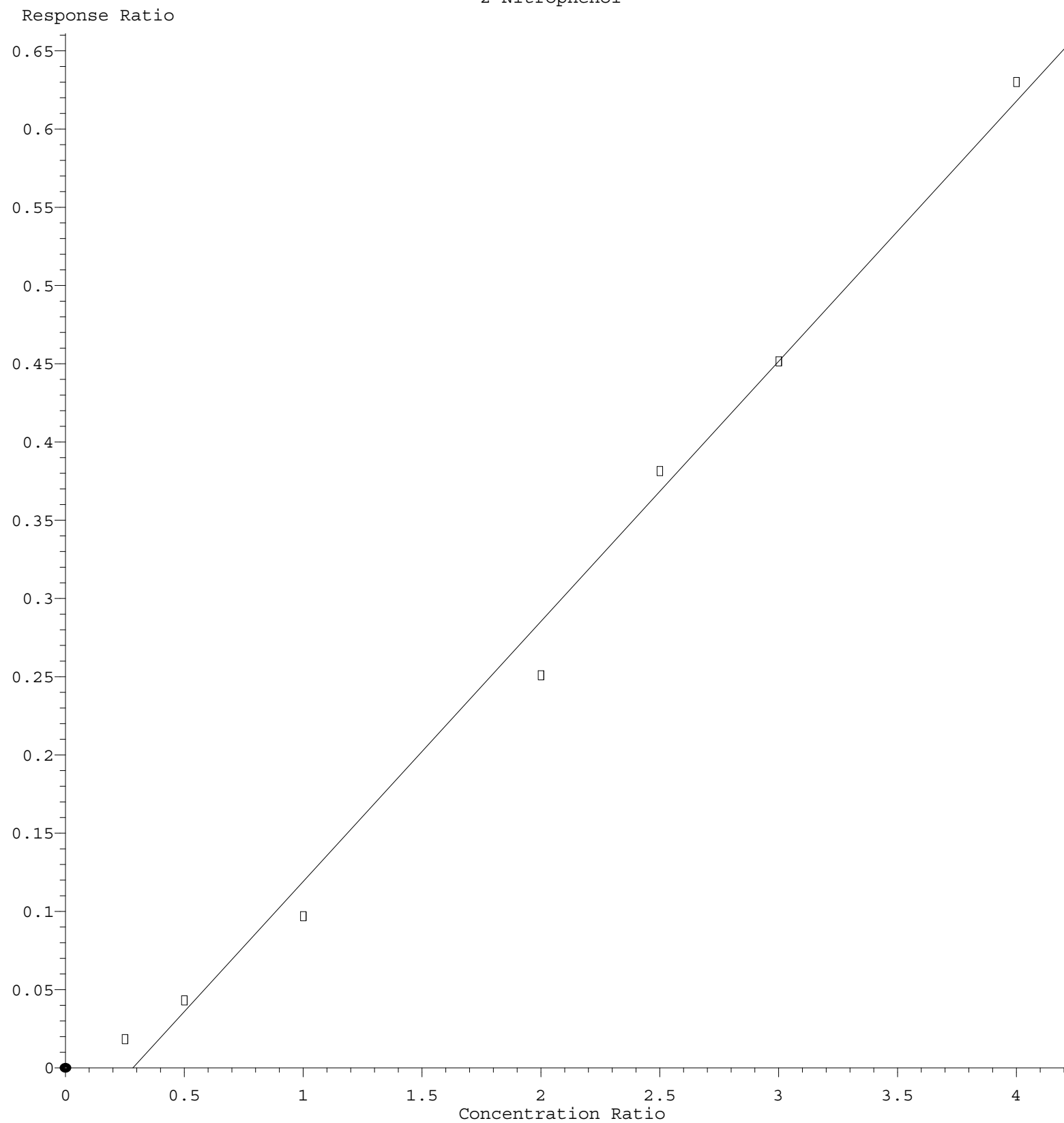
39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.588	0.625	0.618	0.622	0.696	0.655	0.654	0.637	5.41
41) P	Hexachlorocycl...	0.257	0.269	0.279	0.302	0.337	0.317	0.326	0.298	10.23
42) S	2,4,6-Tribromo...	0.172	0.187	0.207	0.249	0.249	0.256	0.220		16.45
43) C	2,4,6-Trichlor...	0.285	0.335	0.360	0.402	0.459	0.435	0.442	0.388	16.50
44)	2,4,5-Trichlor...	0.350	0.405	0.436	0.462	0.520	0.489	0.491	0.451	12.94
45) S	2-Fluorobiphenyl	1.417	1.496	1.442	1.390	1.484	1.391	1.299	1.417	4.71
46)	1,1'-Biphenyl	1.484	1.552	1.525	1.496	1.633	1.528	1.474	1.527	3.53
47)	2-Chloronaphth...	1.173	1.244	1.219	1.194	1.315	1.237	1.205	1.227	3.75
48)	2-Nitroaniline	0.149	0.189	0.226	0.280	0.329	0.320	0.324	0.260	27.84
49)	Acenaphthylene	1.862	1.986	1.953	1.918	2.106	1.998	1.912	1.962	4.00
50)	Dimethylphthalate	1.443	1.523	1.508	1.516	1.667	1.599	1.547	1.543	4.66
51)	2,6-Dinitrotol...	0.238	0.278	0.298	0.319	0.360	0.345	0.342	0.312	13.85
52) C	Acenaphthene	1.199	1.252	1.222	1.216	1.333	1.267	1.237	1.247	3.55
53)	3-Nitroaniline	0.207	0.258	0.303	0.338	0.382	0.380	0.373	0.320	21.14
54) P	2,4-Dinitrophenol	0.082	0.092	0.121	0.149	0.153	0.164	0.127		26.89
55)	Dibenzofuran	1.903	1.988	1.925	1.863	2.038	1.932	1.855	1.929	3.40
56) P	4-Nitrophenol	0.198	0.242	0.276	0.316	0.317	0.308	0.276		17.34
57)	2,4-Dinitrotol...	0.285	0.345	0.392	0.434	0.488	0.483	0.472	0.414	18.71
58)	Fluorene	1.596	1.667	1.607	1.532	1.651	1.555	1.433	1.577	5.05
59)	2,3,4,6-Tetrac...	0.332	0.379	0.389	0.423	0.471	0.454	0.451	0.414	11.96
60)	Diethylphthalate	1.299	1.400	1.424	1.480	1.640	1.584	1.526	1.479	7.85
61)	4-Chlorophenyl...	0.761	0.800	0.779	0.752	0.830	0.780	0.746	0.778	3.80
62)	4-Nitroaniline	0.140	0.207	0.281	0.329	0.376	0.381	0.369	0.298	31.52
63)	Azobenzene	1.475	1.574	1.546	1.476	1.594	1.496	1.411	1.510	4.25
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.054	0.064	0.082	0.101	0.101	0.107	0.085		25.81
66) c	n-Nitrosodiphe...	0.535	0.575	0.565	0.567	0.632	0.593	0.578	0.578	5.16
67)	4-Bromophenyl-...	0.190	0.195	0.191	0.192	0.223	0.215	0.219	0.204	7.17
68)	Hexachlorobenzene	0.251	0.256	0.245	0.247	0.279	0.264	0.263	0.258	4.58
69)	Atrazine	0.093	0.111	0.123	0.163	0.168	0.161	0.160	0.140	21.73
70) C	Pentachlorophenol	0.124	0.134	0.153	0.173	0.170	0.169	0.154		13.35
71)	Phenanthrene	1.158	1.192	1.165	1.132	1.241	1.172	1.105	1.166	3.72
72)	Anthracene	1.066	1.118	1.105	1.087	1.195	1.132	1.069	1.110	4.01
73)	Carbazole	0.866	0.963	1.006	0.986	1.096	1.059	0.995	0.996	7.33
74)	Di-n-butylphth...	0.640	0.728	0.826	0.998	1.162	1.153	1.124	0.947	22.78
75) C	Fluoranthene	1.280	1.375	1.394	1.377	1.497	1.456	1.307	1.384	5.52
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzydine	0.063	0.058	0.067	0.098	0.158	0.197	0.214	0.122	54.60
78)	Pyrene	1.361	1.383	1.307	1.330	1.476	1.370	1.310	1.362	4.25
79) S	Terphenyl-d14	1.030	1.046	0.989	0.953	0.988	0.883	0.763	0.950	10.35
80)	Butylbenzylpht...	0.118	0.121	0.118	0.146	0.197	0.210	0.152		27.48
81)	Benzo(a)anthra...	1.321	1.393	1.376	1.370	1.521	1.430	1.363	1.396	4.59
82)	3,3'-Dichlorob...	0.157	0.201	0.273	0.343	0.349	0.344	0.278		29.75
83)	Chrysene	1.312	1.367	1.327	1.302	1.429	1.358	1.281	1.339	3.72
84)	Bis(2-ethylhex...	0.193	0.200	0.217	0.305	0.407	0.429	0.292		36.27
85) c	Di-n-octyl pht...	0.367	0.420	0.595	0.810	0.885	1.000	0.679		38.06#

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.152	1.426	1.528	1.527	1.642	1.637	1.452	1.481	11.27
88)	Benzo(b)fluora...	1.218	1.312	1.320	1.379	1.498	1.383	1.428	1.363	6.60
89)	Benzo(k)fluora...	1.274	1.368	1.342	1.367	1.545	1.424	1.429	1.393	6.12
90) C	Benzo(a)pyrene	0.914	1.025	1.056	1.111	1.238	1.175	1.175	1.099	10.00
91)	Dibenzo(a,h)an...	0.973	1.215	1.298	1.281	1.384	1.369	1.222	1.249	11.05
92)	Benzo(g,h,i)pe...	0.914	1.135	1.216	1.179	1.258	1.274	1.125	1.157	10.48

(#) = Out of Range

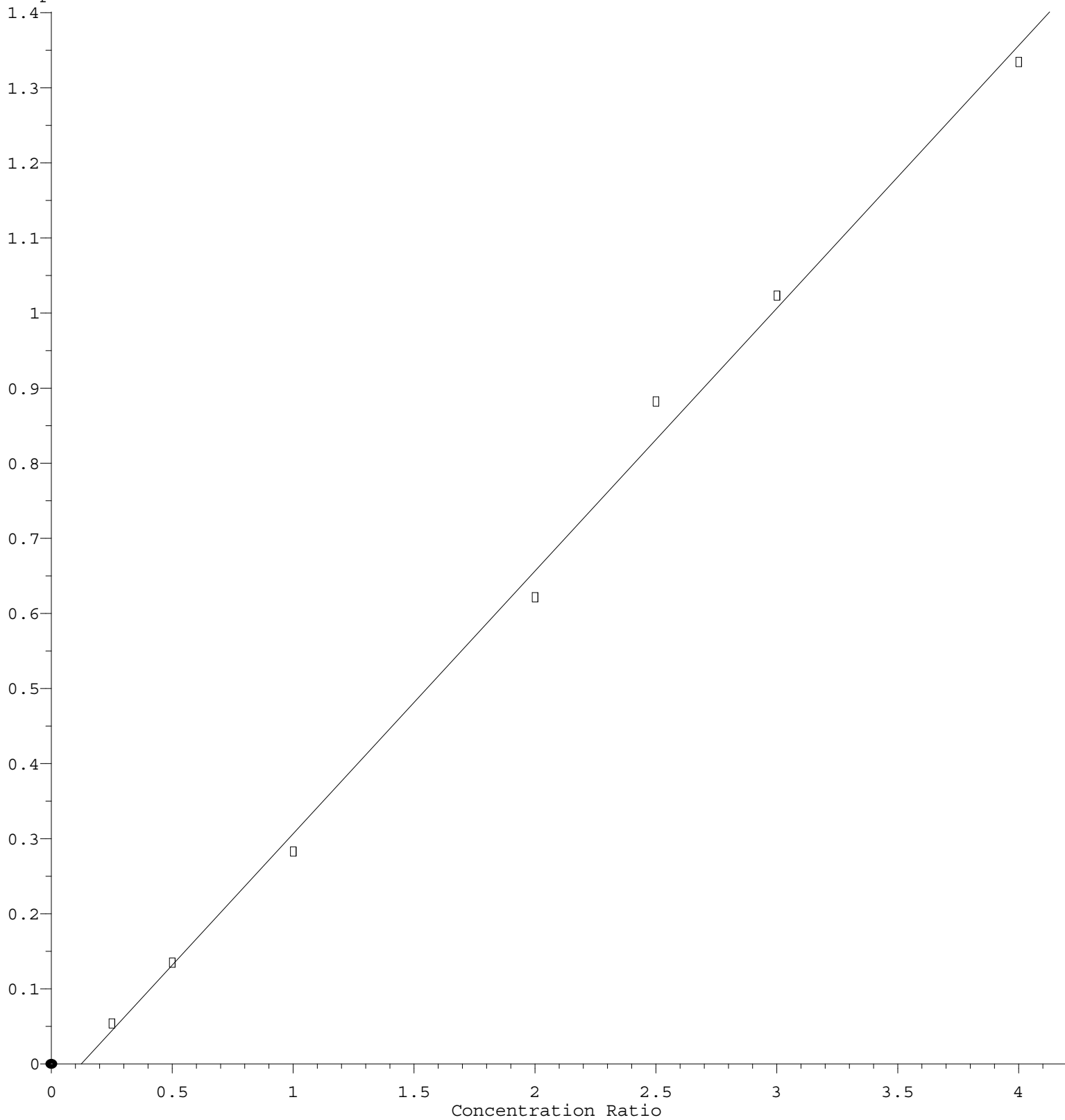
2-Nitrophenol



Response = $1.663 \times 10^{-1} \times \text{Amt} - 4.728 \times 10^{-2}$
 Coef of Det (r^2) = 0.991814 Curve Fit: Linear
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2,4-Dichlorophenol

Response Ratio



$$\text{Response} = 3.499\text{e-}001 * \text{Amt} - 4.344\text{e-}002$$

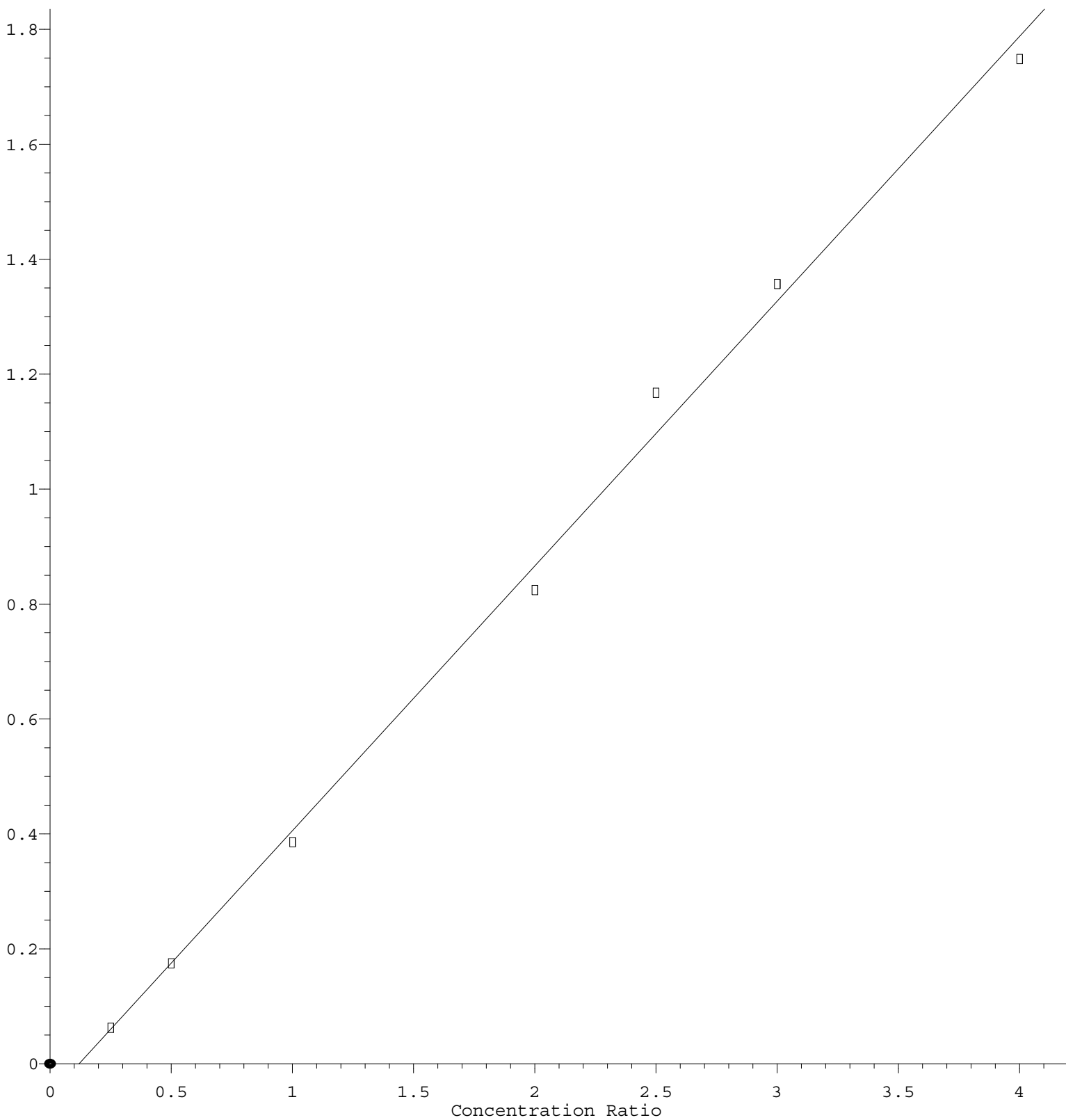
Coef of Det (r^2) = 0.996293 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112122.M

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4-Chloroaniline

Response Ratio



$$\text{Response} = 4.610\text{e-}001 * \text{Amt} - 5.547\text{e-}002$$

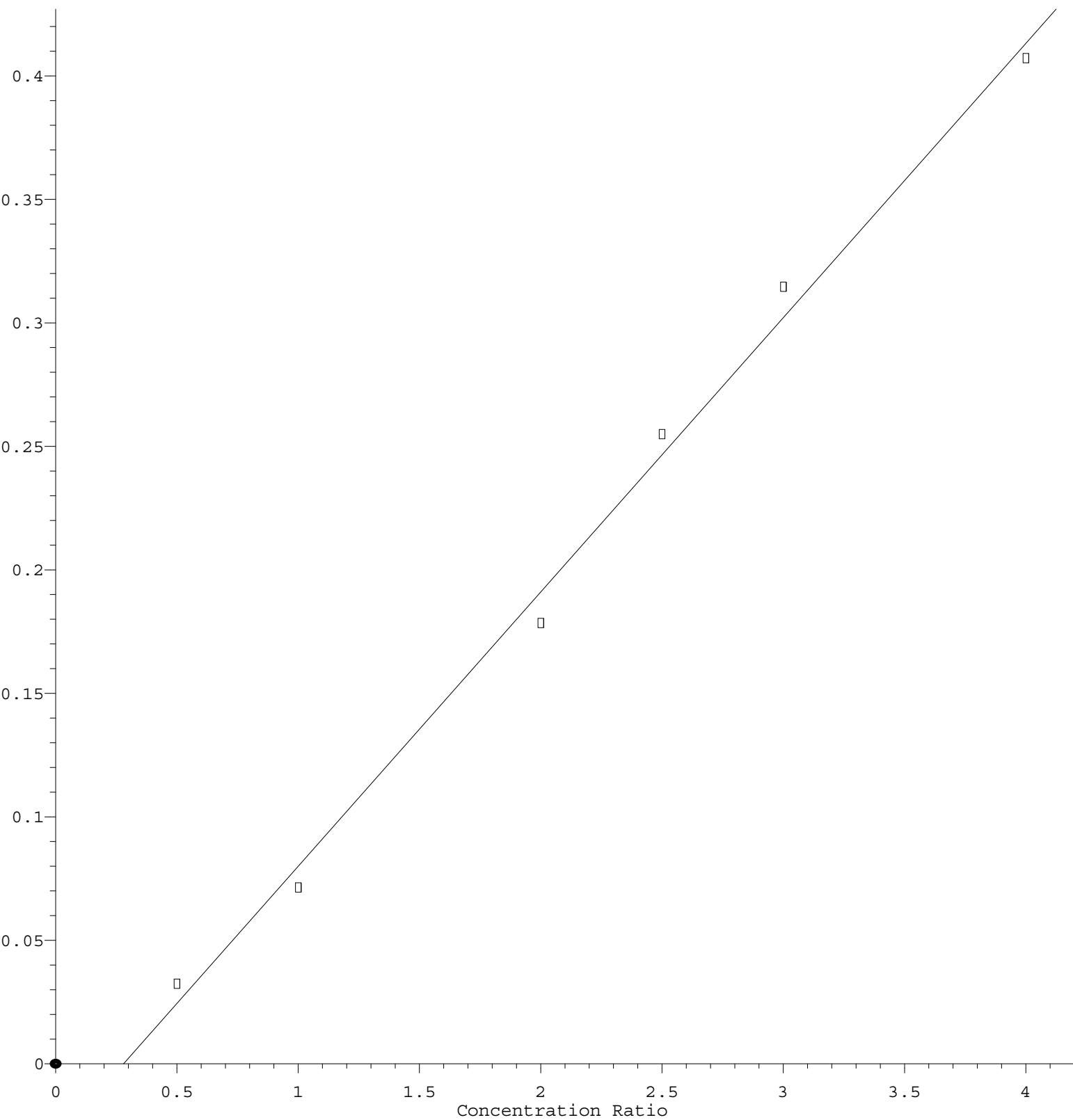
Coef of Det (r^2) = 0.996066 Curve Fit: Linear

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Caprolactam

Response Ratio



$$\text{Response} = 1.112\text{e-}001 * \text{Amt} - 3.109\text{e-}002$$

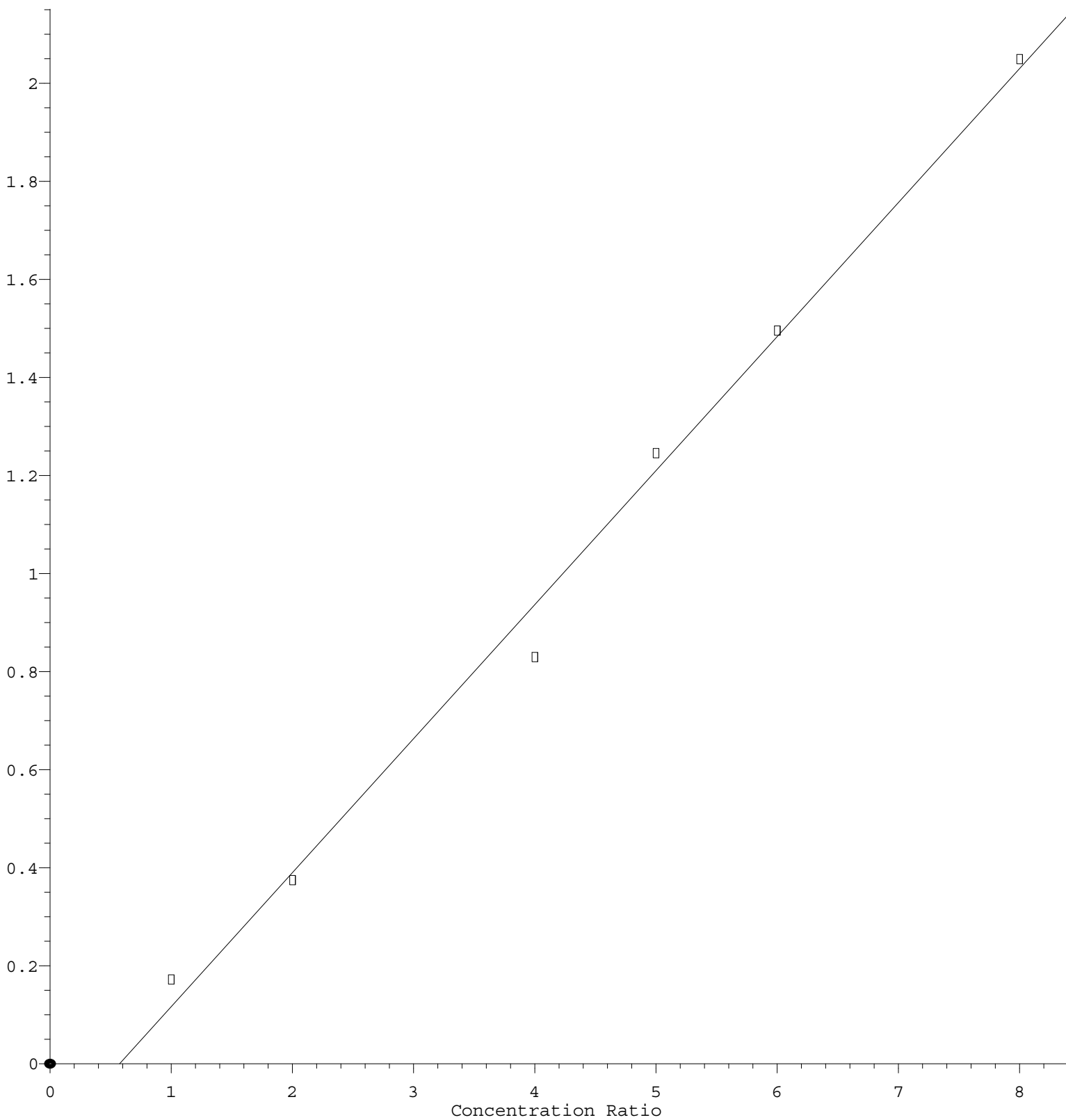
Coef of Det (r^2) = 0.994619 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112122.M

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2,4,6-Tribromophenol

Response Ratio



$$\text{Response} = 2.734\text{e-}001 * \text{Amt} - 1.570\text{e-}001$$

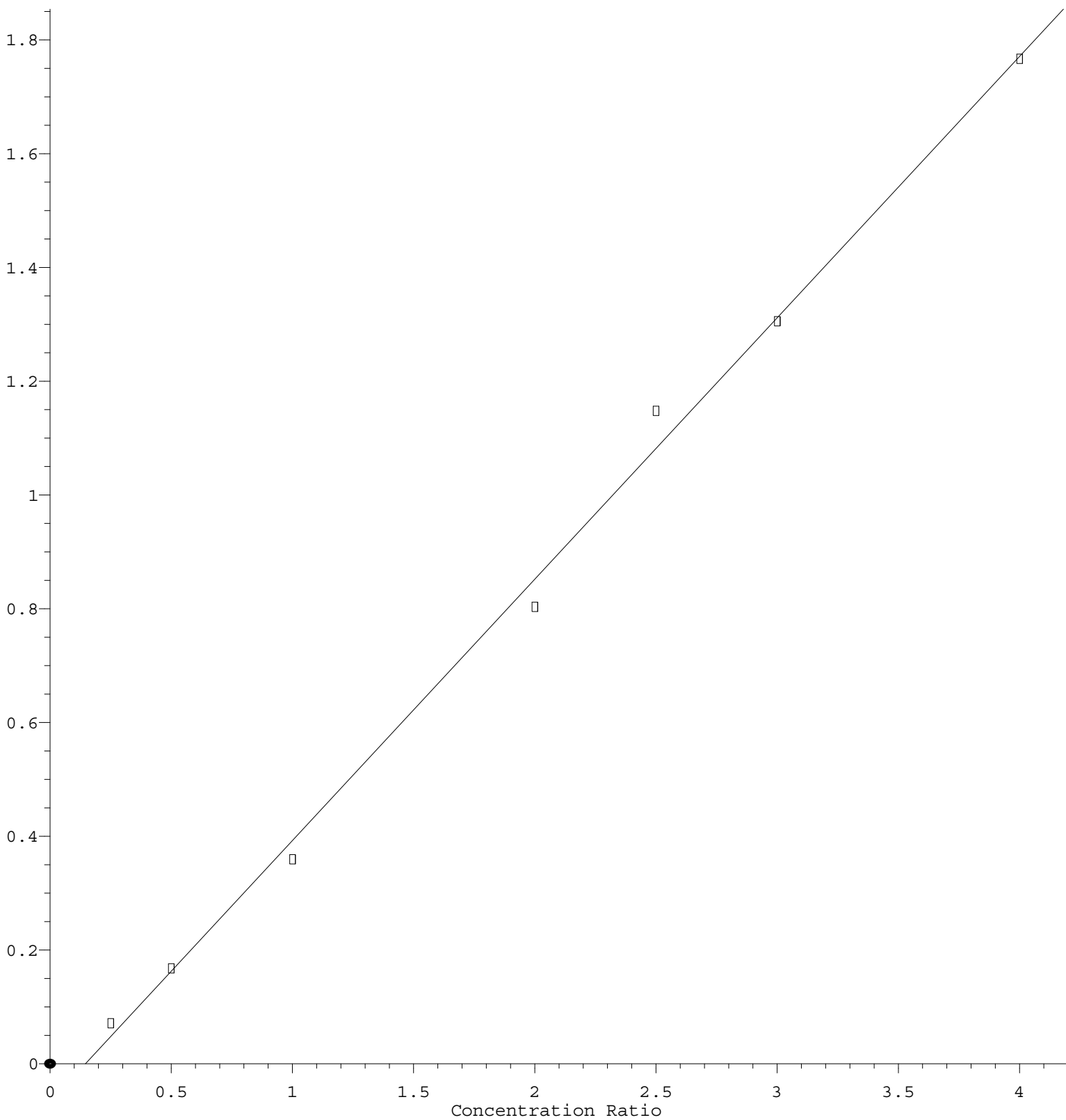
Coef of Det (r^2) = 0.993414 Curve Fit: Linear

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2,4,6-Trichlorophenol

Response Ratio



$$\text{Response} = 4.598\text{e-}001 * \text{Amt} - 6.723\text{e-}002$$

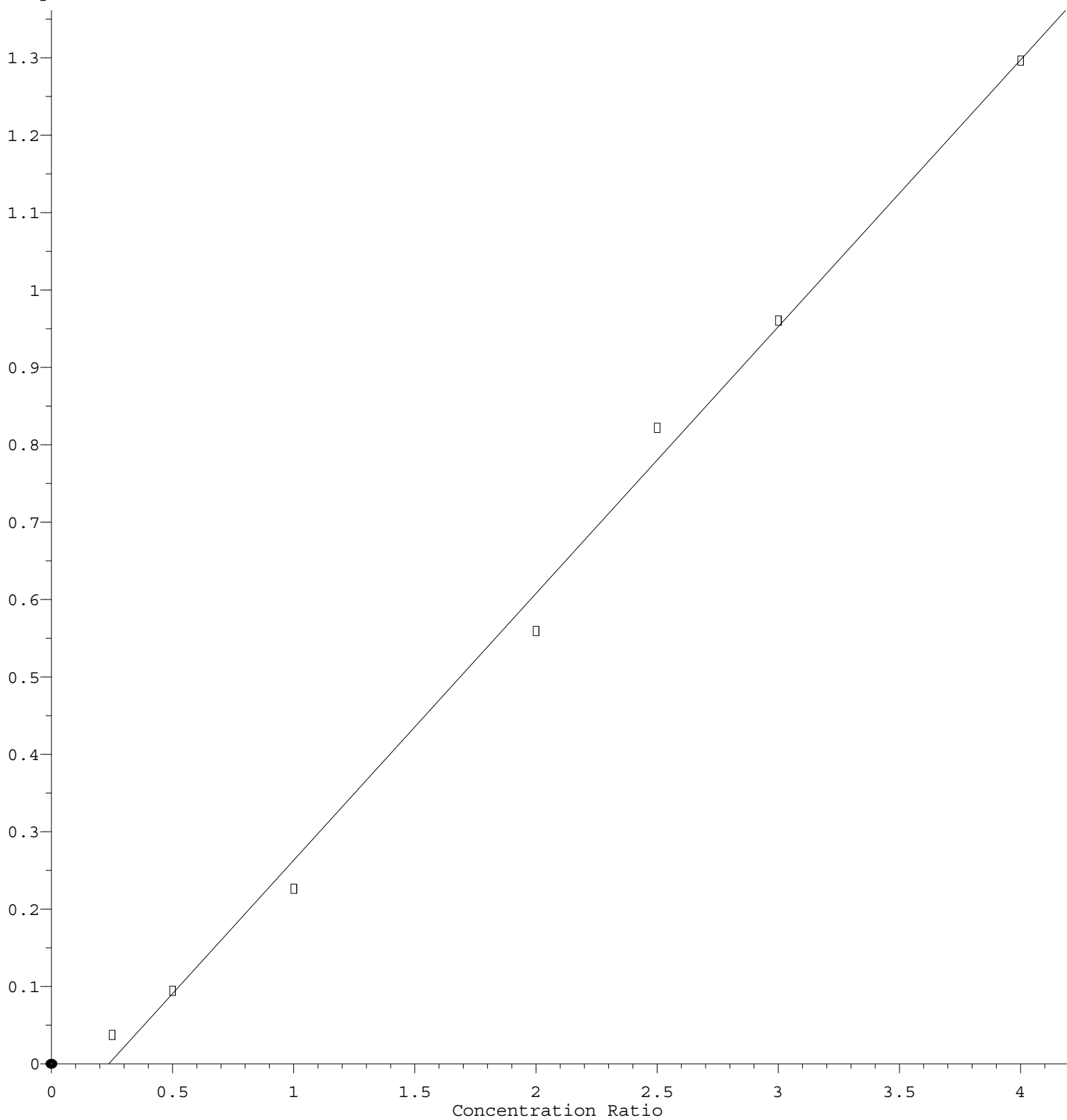
Coef of Det (r^2) = 0.996527 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.448\text{e-}001 * \text{Amt} - 8.179\text{e-}002$$

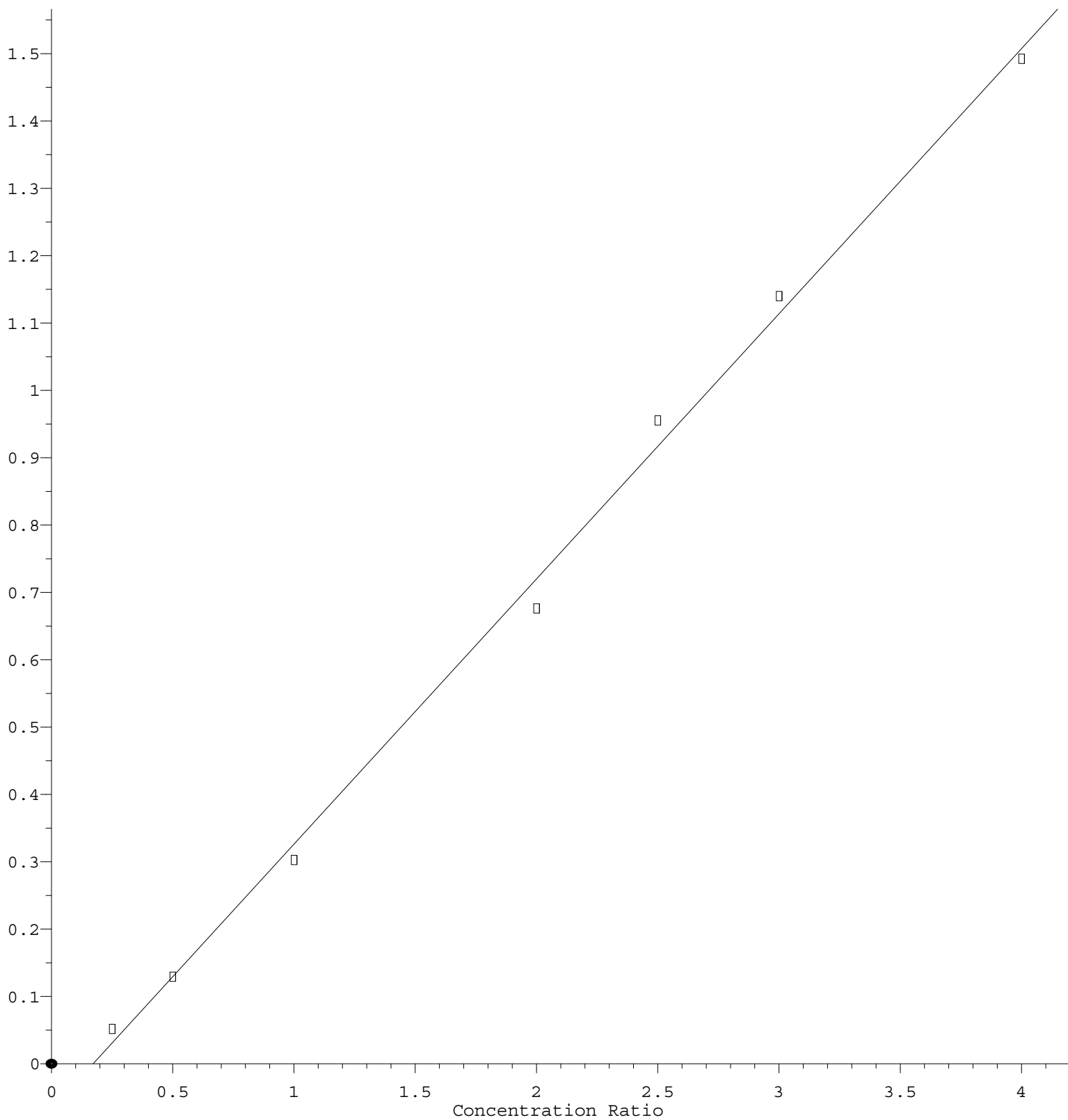
Coef of Det (r^2) = 0.995195 Curve Fit: Linear

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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.940\text{e-}001 * \text{Amt} - 6.762\text{e-}002$$

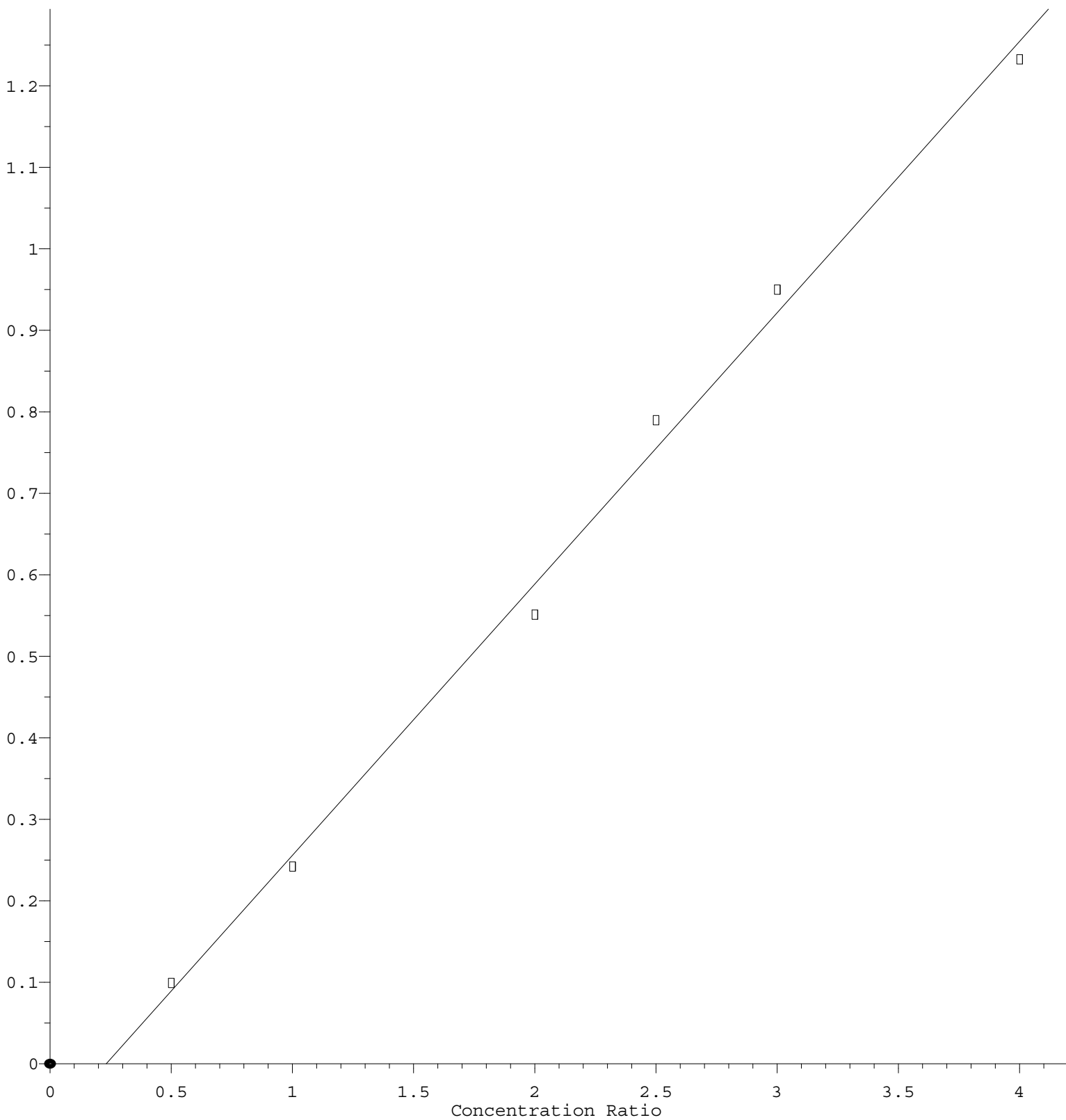
Coef of Det (r^2) = 0.997030 Curve Fit: Linear

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4-Nitrophenol

Response Ratio



$$\text{Response} = 3.330\text{e-}001 * \text{Amt} - 7.740\text{e-}002$$

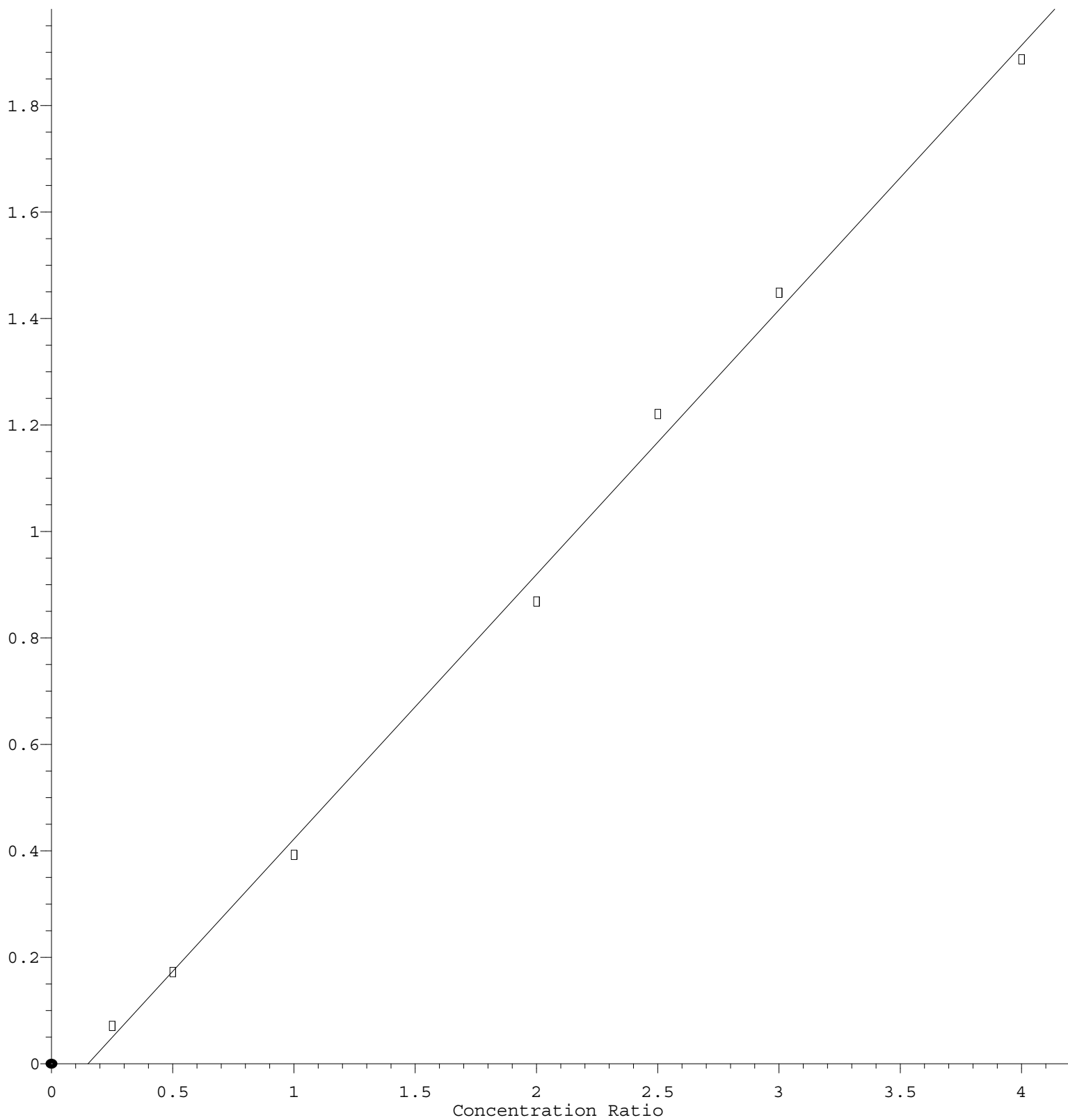
Coef of Det (r^2) = 0.995501 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.970\text{e-}001 * \text{Amt} - 7.500\text{e-}002$$

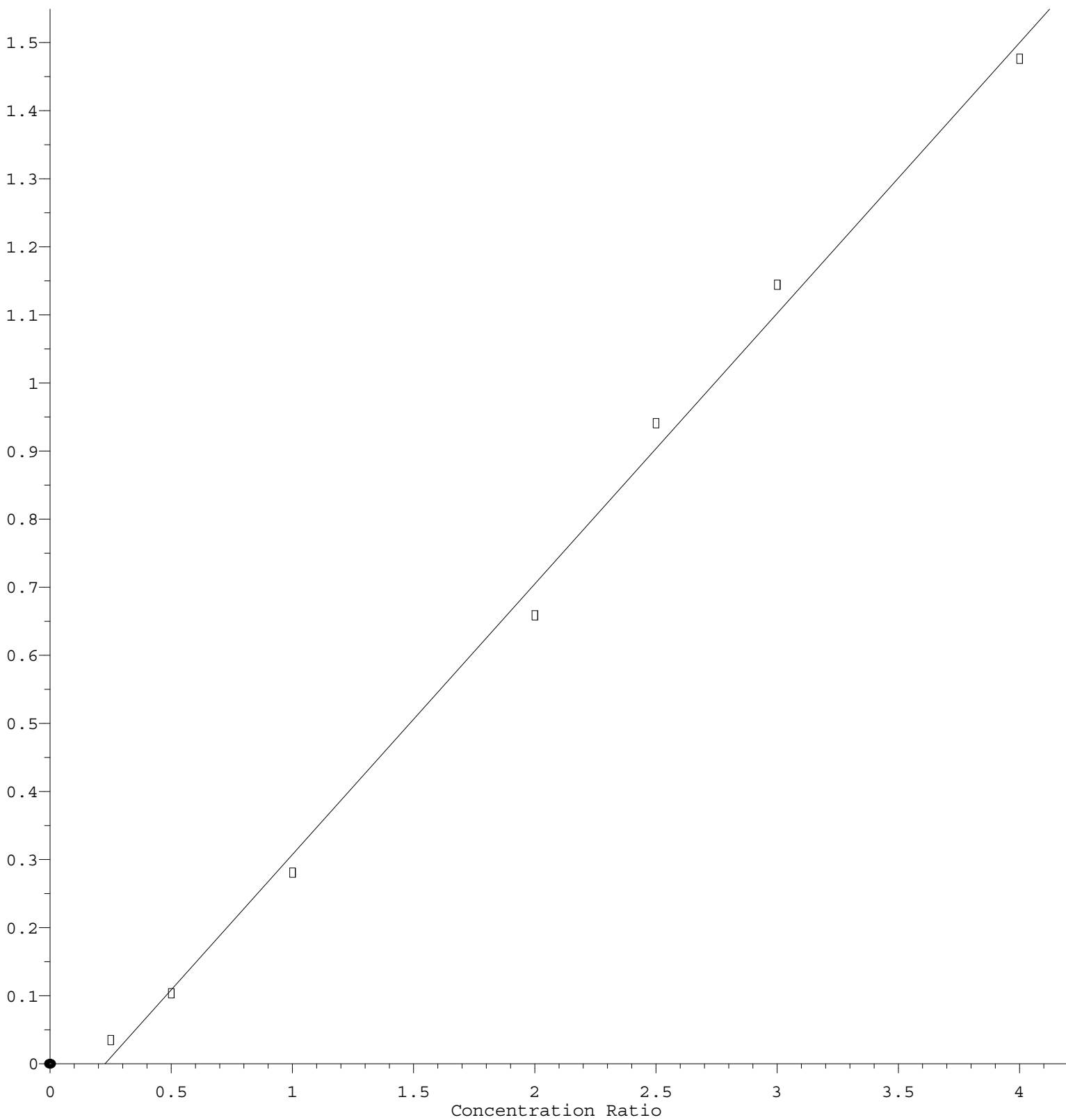
Coef of Det (r^2) = 0.997014 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



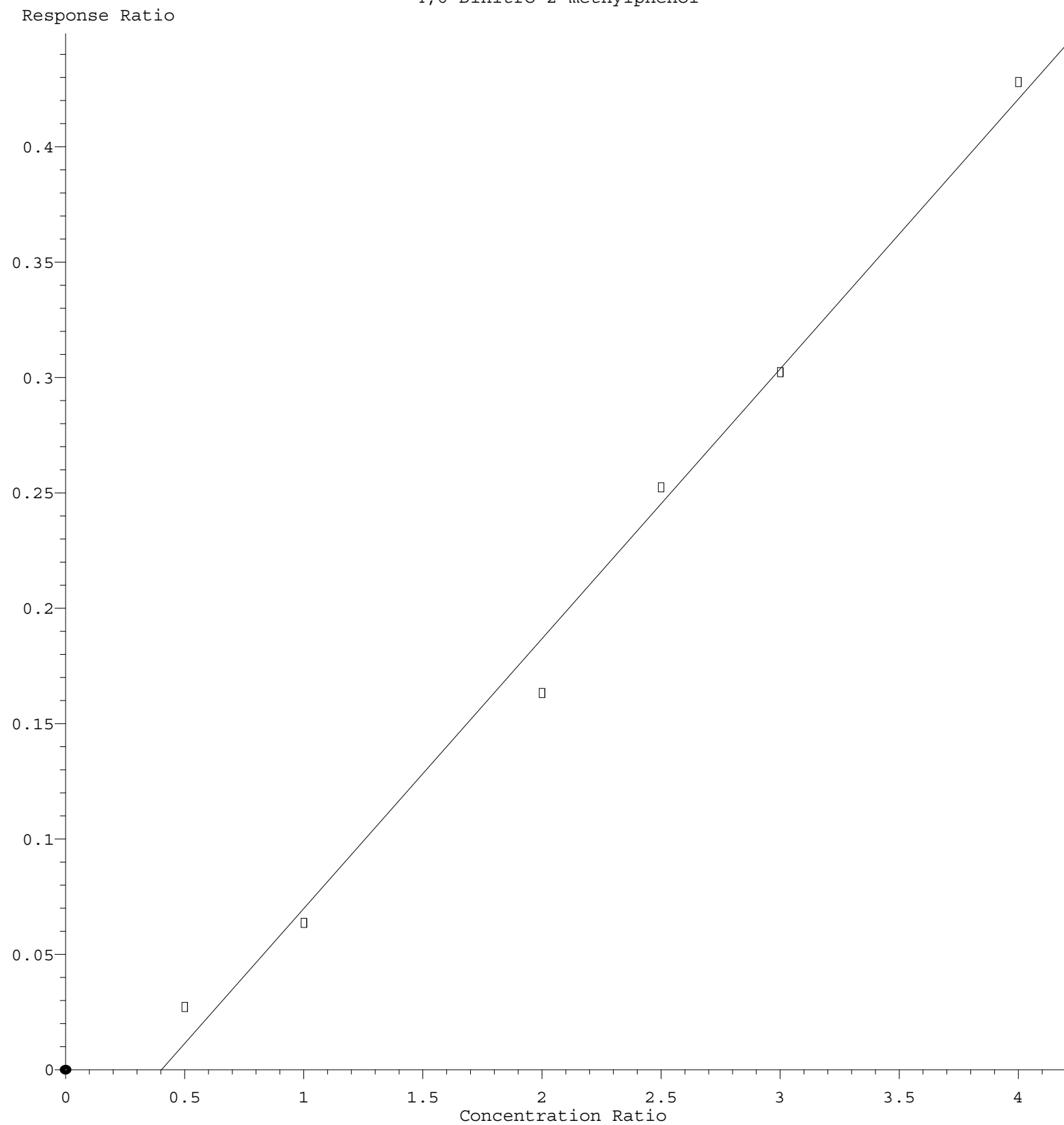
$$\text{Response} = 3.977\text{e-}001 * \text{Amt} - 9.016\text{e-}002$$

Coef of Det (r^2) = 0.996034 Curve Fit: Linear

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4,6-Dinitro-2-methylphenol



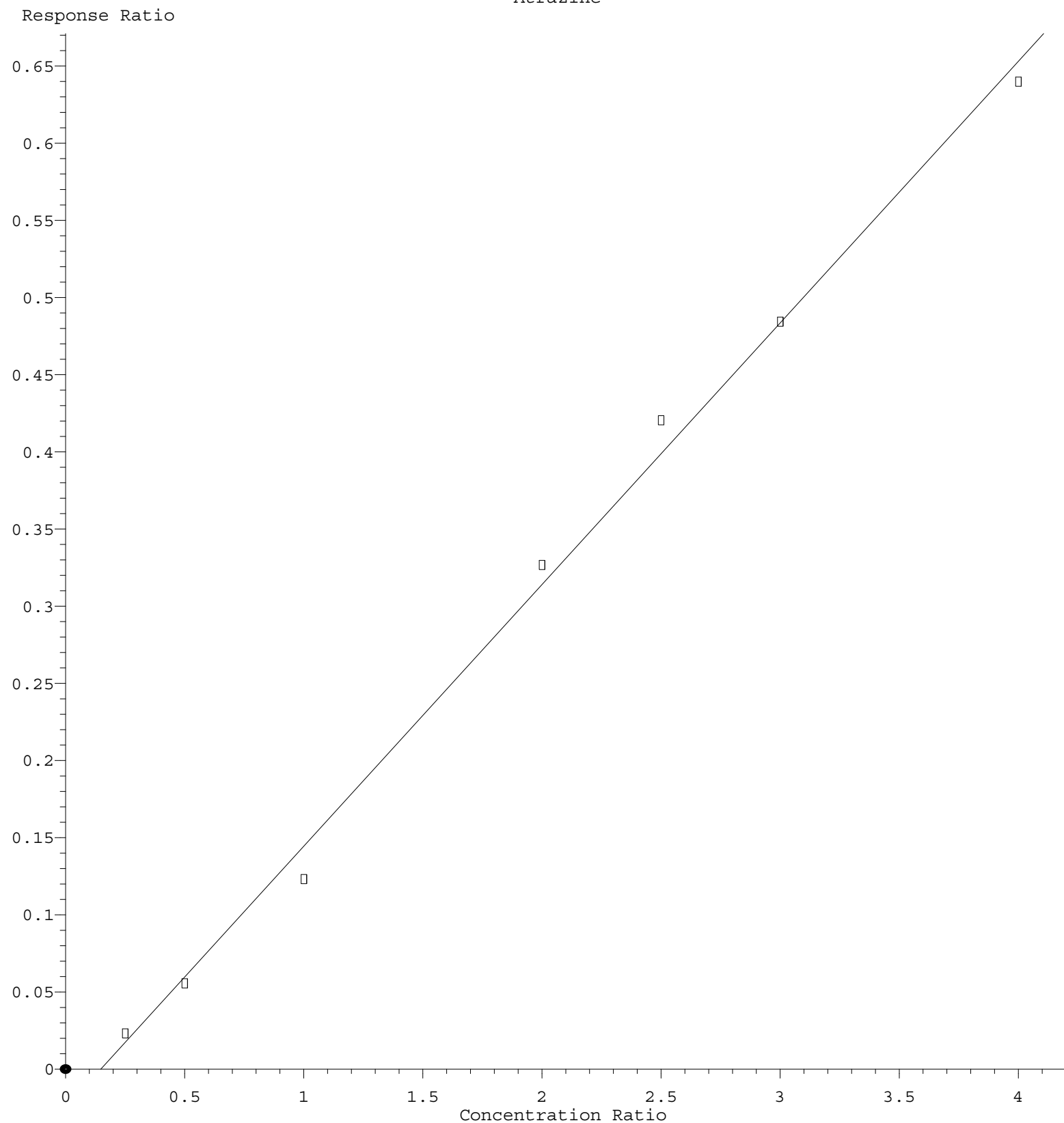
$$\text{Response} = 1.169\text{e-}001 * \text{Amt} - 4.710\text{e-}002$$

Coef of Det (r^2) = 0.991727 Curve Fit: Linear

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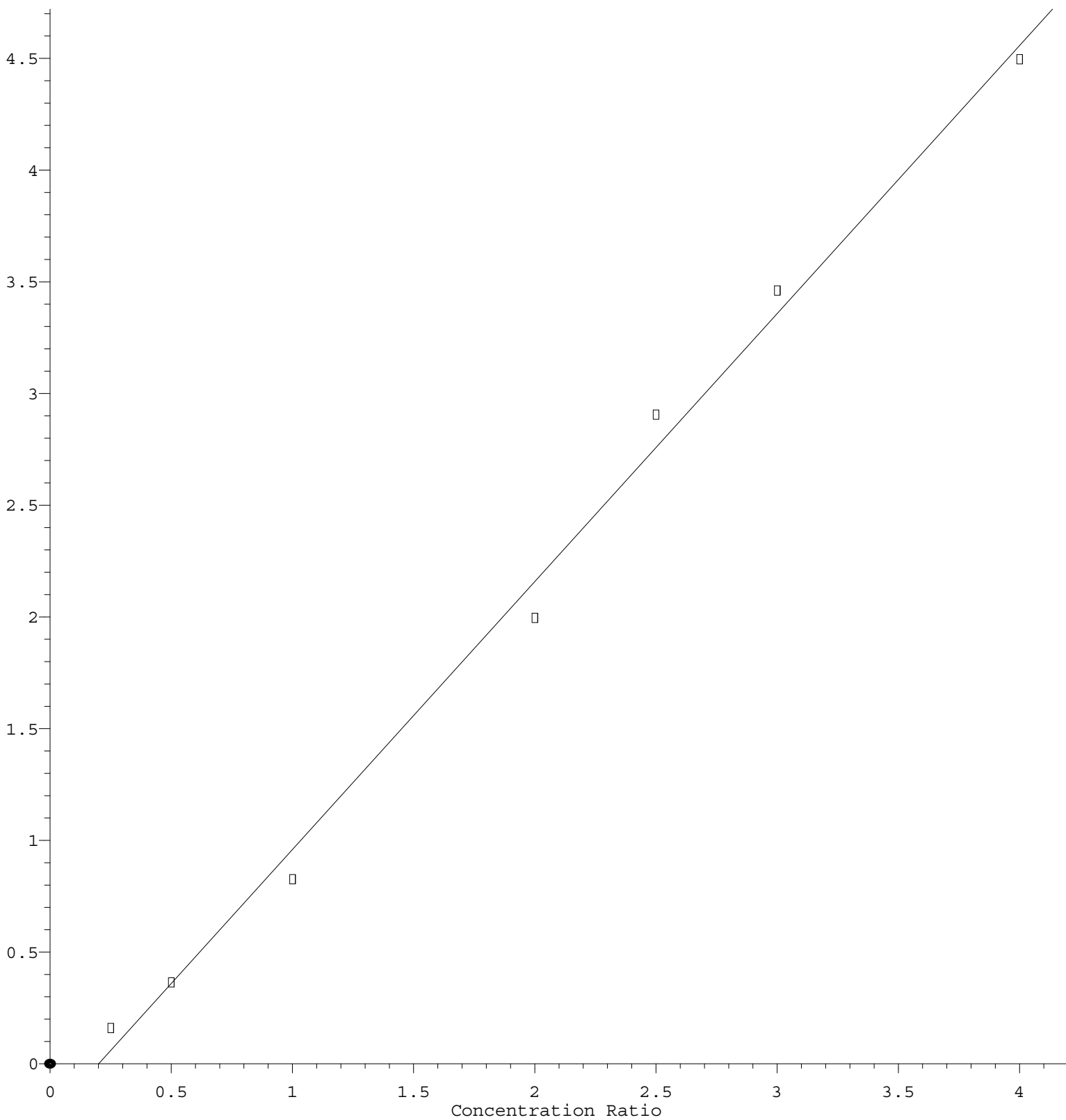
Atrazine



Response = 1.698e-001 * Amt - 2.517e-002
 Coef of Det (r^2) = 0.996051 Curve Fit: Linear
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Di-n-butylphthalate

Response Ratio



$$\text{Response} = 1.200\text{e}+000 * \text{Amt} - 2.412\text{e}-001$$

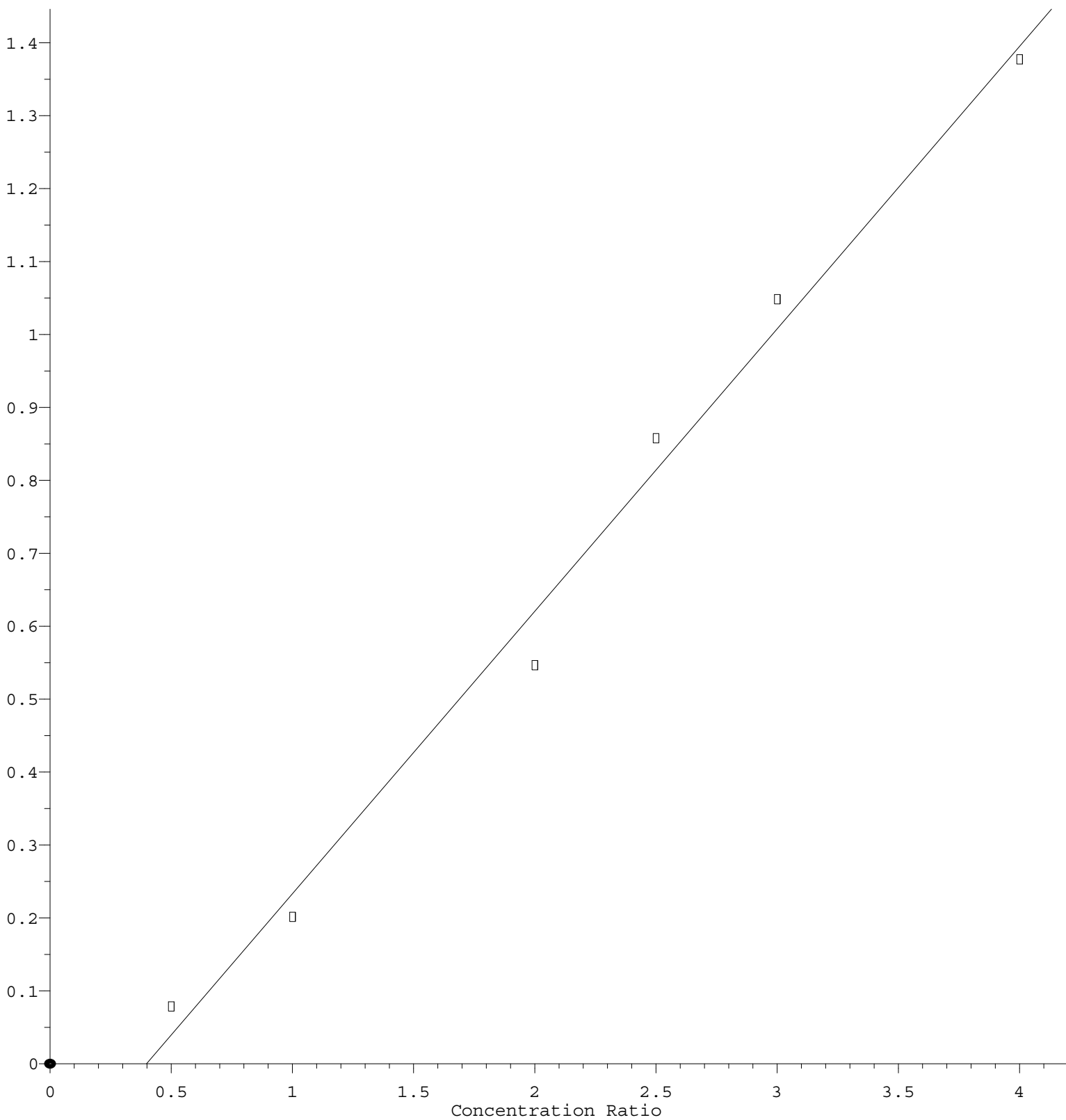
Coef of Det (r^2) = 0.994562 Curve Fit: Linear

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3,3'-Dichlorobenzidine

Response Ratio



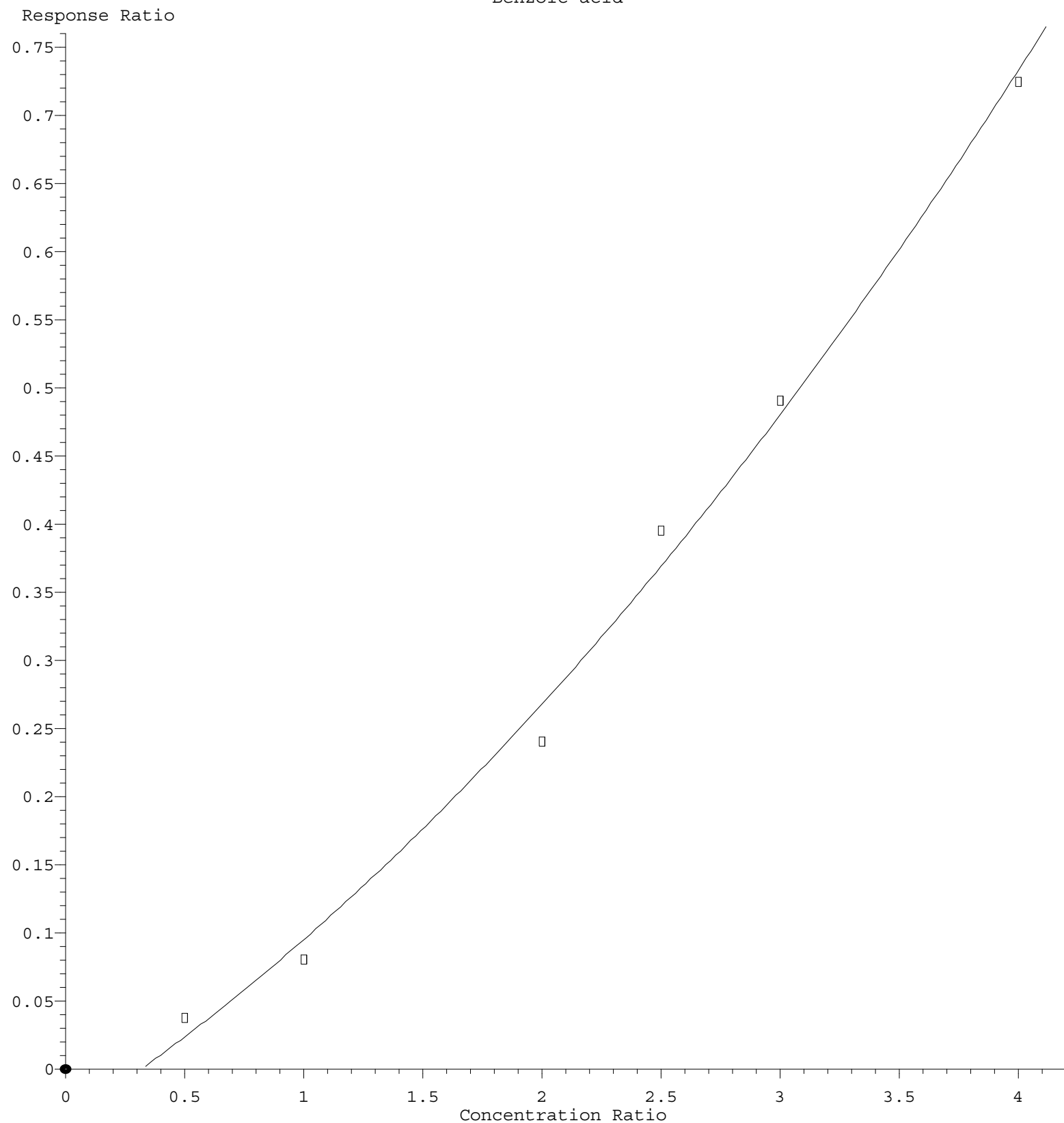
$$\text{Response} = 3.873\text{e-}001 * \text{Amt} - 1.541\text{e-}001$$

Coef of Det (r^2) = 0.990602 Curve Fit: Linear

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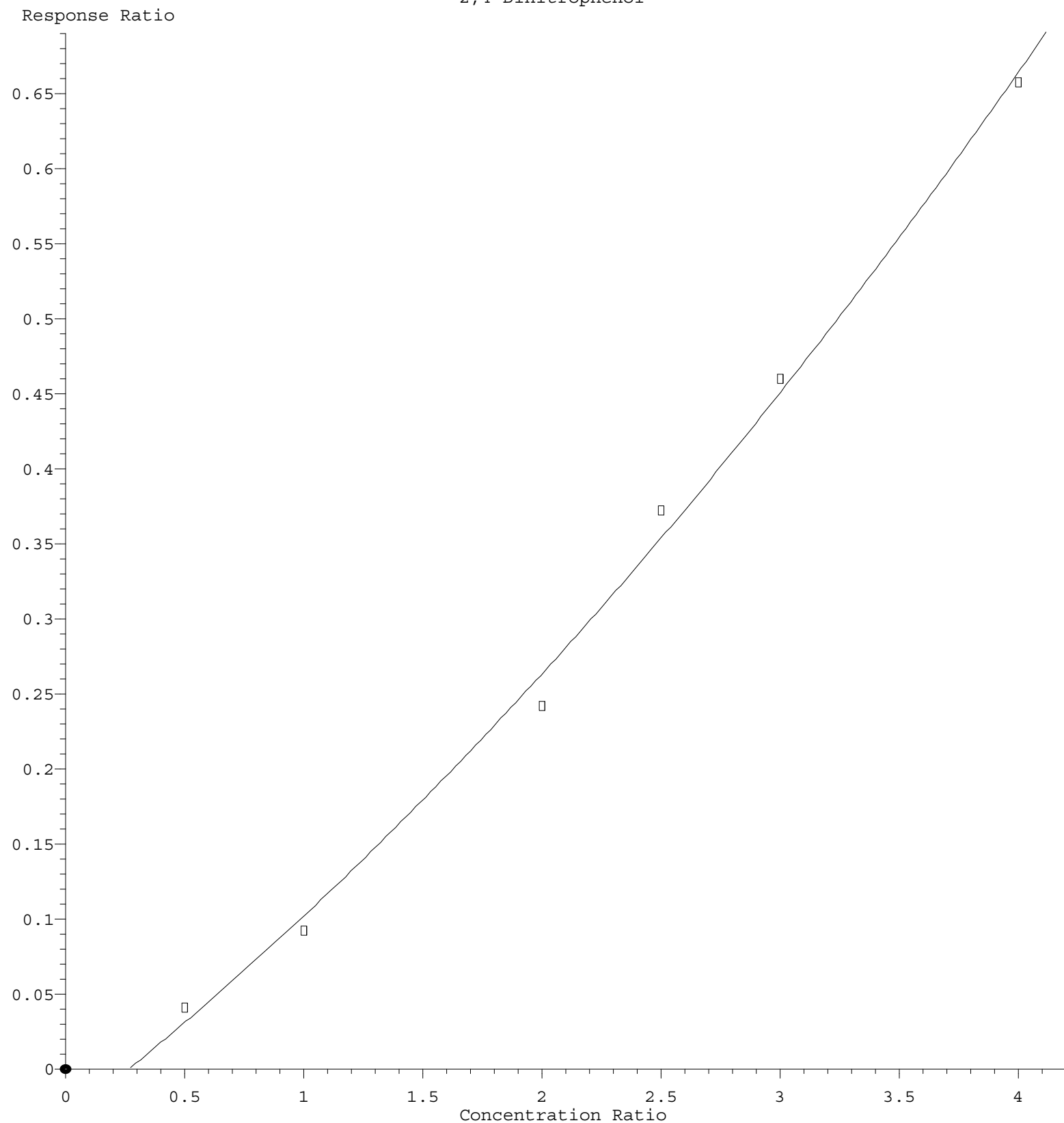
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Benzoic acid



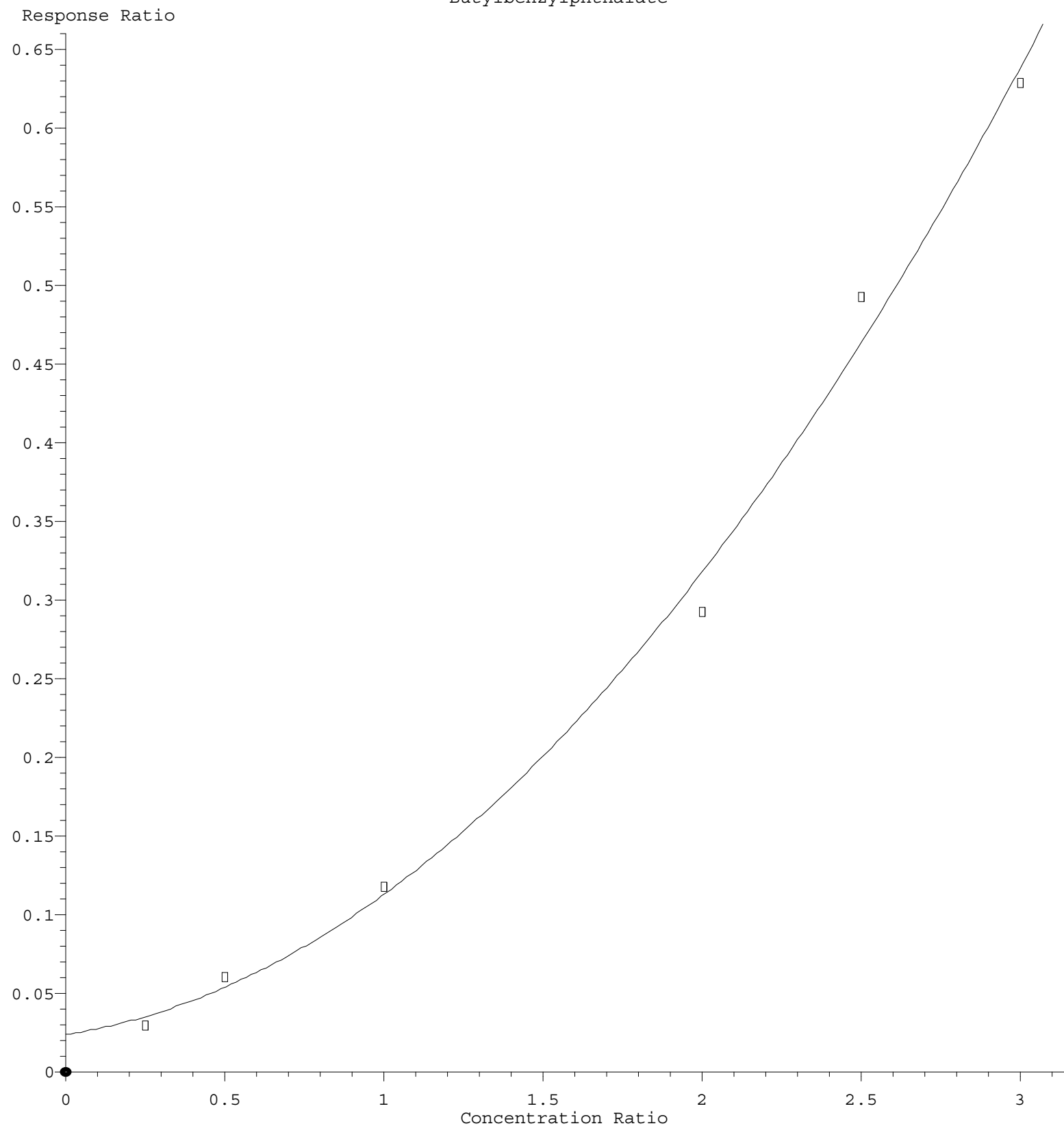
$R = 1.997e-002 A^2 + 1.128e-001 A - 3.777e-002$
 Coef of Det (r^2) = 0.994096 Curve Fit: Quadratic
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2,4-Dinitrophenol



$R = 1.302e-002 A^2 + 1.223e-001 A - 3.332e-002$
 Coef of Det (r^2) = 0.995866 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112122.M
 Calibration Table Last Updated: Mon Nov 21 23:51:17 2022

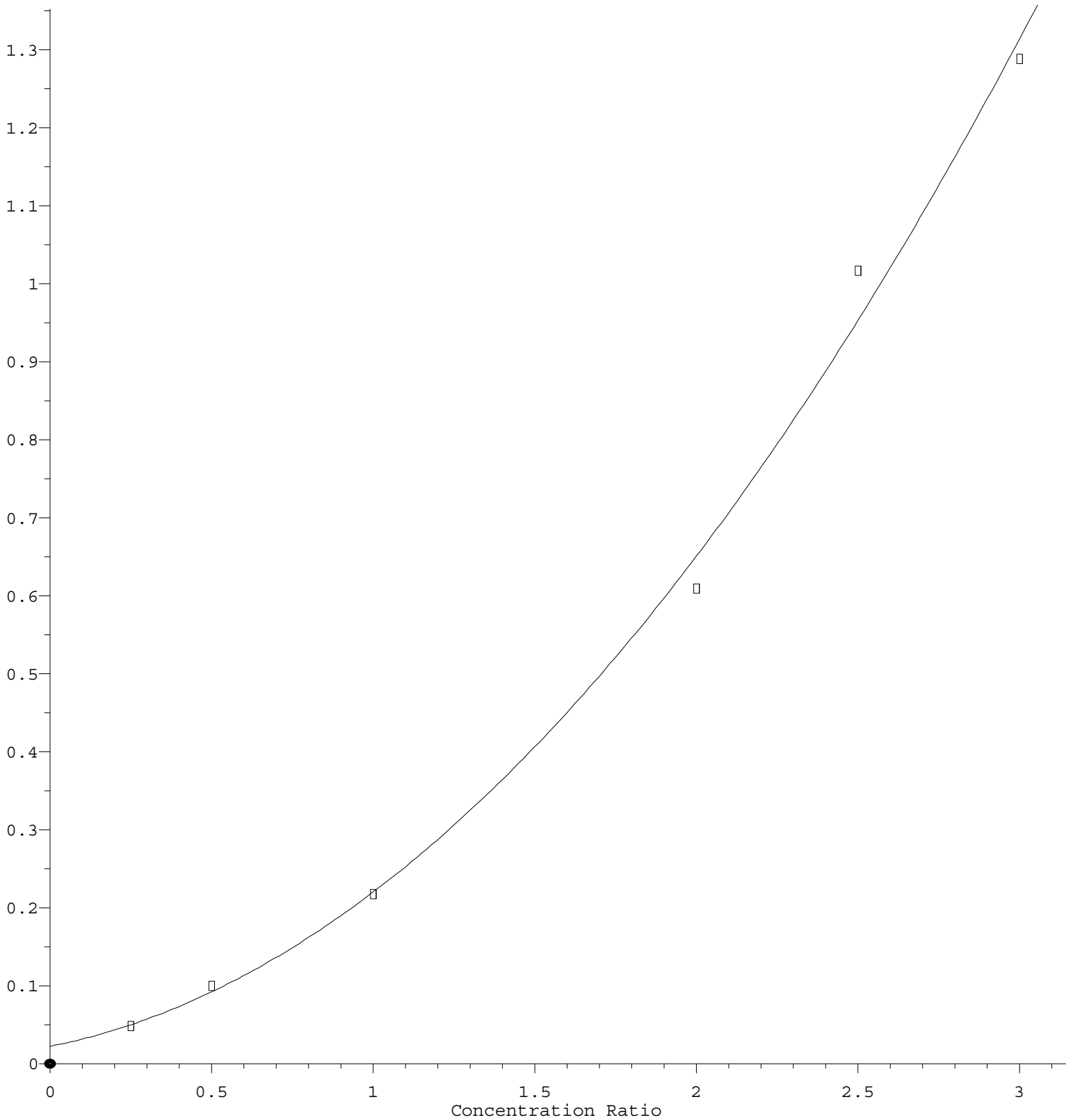
Butylbenzylphthalate



$R = 5.790e-002 A^2 + 3.115e-002 A + 2.376e-002$
 Coef of Det (r^2) = 0.994472 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112122.M
 Calibration Table Last Updated: Mon Nov 21 23:51:17 2022

Bis(2-ethylhexyl)phthalate

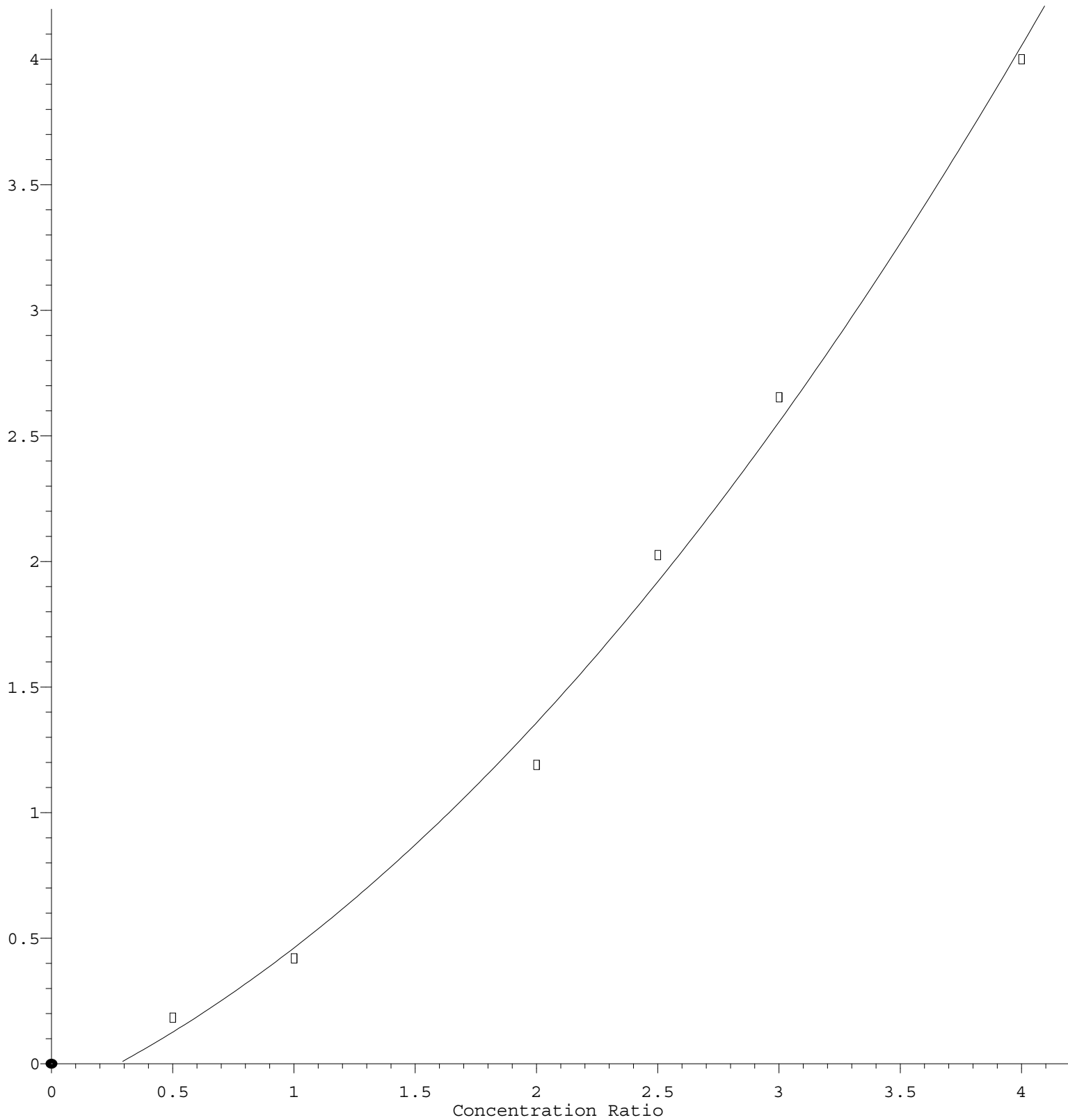
Response Ratio



$R = 1.164e-001 A^2 + 8.134e-002 A + 2.233e-002$
 Coef of Det (r^2) = 0.995134 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112122.M
 Calibration Table Last Updated: Mon Nov 21 23:51:17 2022

Di-n-octyl phthalate

Response Ratio



$R = 1.504e-001 A^2 + 4.454e-001 A - 1.346e-001$
 Coef of Det (r^2) = 0.994562 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP112122.M
 Calibration Table Last Updated: Mon Nov 21 23:51:17 2022