

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG030325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Mar 04 08:17:09 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BG064034.D 5 =BG064035.D 10 =BG064036.D 20 =BG064037.D 40 =BG064038.D 50 =BG064039.D 60 =BG064040.D 80 =BG064041.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.673	0.578	0.619	0.547	0.584	0.578	0.510	0.584	8.88
3)	Pyridine		1.408	1.470	1.489	1.387	1.284	1.362	1.297	1.385	5.68
4)	n-Nitrosodimet...		1.009	0.956	1.010	1.015	1.033	1.051	1.001	1.011	2.91
5) S	2-Fluorophenol		0.953	1.000	1.182	1.203	1.270	1.292	1.263	1.166	11.64
6)	Aniline		1.570	1.699	1.808	1.817	1.757	1.886	1.760	1.757	5.75
7) S	Phenol-d6		1.247	1.359	1.610	1.749	1.788	1.897	1.864	1.645	15.38
8)	2-Chlorophenol		0.892	1.001	1.235	1.290	1.388	1.458	1.419	1.240	17.49
9)	Benzaldehyde		1.121	1.117	1.121	0.998	0.929	0.839	0.738	0.981	15.57
10) C	Phenol		1.327	1.485	1.673	1.817	1.803	1.953	1.934	1.713	13.66
11)	bis(2-Chloroet...		1.325	1.267	1.485	1.487	1.476	1.474	1.435	1.421	6.25
12)	1,3-Dichlorobe...		1.495	1.401	1.538	1.480	1.481	1.506	1.436	1.477	3.08
13) C	1,4-Dichlorobe...		1.582	1.435	1.593	1.482	1.534	1.569	1.490	1.526	3.90
14)	1,2-Dichlorobe...		1.423	1.381	1.484	1.450	1.479	1.511	1.474	1.457	2.98
15)	Benzyl Alcohol			0.991	1.215	1.353	1.424	1.560	1.556	1.350	16.19
16)	2,2'-oxybis(1-...		2.891	2.978	3.185	3.259	3.336	3.402	3.360	3.201	6.16
17)	2-Methylphenol		0.892	0.946	1.083	1.250	1.250	1.356	1.294	1.153	15.67
18)	Hexachloroethane		0.427	0.447	0.489	0.525	0.554	0.566	0.573	0.512	11.49
19) P	n-Nitroso-di-n...	0.986	1.080	1.213	1.278	1.417	1.400	1.506	1.428	1.289	14.26
20)	3+4-Methylphenols			1.263	1.437	1.725	1.731	1.913	1.858	1.654	15.28
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.543	0.521	0.564	0.551	0.563	0.569	0.553	0.552	2.92
23) S	Nitrobenzene-d5		0.243	0.271	0.339	0.367	0.380	0.407	0.402	0.344	18.66
24)	Nitrobenzene		0.270	0.310	0.358	0.381	0.395	0.411	0.417	0.363	15.09
25)	Isophorone		0.607	0.666	0.737	0.762	0.775	0.797	0.775	0.731	9.49
26) C	2-Nitrophenol		0.051	0.050	0.069	0.084	0.101	0.115		0.078	33.98#
27)	2,4-Dimethylph...		0.136	0.157	0.186	0.204	0.217	0.232	0.229	0.194	18.86
28)	bis(2-Chloroet...		0.413	0.406	0.461	0.474	0.459	0.476	0.457	0.450	6.26
29) C	2,4-Dichloroph...		0.148	0.183	0.230	0.265	0.275	0.298	0.296	0.242	23.91
30)	1,2,4-Trichlor...		0.320	0.315	0.342	0.325	0.323	0.331	0.327	0.326	2.65
31)	Naphthalene		1.077	1.018	1.124	1.082	1.073	1.097	1.071	1.077	2.97
32)	Benzoic acid			0.053	0.083	0.111	0.137	0.158	0.183	0.121	40.13
33)	4-Chloroaniline		0.340	0.375	0.402	0.415	0.413	0.433	0.414	0.399	7.81
34) C	Hexachlorobuta...		0.197	0.213	0.215	0.212	0.217	0.219	0.211	0.212	3.38
35)	Caprolactam			0.069	0.090	0.094	0.103	0.115	0.112	0.097	17.49
36) C	4-Chloro-3-met...		0.237	0.281	0.329	0.371	0.377	0.409	0.388	0.342	18.32
37)	2-Methylnaphth...		0.741	0.781	0.770	0.778	0.785	0.806	0.781	0.777	2.52
38)	1-Methylnaphth...		0.755	0.764	0.780	0.777	0.776	0.802	0.777	0.776	1.89

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39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.551	0.534	0.558	0.566	0.557	0.556	0.565	0.555	1.94
41) P	Hexachlorocycl...		0.108	0.128	0.159	0.156	0.164	0.174	0.148	16.63
42) S	2,4,6-Tribromo...	0.104	0.133	0.165	0.202	0.210	0.229	0.234	0.182	27.36
43) C	2,4,6-Trichlor...	0.171	0.211	0.260	0.324	0.329	0.357	0.366	0.288	26.17
44)	2,4,5-Trichlor...	0.207	0.238	0.305	0.371	0.370	0.393	0.405	0.327	24.06
45) S	2-Fluorobiphenyl	1.328	1.295	1.362	1.361	1.287	1.284	1.285	1.315	2.70
46)	1,1'-Biphenyl	1.475	1.509	1.554	1.596	1.494	1.531	1.518	1.525	2.63
47)	2-Chloronaphth...	1.067	1.050	1.121	1.131	1.089	1.111	1.113	1.097	2.72
48)	2-Nitroaniline	0.132	0.168	0.221	0.293	0.316	0.359	0.383	0.267	35.73
49)	Acenaphthylene	1.645	1.661	1.768	1.809	1.720	1.768	1.752	1.732	3.48
50)	Dimethylphthalate	0.913	1.112	1.292	1.465	1.422	1.495	1.475	1.311	16.92
51)	2,6-Dinitrotol...	0.124	0.177	0.217	0.282	0.277	0.293	0.300	0.238	28.32
52) C	Acenaphthene	1.126	1.150	1.195	1.231	1.174	1.215	1.207	1.186	3.15
53)	3-Nitroaniline	0.118	0.186	0.239	0.287	0.289	0.315	0.313	0.250	29.60
54) P	2,4-Dinitrophenol		0.053	0.064	0.078	0.079	0.100	0.113	0.081	27.11
55)	Dibenzofuran	1.893	1.916	1.958	1.949	1.833	1.885	1.834	1.895	2.64
56) P	4-Nitrophenol		0.125	0.166	0.204	0.217	0.241	0.253	0.201	23.94
57)	2,4-Dinitrotol...	0.163	0.225	0.297	0.362	0.380	0.406	0.418	0.322	30.21
58)	Fluorene	1.418	1.485	1.526	1.518	1.426	1.455	1.406	1.462	3.31
59)	2,3,4,6-Tetrac...	0.168	0.234	0.294	0.343	0.344	0.380	0.379	0.306	25.95
60)	Diethylphthalate	0.879	1.160	1.386	1.544	1.541	1.618	1.579	1.387	19.71
61)	4-Chlorophenyl...	0.767	0.751	0.778	0.753	0.704	0.718	0.701	0.739	4.21
62)	4-Nitroaniline	0.155	0.214	0.290	0.309	0.307	0.330	0.327	0.276	23.95
63)	Azobenzene	1.682	1.737	1.798	1.799	1.687	1.742	1.708	1.736	2.78
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...		0.039	0.046	0.058	0.061	0.074	0.083	0.060	27.18
66) c	n-Nitrosodiphe...	0.506	0.519	0.565	0.575	0.564	0.579	0.579	0.555	5.39
67)	4-Bromophenyl-...	0.193	0.200	0.205	0.204	0.206	0.214	0.216	0.205	3.85
68)	Hexachlorobenzene	0.215	0.226	0.235	0.240	0.224	0.229	0.232	0.229	3.61
69)	Atrazine	0.106	0.124	0.143	0.150	0.127	0.122	0.103	0.125	13.89
70) C	Pentachlorophenol		0.072	0.096	0.121	0.126	0.144	0.150	0.118	24.94
71)	Phenanthrene	1.077	1.065	1.087	1.071	1.043	1.060	1.045	1.064	1.50
72)	Anthracene	1.047	1.032	1.079	1.072	1.056	1.058	1.060	1.058	1.47
73)	Carbazole	0.823	0.898	1.006	0.959	0.954	0.975	0.964	0.940	6.48
74)	Di-n-butylphth...	0.542	0.676	0.922	1.012	1.101	1.181	1.172	0.943	26.37
75) C	Fluoranthene	1.210	1.261	1.347	1.226	1.220	1.249	1.211	1.246	3.89
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine		0.165	0.191	0.293	0.265	0.333	0.298	0.257	25.54
78)	Pyrene	1.254	1.286	1.319	1.286	1.264	1.271	1.253	1.276	1.82
79) S	Terphenyl-d14	1.028	1.042	1.041	0.970	0.958	0.945	0.914	0.985	5.24
80)	Butylbenzylphth...	0.158	0.184	0.261	0.332	0.373			0.261	35.25
81)	Benzo(a)anthra...	1.209	1.262	1.315	1.285	1.264	1.300	1.287	1.275	2.71
82)	3,3'-Dichlorob...	0.255	0.297	0.361	0.411	0.407	0.421	0.419	0.367	18.18
83)	Chrysene	1.292	1.233	1.315	1.291	1.263	1.267	1.276	1.277	2.05
84)	Bis(2-ethylhex...	0.251	0.360	0.477	0.581	0.628	0.693	0.728	0.531	33.23
85) c	Di-n-octyl pht...		0.523	0.740	0.922	1.024	1.133	1.230	0.928	28.17

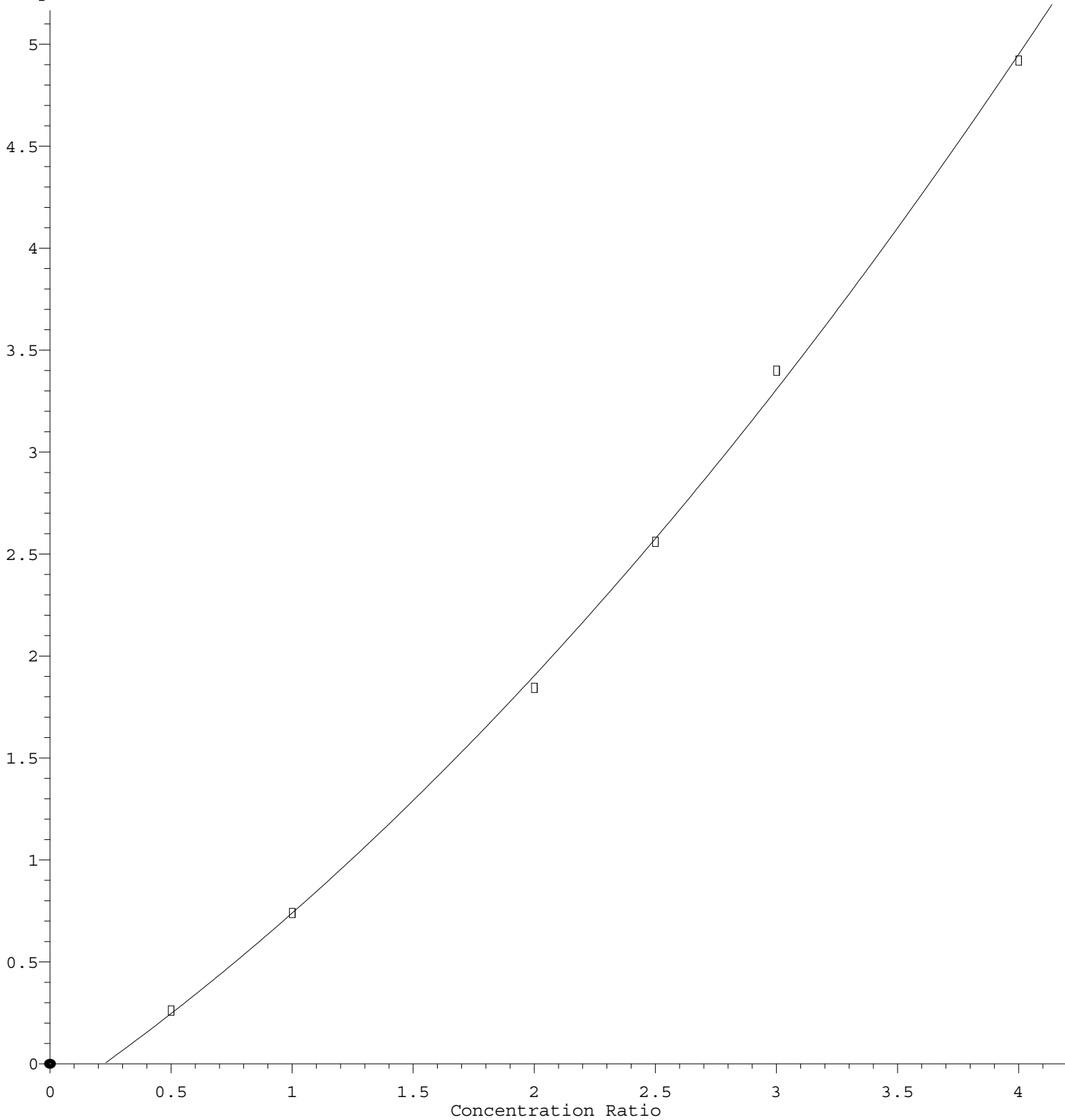
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.303	1.189	1.323	1.355	1.355	1.392	1.388	1.329	5.24
88)	Benzo(b)fluora...	1.099	1.101	1.222	1.226	1.217	1.261	1.238	1.195	5.57
89)	Benzo(k)fluora...	1.147	1.178	1.207	1.272	1.240	1.238	1.231	1.216	3.48
90) C	Benzo(a)pyrene	0.989	0.998	1.072	1.090	1.088	1.110	1.112	1.066	4.79
91)	Dibenzo(a,h)an...	1.041	0.970	1.115	1.125	1.126	1.152	1.157	1.098	6.18
92)	Benzo(g,h,i)pe...	1.144	1.042	1.167	1.158	1.154	1.173	1.167	1.143	4.01

(#) = Out of Range

Di-n-octyl phthalate

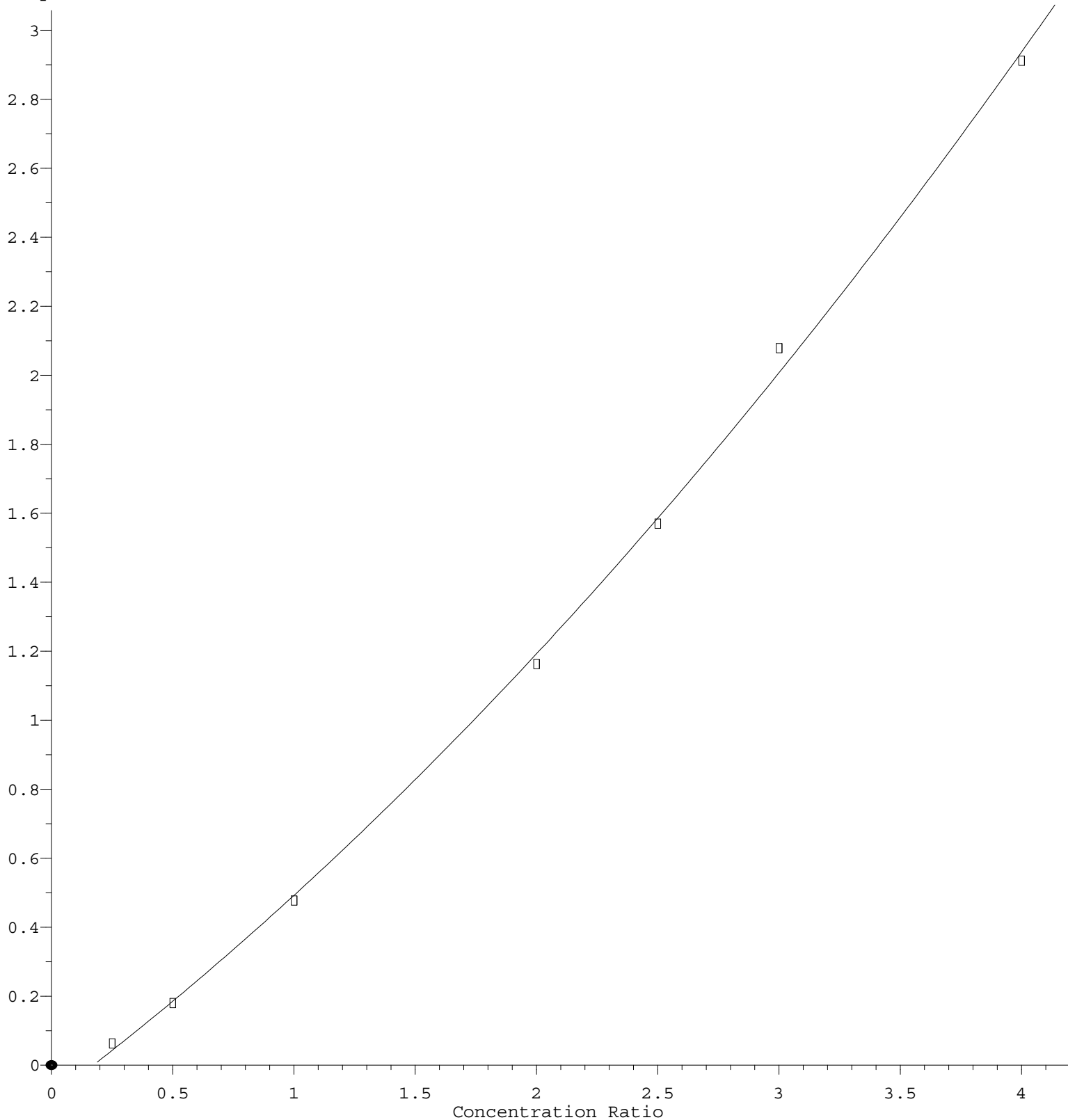
Response Ratio



$R = 1.195e-001 A^2 + 8.061e-001 A - 1.864e-001$
 Coef of Det (r^2) = 0.999106 Curve Fit: Quadratic
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Bis(2-ethylhexyl)phthalate

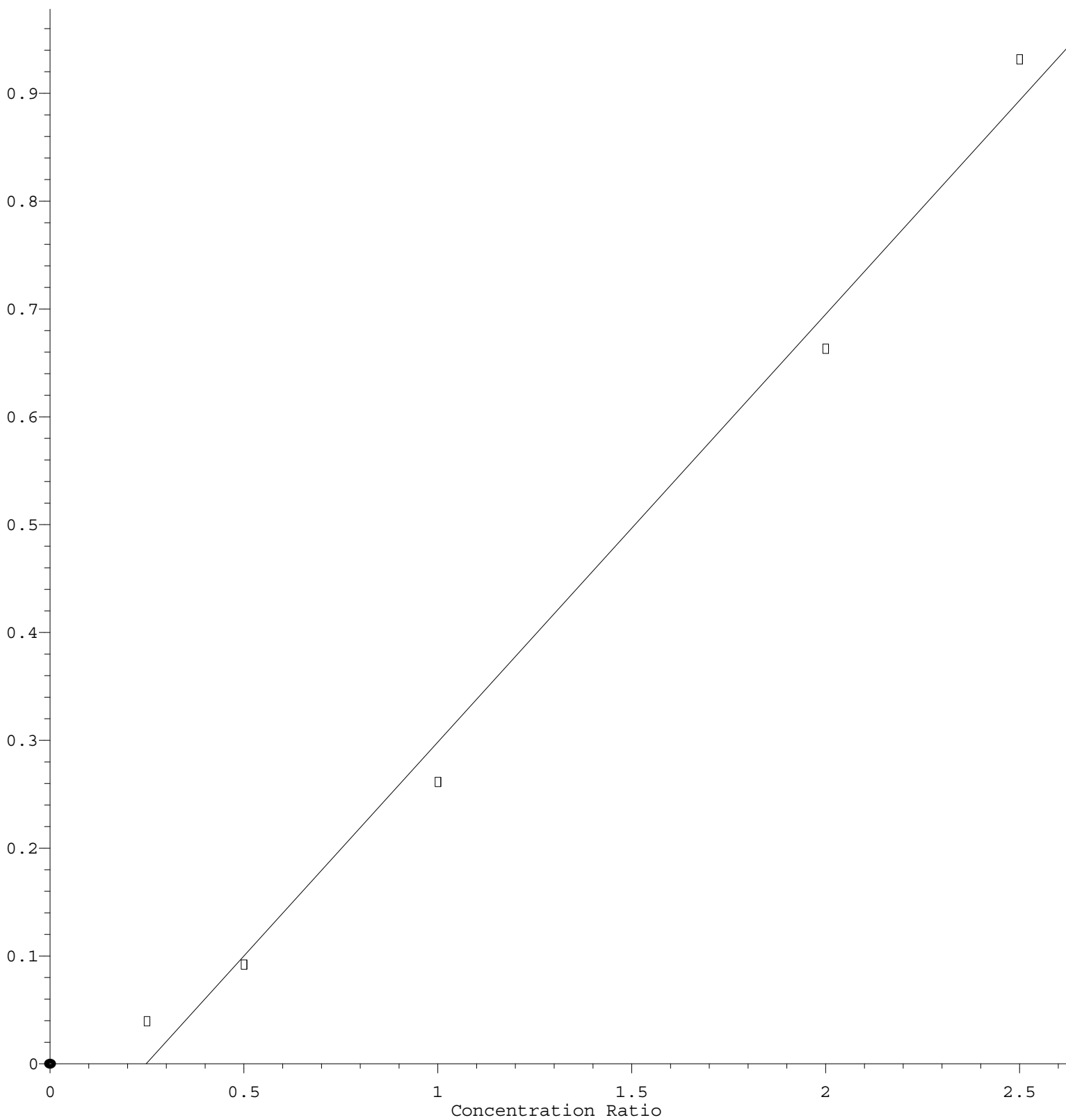
Response Ratio



$R = 5.744e-002 A^2 + 5.277e-001 A - 9.277e-002$
 Coef of Det (r^2) = 0.998878 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030325.M
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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 3.968\text{e-}001 * \text{Amt} - 9.848\text{e-}002$$

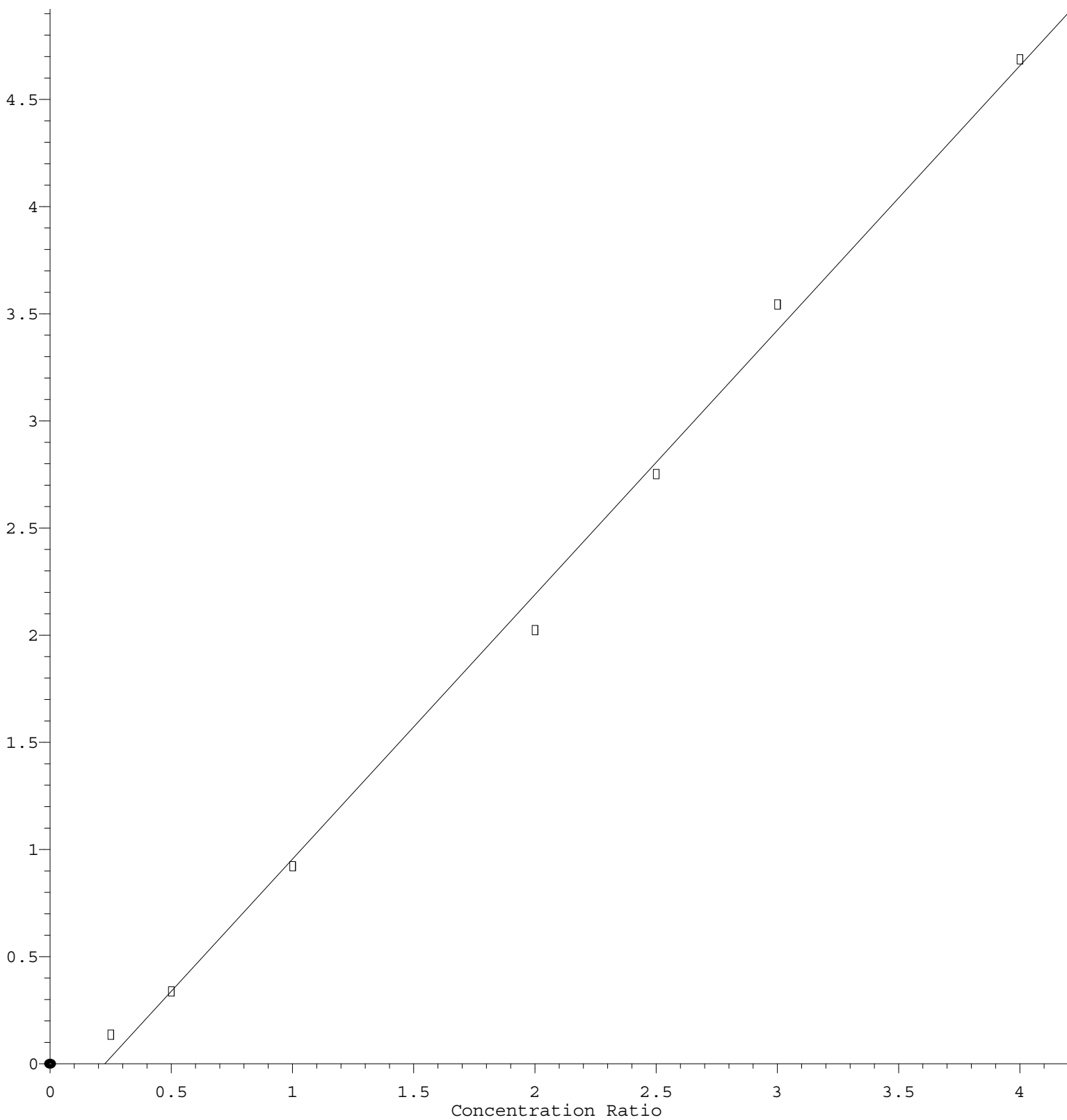
Coef of Det (r^2) = 0.990937 Curve Fit: Linear

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Di-n-butylphthalate

Response Ratio



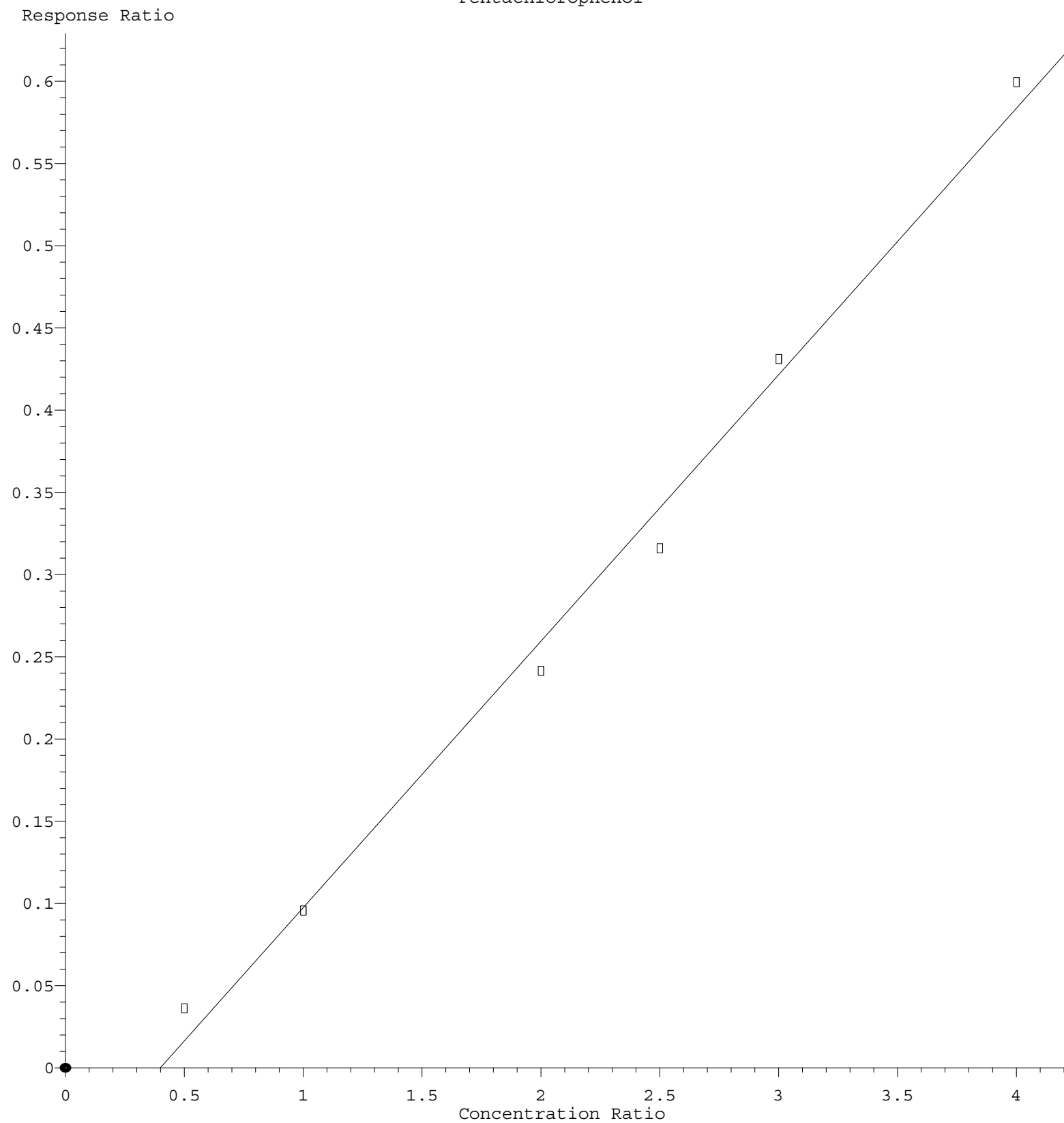
$$\text{Response} = 1.234\text{e}+000 * \text{Amt} - 2.788\text{e}-001$$

Coef of Det (r^2) = 0.996690 Curve Fit: Linear

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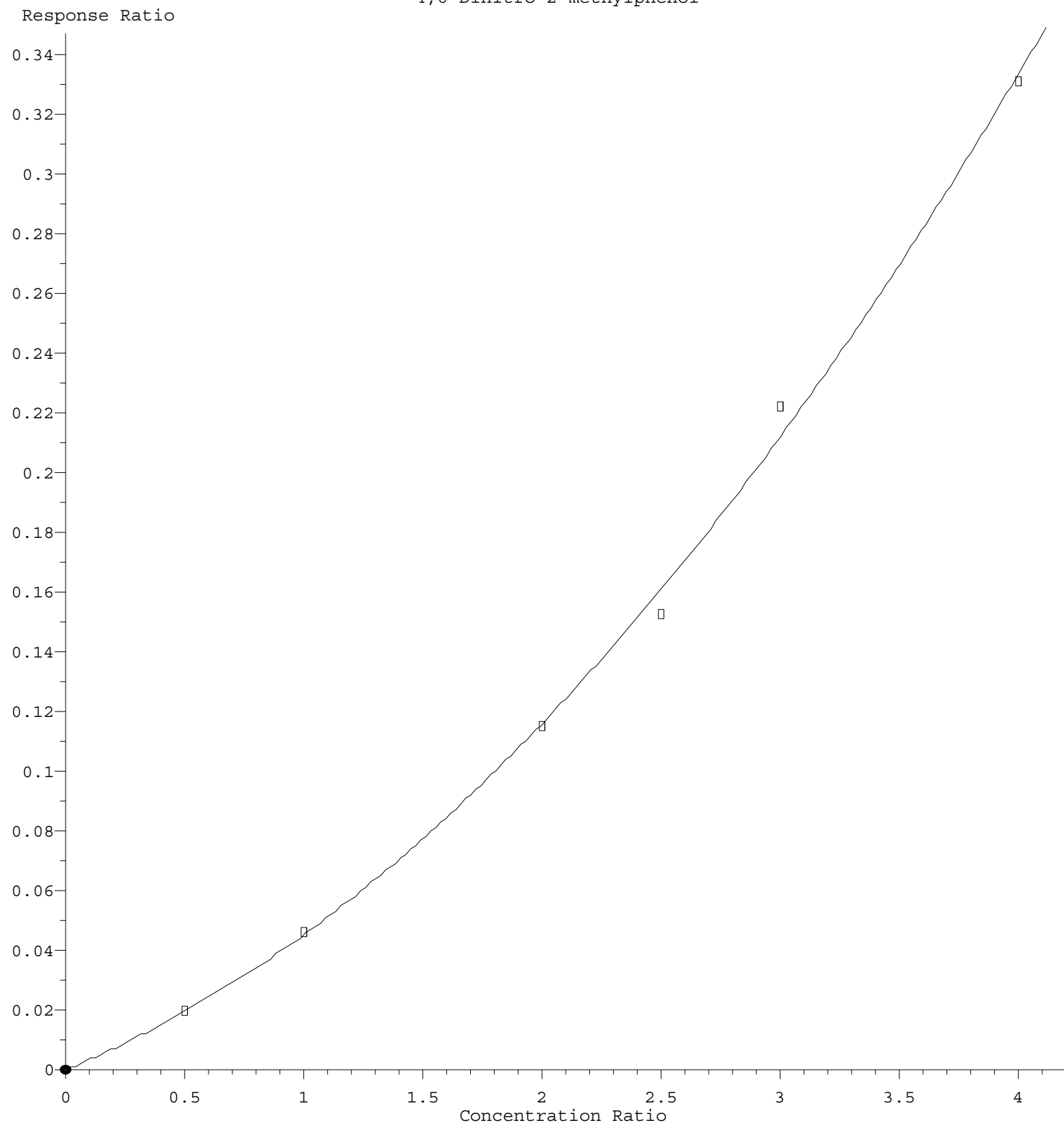
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Pentachlorophenol



$\text{Response} = 1.622\text{e-}001 * \text{Amt} - 6.475\text{e-}002$
 Coef of Det (r^2) = 0.992466 Curve Fit: Linear
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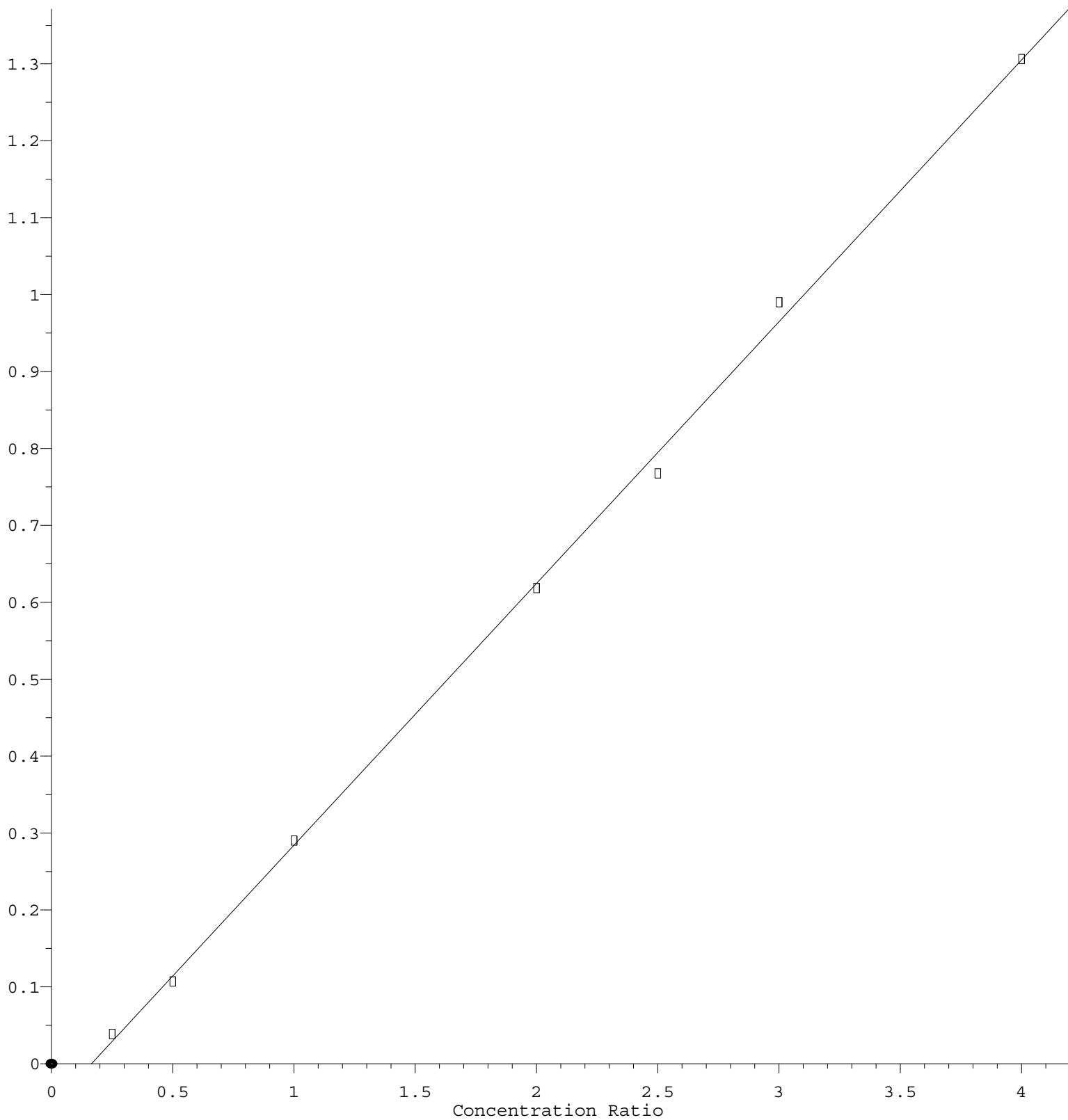
4,6-Dinitro-2-methylphenol



$R = 1.271e-002 A^2 + 3.252e-002 A + 1.101e-005$
Coef of Det (r^2) = 0.997367 Curve Fit: Quadratic
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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.404\text{e-}001 * \text{Amt} - 5.609\text{e-}002$$

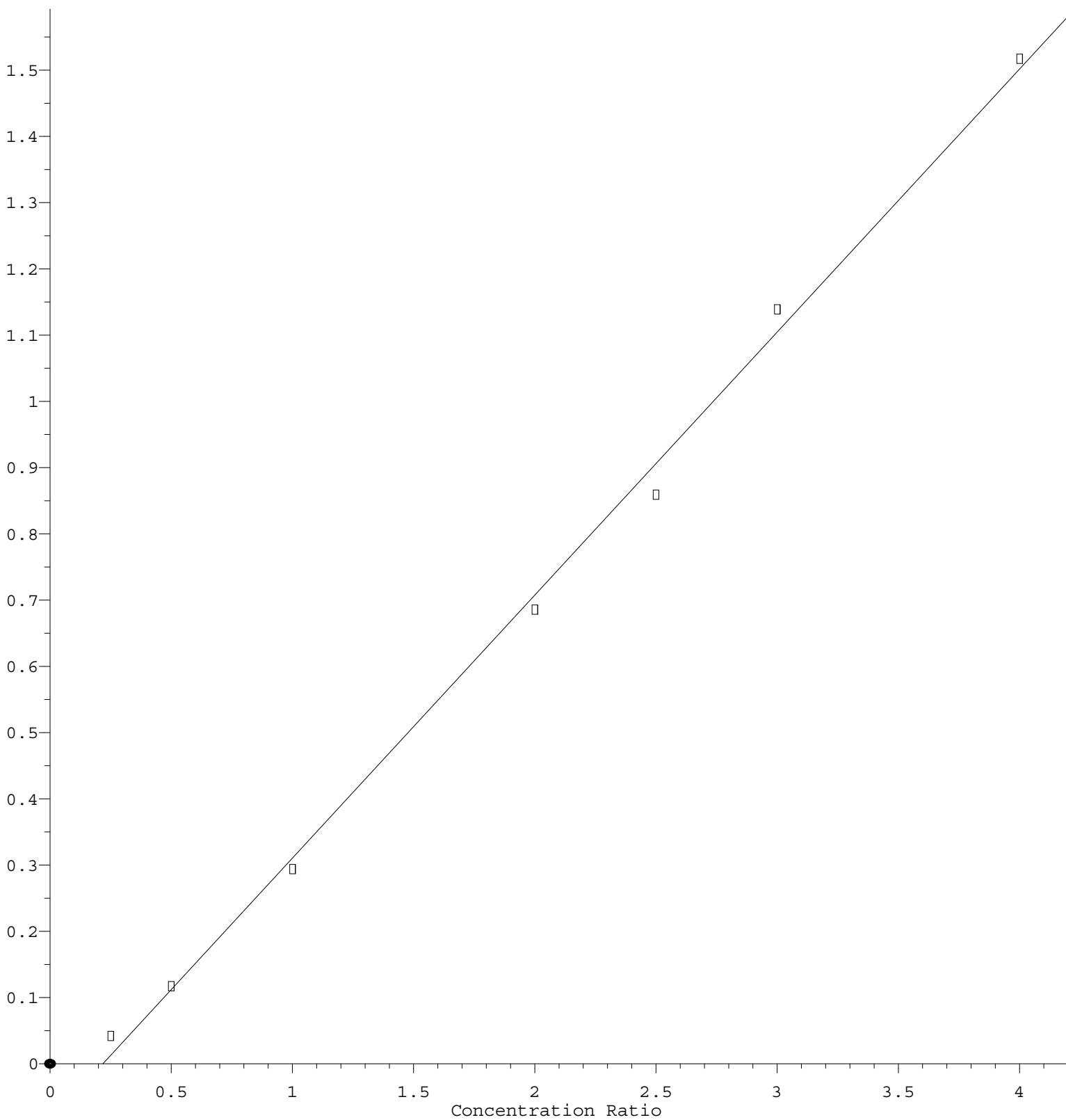
Coef of Det (r^2) = 0.998809 Curve Fit: Linear

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2,3,4,6-Tetrachlorophenol

Response Ratio



$$\text{Response} = 3.970\text{e-}001 * \text{Amt} - 8.656\text{e-}002$$

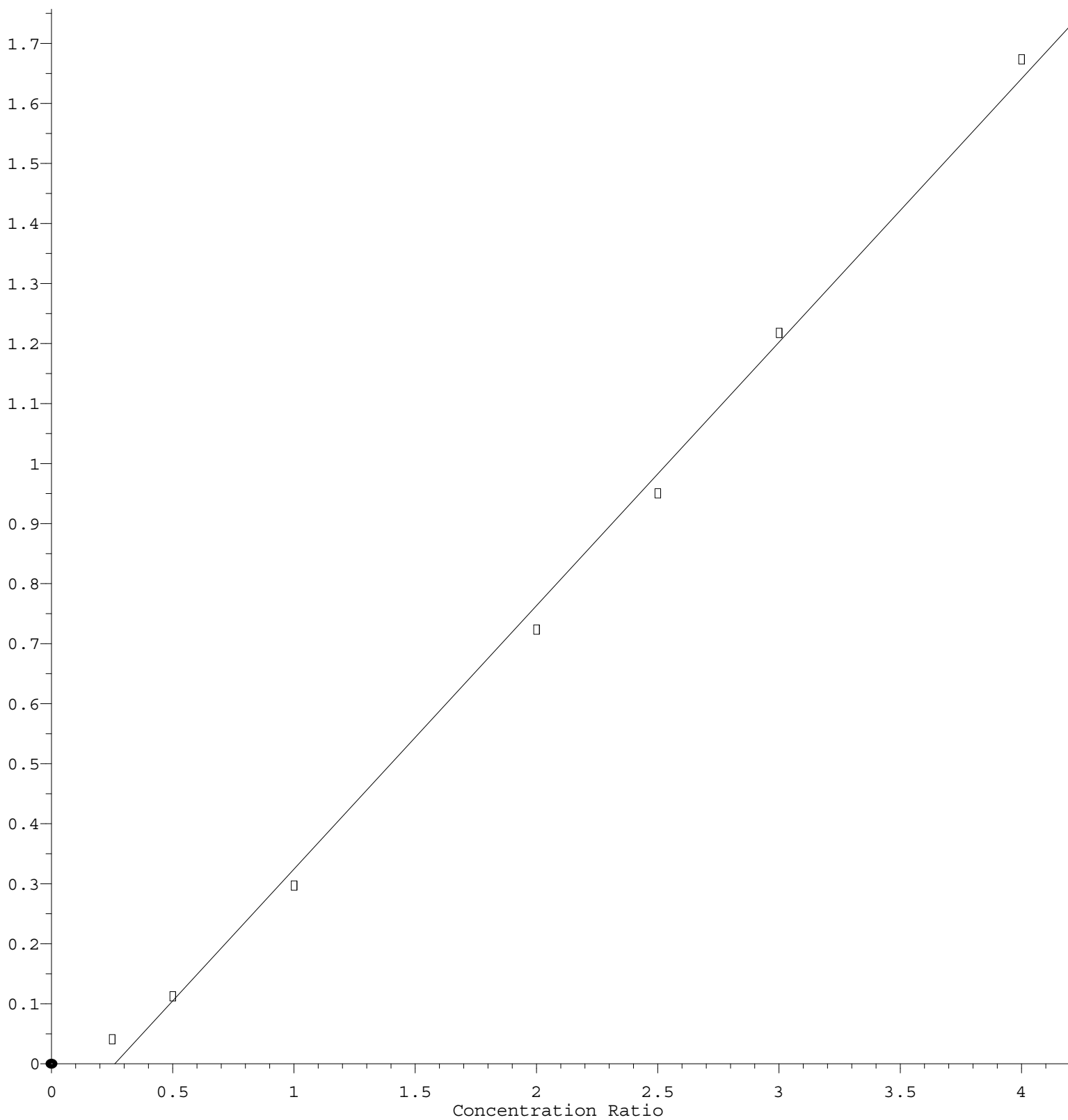
Coef of Det (r^2) = 0.997101 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.390\text{e-}001 * \text{Amt} - 1.145\text{e-}001$$

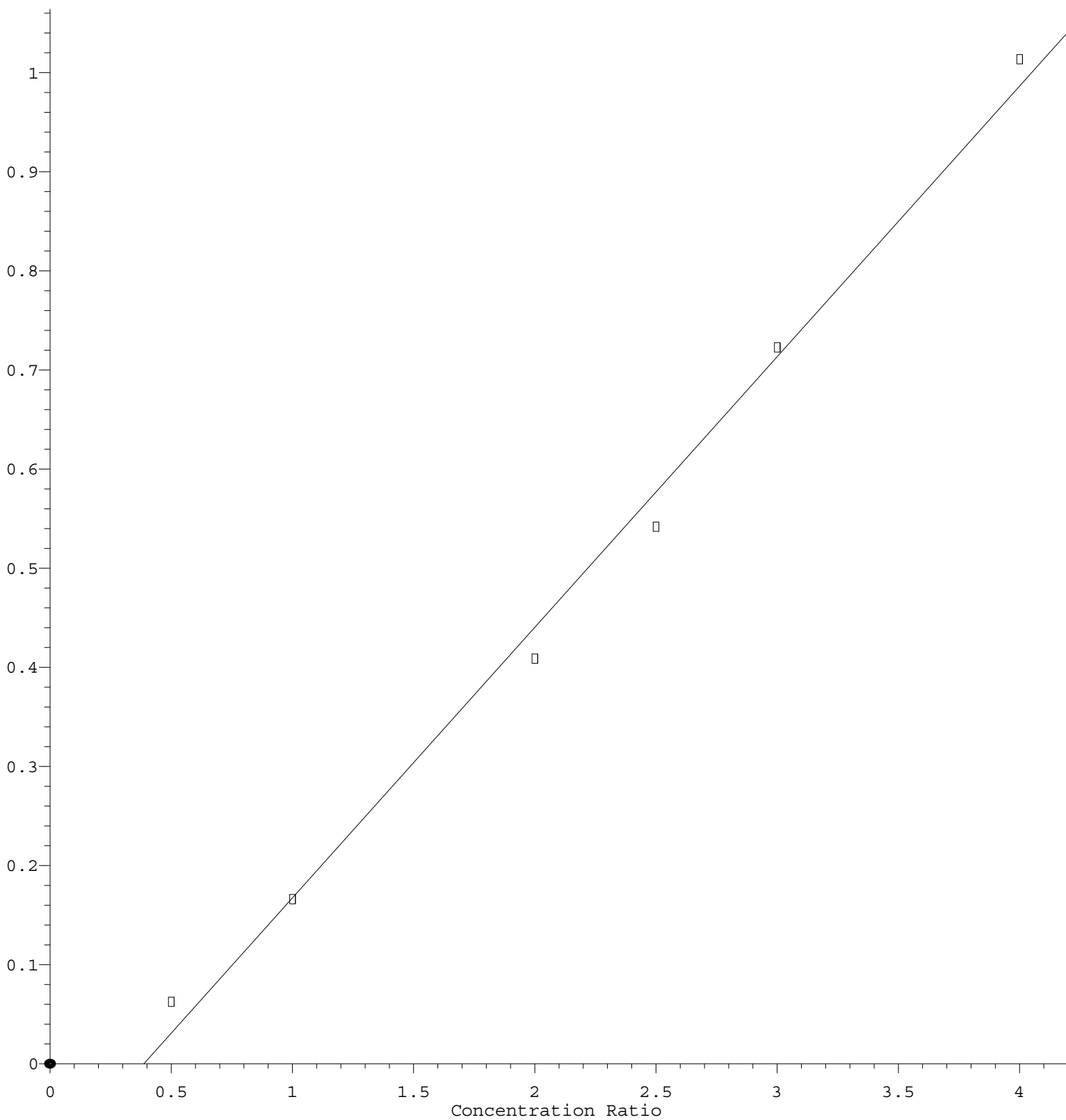
Coef of Det (r^2) = 0.996933 Curve Fit: Linear

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4-Nitrophenol

Response Ratio



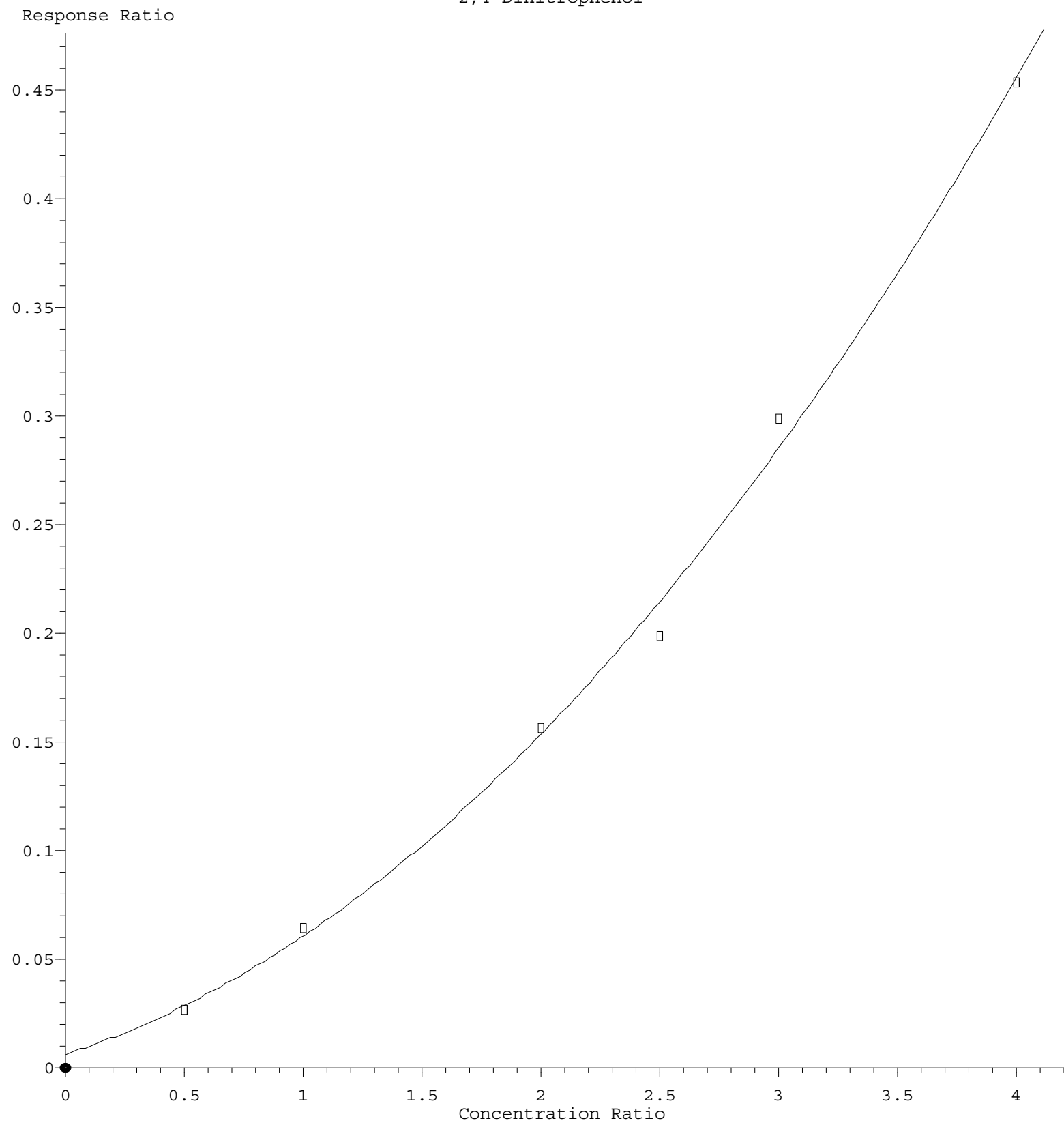
$$\text{Response} = 2.730\text{e-}001 * \text{Amt} - 1.056\text{e-}001$$

Coef of Det (r^2) = 0.993512 Curve Fit: Linear

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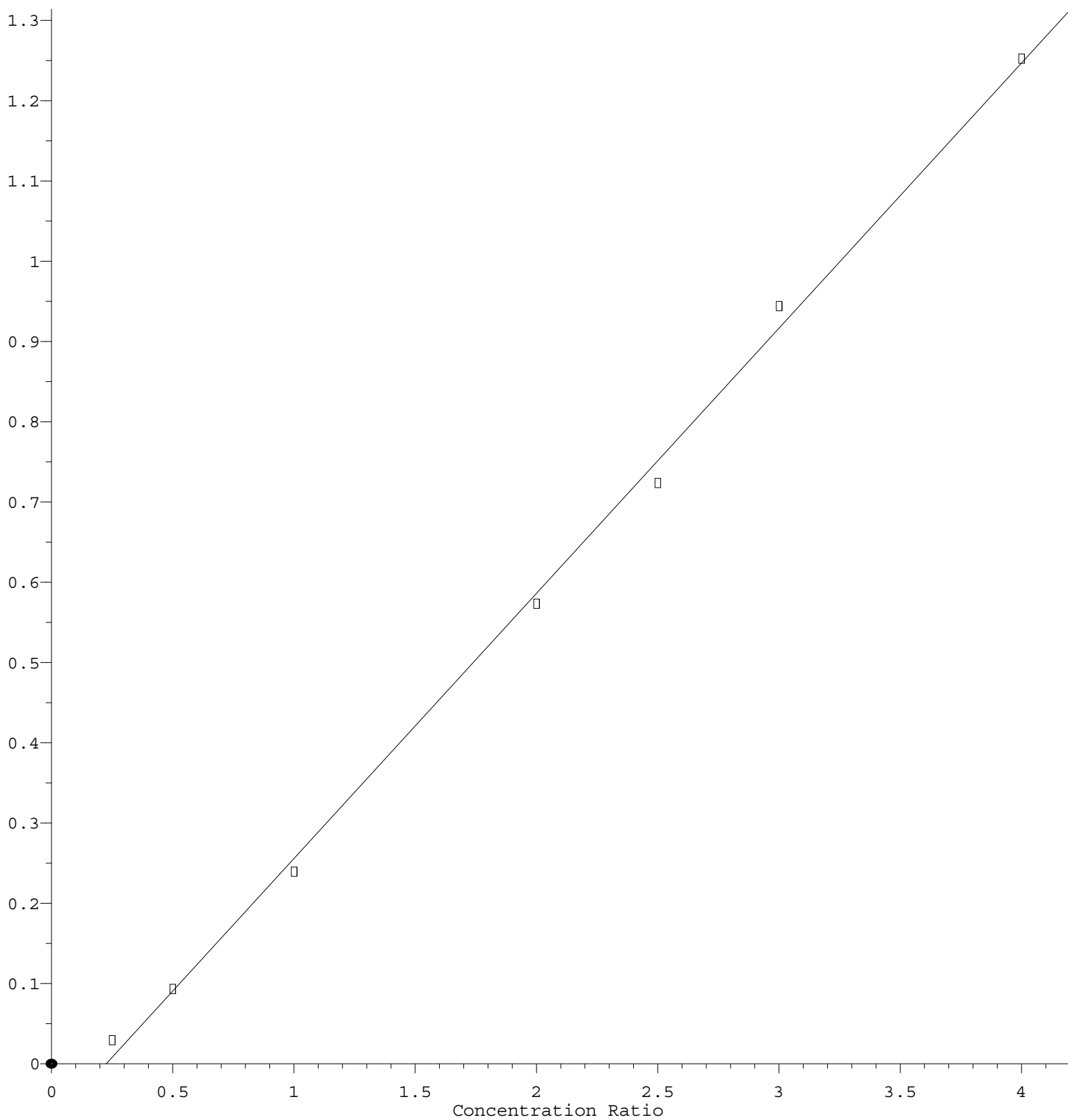
2,4-Dinitrophenol



$R = 1.936e-002 A^2 + 3.491e-002 A + 6.314e-003$
 Coef of Det (r^2) = 0.996283 Curve Fit: Quadratic
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.303\text{e-}001 * \text{Amt} - 7.456\text{e-}002$$

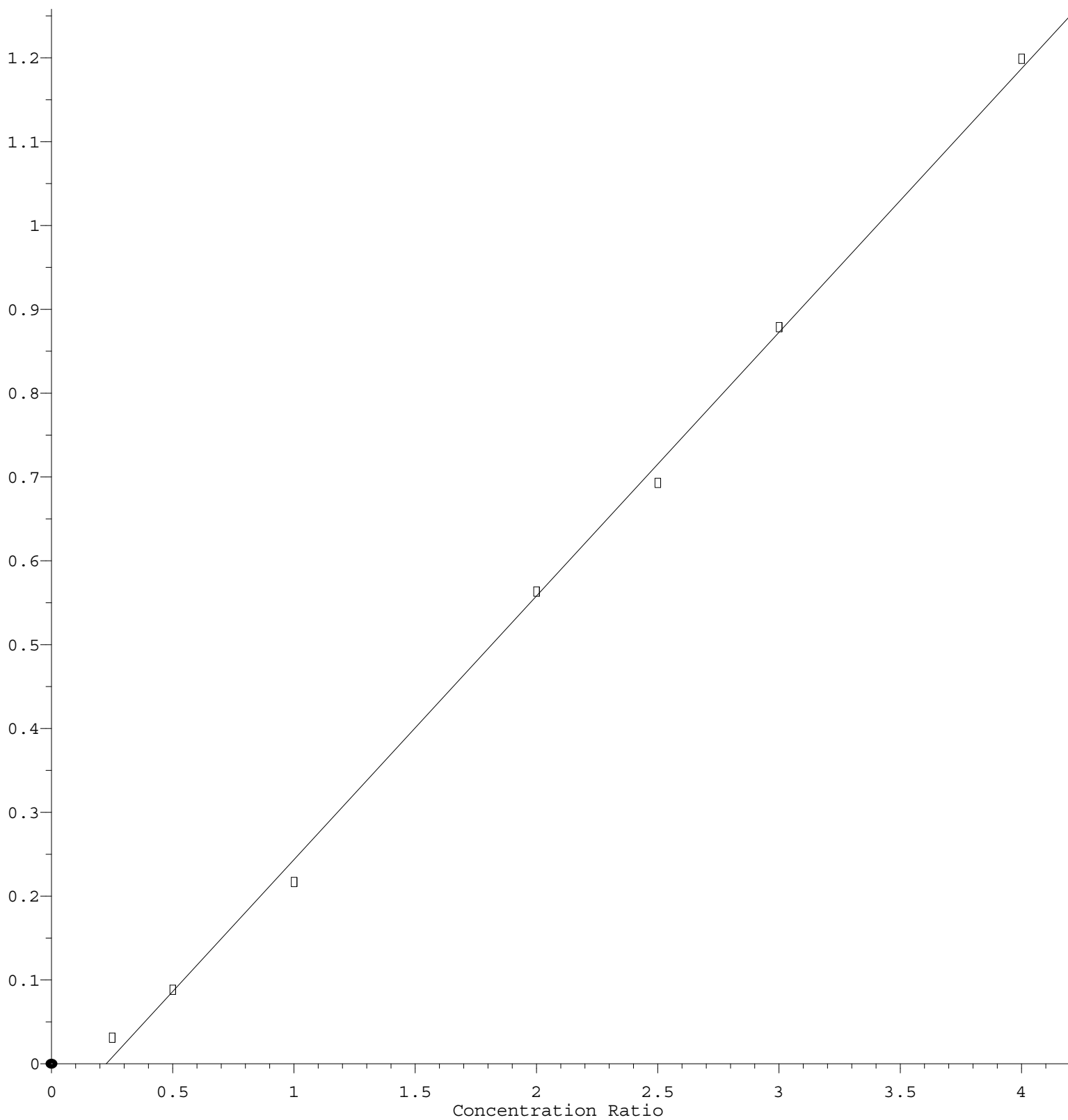
Coef of Det (r^2) = 0.998049 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.146\text{e-}001 * \text{Amt} - 7.118\text{e-}002$$

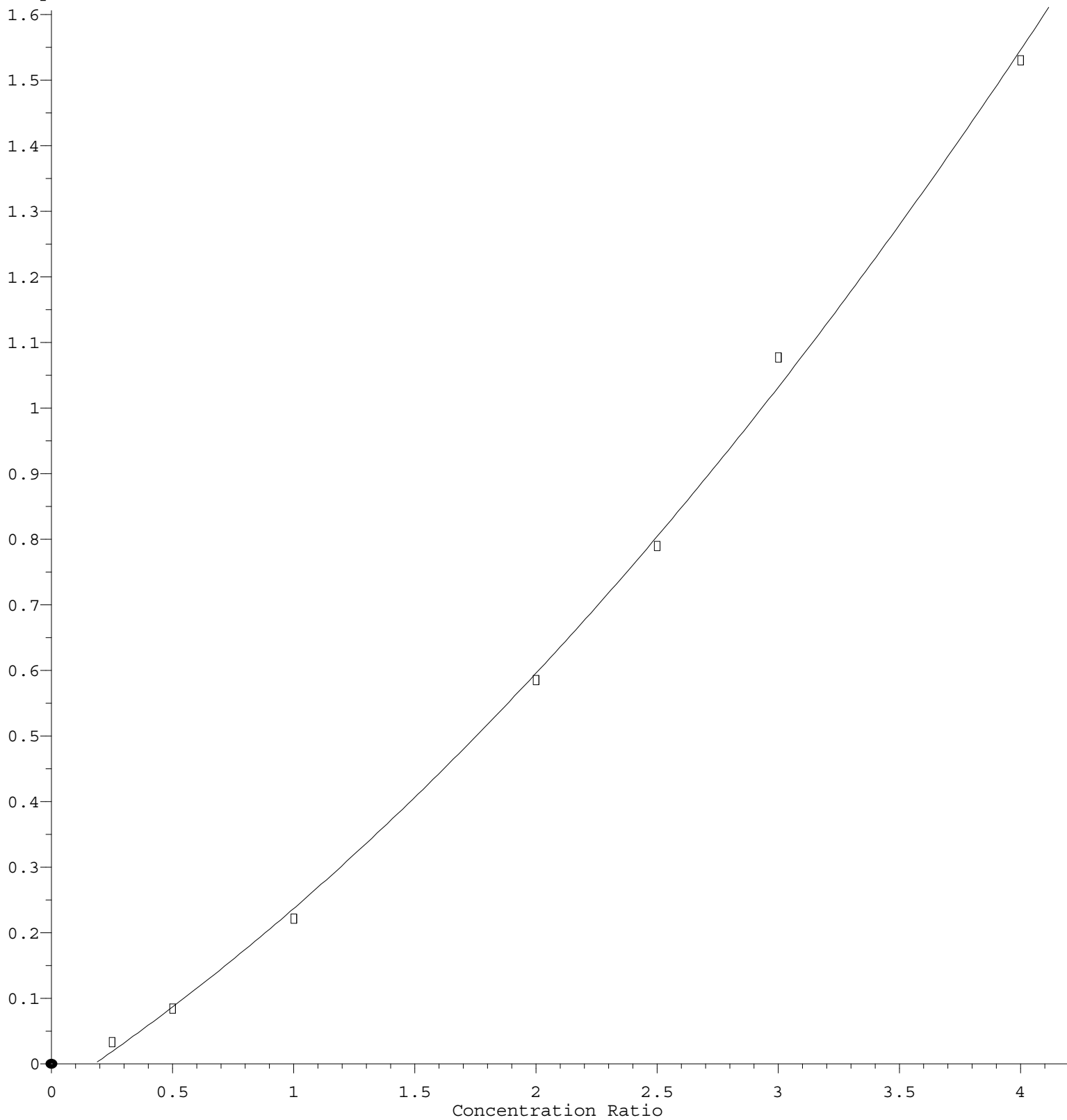
Coef of Det (r^2) = 0.998272 Curve Fit: Linear

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2-Nitroaniline

Response Ratio

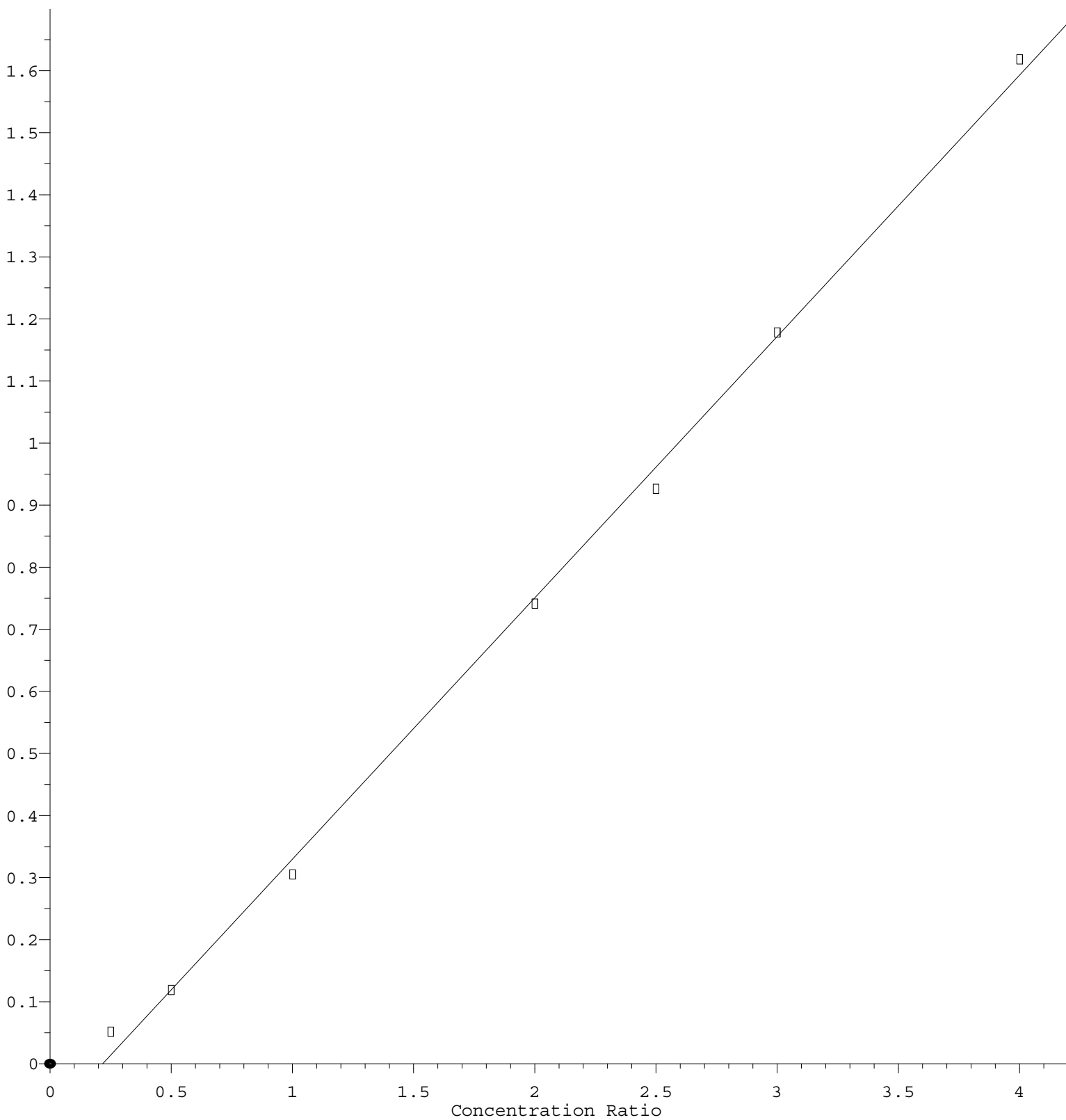
 $R = 3.883e-002 A^2 + 2.423e-001 A - 4.416e-002$ Coef of Det (r^2) = 0.998360 Curve Fit: Quadratic

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2,4,5-Trichlorophenol

Response Ratio



$$\text{Response} = 4.209\text{e-}001 * \text{Amt} - 9.114\text{e-}002$$

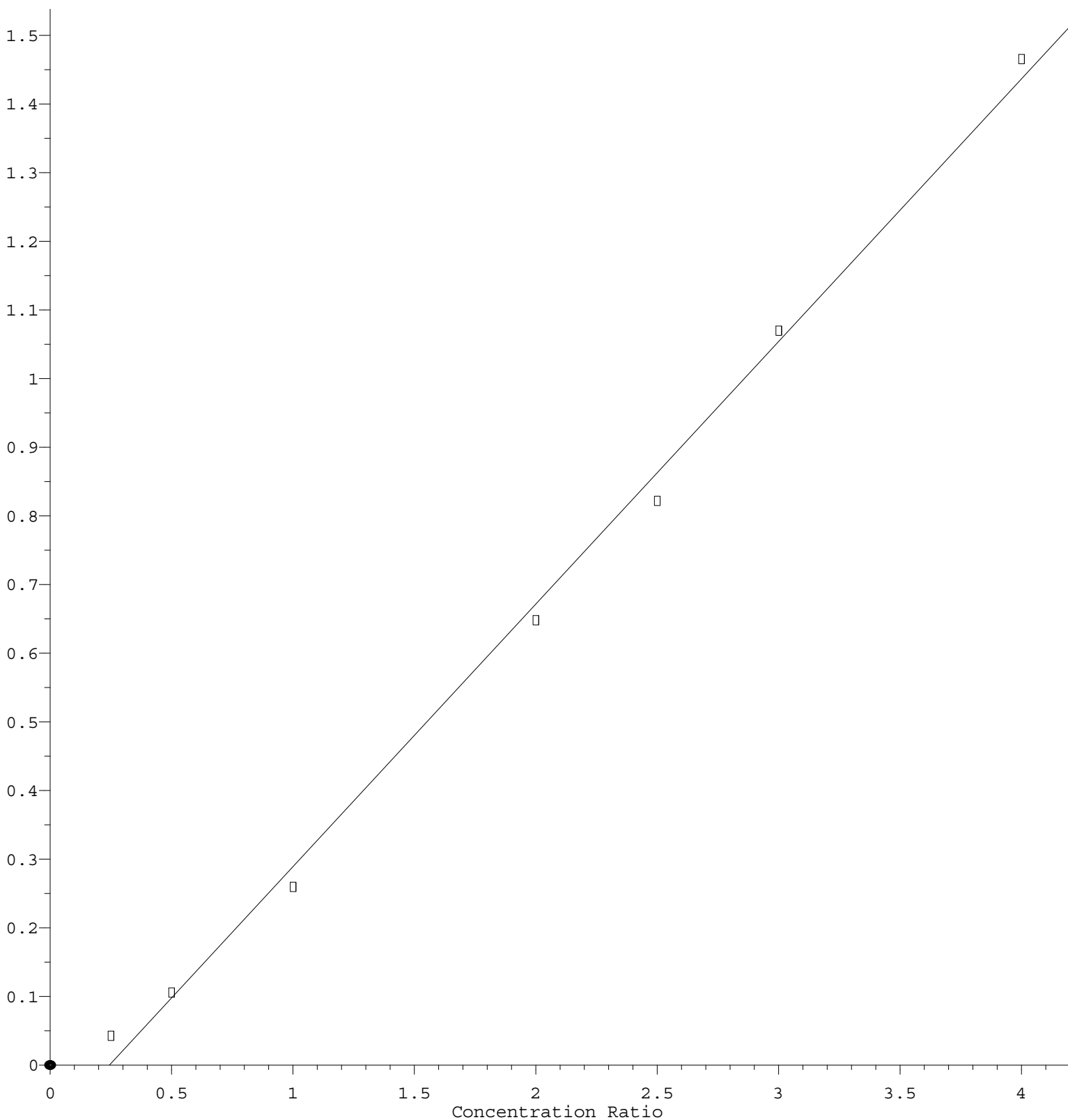
Coef of Det (r^2) = 0.998021 Curve Fit: Linear

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2,4,6-Trichlorophenol

Response Ratio



$$\text{Response} = 3.824\text{e-}001 * \text{Amt} - 9.345\text{e-}002$$

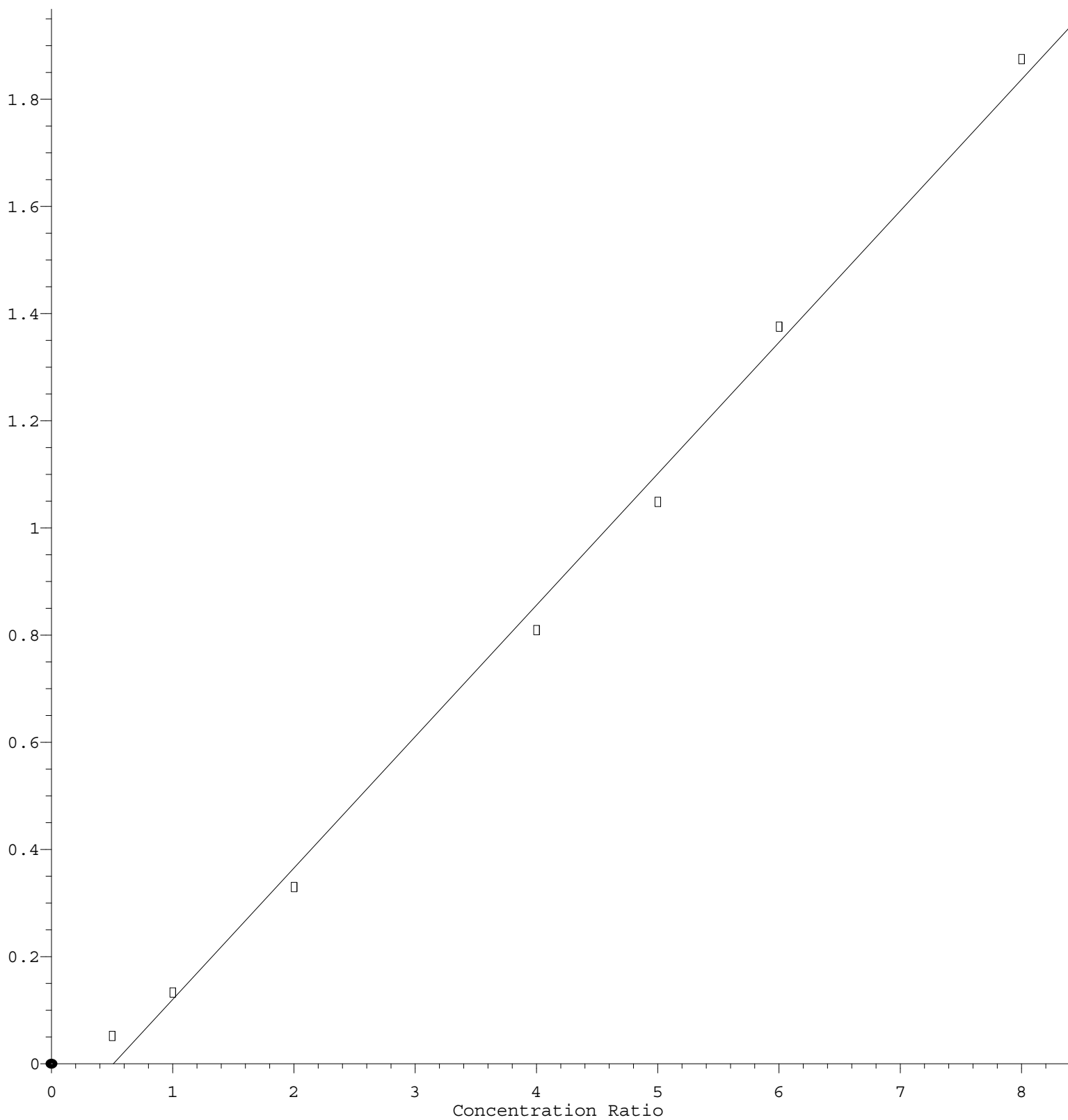
Coef of Det (r^2) = 0.996513 Curve Fit: Linear

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2,4,6-Tribromophenol

Response Ratio



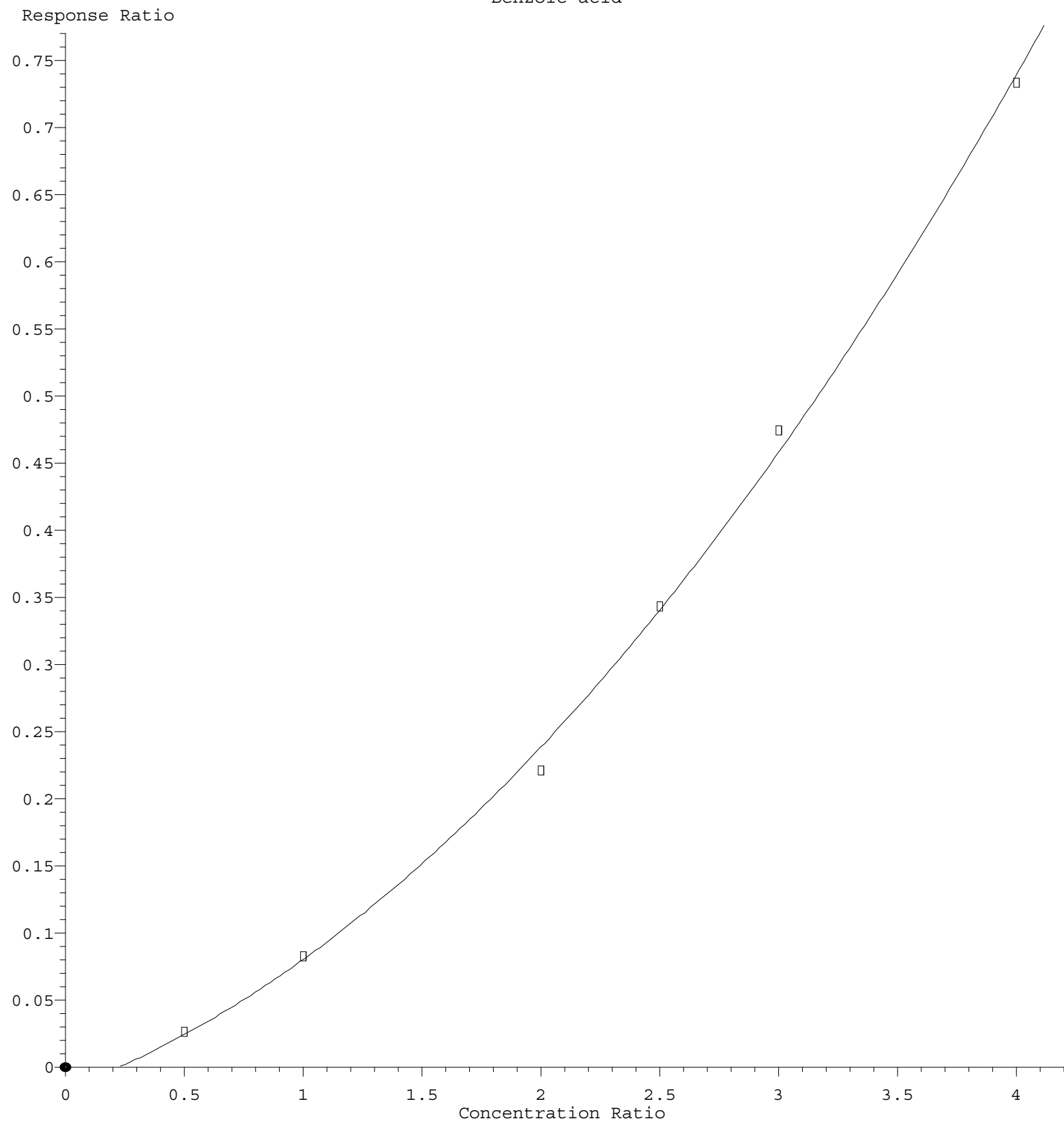
$$\text{Response} = 2.452\text{e-}001 * \text{Amt} - 1.251\text{e-}001$$

Coef of Det (r^2) = 0.995812 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030325.M

Calibration Table Last Updated: Tue Mar 04 08:17:09 2025

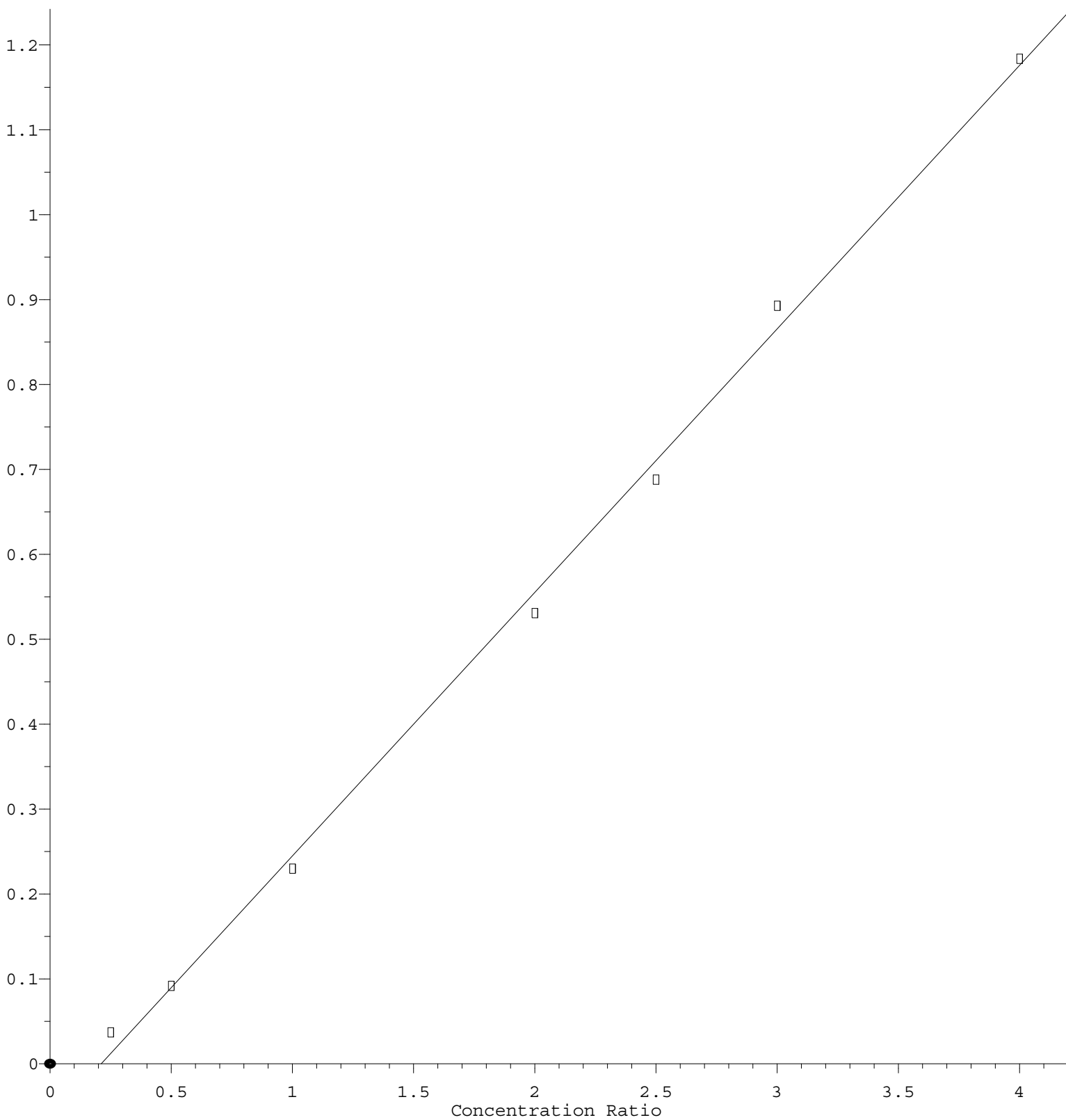
Benzoic acid



$R = 3.077e-002 A^2 + 6.584e-002 A - 1.631e-002$
 Coef of Det (r^2) = 0.998220 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030325.M
 Calibration Table Last Updated: Tue Mar 04 08:17:09 2025

2,4-Dichlorophenol

Response Ratio



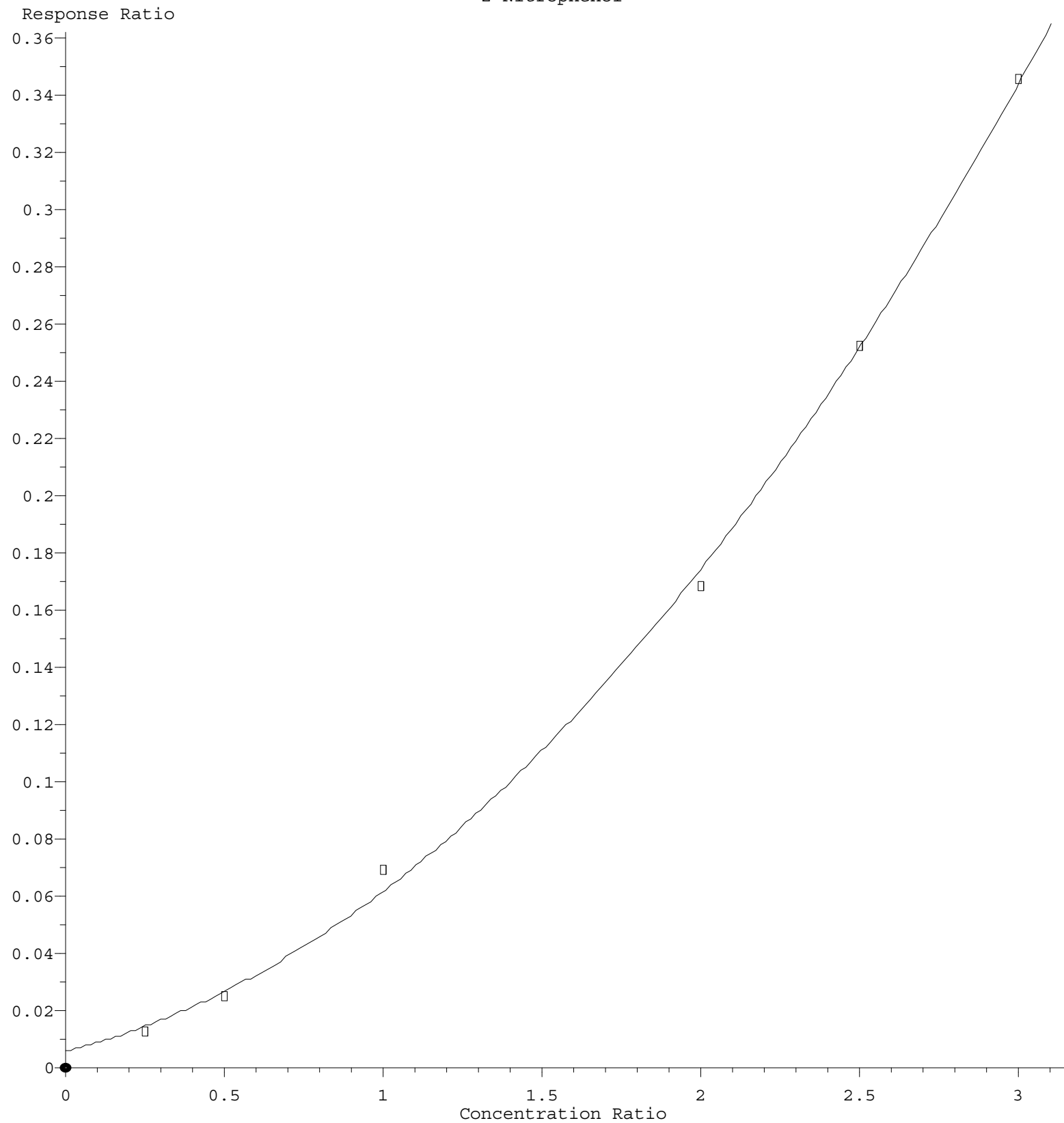
$$\text{Response} = 3.103\text{e-}001 * \text{Amt} - 6.549\text{e-}002$$

Coef of Det (r^2) = 0.997525 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030325.M

Calibration Table Last Updated: Tue Mar 04 08:17:09 2025

2-Nitrophenol



$R = 2.843e-002 A^2 + 2.739e-002 A + 5.880e-003$
 Coef of Det (r^2) = 0.998874 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030325.M
 Calibration Table Last Updated: Tue Mar 04 08:17:09 2025