

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG020325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 04 02:51:00 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BG063975.D 5 =BG063976.D 10 =BG063977.D 20 =BG063978.D 40 =BG063979.D 50 =BG063980.D 60 =BG063981.D 80 =BG063982.D

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

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.622	0.604	0.621	0.600	0.574	0.580	0.547	0.592	4.58	
3)	Pyridine	1.560	1.507	1.617	1.673	1.617	1.608	1.616	1.600	3.27	
4)	n-Nitrosodimet...	0.860	0.932	0.929	0.928	0.941	0.922	0.927	0.920	2.96	
5) S	2-Fluorophenol	1.051	1.158	1.265	1.334	1.302	1.319	1.303	1.247	8.37	
6)	Aniline	1.834	1.707	1.822	1.892	1.840	1.872	1.874	1.834	3.35	
7) S	Phenol-d6	1.538	1.567	1.748	1.787	1.751	1.787	1.805	1.712	6.49	
8)	2-Chlorophenol	1.018	1.121	1.276	1.353	1.352	1.377	1.399	1.271	11.47	
9)	Benzaldehyde	0.912	1.060	1.119	0.954	0.897	0.865	0.735	0.935	13.60	
10) C	Phenol	1.646	1.697	1.823	1.856	1.816	1.882	1.894	1.802	5.25	
11)	bis(2-Chloroet...	1.496	1.391	1.479	1.477	1.430	1.456	1.428	1.451	2.53	
12)	1,3-Dichlorobe...	1.548	1.542	1.568	1.539	1.484	1.460	1.447	1.513	3.19	
13) C	1,4-Dichlorobe...	1.577	1.510	1.567	1.554	1.504	1.517	1.465	1.528	2.62	
14)	1,2-Dichlorobe...	1.479	1.434	1.495	1.481	1.433	1.480	1.446	1.464	1.74	
15)	Benzyl Alcohol	1.127	1.135	1.274	1.328	1.306	1.366	1.420	1.280	8.70	
16)	2,2'-oxybis(1-...	2.982	2.734	2.954	2.950	2.883	2.955	2.995	2.922	3.08	
17)	2-Methylphenol	1.044	1.031	1.163	1.227	1.210	1.229	1.254	1.165	7.87	
18)	Hexachloroethane	0.462	0.450	0.488	0.537	0.520	0.529	0.532	0.503	7.12	
19) P	n-Nitroso-di-n...	1.060	1.164	1.114	1.197	1.243	1.188	1.249	1.269	1.185	6.02
20)	3+4-Methylphenols	1.338	1.355	1.542	1.636	1.619	1.670	1.708	1.553	9.65	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.541	0.540	0.559	0.551	0.545	0.559	0.552	0.550	1.42	
23) S	Nitrobenzene-d5		0.231	0.293	0.336	0.353	0.378	0.384	0.329	17.69	
24)	Nitrobenzene	0.198	0.273	0.320	0.354	0.374	0.395	0.397	0.330	22.08	
25)	Isophorone	0.678	0.676	0.707	0.715	0.716	0.749	0.753	0.713	4.26	
26) C	2-Nitrophenol	0.042	0.044	0.056	0.076	0.090	0.105		0.069	37.63#	
27)	2,4-Dimethylph...	0.163	0.182	0.204	0.216	0.217	0.226	0.229	0.205	11.80	
28)	bis(2-Chloroet...	0.425	0.451	0.451	0.456	0.451	0.470	0.474	0.454	3.49	
29) C	2,4-Dichloroph...	0.154	0.196	0.242	0.270	0.285	0.293	0.301	0.249	22.17	
30)	1,2,4-Trichlor...	0.329	0.333	0.341	0.339	0.336	0.342	0.340	0.337	1.47	
31)	Naphthalene	1.077	1.053	1.074	1.082	1.059	1.083	1.079	1.072	1.08	
32)	Benzoic acid		0.050	0.080	0.113	0.142	0.162	0.190	0.123	42.44	
33)	4-Chloroaniline	0.396	0.386	0.398	0.420	0.415	0.432	0.429	0.411	4.31	
34) C	Hexachlorobuta...	0.203	0.217	0.214	0.216	0.214	0.221	0.218	0.215	2.67	
35)	Caprolactam		0.065	0.080	0.097	0.106	0.116	0.107	0.095	20.15	
36) C	4-Chloro-3-met...	0.255	0.283	0.322	0.350	0.352	0.370	0.367	0.328	13.38	
37)	2-Methylnaphth...	0.761	0.708	0.751	0.751	0.747	0.759	0.754	0.747	2.41	
38)	1-Methylnaphth...	0.786	0.711	0.728	0.730	0.728	0.748	0.746	0.739	3.24	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.567	0.590	0.620	0.587	0.581	0.591	0.592	0.590	2.73	
41) P	Hexachlorocycl...	0.090	0.117	0.140	0.162	0.165	0.179	0.191	0.149	23.99	
42) S	2,4,6-Tribromo...	0.109	0.157	0.190	0.218	0.239	0.238	0.192		26.54	
43) C	2,4,6-Trichlor...	0.145	0.204	0.284	0.320	0.333	0.359	0.370	0.288	29.20	
44)	2,4,5-Trichlor...	0.176	0.251	0.338	0.373	0.385	0.398	0.408	0.333	26.19	
45) S	2-Fluorobiphenyl	1.314	1.324	1.386	1.312	1.272	1.291	1.239	1.305	3.51	
46)	1,1'-Biphenyl	1.521	1.526	1.586	1.526	1.489	1.518	1.493	1.523	2.09	
47)	2-Chloronaphth...	1.029	1.123	1.170	1.105	1.108	1.122	1.113	1.110	3.78	
48)	2-Nitroaniline	0.118	0.139	0.213	0.268	0.303	0.345	0.357	0.249	38.36	
49)	Acenaphthylene	1.640	1.669	1.802	1.731	1.732	1.761	1.734	1.724	3.15	
50)	Dimethylphthalate	1.029	1.165	1.359	1.380	1.427	1.482	1.440	1.326	12.52	
51)	2,6-Dinitrotol...	0.092	0.125	0.185	0.230	0.250	0.288	0.289	0.208	37.12	
52) C	Acenaphthene	1.114	1.109	1.197	1.147	1.150	1.197	1.181	1.156	3.17	
53)	3-Nitroaniline	0.113	0.152	0.222	0.267	0.288	0.316	0.309	0.238	33.25	
54) P	2,4-Dinitrophenol	0.028	0.044	0.051	0.061	0.075	0.085	0.057		36.47	
55)	Dibenzofuran	1.864	1.874	1.961	1.867	1.849	1.898	1.831	1.878	2.24	
56) P	4-Nitrophenol	0.109	0.156	0.201	0.233	0.259	0.257	0.203		29.74	
57)	2,4-Dinitrotol...	0.125	0.144	0.224	0.293	0.330	0.380	0.382	0.268	39.66	
58)	Fluorene	1.494	1.463	1.486	1.437	1.421	1.475	1.383	1.451	2.74	
59)	2,3,4,6-Tetrac...	0.146	0.217	0.299	0.336	0.363	0.400	0.400	0.309	31.18	
60)	Diethylphthalate	1.062	1.227	1.416	1.478	1.535	1.617	1.506	1.406	13.82	
61)	4-Chlorophenyl...	0.771	0.726	0.760	0.708	0.707	0.725	0.701	0.728	3.74	
62)	4-Nitroaniline	0.163	0.191	0.250	0.289	0.319	0.345	0.315	0.267	25.71	
63)	Azobenzene	1.689	1.619	1.684	1.636	1.653	1.717	1.626	1.661	2.21	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.024	0.031	0.042	0.049	0.059	0.069	0.046		36.63	
66) c	n-Nitrosodiphe...	0.540	0.532	0.576	0.568	0.546	0.558	0.562	0.555	2.84	
67)	4-Bromophenyl-...	0.183	0.187	0.202	0.204	0.197	0.206	0.214	0.199	5.42	
68)	Hexachlorobenzene	0.228	0.235	0.240	0.240	0.226	0.235	0.235	0.234	2.31	
69)	Atrazine	0.141	0.169	0.185	0.197	0.200	0.203	0.196	0.185	12.11	
70) C	Pentachlorophenol	0.060	0.097	0.121	0.134	0.152	0.156	0.120		30.27#	
71)	Phenanthrene	1.055	1.052	1.077	1.059	1.041	1.046	1.023	1.050	1.58	
72)	Anthracene	1.053	1.037	1.065	1.066	1.036	1.060	1.040	1.051	1.23	
73)	Carbazole	0.981	0.972	1.009	0.990	0.985	0.994	0.956	0.984	1.69	
74)	Di-n-butylphth...	0.671	0.823	1.026	1.134	1.177	1.206	1.143	1.026	19.83	
75) C	Fluoranthene	1.312	1.267	1.302	1.293	1.289	1.280	1.211	1.279	2.62	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.275	0.387	0.474	0.471	0.454	0.430	0.491	0.426	17.58	
78)	Pyrene	1.220	1.172	1.311	1.233	1.247	1.245	1.215	1.235	3.39	
79) S	Terphenyl-d14	1.005	0.966	1.023	0.951	0.958	0.925	0.875	0.958	5.14	
80)	Butylbenzylpht...	0.150	0.219	0.329	0.388	0.424	0.455	0.459	0.346	34.83	
81)	Benzo(a)anthra...	1.248	1.236	1.312	1.280	1.281	1.277	1.254	1.270	2.01	
82)	3,3'-Dichlorob...	0.264	0.336	0.421	0.434	0.433	0.440	0.440	0.395	17.36	
83)	Chrysene	1.273	1.235	1.331	1.248	1.268	1.273	1.218	1.264	2.87	
84)	Bis(2-ethylhex...	0.272	0.402	0.575	0.650	0.689	0.717	0.723	0.575	30.31	
85) c	Di-n-octyl pht...	0.588	0.873	1.021	1.113	1.182	1.226	1.001		23.78	

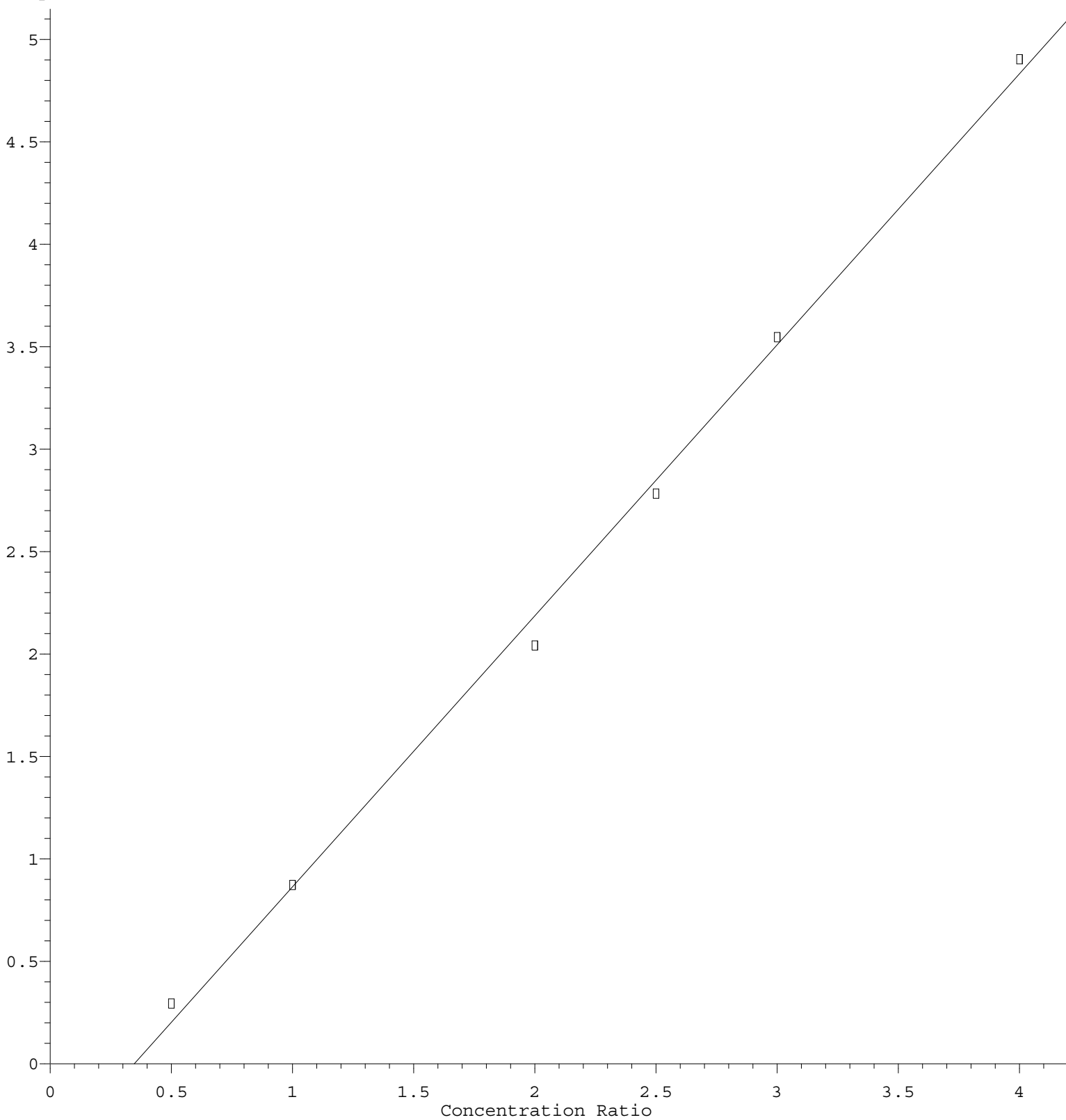
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.147	1.200	1.319	1.307	1.321	1.366	1.372	1.290	6.57
88)	Benzo(b)fluora...	1.093	1.094	1.243	1.202	1.194	1.207	1.210	1.178	5.04
89)	Benzo(k)fluora...	1.137	1.175	1.192	1.240	1.234	1.244	1.242	1.209	3.46
90) C	Benzo(a)pyrene	0.959	0.976	1.078	1.065	1.072	1.107	1.100	1.051	5.61
91)	Dibenzo(a,h)an...	0.984	1.007	1.107	1.109	1.110	1.147	1.162	1.089	6.23
92)	Benzo(g,h,i)pe...	0.981	1.039	1.132	1.111	1.122	1.148	1.167	1.100	6.01

(#) = Out of Range

Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.323\text{e}+000 * \text{Amt} - 4.591\text{e}-001$$

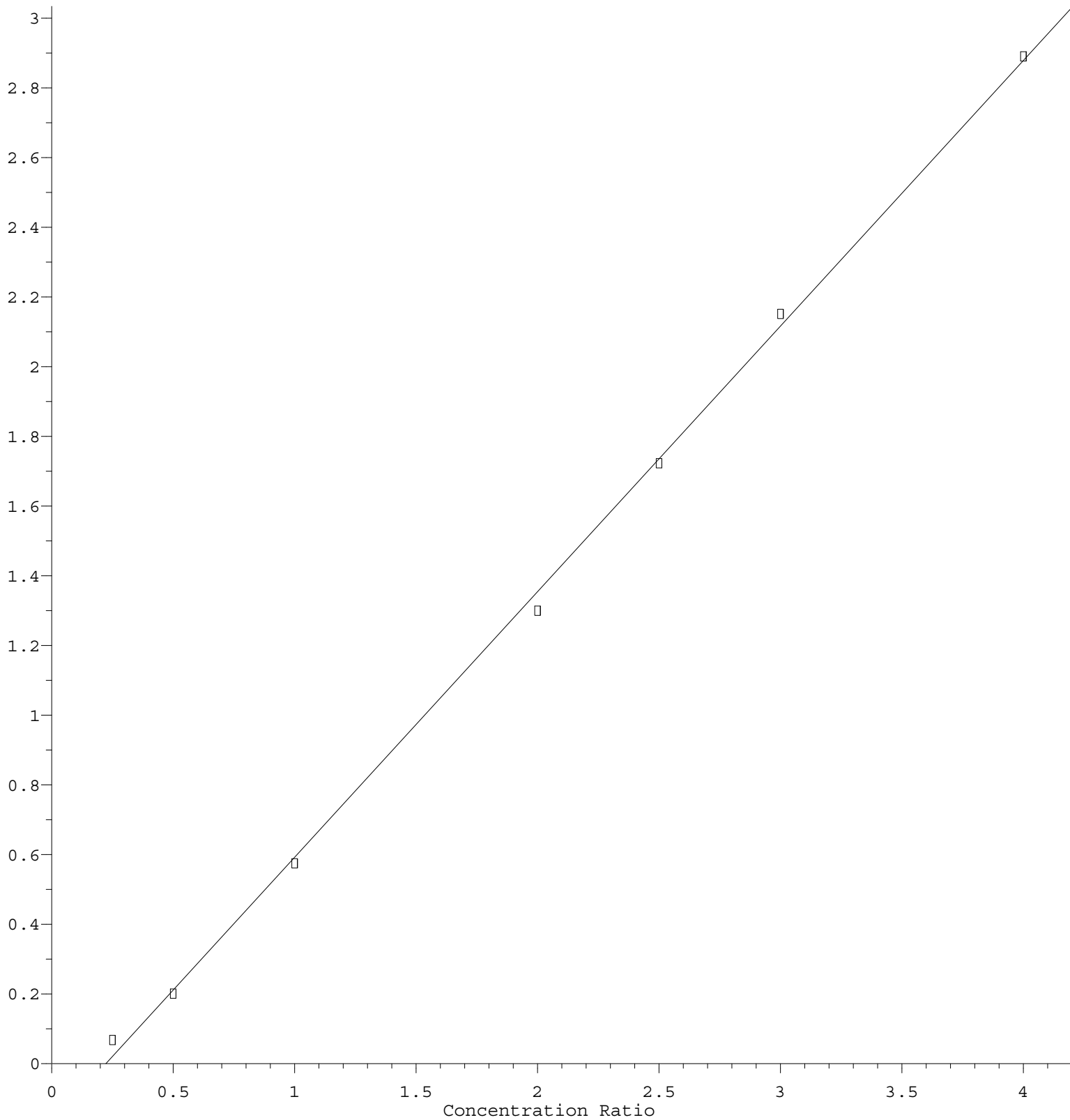
Coef of Det (r^2) = 0.997254 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 7.623\text{e-}001 * \text{Amt} - 1.703\text{e-}001$$

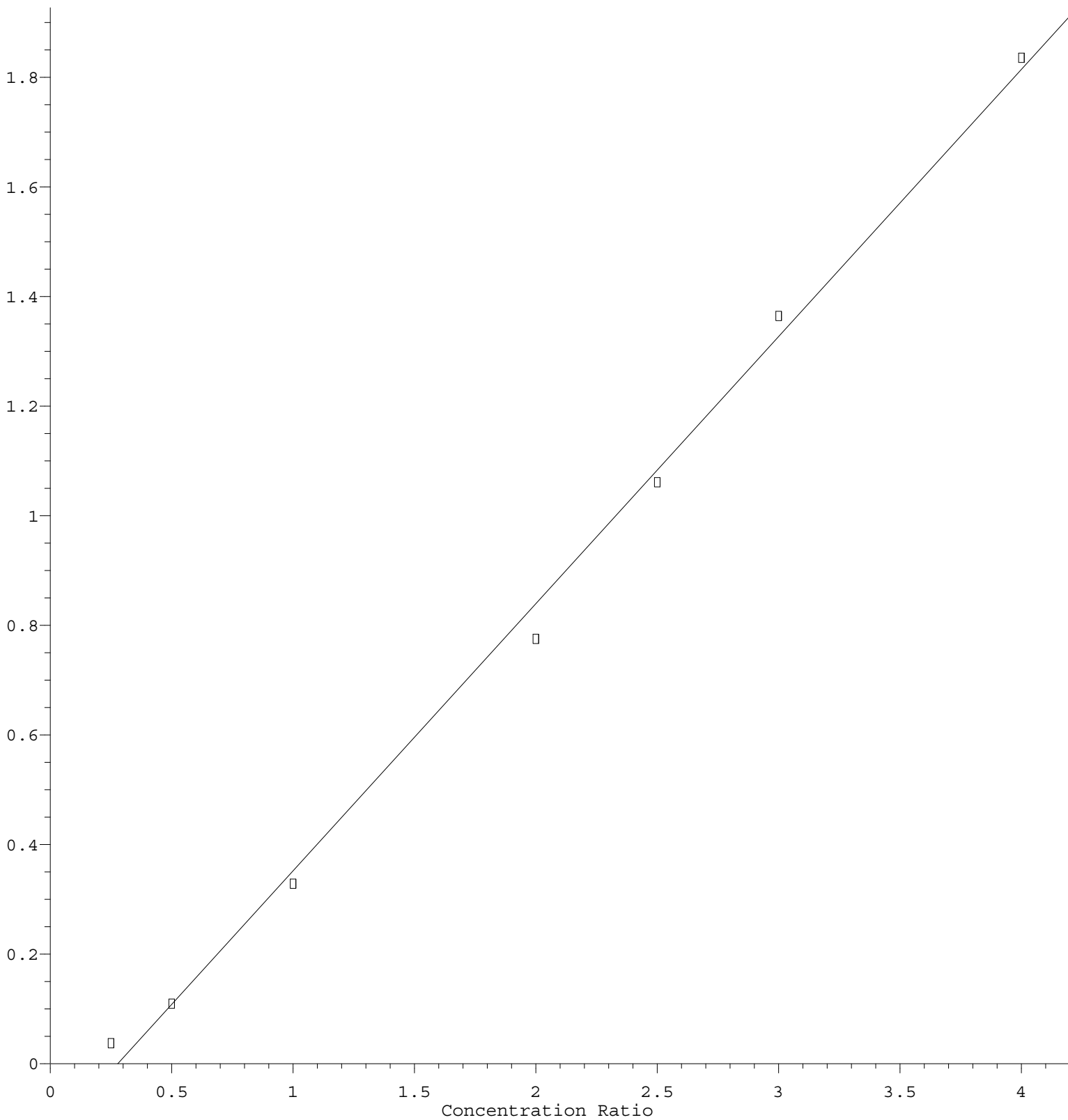
Coef of Det (r^2) = 0.998932 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M

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Butylbenzylphthalate

Response Ratio



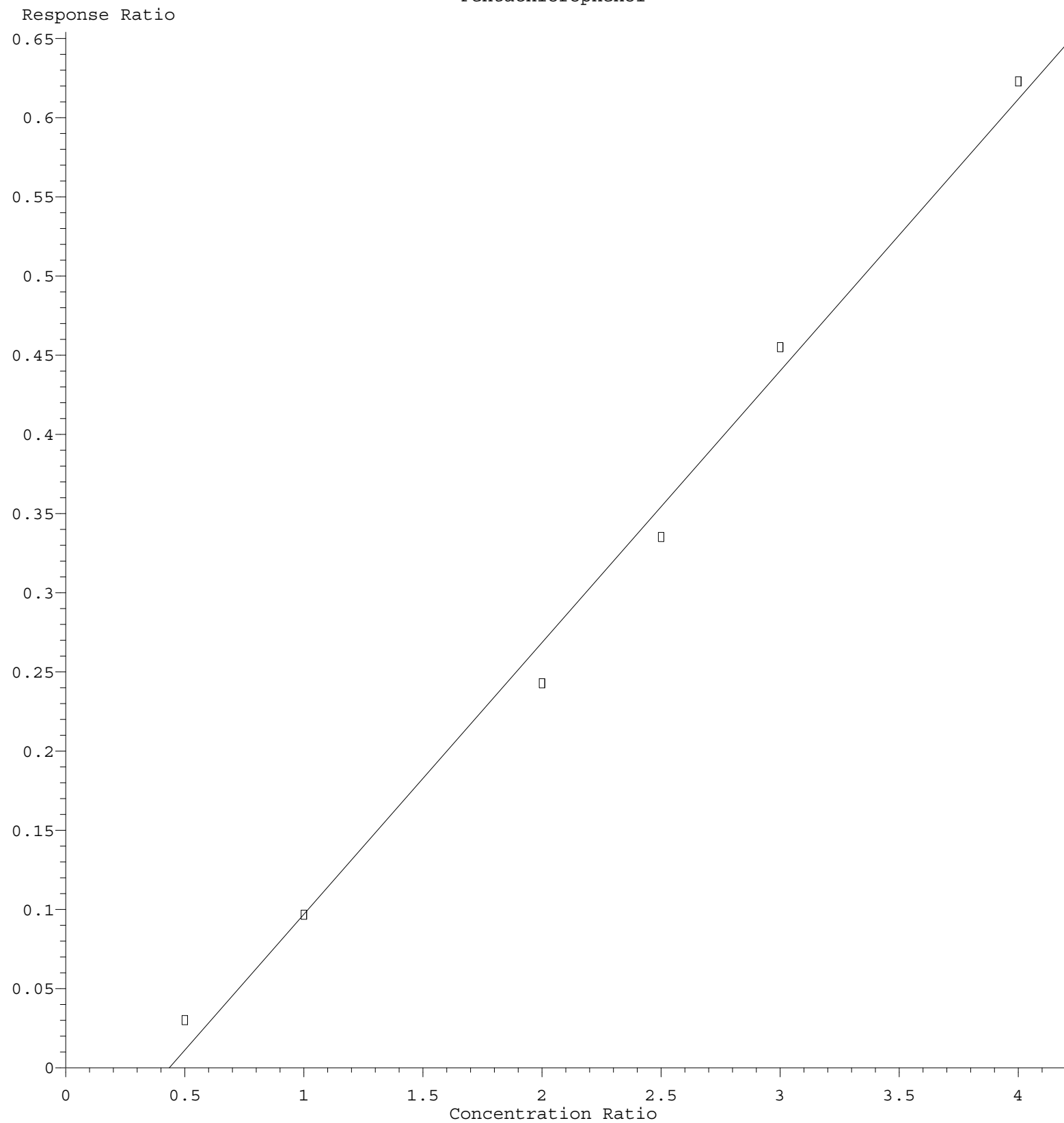
$$\text{Response} = 4.876\text{e-}001 * \text{Amt} - 1.355\text{e-}001$$

Coef of Det (r^2) = 0.996482 Curve Fit: Linear

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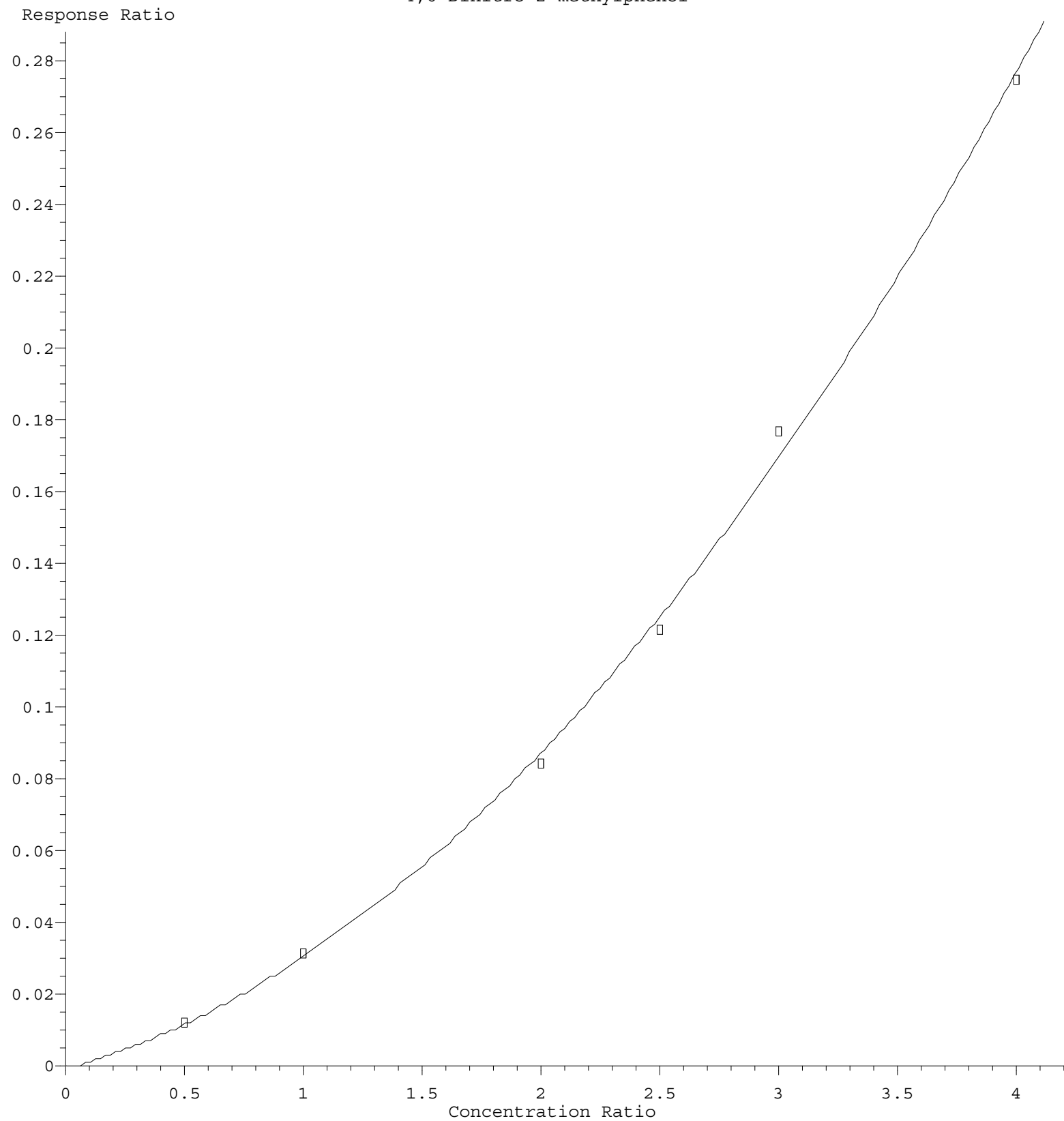
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Pentachlorophenol



$\text{Response} = 1.715\text{e-}001 * \text{Amt} - 7.454\text{e-}002$
 Coef of Det (r^2) = 0.992968 Curve Fit: Linear
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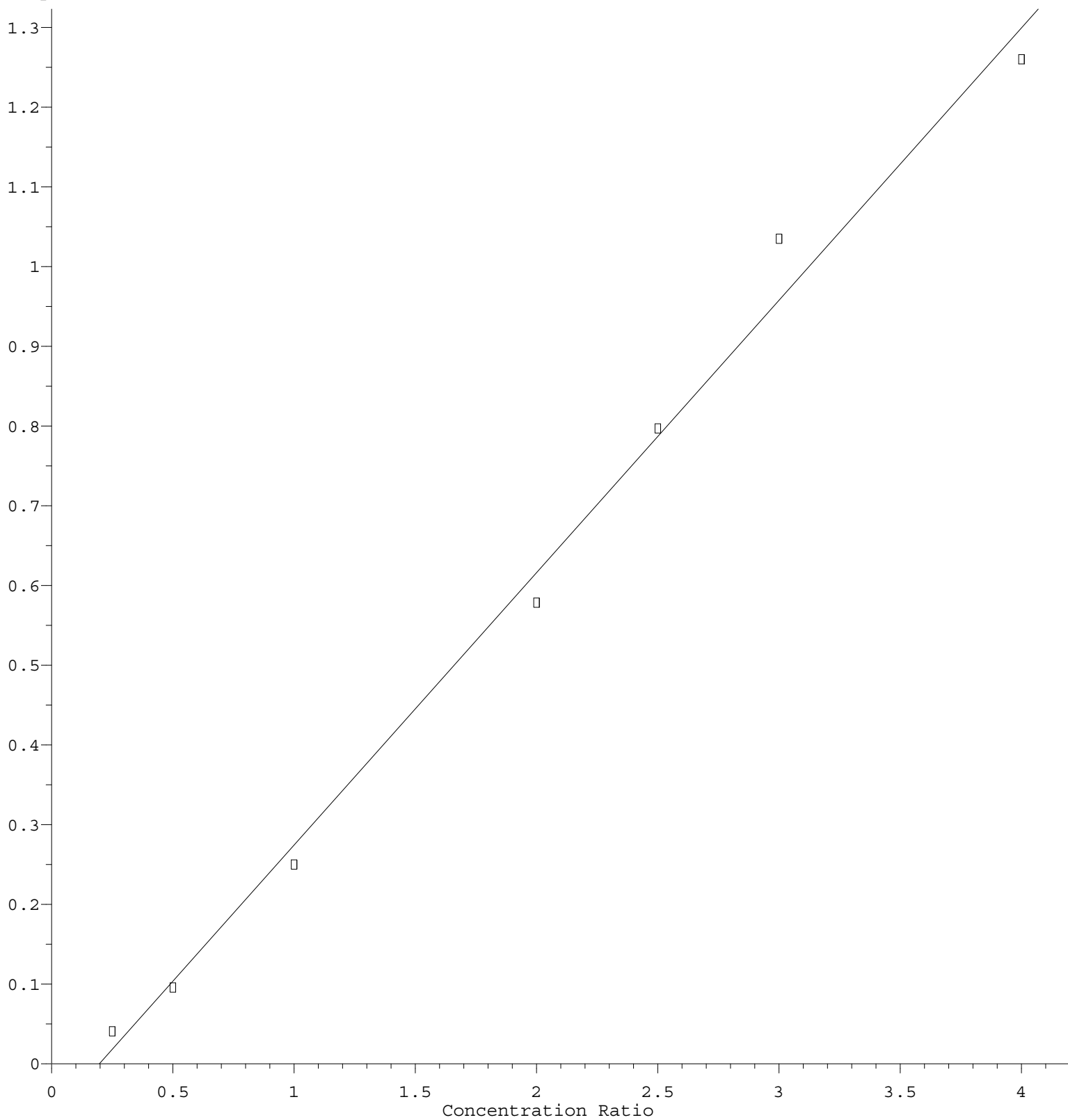
4,6-Dinitro-2-methylphenol



$R = 1.269e-002 A^2 + 1.868e-002 A - 8.757e-004$
 Coef of Det (r^2) = 0.998277 Curve Fit: Quadratic
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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.417\text{e-}001 * \text{Amt} - 6.721\text{e-}002$$

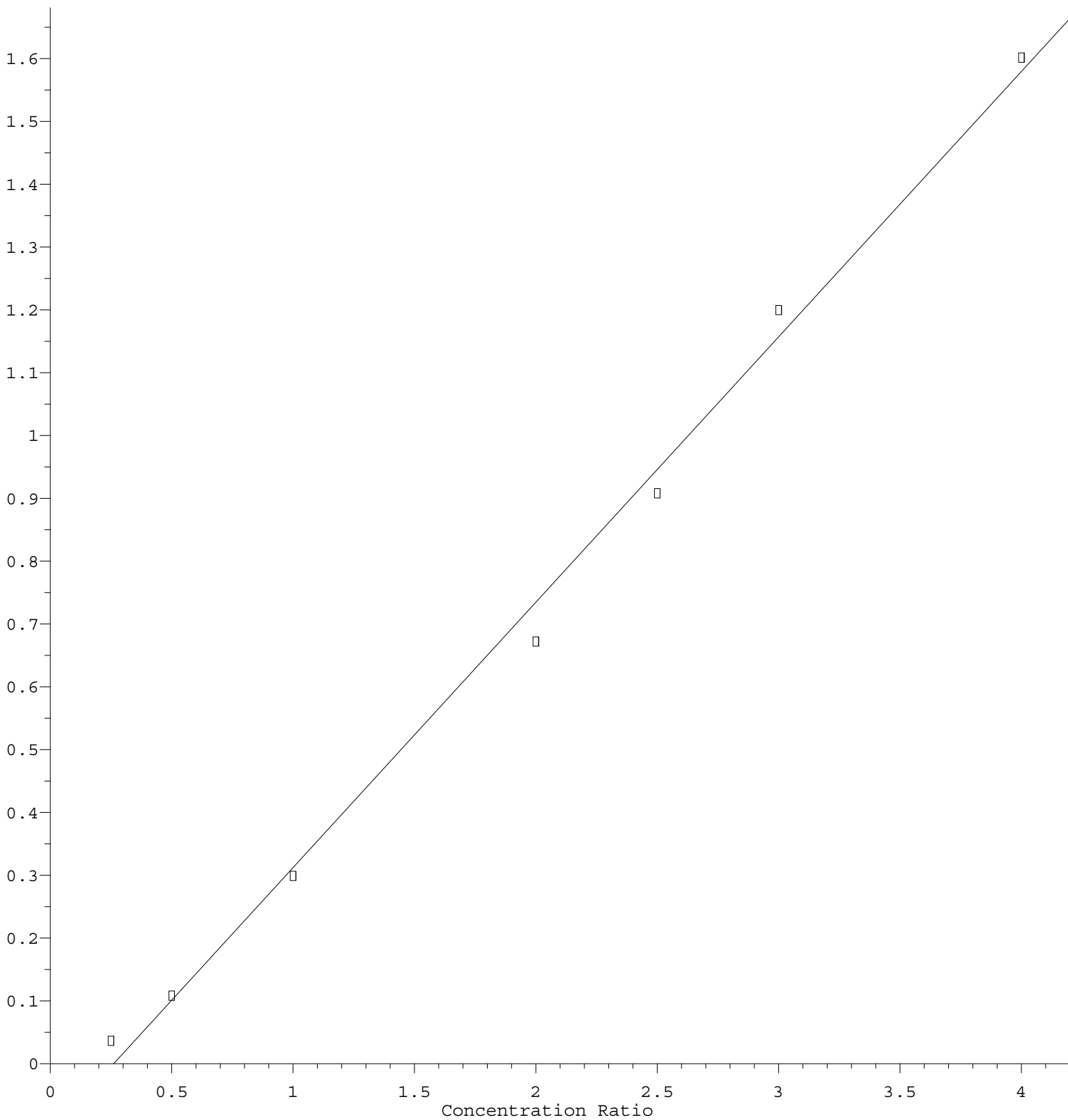
Coef of Det (r^2) = 0.992451 Curve Fit: Linear

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2,3,4,6-Tetrachlorophenol

Response Ratio



$$\text{Response} = 4.223\text{e-}001 * \text{Amt} - 1.100\text{e-}001$$

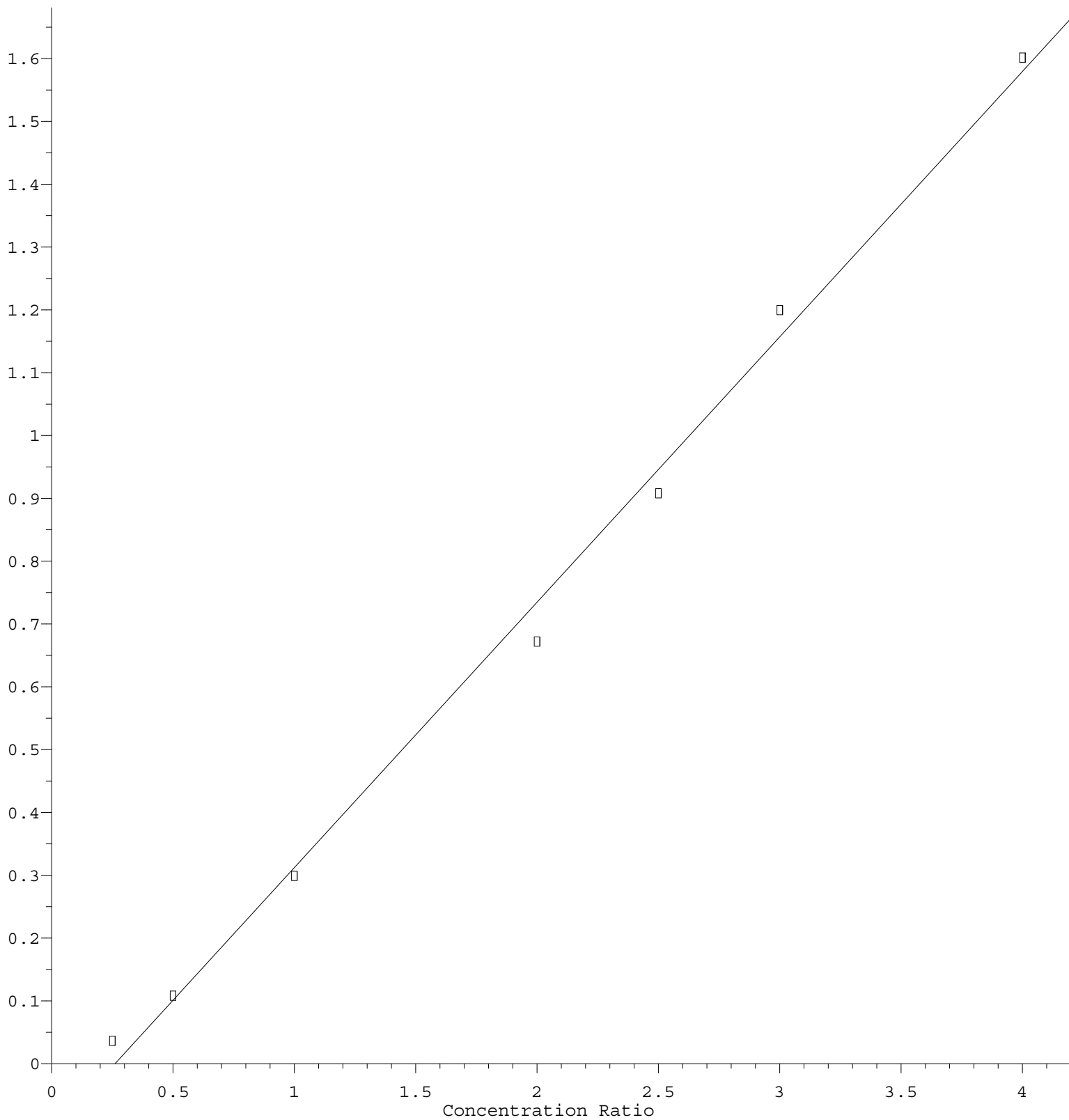
Coef of Det (r^2) = 0.995348 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M

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2,3,4,6-Tetrachlorophenol

Response Ratio



$$\text{Response} = 4.223\text{e-}001 * \text{Amt} - 1.100\text{e-}001$$

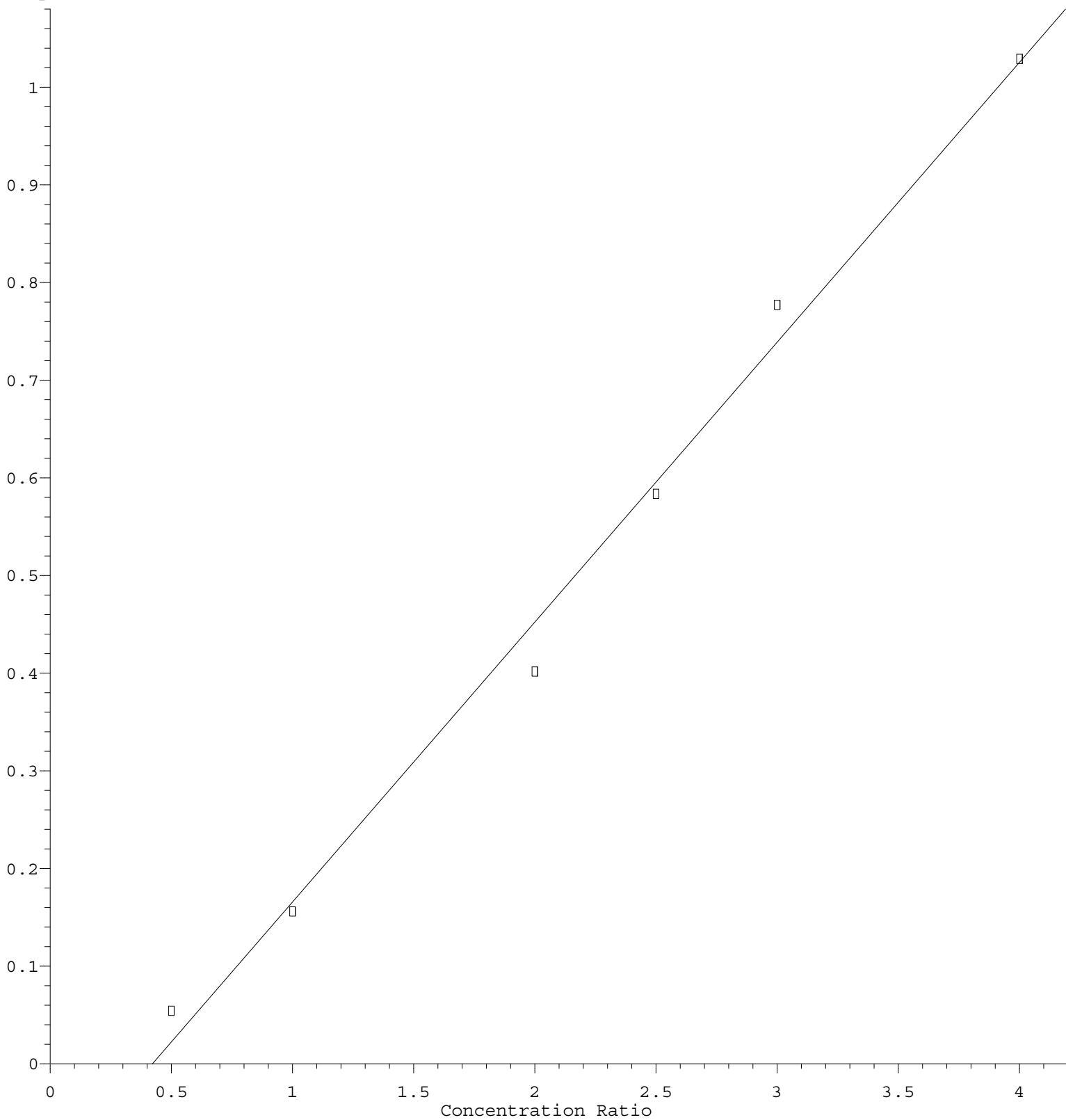
Coef of Det (r^2) = 0.995348 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M

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4-Nitrophenol

Response Ratio



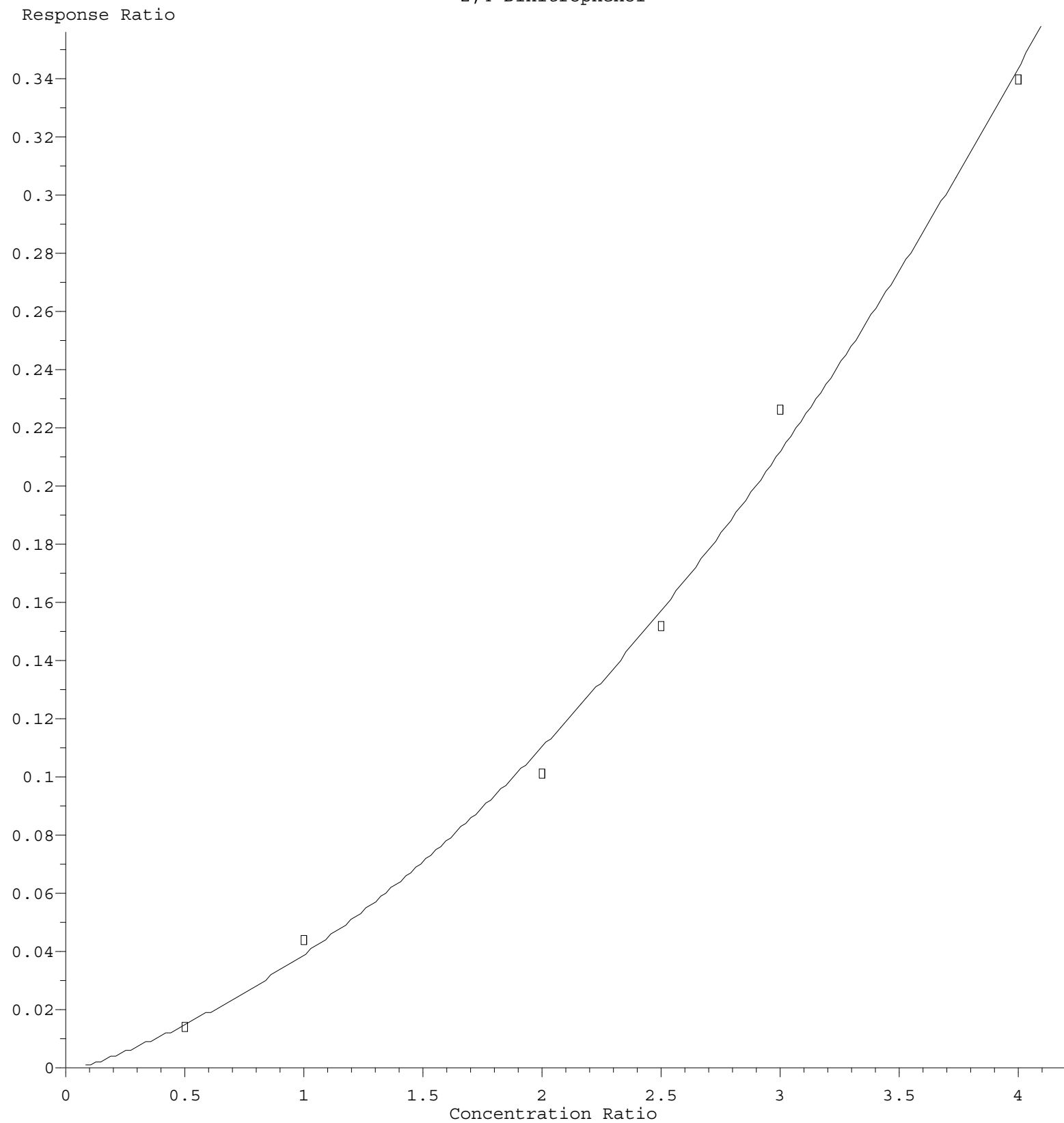
$$\text{Response} = 2.867\text{e-}001 * \text{Amt} - 1.209\text{e-}001$$

Coef of Det (r^2) = 0.992335 Curve Fit: Linear

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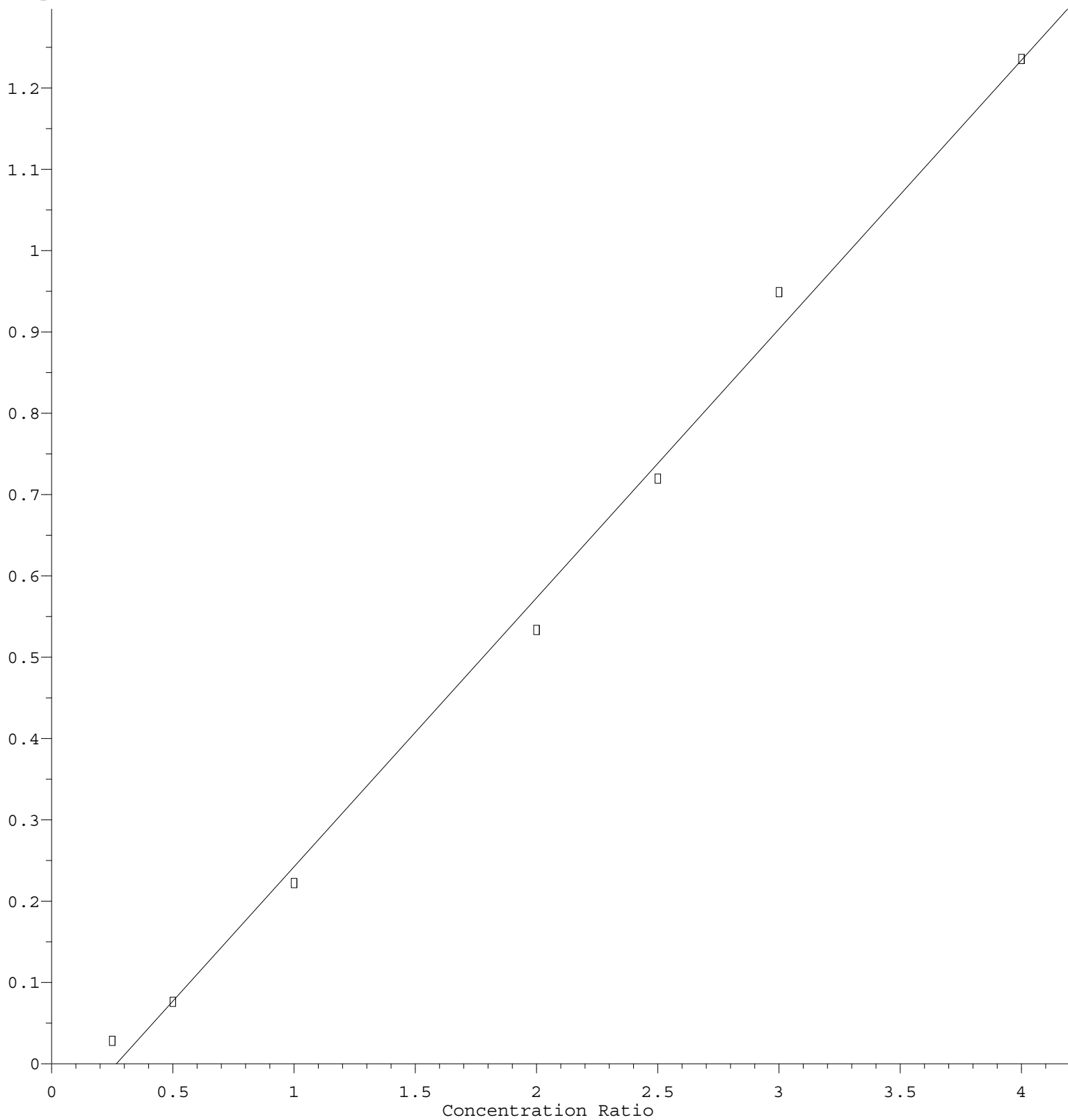
2,4-Dinitrophenol



$R = 1.520e-002 A^2 + 2.559e-002 A - 1.746e-003$
 Coef of Det (r^2) = 0.995113 Curve Fit: Quadratic
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.307\text{e-}001 * \text{Amt} - 8.820\text{e-}002$$

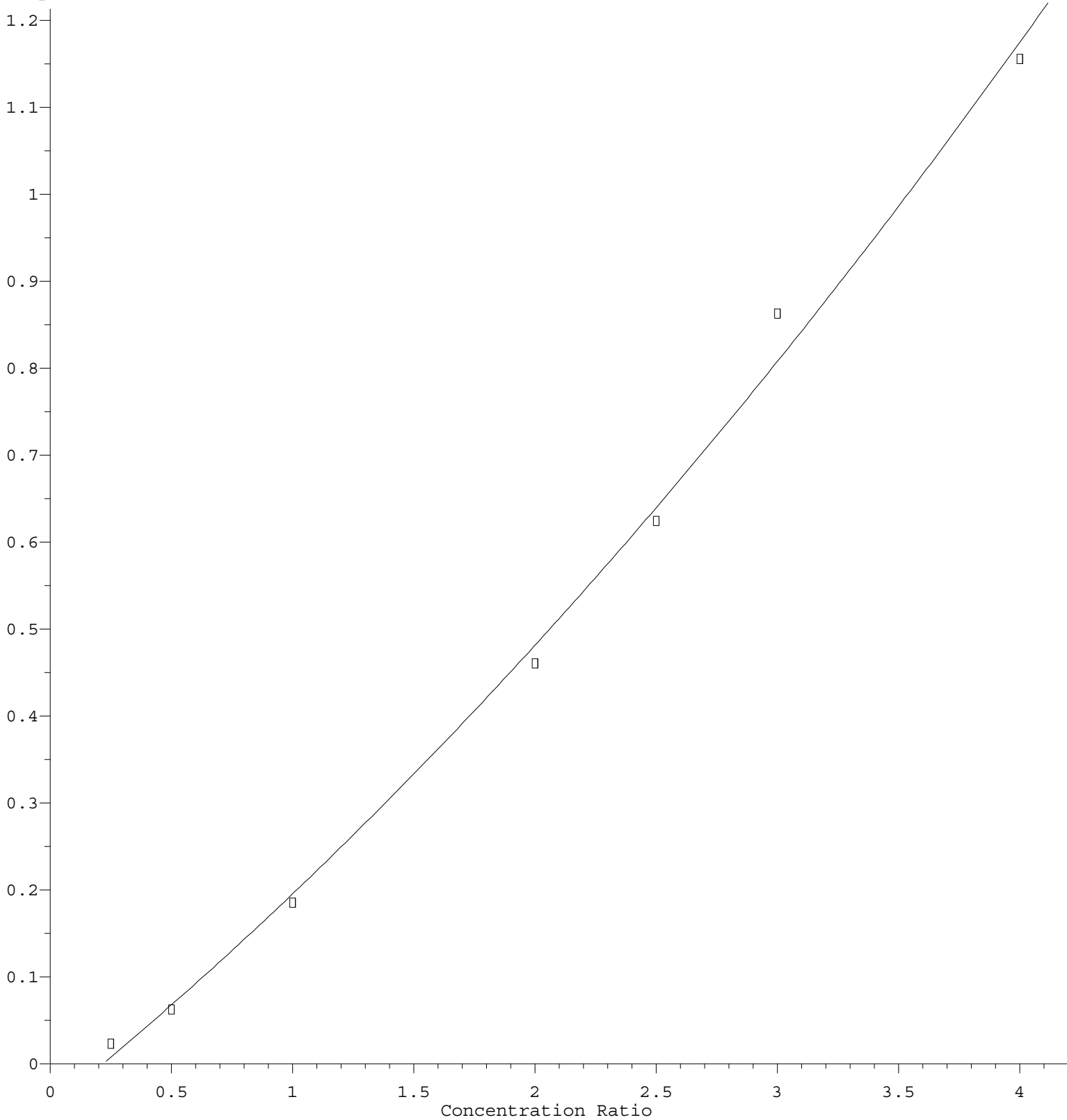
Coef of Det (r^2) = 0.995629 Curve Fit: Linear

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2,6-Dinitrotoluene

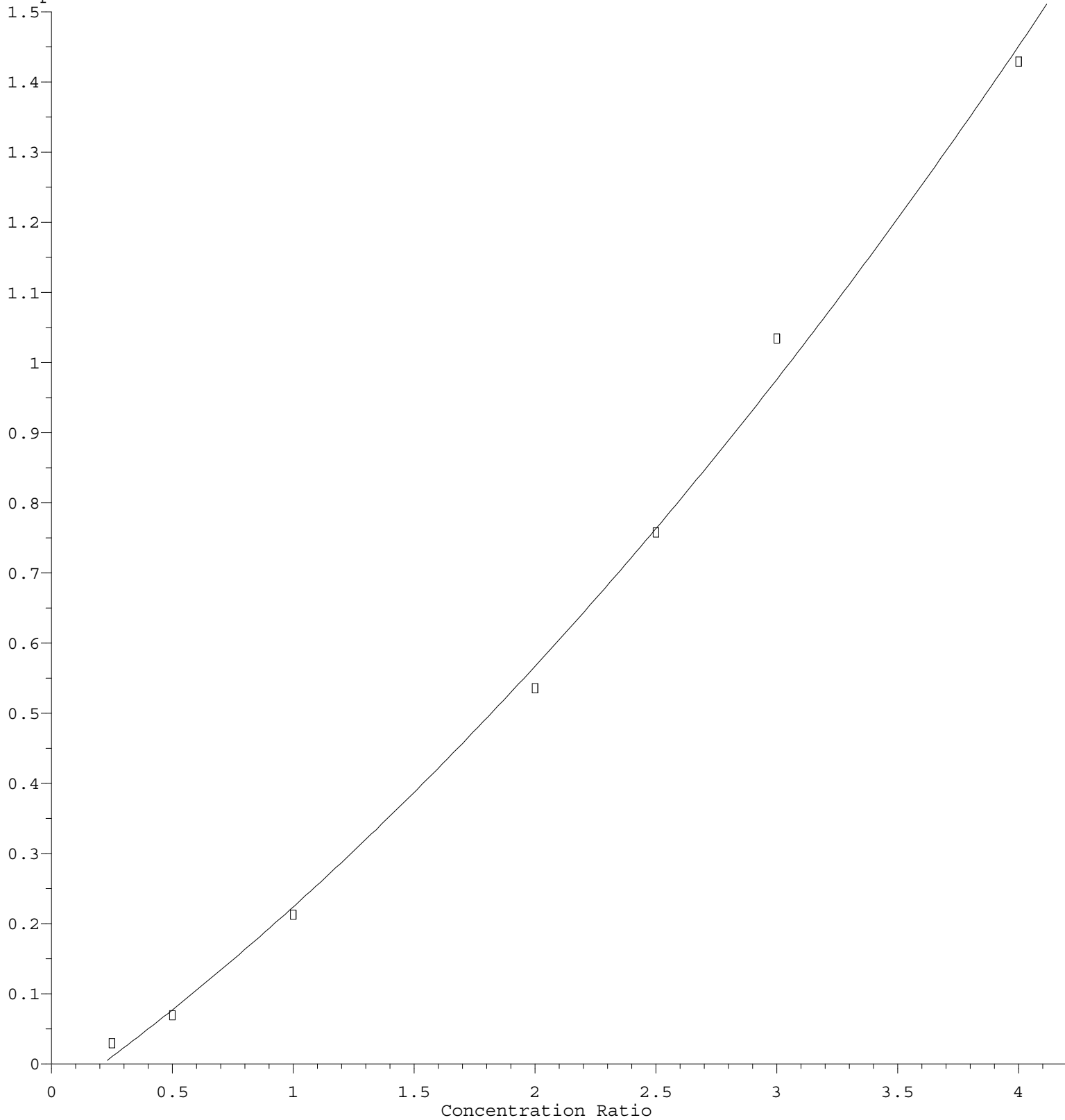
Response Ratio



$R = 2.028e-002 A^2 + 2.251e-001 A - 4.992e-002$
 Coef of Det (r^2) = 0.995955 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M
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2-Nitroaniline

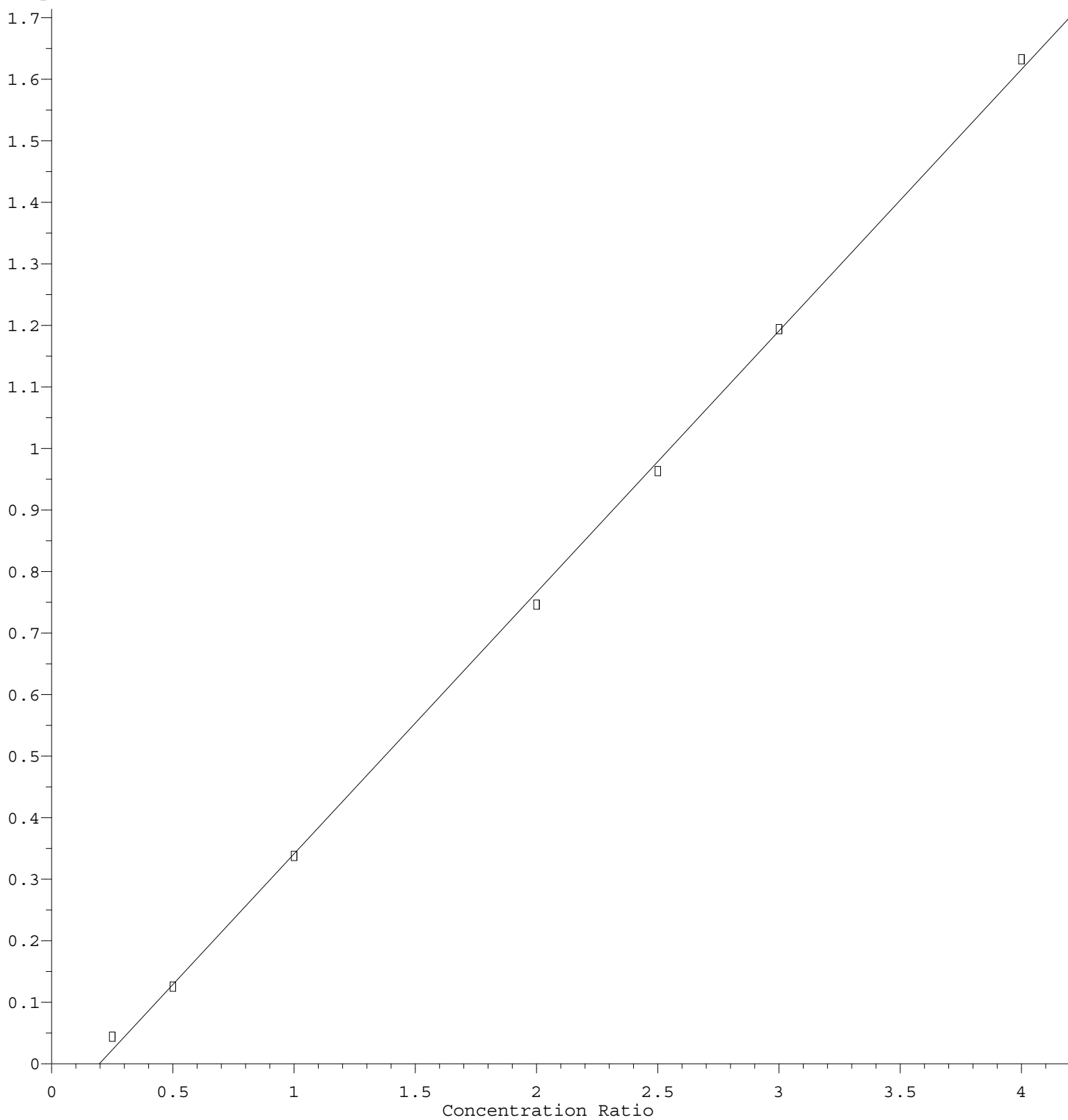
Response Ratio



$R = 3.302e-002 A^2 + 2.440e-001 A - 5.306e-002$
Coef of Det (r^2) = 0.996710 Curve Fit: Quadratic
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2,4,5-Trichlorophenol

Response Ratio



$$\text{Response} = 4.248\text{e-}001 * \text{Amt} - 8.367\text{e-}002$$

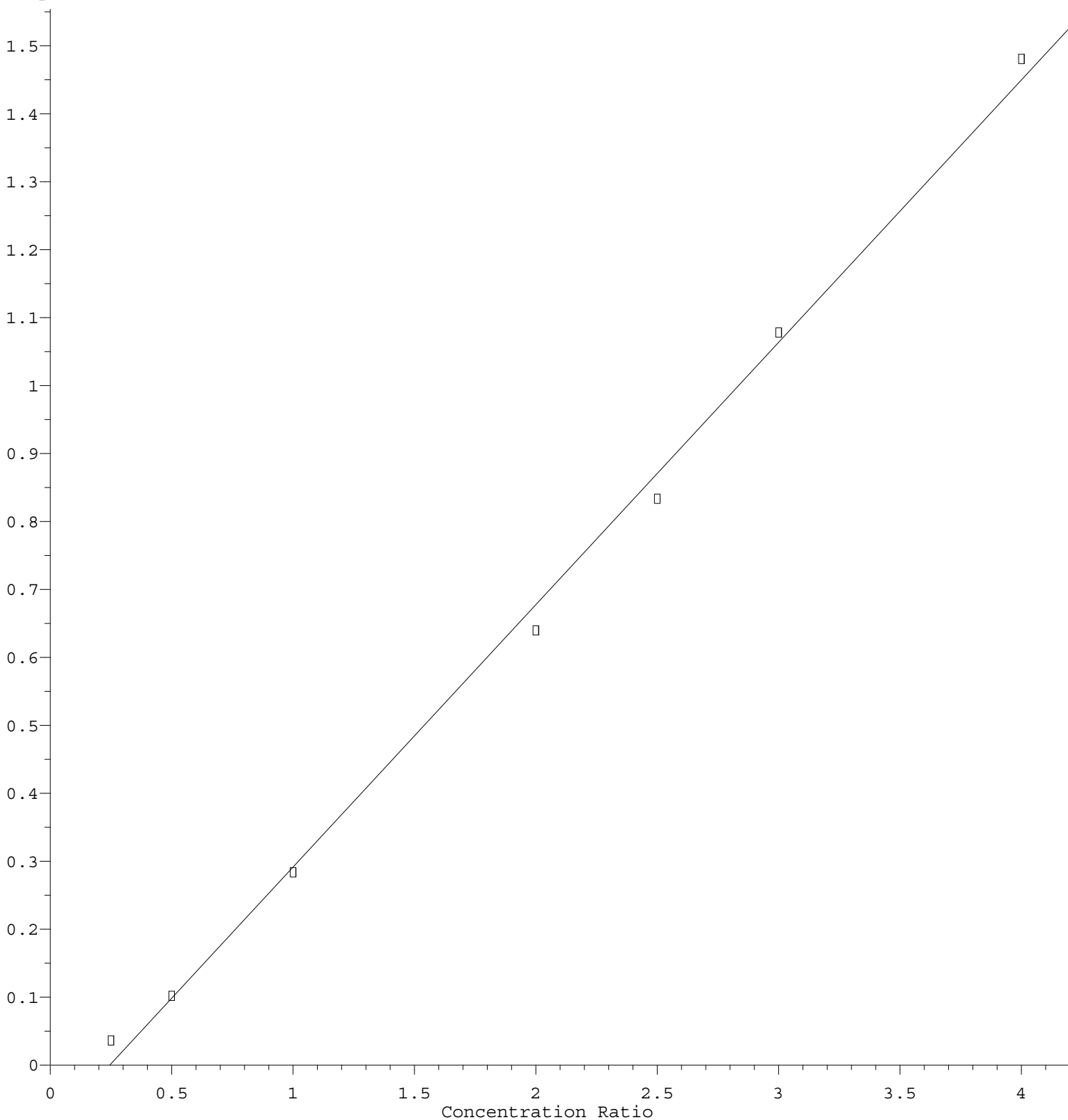
Coef of Det (r^2) = 0.999326 Curve Fit: Linear

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2,4,6-Trichlorophenol

Response Ratio



$$\text{Response} = 3.861\text{e-}001 * \text{Amt} - 9.455\text{e-}002$$

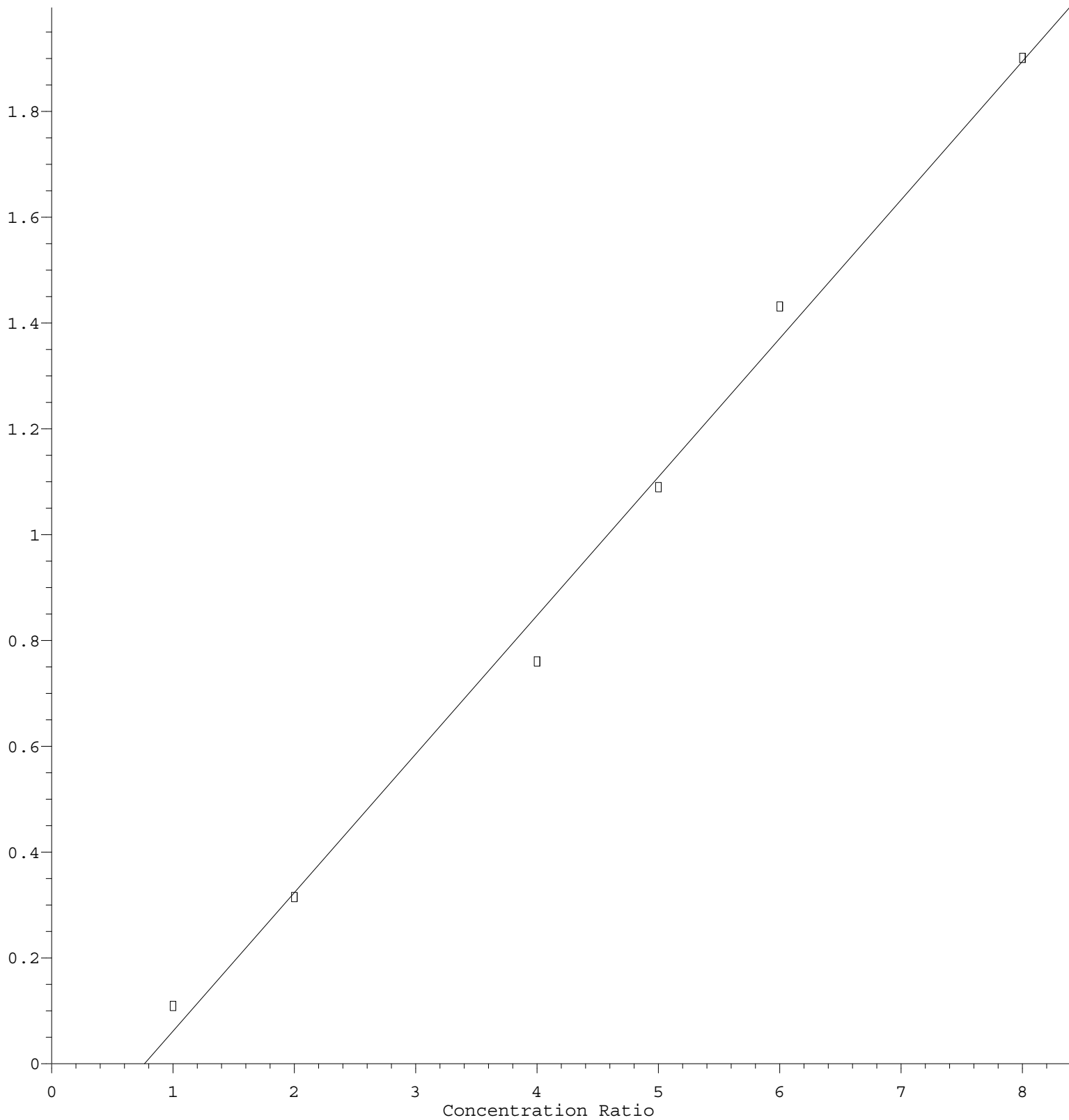
Coef of Det (r^2) = 0.996952 Curve Fit: Linear

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2,4,6-Tribromophenol

Response Ratio



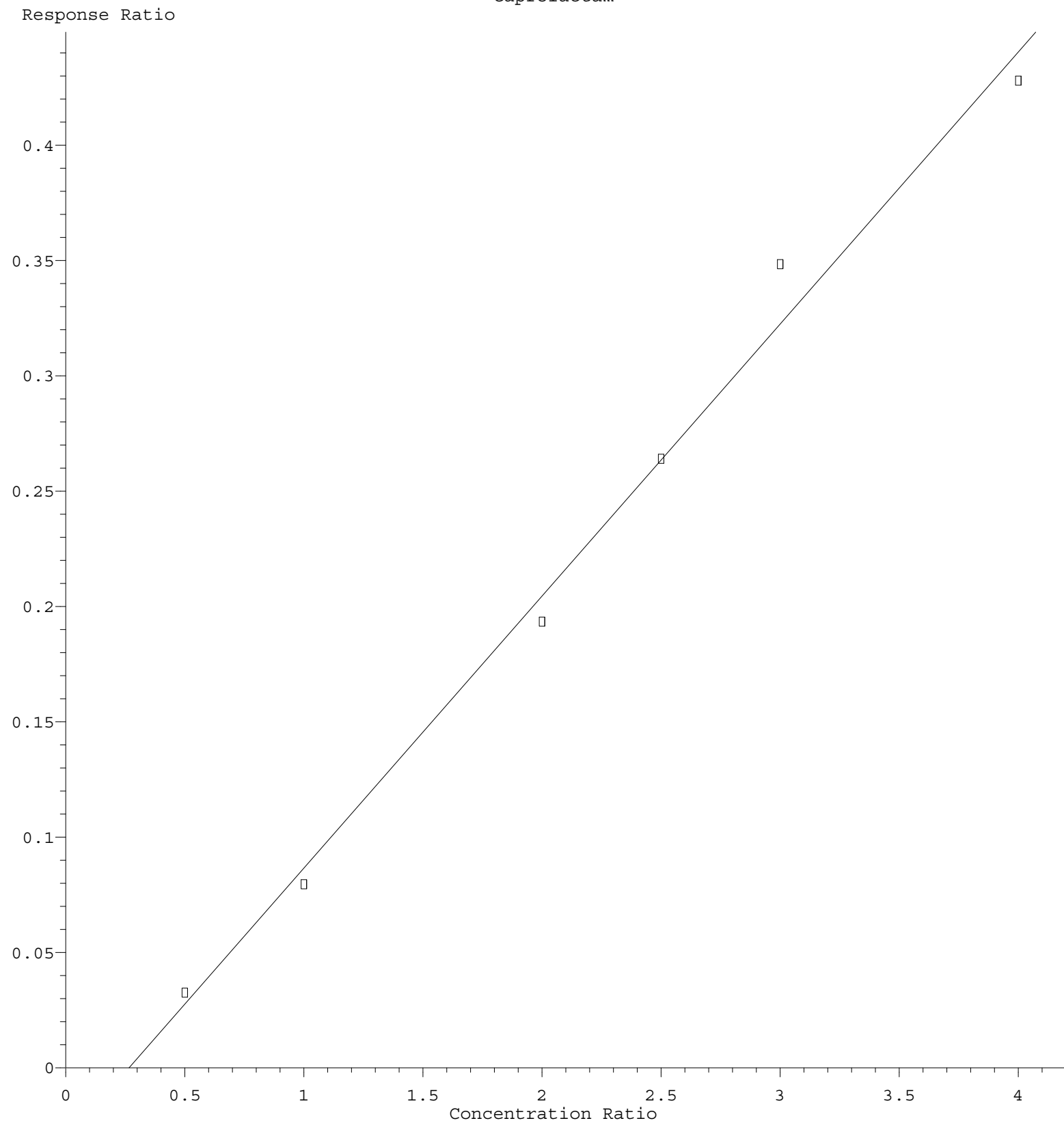
$$\text{Response} = 2.619\text{e-}001 * \text{Amt} - 2.004\text{e-}001$$

Coef of Det (r^2) = 0.993944 Curve Fit: Linear

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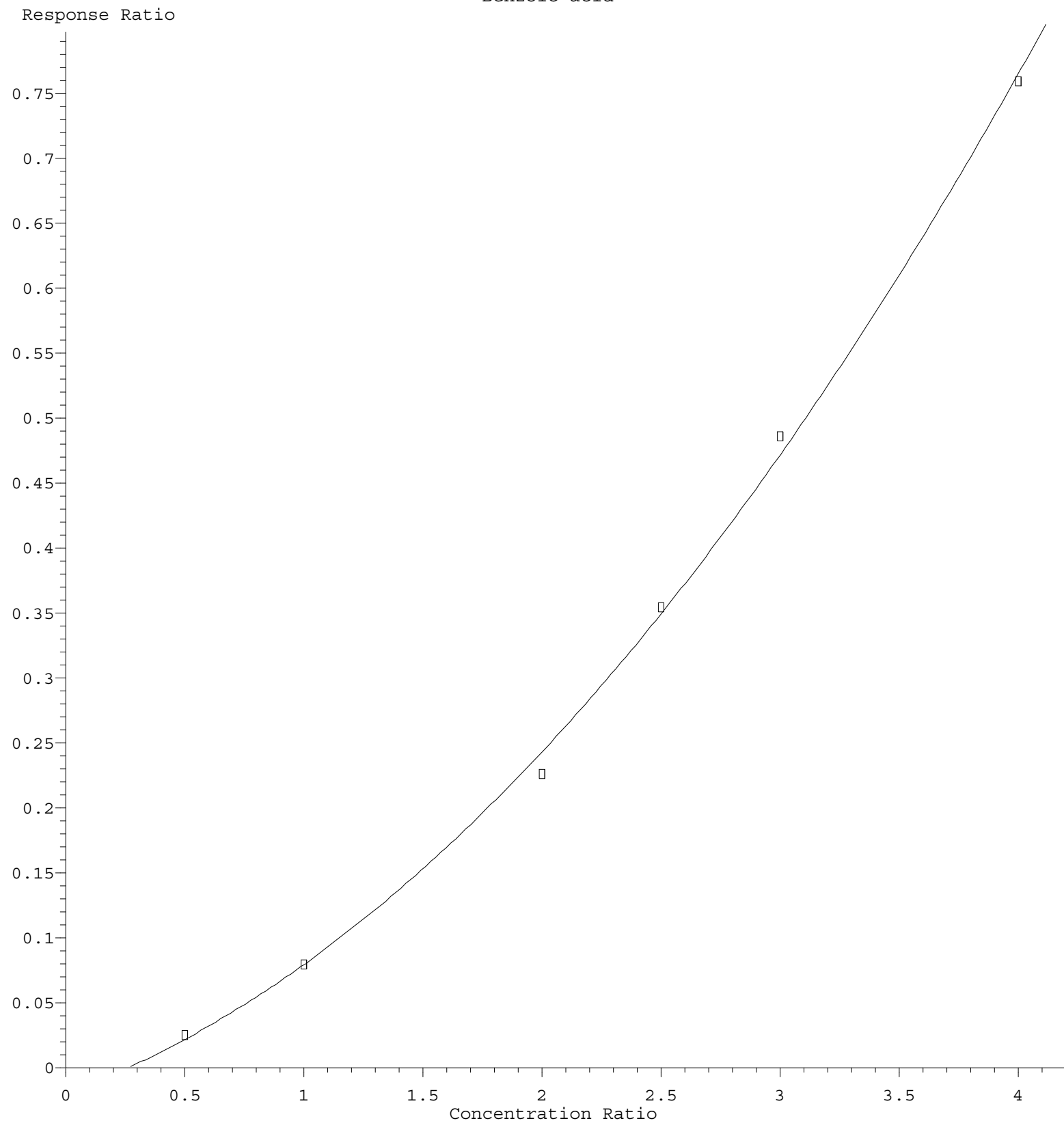
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Caprolactam



$\text{Response} = 1.180\text{e-}001 * \text{Amt} - 3.139\text{e-}002$
 Coef of Det (r^2) = 0.991256 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M
 Calibration Table Last Updated: Tue Feb 04 02:51:00 2025

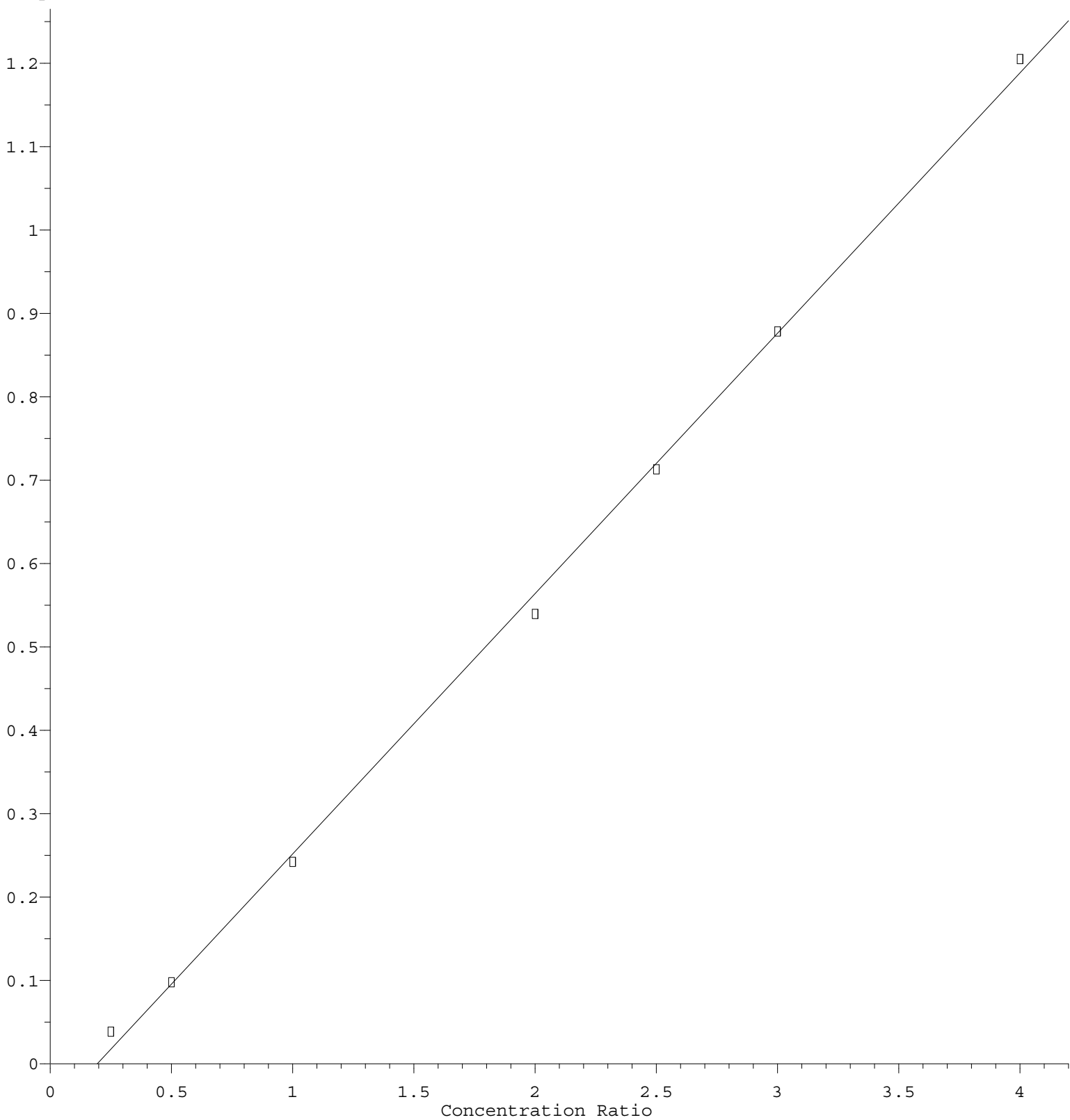
Benzoic acid



$R = 3.239e-002 A^2 + 6.658e-002 A - 1.953e-002$
 Coef of Det (r^2) = 0.998491 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M
 Calibration Table Last Updated: Tue Feb 04 02:51:00 2025

2,4-Dichlorophenol

Response Ratio



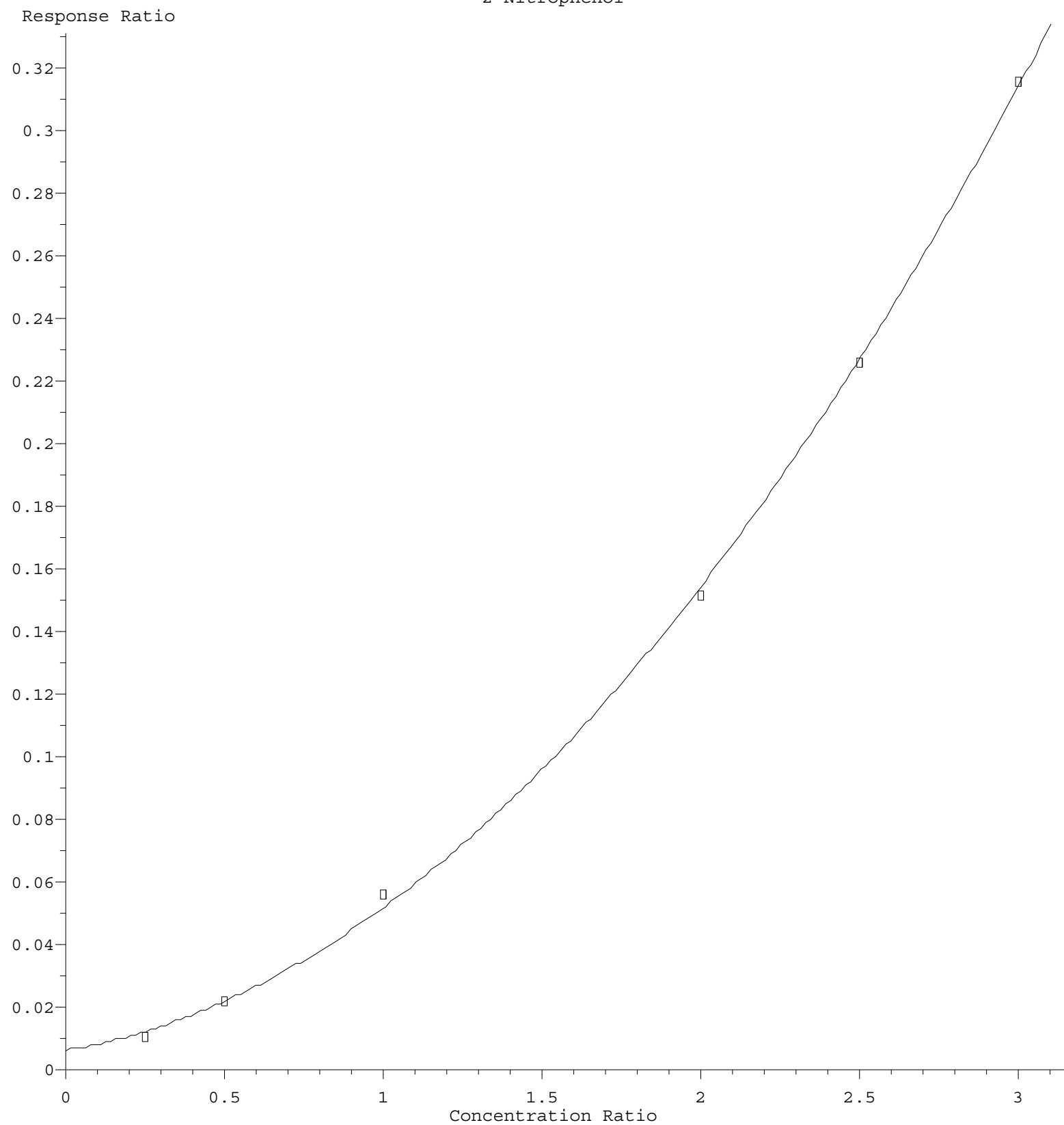
$$\text{Response} = 3.124\text{e-}001 * \text{Amt} - 6.059\text{e-}002$$

Coef of Det (r^2) = 0.998695 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M

Calibration Table Last Updated: Tue Feb 04 02:51:00 2025

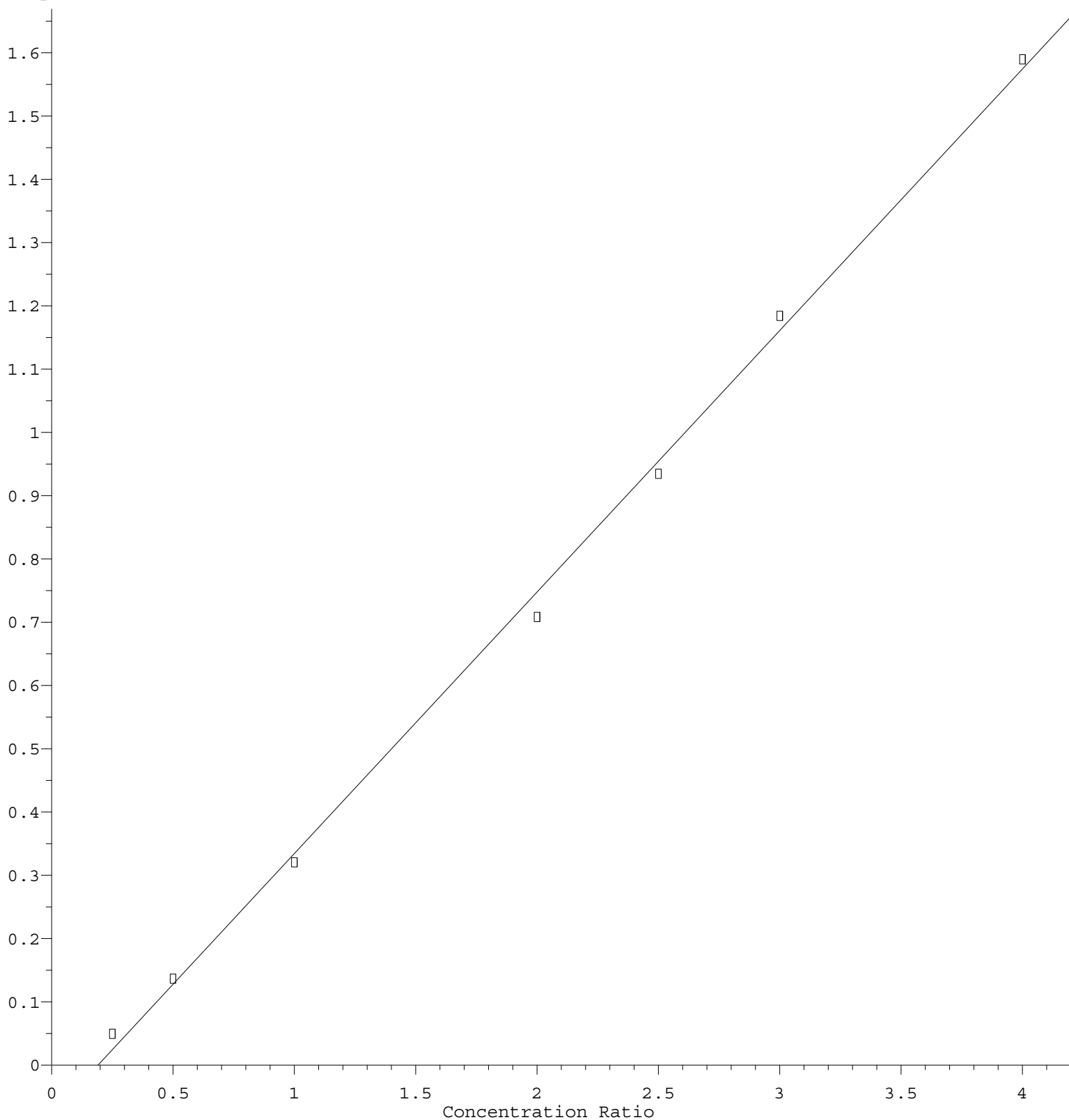
2-Nitrophenol



$R = 2.852e-002 A^2 + 1.701e-002 A + 6.243e-003$
Coef of Det (r^2) = 0.999558 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M
Calibration Table Last Updated: Tue Feb 04 02:51:00 2025

Nitrobenzene

Response Ratio



$$\text{Response} = 4.133\text{e-}001 * \text{Amt} - 7.906\text{e-}002$$

Coef of Det (r^2) = 0.998159 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020325.M

Calibration Table Last Updated: Tue Feb 04 02:51:00 2025