

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM012524.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jan 26 00:26:01 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BM043897.D 5 =BM043898.D 10 =BM043899.D 20 =BM043900.D 40 =BM043901.D 50 =BM043902.D 60 =BM043903.D 80 =BM043904.D

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

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.543	0.581	0.601	0.587	0.567	0.572	0.548	0.571	3.63	
3)	Pyridine	1.221	1.336	1.421	1.451	1.440	1.445	1.445	1.394	6.19	
4)	n-Nitrosodimet...	0.601	0.651	0.694	0.706	0.691	0.693	0.673	0.672	5.40	
5) S	2-Fluorophenol	1.077	1.176	1.259	1.289	1.274	1.313	1.278	1.238	6.72	
6)	Aniline	1.733	1.900	1.991	2.009	1.958	2.013	2.043	1.950	5.44	
7) S	Phenol-d6	1.374	1.525	1.617	1.671	1.651	1.693	1.719	1.607	7.49	
8)	2-Chlorophenol	1.090	1.209	1.303	1.380	1.364	1.403	1.397	1.307	8.98	
9)	Benzaldehyde	0.862	0.909	0.941	0.868	0.797	0.740	0.616	0.819	13.69	
10) C	Phenol	1.493	1.629	1.727	1.761	1.720	1.770	1.793	1.699	6.19	
11)	bis(2-Chloroet...	1.299	1.363	1.417	1.428	1.409	1.434	1.408	1.394	3.42	
12)	1,3-Dichlorobe...	1.478	1.570	1.601	1.602	1.560	1.588	1.518	1.559	2.95	
13) C	1,4-Dichlorobe...	1.508	1.572	1.629	1.624	1.591	1.614	1.550	1.584	2.77	
14)	1,2-Dichlorobe...	1.418	1.532	1.555	1.559	1.520	1.544	1.494	1.517	3.25	
15)	Benzyl Alcohol	0.965	1.076	1.163	1.219	1.187	1.226	1.260	1.156	8.90	
16)	2,2'-oxybis(1-...	1.961	2.132	2.221	2.209	2.152	2.176	2.144	2.142	4.04	
17)	2-Methylphenol	0.932	1.017	1.107	1.133	1.107	1.143	1.152	1.084	7.46	
18)	Hexachloroethane	0.510	0.557	0.586	0.595	0.584	0.599	0.569	0.572	5.38	
19) P	n-Nitroso-di-n...	1.074	1.030	1.109	1.214	1.195	1.157	1.172	1.180	1.141	5.61
20)	3+4-Methylphenols	1.148	1.317	1.462	1.514	1.488	1.525	1.587	1.435	10.56	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.502	0.530	0.557	0.546	0.536	0.543	0.524	0.534	3.31	
23) S	Nitrobenzene-d5	0.306	0.345	0.384	0.396	0.394	0.403	0.386	0.373	9.41	
24)	Nitrobenzene	0.308	0.343	0.379	0.381	0.380	0.386	0.371	0.364	7.83	
25)	Isophorone	0.669	0.718	0.774	0.759	0.738	0.744	0.731	0.733	4.61	
26) C	2-Nitrophenol	0.055	0.066	0.089	0.114	0.127	0.138	0.145	0.105	33.75#	
27)	2,4-Dimethylph...	0.197	0.221	0.249	0.250	0.247	0.255	0.249	0.238	8.97	
28)	bis(2-Chloroet...	0.409	0.435	0.470	0.461	0.450	0.464	0.447	0.448	4.67	
29) C	2,4-Dichloroph...	0.207	0.238	0.282	0.297	0.298	0.306	0.302	0.276	13.88	
30)	1,2,4-Trichlor...	0.324	0.338	0.356	0.354	0.348	0.352	0.333	0.343	3.50	
31)	Naphthalene	1.010	1.074	1.119	1.099	1.078	1.090	1.054	1.075	3.26	
32)	Benzoic acid	0.053	0.072	0.100	0.119	0.135	0.167	0.108		38.68	
33)	4-Chloroaniline	0.411	0.433	0.466	0.461	0.448	0.457	0.451	0.447	4.29	
34) C	Hexachlorobuta...	0.186	0.197	0.206	0.202	0.200	0.203	0.188	0.197	3.93	
35)	Caprolactam	0.059	0.073	0.095	0.099	0.097	0.101	0.107	0.090	19.42	
36) C	4-Chloro-3-met...	0.226	0.260	0.305	0.316	0.308	0.315	0.324	0.294	12.35	
37)	2-Methylnaphth...	0.698	0.730	0.777	0.759	0.745	0.757	0.744	0.744	3.38	
38)	1-Methylnaphth...	0.648	0.685	0.724	0.706	0.691	0.702	0.690	0.692	3.38	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.603	0.630	0.661	0.659	0.657	0.667	0.627	0.644	3.69	
41) P	Hexachlorocycl...	0.160	0.191	0.226	0.252	0.269	0.279	0.267	0.235	19.11	
42) S	2,4,6-Tribromo...	0.174	0.224	0.242	0.245	0.254	0.257	0.233		13.27	
43) C	2,4,6-Trichlor...	0.226	0.280	0.345	0.378	0.385	0.400	0.393	0.344	19.28	
44)	2,4,5-Trichlor...	0.250	0.308	0.383	0.416	0.420	0.434	0.430	0.377	18.88	
45) S	2-Fluorobiphenyl	1.431	1.507	1.583	1.595	1.581	1.593	1.486	1.540	4.20	
46)	1,1'-Biphenyl	1.526	1.598	1.679	1.661	1.643	1.658	1.587	1.622	3.33	
47)	2-Chloronaphth...	1.175	1.232	1.288	1.273	1.265	1.281	1.217	1.247	3.28	
48)	2-Nitroaniline	0.145	0.193	0.269	0.316	0.330	0.347	0.356	0.280	29.25	
49)	Acenaphthylene	1.867	1.988	2.120	2.102	2.073	2.101	2.032	2.040	4.37	
50)	Dimethylphthalate	1.316	1.437	1.548	1.519	1.486	1.504	1.460	1.467	5.19	
51)	2,6-Dinitrotol...	0.144	0.205	0.267	0.290	0.293	0.302	0.304	0.258	23.67	
52) C	Acenaphthene	1.070	1.129	1.205	1.202	1.187	1.196	1.159	1.164	4.26	
53)	3-Nitroaniline	0.159	0.232	0.296	0.332	0.332	0.348	0.354	0.293	24.66	
54) P	2,4-Dinitrophenol	0.040	0.052	0.067	0.078	0.088	0.106	0.072		33.55	
55)	Dibenzofuran	1.740	1.838	1.933	1.898	1.851	1.876	1.830	1.852	3.30	
56) P	4-Nitrophenol	0.152	0.215	0.255	0.258	0.276	0.287	0.241		20.82	
57)	2,4-Dinitrotol...	0.141	0.217	0.323	0.378	0.386	0.409	0.423	0.325	32.93	
58)	Fluorene	1.389	1.482	1.605	1.607	1.563	1.585	1.528	1.537	5.14	
59)	2,3,4,6-Tetrac...	0.194	0.261	0.332	0.357	0.364	0.371	0.372	0.322	21.27	
60)	Diethylphthalate	1.309	1.438	1.587	1.565	1.509	1.535	1.508	1.493	6.30	
61)	4-Chlorophenyl...	0.697	0.750	0.795	0.783	0.771	0.782	0.748	0.761	4.32	
62)	4-Nitroaniline	0.183	0.237	0.323	0.351	0.353	0.366	0.373	0.312	23.50	
63)	Azobenzene	1.448	1.562	1.666	1.630	1.583	1.592	1.528	1.573	4.52	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.028	0.039	0.055	0.064	0.073	0.085	0.057		37.44	
66) c	n-Nitrosodiphe...	0.547	0.605	0.647	0.650	0.648	0.657	0.629	0.626	6.21	
67)	4-Bromophenyl-...	0.205	0.218	0.231	0.232	0.229	0.231	0.225	0.224	4.37	
68)	Hexachlorobenzene	0.237	0.257	0.268	0.266	0.263	0.266	0.253	0.258	4.18	
69)	Atrazine	0.145	0.174	0.201	0.212	0.208	0.213	0.211	0.195	13.38	
70) C	Pentachlorophenol	0.080	0.113	0.131	0.140	0.148	0.153	0.127		21.42	
71)	Phenanthrene	1.027	1.093	1.147	1.159	1.137	1.155	1.119	1.120	4.19	
72)	Anthracene	1.019	1.098	1.170	1.182	1.174	1.191	1.150	1.140	5.41	
73)	Carbazole	0.914	1.014	1.081	1.095	1.079	1.104	1.077	1.052	6.41	
74)	Di-n-butylphth...	0.904	1.062	1.258	1.310	1.302	1.329	1.304	1.210	13.48	
75) C	Fluoranthene	1.140	1.228	1.311	1.318	1.305	1.336	1.307	1.278	5.45	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.293	0.380	0.479	0.515	0.485	0.464	0.427	0.435	17.51	
78)	Pyrene	1.241	1.330	1.433	1.407	1.394	1.407	1.360	1.367	4.78	
79) S	Terphenyl-d14	1.090	1.165	1.264	1.249	1.207	1.195	1.036	1.172	7.07	
80)	Butylbenzylpht...	0.188	0.268	0.400	0.477	0.492	0.521	0.542	0.412	32.92	
81)	Benzo(a)anthra...	1.309	1.393	1.471	1.460	1.445	1.445	1.375	1.414	4.11	
82)	3,3'-Dichlorob...	0.310	0.377	0.448	0.476	0.475	0.485	0.472	0.435	15.28	
83)	Chrysene	1.234	1.319	1.391	1.367	1.342	1.346	1.289	1.327	3.96	
84)	Bis(2-ethylhex...	0.467	0.617	0.788	0.862	0.867	0.895	0.885	0.769	21.39	
85) c	Di-n-octyl pht...	0.875	1.183	1.344	1.369	1.427	1.459	1.276		17.13	

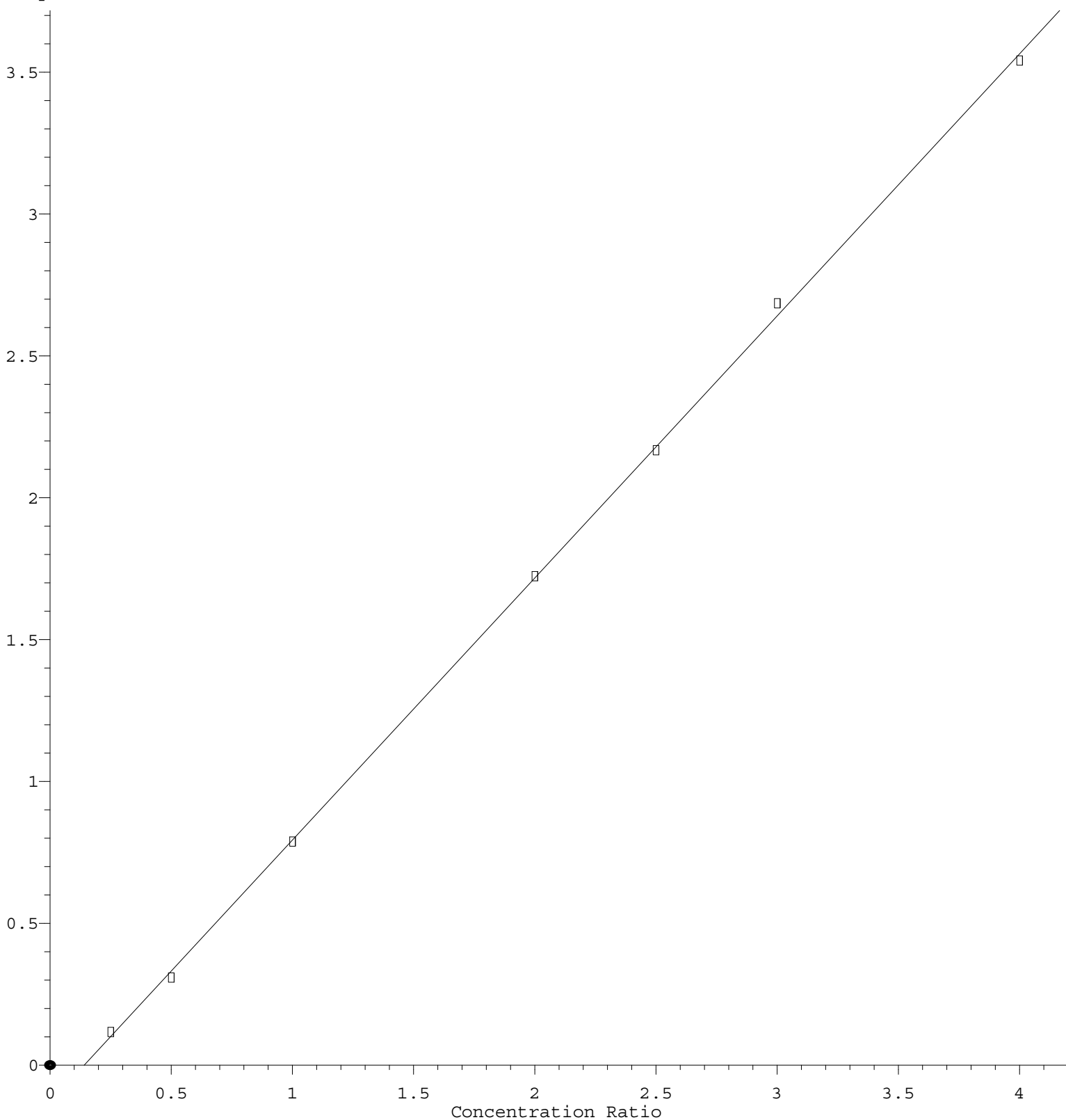
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.270	1.419	1.542	1.581	1.560	1.593	1.528	1.499	7.73
88)	Benzo(b)fluora...	1.081	1.171	1.256	1.305	1.304	1.303	1.271	1.242	6.85
89)	Benzo(k)fluora...	1.102	1.214	1.317	1.312	1.288	1.323	1.220	1.254	6.43
90) C	Benzo(a)pyrene	0.980	1.081	1.189	1.208	1.197	1.216	1.175	1.149	7.59
91)	Dibenzo(a,h)an...	1.038	1.150	1.251	1.293	1.276	1.301	1.247	1.222	7.81
92)	Benzo(g,h,i)pe...	0.987	1.087	1.178	1.192	1.174	1.197	1.160	1.139	6.73

(#) = Out of Range

Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 9.239\text{e-}001 * \text{Amt} - 1.303\text{e-}001$$

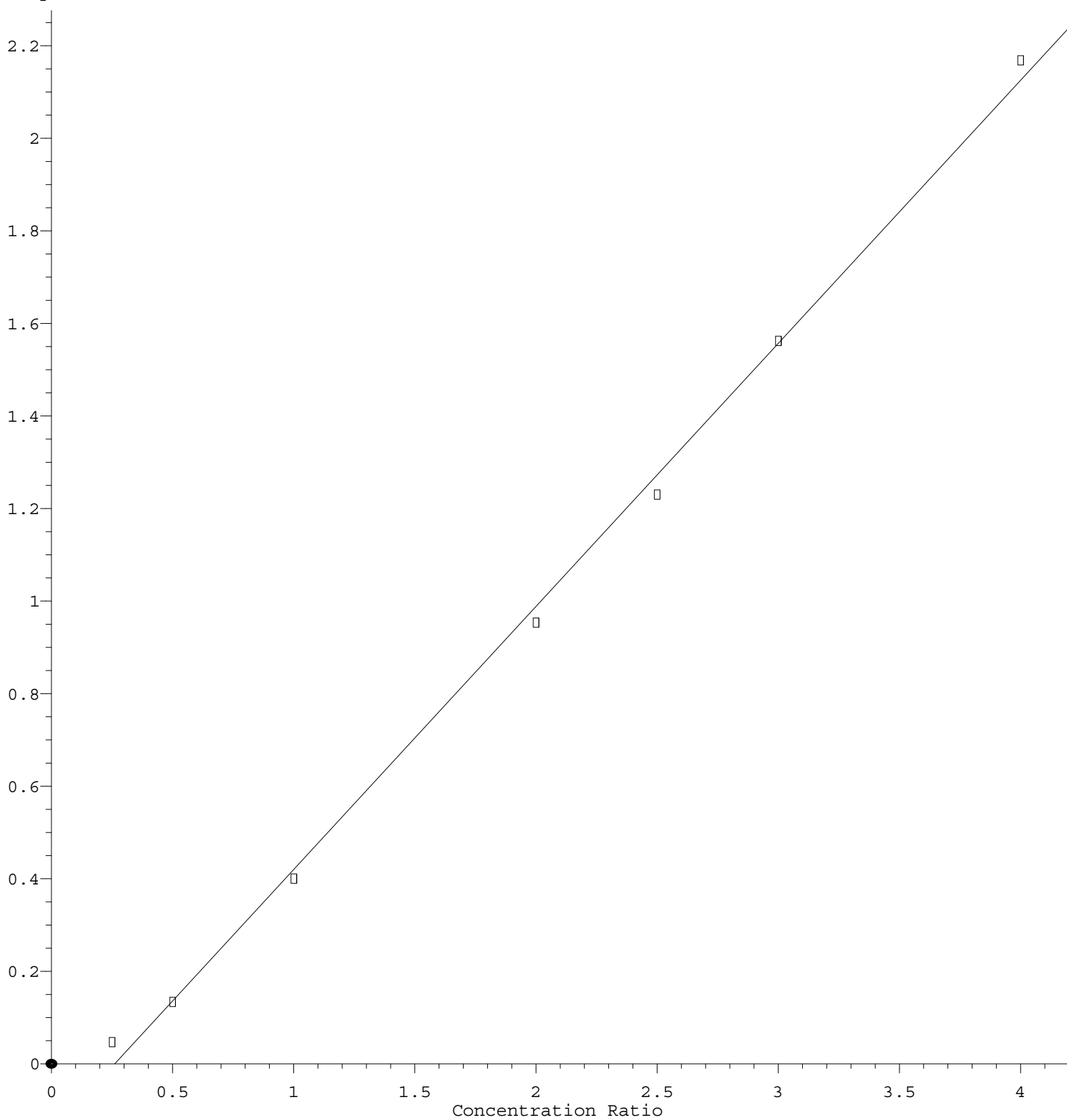
Coef of Det (r^2) = 0.999642 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



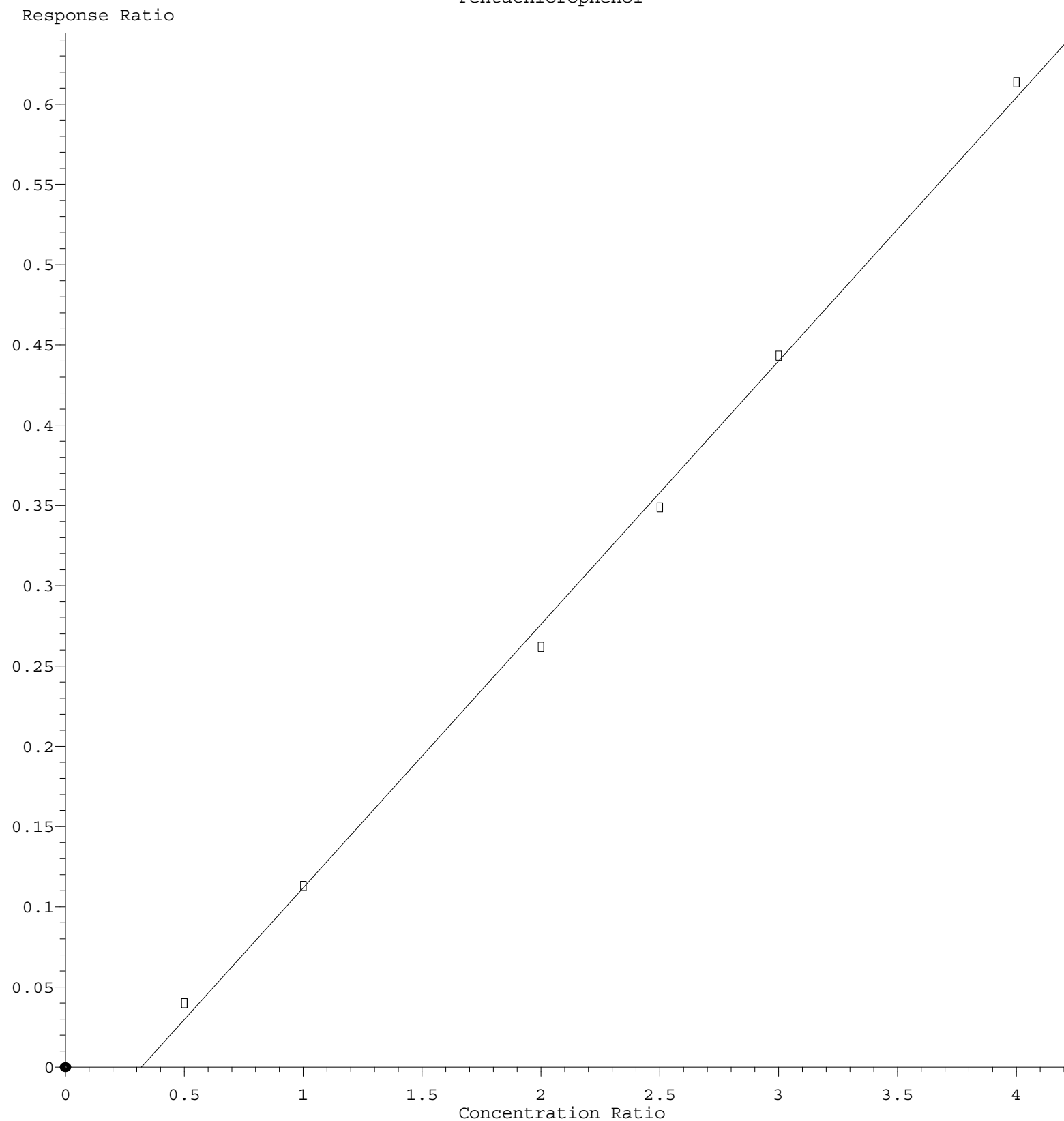
$$\text{Response} = 5.684\text{e-}001 * \text{Amt} - 1.481\text{e-}001$$

Coef of Det (r^2) = 0.997805 Curve Fit: Linear

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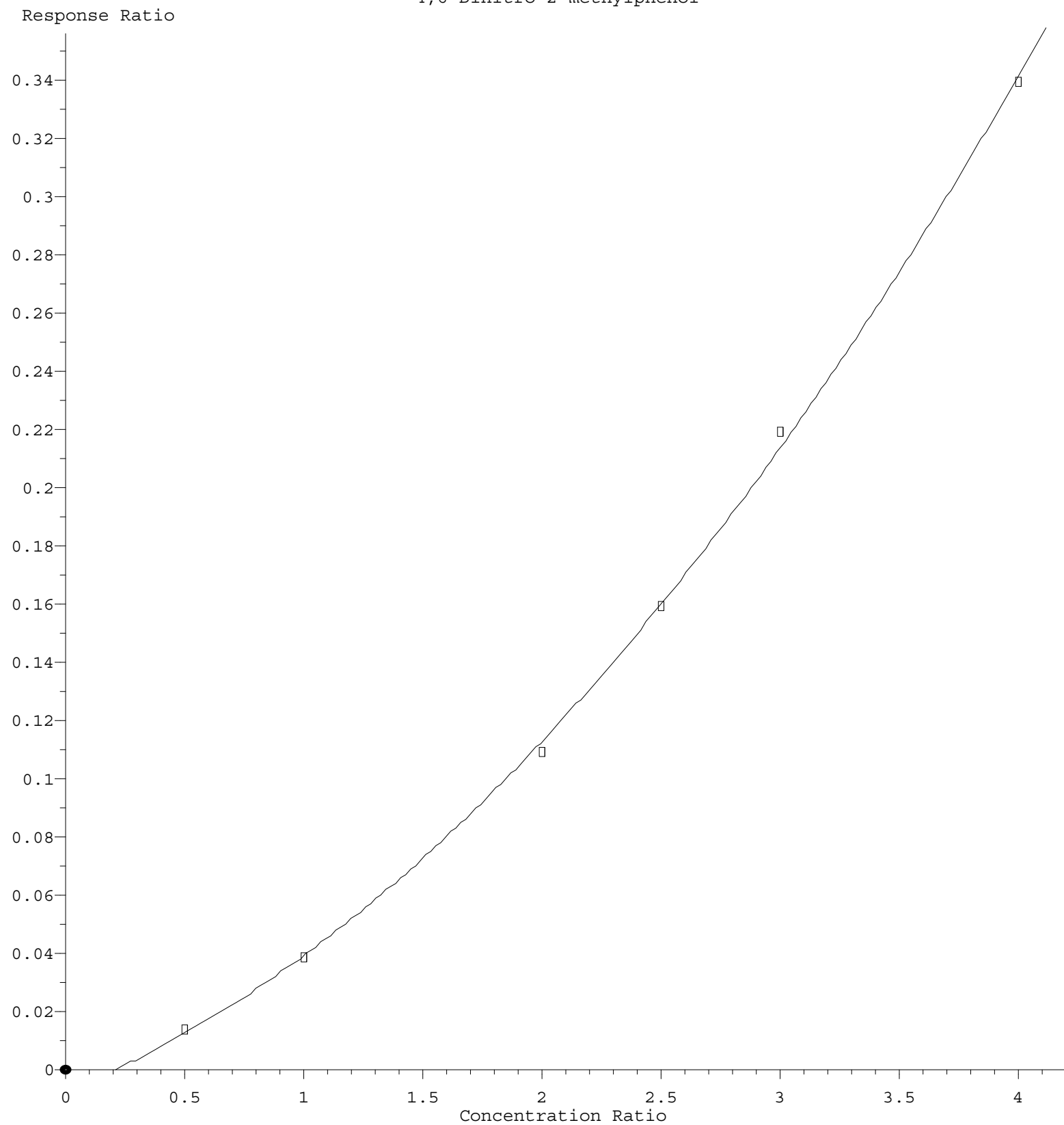
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Pentachlorophenol



Response = 1.643e-001 * Amt - 5.246e-002
 Coef of Det (r^2) = 0.997839 Curve Fit: Linear
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4,6-Dinitro-2-methylphenol



$$R = 1.351e-002 A^2 + 3.318e-002 A - 7.459e-003$$

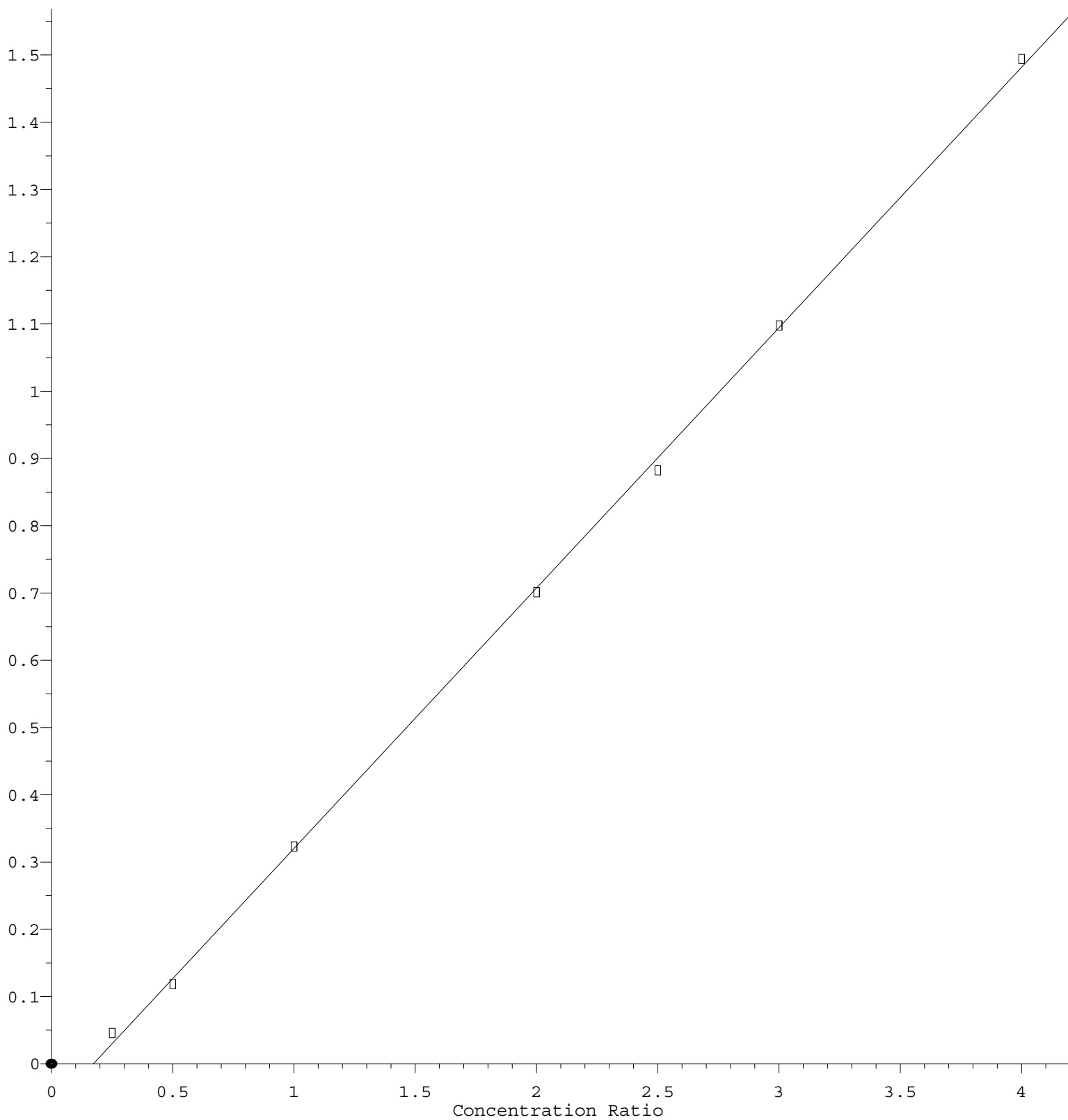
Coef of Det (r^2) = 0.999302 Curve Fit: Quadratic

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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.872\text{e-}001 * \text{Amt} - 6.683\text{e-}002$$

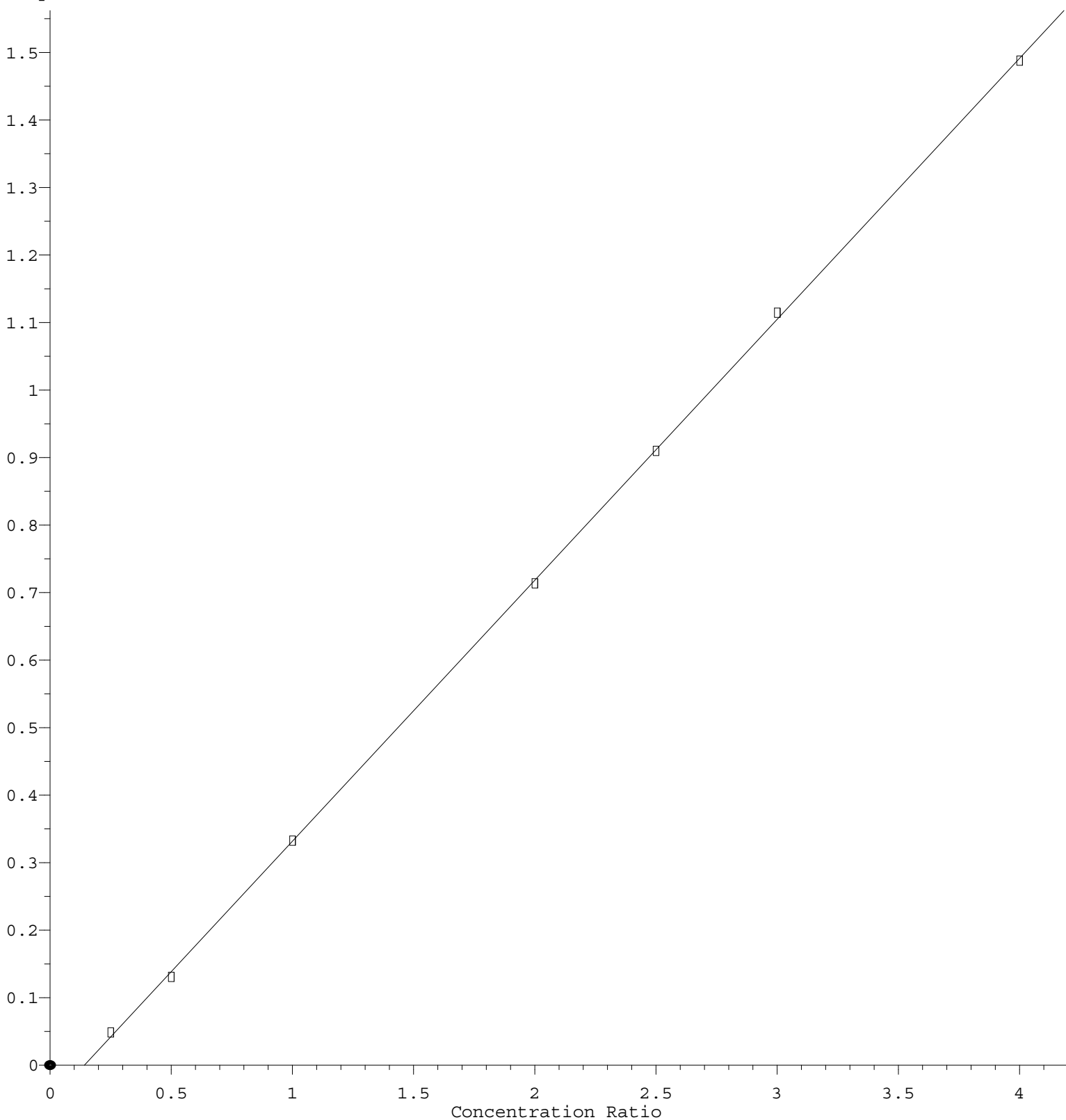
Coef of Det (r^2) = 0.999493 Curve Fit: Linear

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2,3,4,6-Tetrachlorophenol

Response Ratio



$$\text{Response} = 3.866\text{e-}001 * \text{Amt} - 5.506\text{e-}002$$

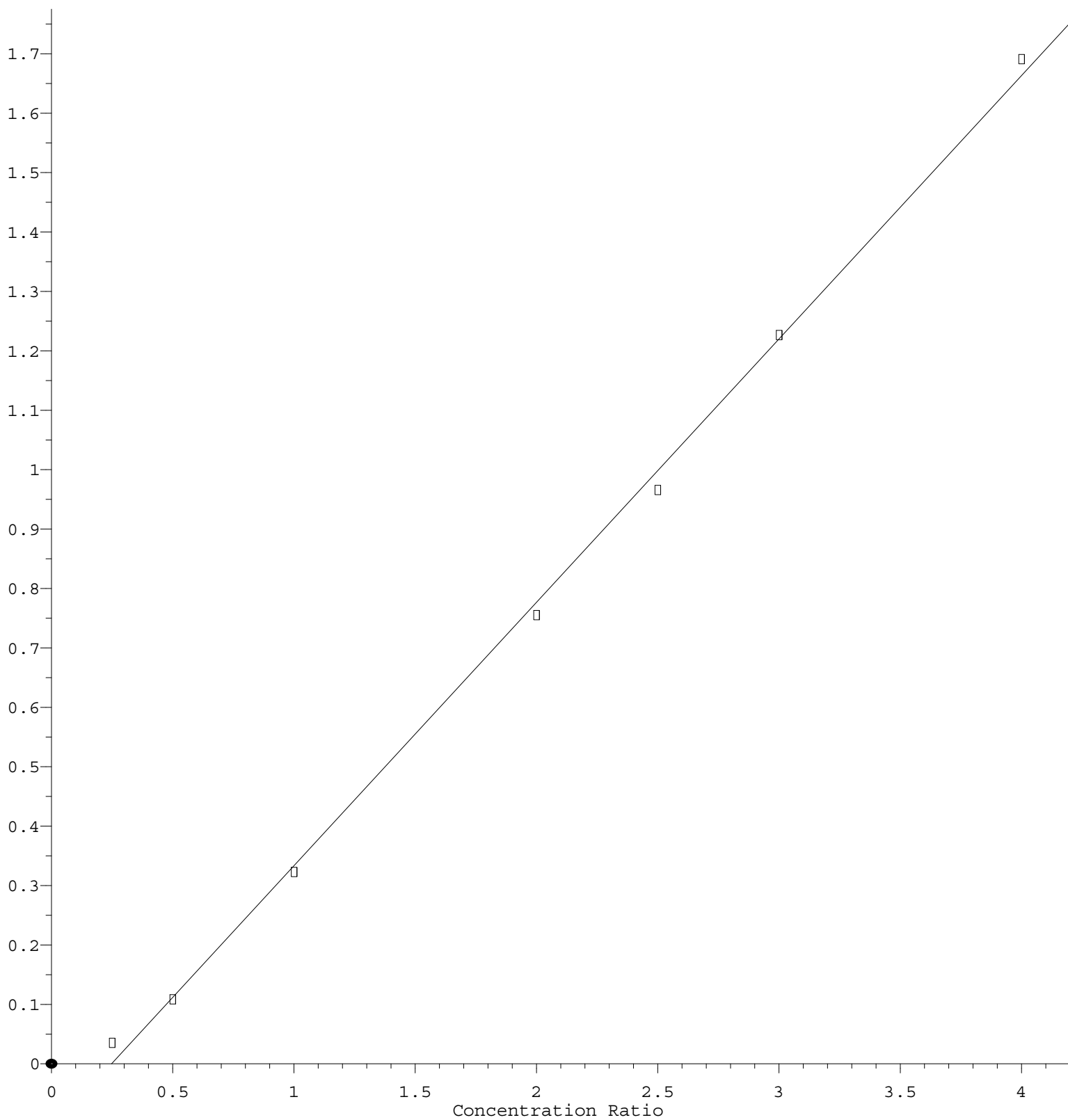
Coef of Det (r^2) = 0.999864 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.434\text{e-}001 * \text{Amt} - 1.100\text{e-}001$$

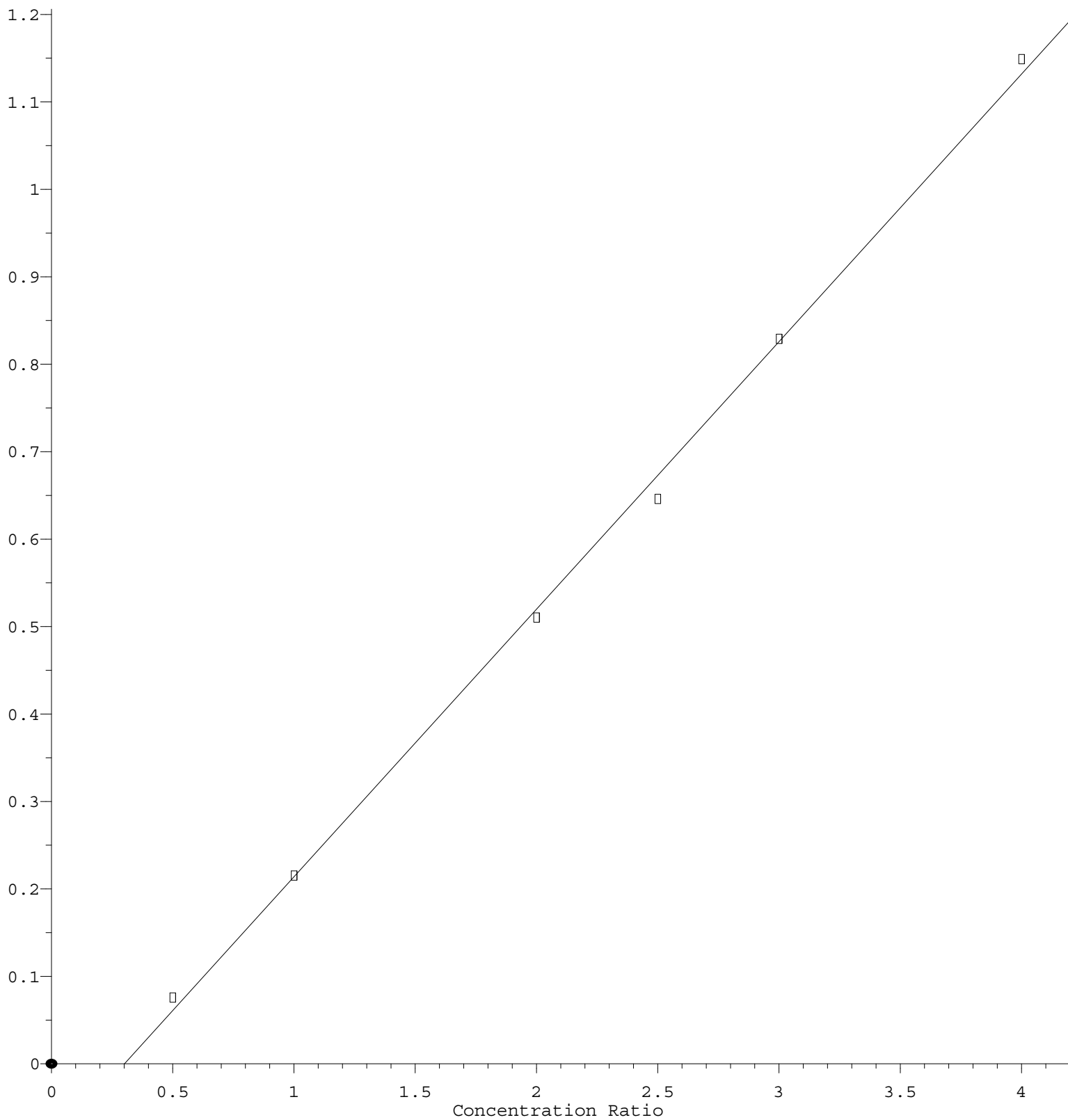
Coef of Det (r^2) = 0.998398 Curve Fit: Linear

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4-Nitrophenol

Response Ratio



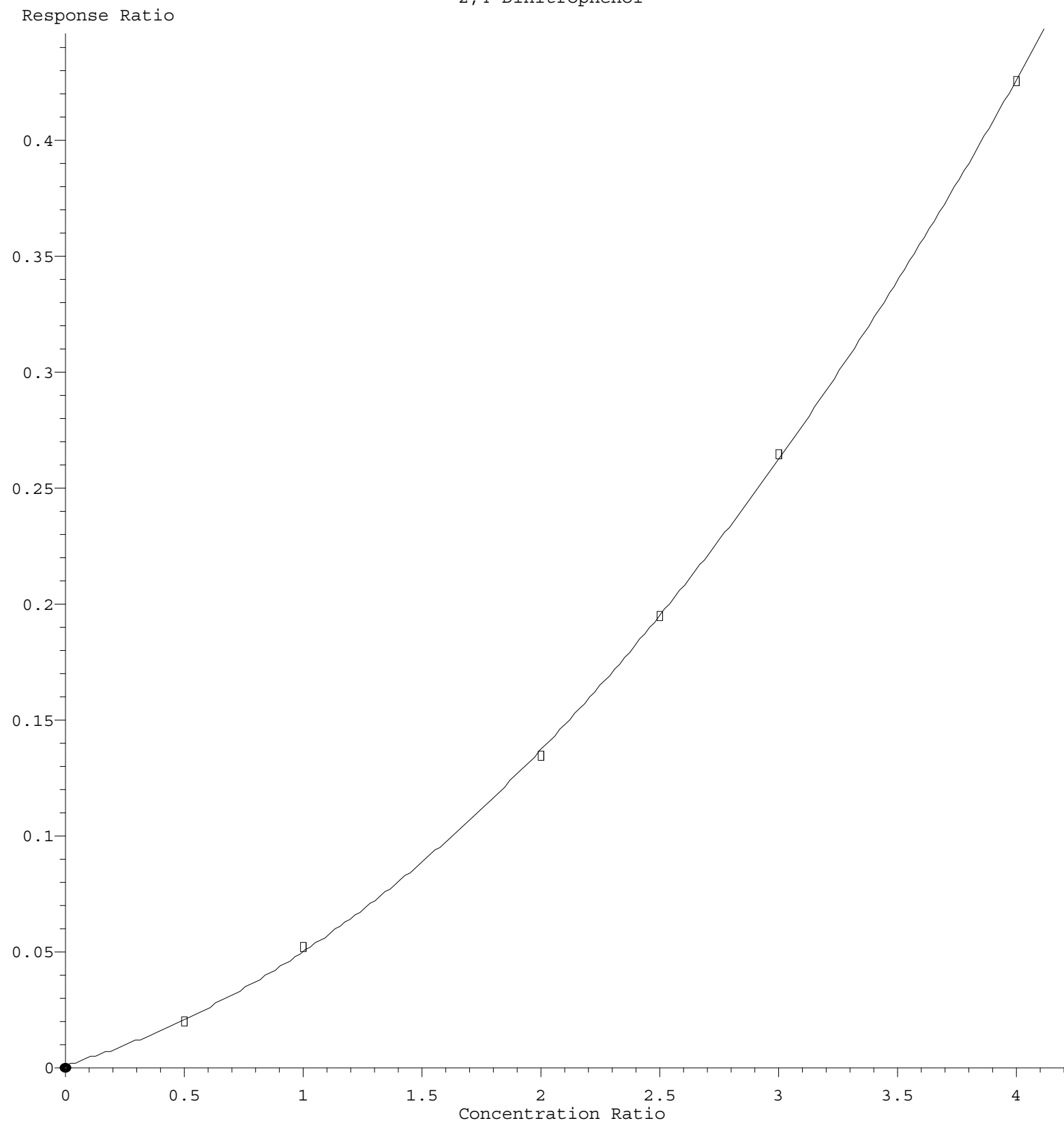
$$\text{Response} = 3.060\text{e-}001 * \text{Amt} - 9.214\text{e-}002$$

Coef of Det (r^2) = 0.998291 Curve Fit: Linear

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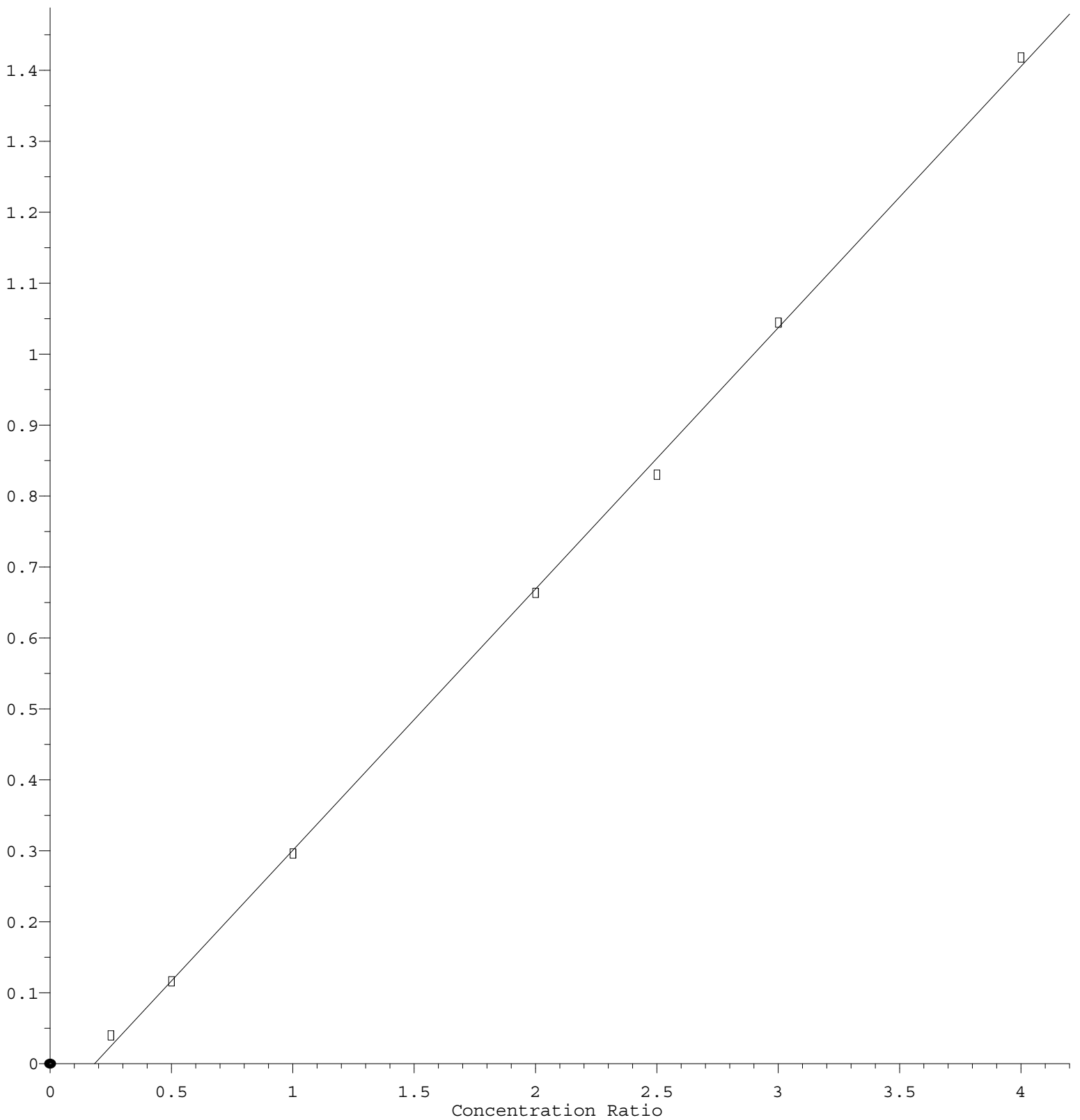
2,4-Dinitrophenol



$R = 1.911e-002 A^2 + 2.977e-002 A + 1.175e-003$
 Coef of Det (r^2) = 0.999854 Curve Fit: Quadratic
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.682\text{e-}001 * \text{Amt} - 6.723\text{e-}002$$

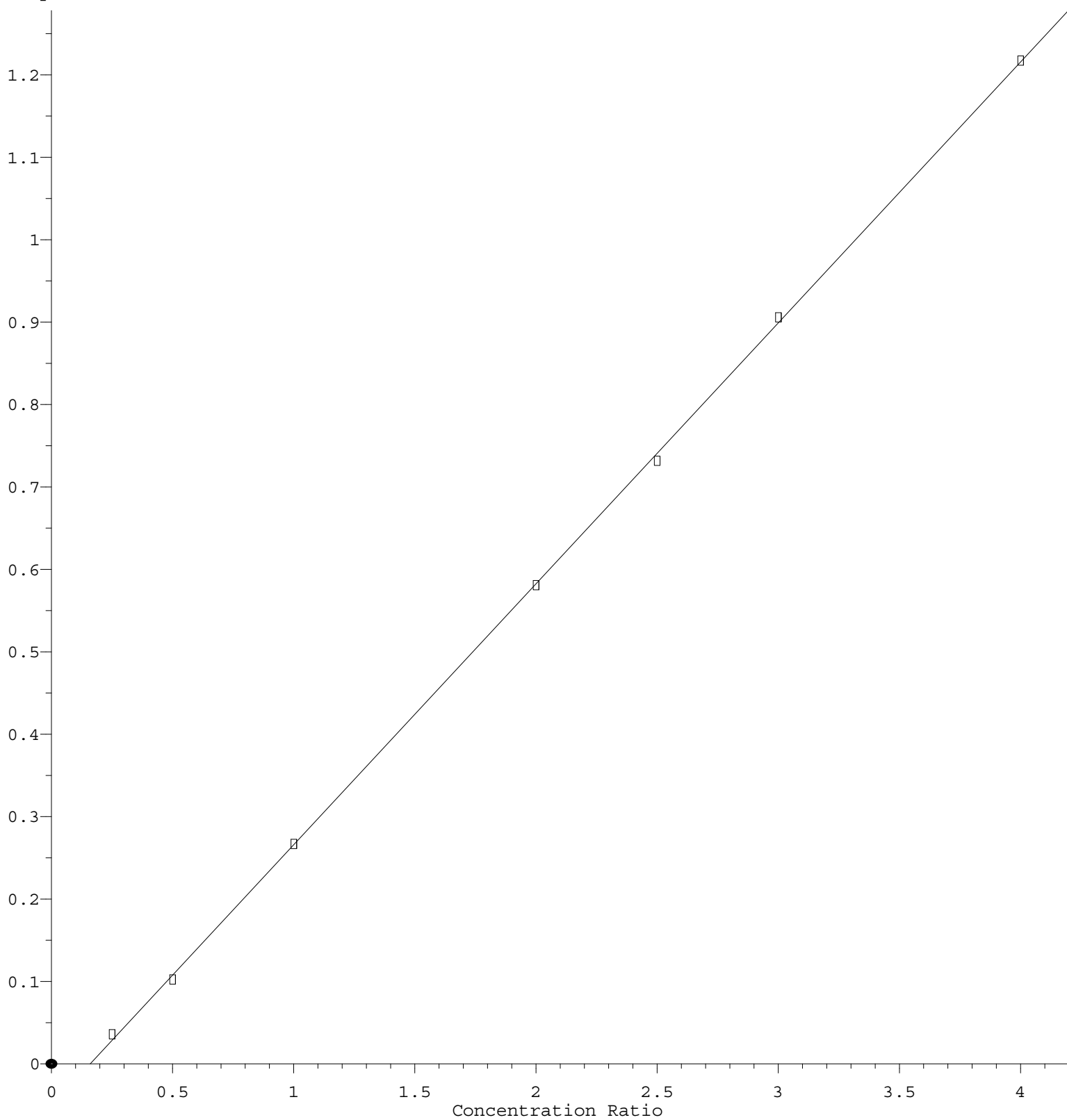
Coef of Det (r^2) = 0.999340 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.165\text{e-}001 * \text{Amt} - 5.050\text{e-}002$$

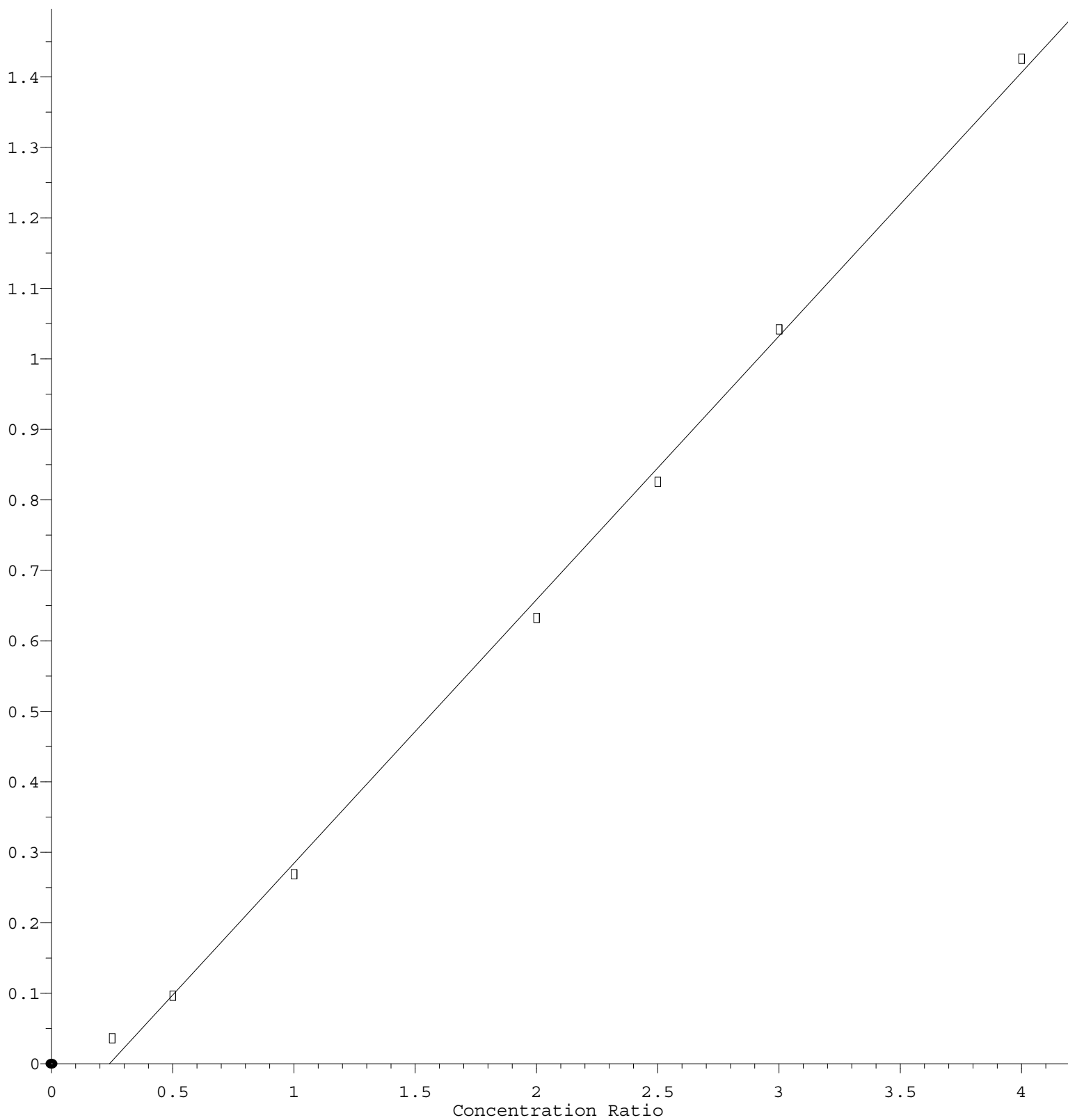
Coef of Det (r^2) = 0.999812 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



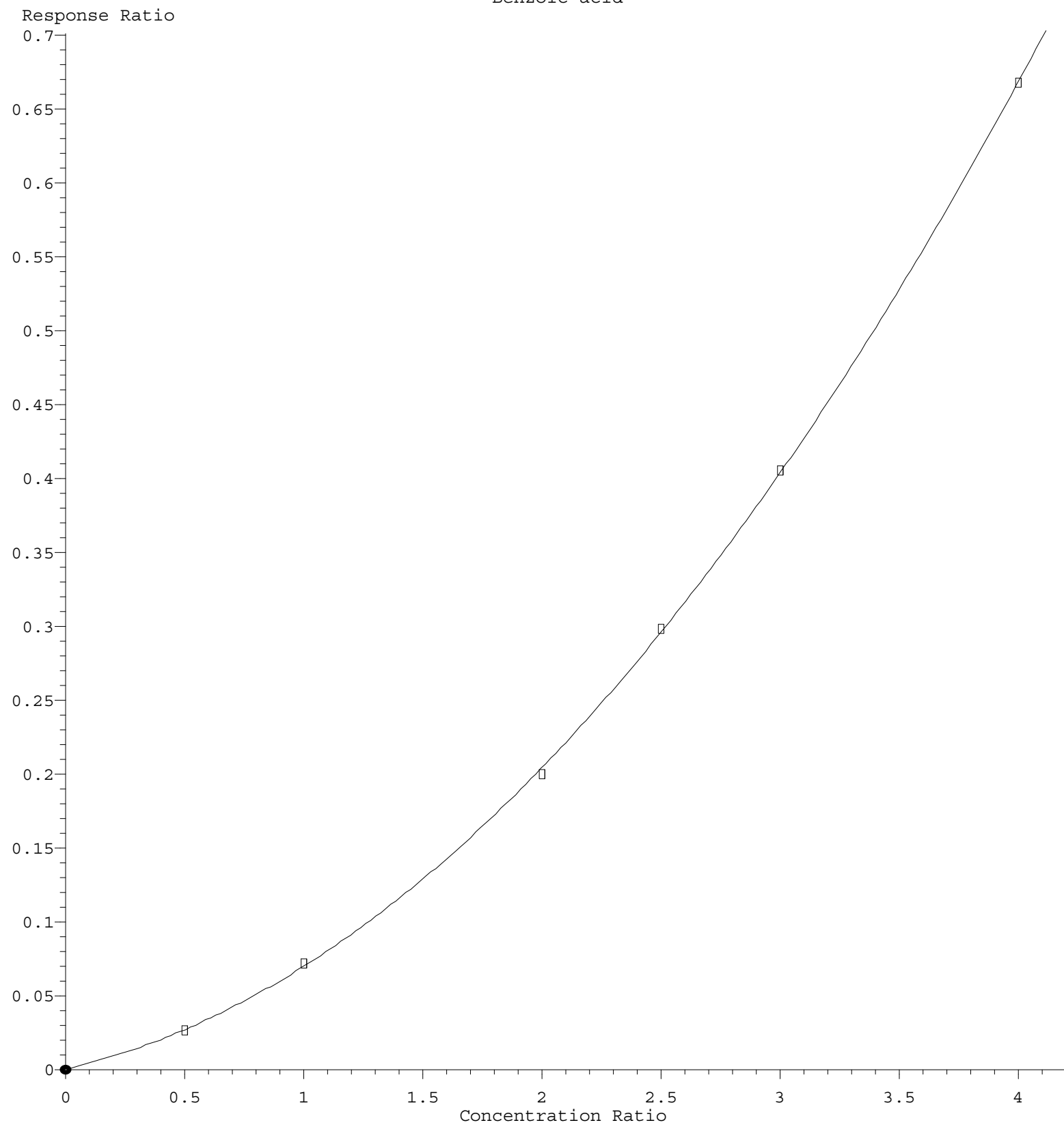
$$\text{Response} = 3.738\text{e-}001 * \text{Amt} - 8.946\text{e-}002$$

Coef of Det (r^2) = 0.998248 Curve Fit: Linear

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Benzoic acid



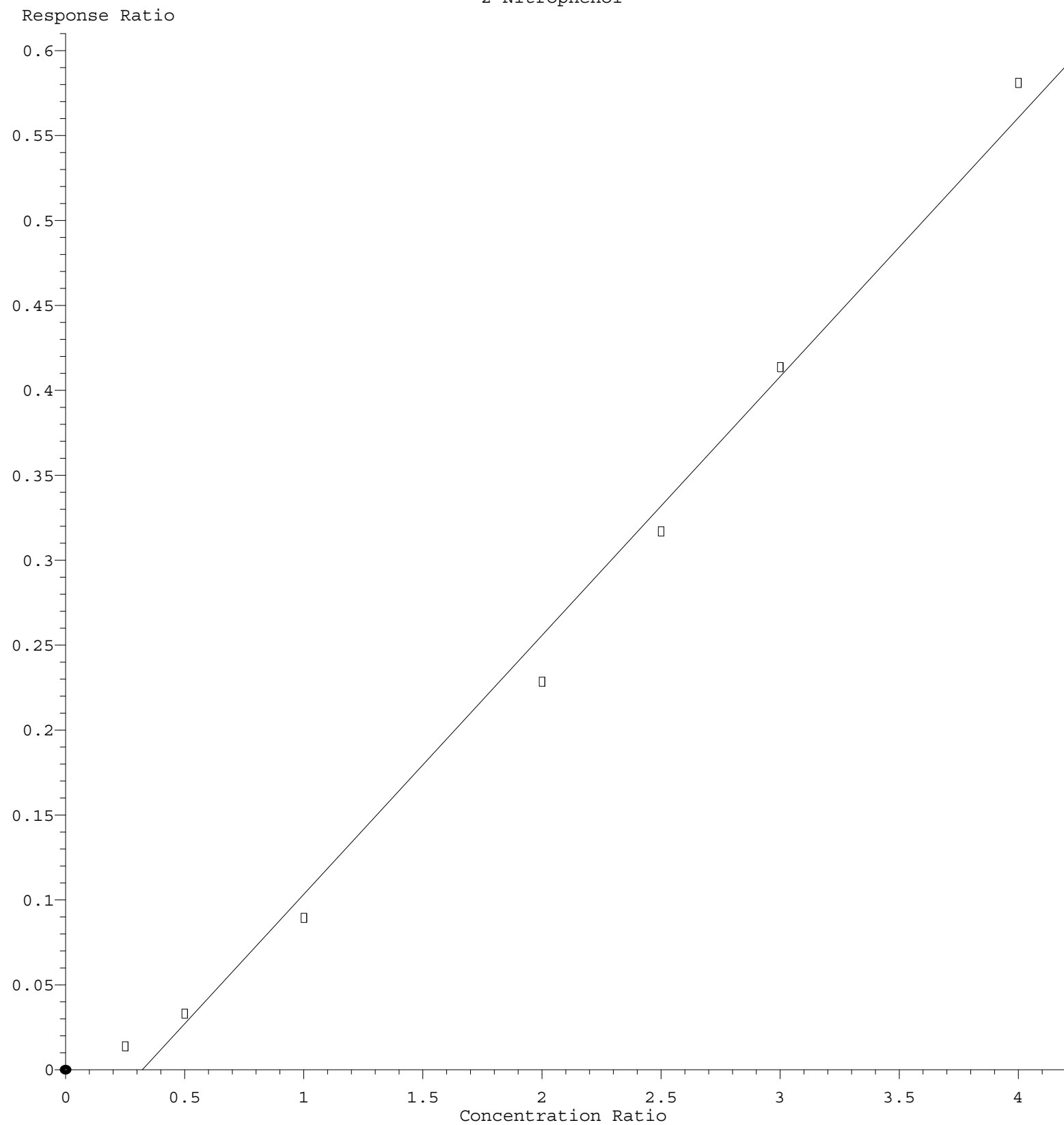
$$R = 3.252e-002 A^2 + 3.688e-002 A + 6.043e-004$$

Coef of Det (r^2) = 0.999887 Curve Fit: Quadratic

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2-Nitrophenol



$$\text{Response} = 1.525\text{e-}001 * \text{Amt} - 4.915\text{e-}002$$

Coef of Det (r^2) = 0.991611 Curve Fit: Linear

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