

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM030823.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Mar 09 05:21:24 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BM038927.D 5 =BM038928.D 10 =BM038929.D 20 =BM038930.D 40 =BM038931.D 50 =BM038932.D 60 =BM038933.D 80 =BM038934.D

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

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane	0.604	0.599	0.634	0.601	0.568	0.567	0.526	0.586	5.97	
3) Pyridine	1.483	1.598	1.757	1.708	1.622	1.620	1.582	1.624	5.44	
4) n-Nitrosodimet...	0.643	0.678	0.730	0.682	0.645	0.636	0.612	0.661	5.90	
5) S 2-Fluorophenol	1.256	1.296	1.415	1.362	1.309	1.313	1.264	1.316	4.24	
6) Aniline	2.050	2.175	2.443	2.325	2.232	2.257	2.234	2.245	5.43	
7) S Phenol-d6	1.564	1.678	1.874	1.757	1.686	1.722	1.689	1.710	5.47	
8) 2-Chlorophenol	1.303	1.366	1.516	1.446	1.391	1.411	1.377	1.401	4.77	
9) Benzaldehyde	0.906	0.966	0.914	0.767	0.737	0.729	0.676	0.814	13.83	
10) C Phenol	1.699	1.787	1.960	1.862	1.789	1.820	1.793	1.816	4.42	
11) bis(2-Chloroet...	1.419	1.468	1.614	1.508	1.435	1.451	1.438	1.476	4.55	
12) 1,3-Dichlorobe...	1.447	1.474	1.604	1.540	1.466	1.469	1.426	1.489	4.14	
13) C 1,4-Dichlorobe...	1.465	1.509	1.635	1.563	1.490	1.497	1.444	1.515	4.29	
14) 1,2-Dichlorobe...	1.420	1.446	1.587	1.502	1.423	1.435	1.401	1.459	4.43	
15) Benzyl Alcohol	1.088	1.169	1.338	1.279	1.223	1.247	1.235	1.226	6.51	
16) 2,2'-oxybis(1-...	1.808	1.890	2.081	1.892	1.794	1.807	1.780	1.864	5.66	
17) 2-Methylphenol	1.100	1.203	1.387	1.294	1.245	1.256	1.247	1.247	6.98	
18) Hexachloroethane	0.519	0.542	0.603	0.582	0.553	0.564	0.549	0.559	4.93	
19) P n-Nitroso-di-n...	0.868	0.974	1.087	1.248	1.151	1.089	1.106	1.092	1.077	10.54
20) 3+4-Methylphenols	1.462	1.591	1.859	1.729	1.655	1.679	1.683	1.666	7.32	

21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone	0.514	0.533	0.597	0.582	0.562	0.575	0.564	0.561	5.12	
23) S Nitrobenzene-d5	0.352	0.373	0.432	0.429	0.418	0.428	0.417	0.407	7.69	
24) Nitrobenzene	0.378	0.400	0.457	0.447	0.434	0.445	0.434	0.428	6.66	
25) Isophorone	0.618	0.675	0.800	0.797	0.779	0.797	0.779	0.749	9.68	
26) C 2-Nitrophenol	0.119	0.135	0.174	0.182	0.184	0.193	0.196	0.169	17.60	
27) 2,4-Dimethylph...	0.276	0.301	0.346	0.345	0.336	0.341	0.340	0.326	8.33	
28) bis(2-Chloroet...	0.433	0.453	0.512	0.499	0.484	0.499	0.490	0.481	5.81	
29) C 2,4-Dichloroph...	0.253	0.278	0.326	0.329	0.320	0.333	0.328	0.310	10.06	
30) 1,2,4-Trichlor...	0.317	0.316	0.353	0.348	0.341	0.349	0.344	0.338	4.51	
31) Naphthalene	1.073	1.087	1.202	1.182	1.146	1.159	1.134	1.140	4.14	
32) Benzoic acid	0.139	0.193	0.229	0.233	0.248	0.255	0.216	20.17		
33) 4-Chloroaniline	0.418	0.448	0.514	0.515	0.500	0.510	0.496	0.486	7.77	
34) C Hexachlorobuta...	0.180	0.182	0.201	0.200	0.195	0.201	0.198	0.194	4.66	
35) Caprolactam	0.071	0.090	0.103	0.102	0.103	0.097	0.094	13.04		
36) C 4-Chloro-3-met...	0.265	0.299	0.349	0.351	0.349	0.353	0.341	0.330	10.44	
37) 2-Methylnaphth...	0.687	0.724	0.807	0.792	0.775	0.793	0.772	0.764	5.67	
38) 1-Methylnaphth...	0.646	0.676	0.754	0.747	0.730	0.744	0.717	0.716	5.68	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.602	0.618	0.678	0.663	0.649	0.670	0.672	0.650	4.54	
41) P	Hexachlorocycl...	0.288	0.308	0.364	0.375	0.370	0.389	0.405	0.357	12.04	
42) S	2,4,6-Tribromo...	0.184	0.224	0.245	0.243	0.253	0.239	0.231		10.84	
43) C	2,4,6-Trichlor...	0.338	0.369	0.439	0.450	0.440	0.457	0.455	0.421	11.26	
44)	2,4,5-Trichlor...	0.393	0.439	0.516	0.528	0.516	0.533	0.525	0.493	11.06	
45) S	2-Fluorobiphenyl	1.447	1.478	1.648	1.586	1.532	1.554	1.509	1.536	4.40	
46)	1,1'-Biphenyl	1.584	1.618	1.800	1.733	1.683	1.739	1.703	1.694	4.38	
47)	2-Chloronaphth...	1.167	1.205	1.349	1.315	1.280	1.324	1.304	1.278	5.22	
48)	2-Nitroaniline	0.237	0.294	0.377	0.416	0.412	0.424	0.408	0.367	19.79	
49)	Acenaphthylene	1.725	1.876	2.154	2.152	2.110	2.160	2.069	2.035	8.32	
50)	Dimethylphthalate	1.370	1.418	1.604	1.637	1.591	1.624	1.530	1.539	6.86	
51)	2,6-Dinitrotol...	0.218	0.267	0.325	0.347	0.344	0.353	0.336	0.313	16.23	
52) C	Acenaphthene	1.139	1.174	1.328	1.310	1.273	1.293	1.239	1.251	5.67	
53)	3-Nitroaniline	0.251	0.294	0.371	0.413	0.406	0.415	0.389	0.363	17.82	
54) P	2,4-Dinitrophenol	0.106	0.147	0.183	0.184	0.198	0.193	0.169		21.10	
55)	Dibenzofuran	1.828	1.864	2.066	2.043	1.979	2.007	1.913	1.957	4.64	
56) P	4-Nitrophenol	0.232	0.294	0.335	0.328	0.334	0.310	0.306		12.92	
57)	2,4-Dinitrotol...	0.259	0.309	0.407	0.464	0.457	0.468	0.440	0.401	20.82	
58)	Fluorene	1.369	1.422	1.622	1.637	1.587	1.598	1.497	1.533	6.87	
59)	2,3,4,6-Tetrac...	0.314	0.340	0.397	0.412	0.400	0.407	0.390	0.380	9.95	
60)	Diethylphthalate	1.287	1.327	1.553	1.634	1.585	1.603	1.493	1.497	9.19	
61)	4-Chlorophenyl...	0.670	0.698	0.797	0.795	0.776	0.792	0.744	0.753	6.79	
62)	4-Nitroaniline	0.224	0.277	0.367	0.427	0.422	0.426	0.390	0.362	22.30	
63)	Azobenzene	1.267	1.430	1.703	1.738	1.682	1.698	1.573	1.584	11.07	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.079	0.109	0.128	0.128	0.137	0.138	0.120		18.96	
66) c	n-Nitrosodiphe...	0.575	0.626	0.726	0.704	0.680	0.704	0.704	0.674	8.03	
67)	4-Bromophenyl-...	0.182	0.196	0.228	0.225	0.219	0.230	0.232	0.216	8.88	
68)	Hexachlorobenzene	0.218	0.224	0.254	0.248	0.241	0.252	0.253	0.241	6.09	
69)	Atrazine	0.144	0.161	0.190	0.205	0.197	0.199	0.193	0.184	12.20	
70) C	Pentachlorophenol	0.139	0.174	0.187	0.185	0.192	0.189	0.178		11.14	
71)	Phenanthrene	1.086	1.107	1.243	1.226	1.179	1.205	1.172	1.174	4.99	
72)	Anthracene	0.997	1.067	1.241	1.258	1.199	1.232	1.200	1.171	8.46	
73)	Carbazole	0.892	0.967	1.115	1.169	1.111	1.138	1.086	1.068	9.41	
74)	Di-n-butylphth...	0.850	0.956	1.193	1.344	1.330	1.348	1.286	1.187	17.13	
75) C	Fluoranthene	1.066	1.105	1.264	1.362	1.308	1.324	1.246	1.239	9.06	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.290	0.353	0.476	0.452	0.446	0.484	0.417		18.69	
78)	Pyrene	1.299	1.417	1.610	1.564	1.519	1.547	1.559	1.502	7.16	
79) S	Terphenyl-d14	0.979	1.027	1.191	1.165	1.106	1.113	1.076	1.094	6.78	
80)	Butylbenzylpht...	0.351	0.423	0.552	0.636	0.632	0.654	0.658	0.558	22.17	
81)	Benzo(a)anthra...	1.258	1.320	1.508	1.536	1.476	1.513	1.472	1.440	7.44	
82)	3,3'-Dichlorob...	0.353	0.431	0.476	0.464	0.473	0.459	0.443		10.55	
83)	Chrysene	1.291	1.309	1.467	1.473	1.406	1.453	1.407	1.401	5.29	
84)	Bis(2-ethylhex...	0.523	0.620	0.824	0.954	0.936	0.950	0.924	0.819	21.55	
85) c	Di-n-octyl pht...	0.955	1.271	1.563	1.546	1.596	1.553	1.414		17.98	

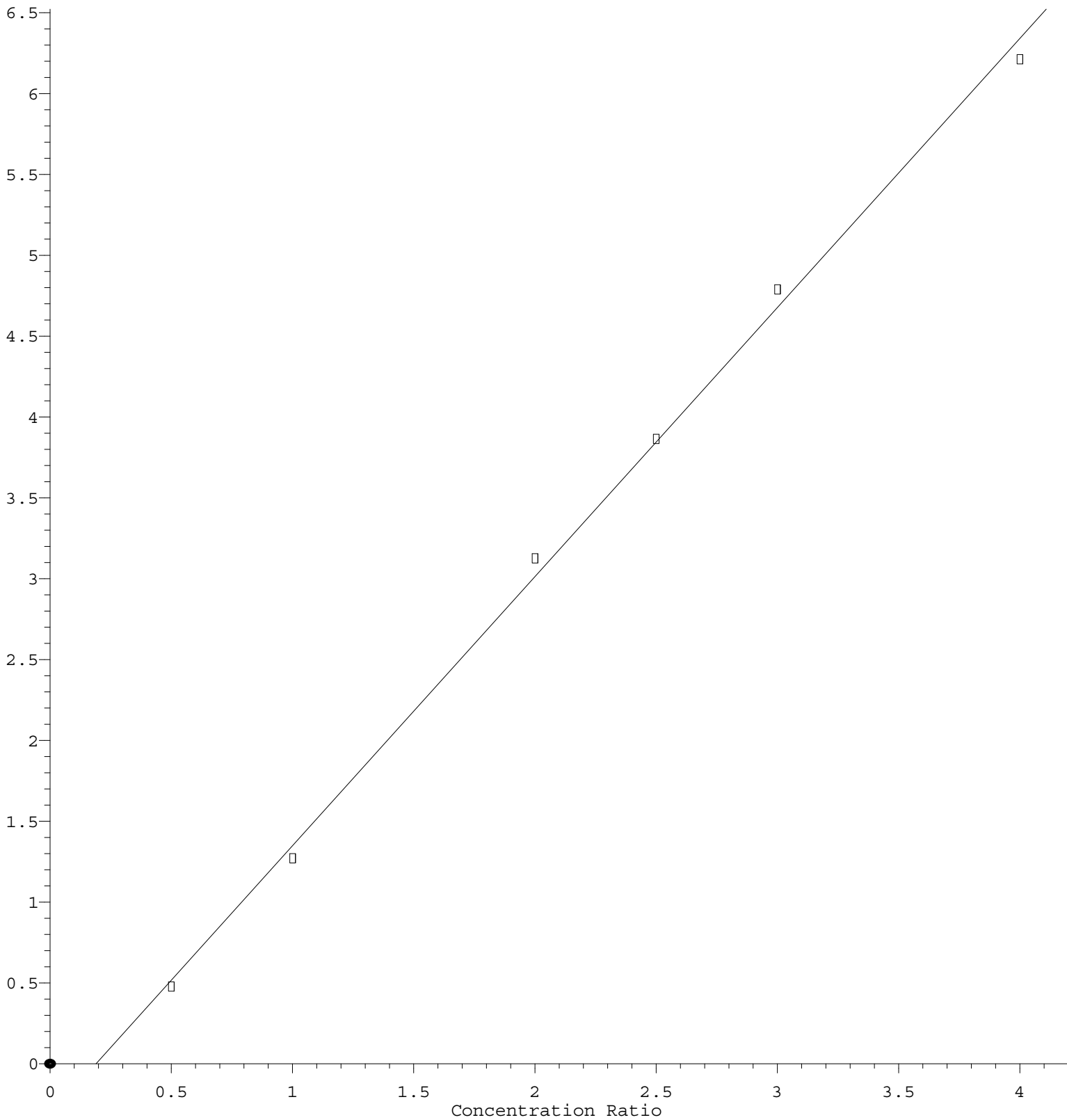
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.249	1.335	1.590	1.653	1.589	1.631	1.605	1.522	10.55
88)	Benzo(b)fluora...	1.065	1.146	1.376	1.373	1.322	1.327	1.336	1.278	9.54
89)	Benzo(k)fluora...	1.124	1.216	1.364	1.416	1.374	1.429	1.386	1.330	8.62
90) C	Benzo(a)pyrene	0.992	1.061	1.277	1.336	1.292	1.331	1.319	1.230	11.52
91)	Dibenzo(a,h)an...	1.073	1.143	1.344	1.401	1.339	1.373	1.349	1.289	9.86
92)	Benzo(g,h,i)pe...	1.062	1.111	1.308	1.357	1.307	1.349	1.333	1.261	9.65

(#) = Out of Range

Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.664\text{e}+000 * \text{Amt} - 3.159\text{e}-001$$

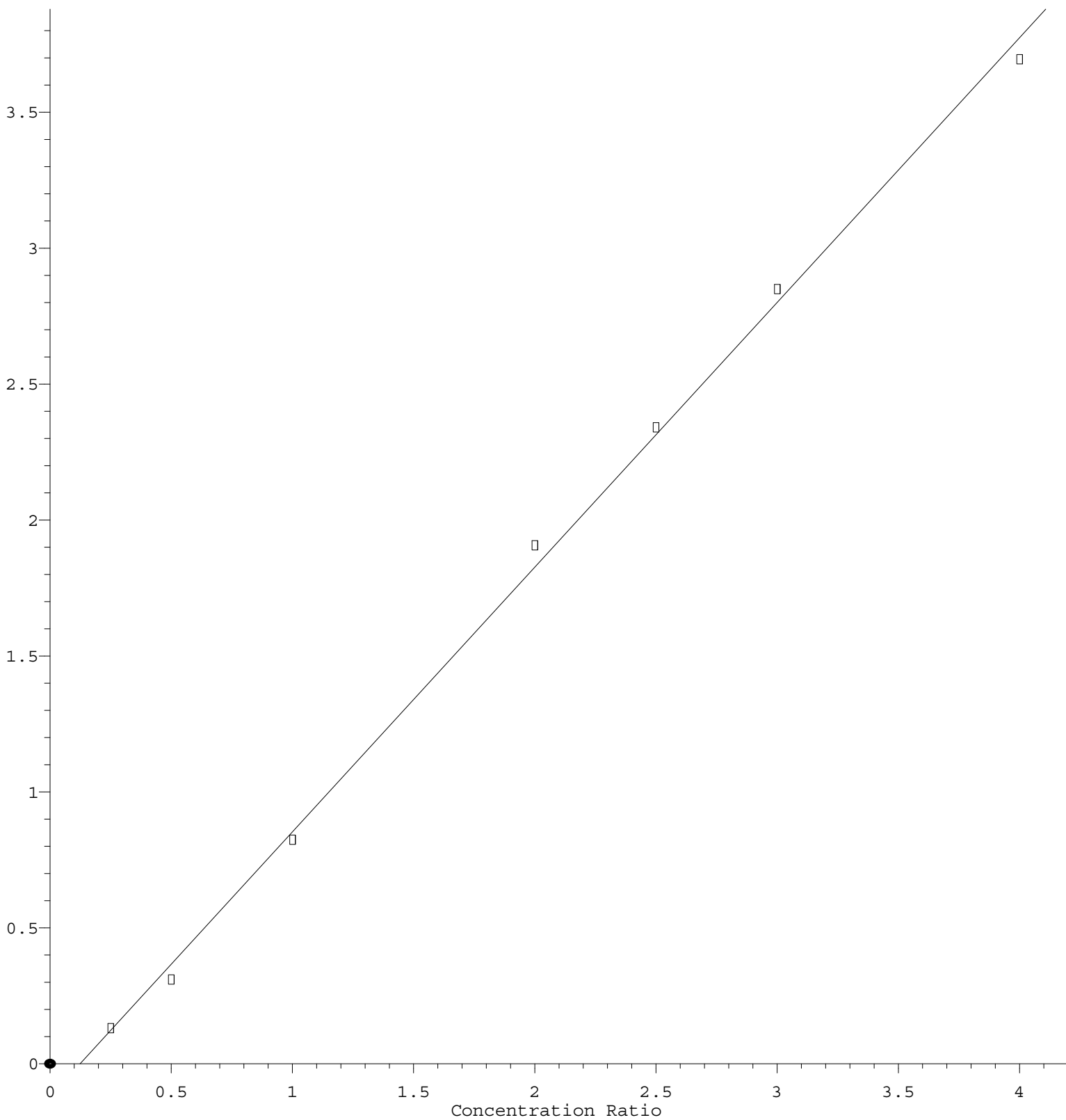
Coef of Det (r^2) = 0.997844 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 9.739\text{e-}001 * \text{Amt} - 1.210\text{e-}001$$

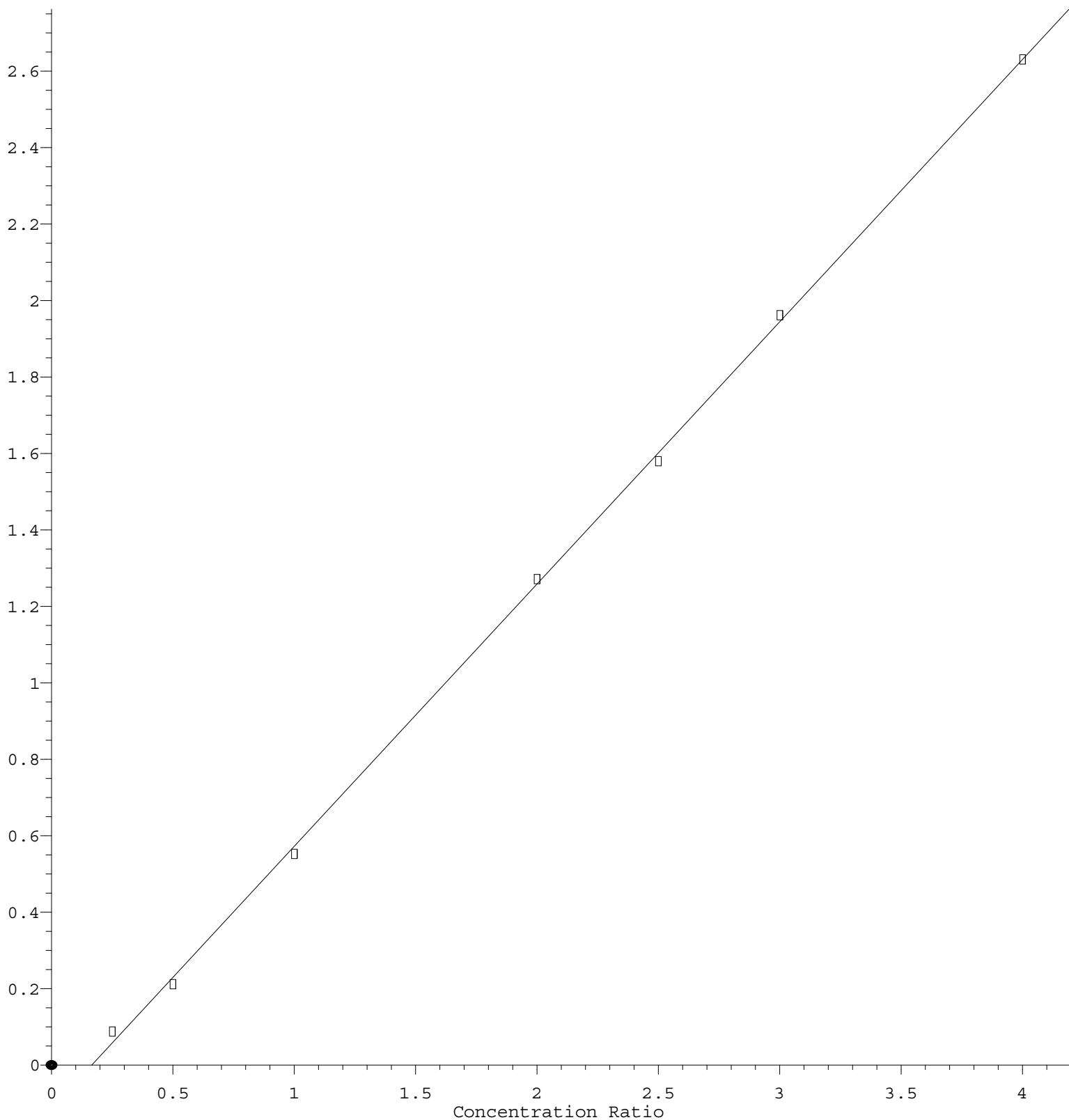
Coef of Det (r^2) = 0.998174 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 6.861\text{e-}001 * \text{Amt} - 1.138\text{e-}001$$

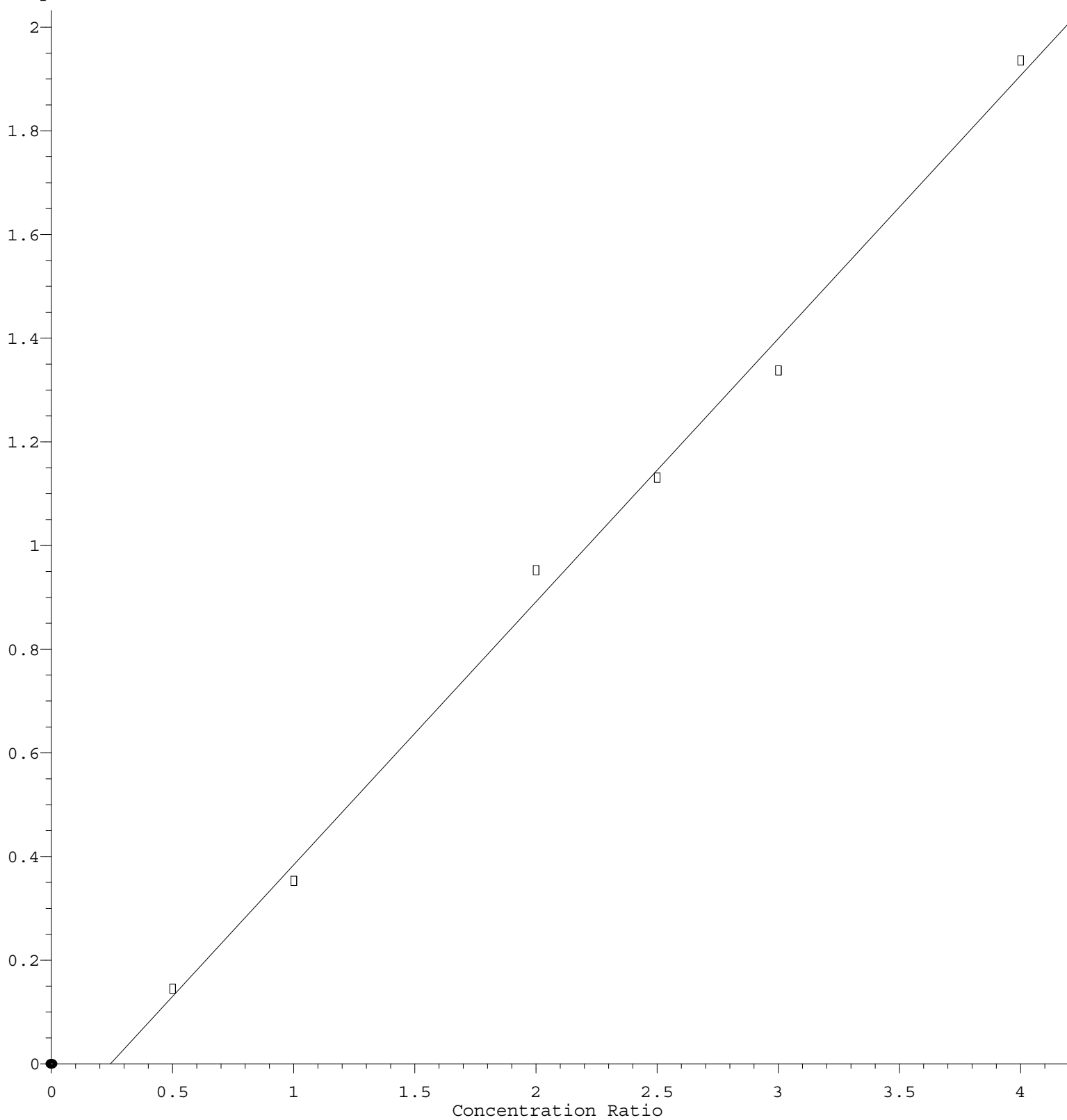
Coef of Det (r^2) = 0.999532 Curve Fit: Linear

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Benzidine

Response Ratio



$$\text{Response} = 5.074\text{e-}001 * \text{Amt} - 1.237\text{e-}001$$

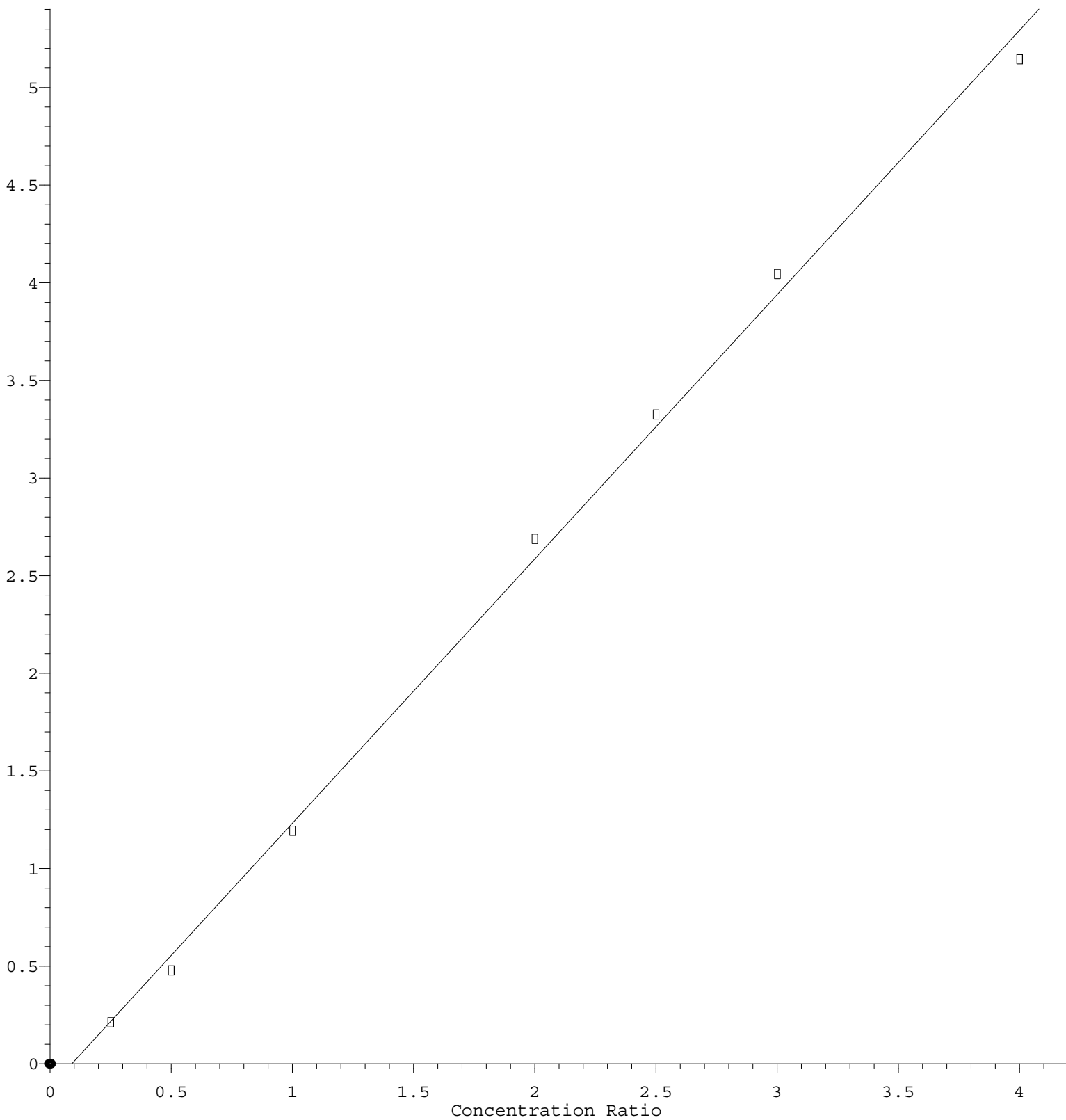
Coef of Det (r^2) = 0.995502 Curve Fit: Linear

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Di-n-butylphthalate

Response Ratio



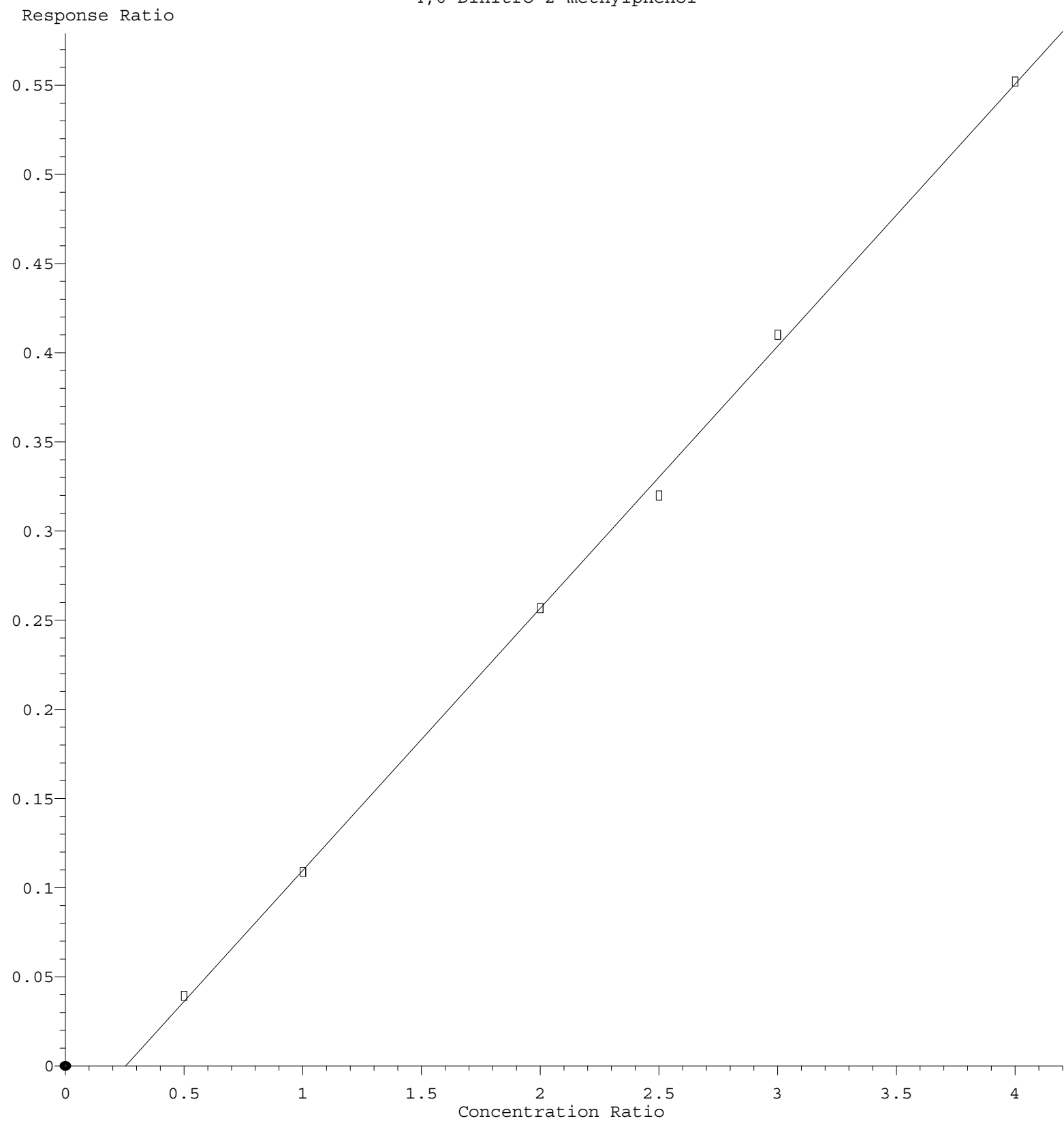
$$\text{Response} = 1.354\text{e}+000 * \text{Amt} - 1.217\text{e}-001$$

Coef of Det (r^2) = 0.997393 Curve Fit: Linear

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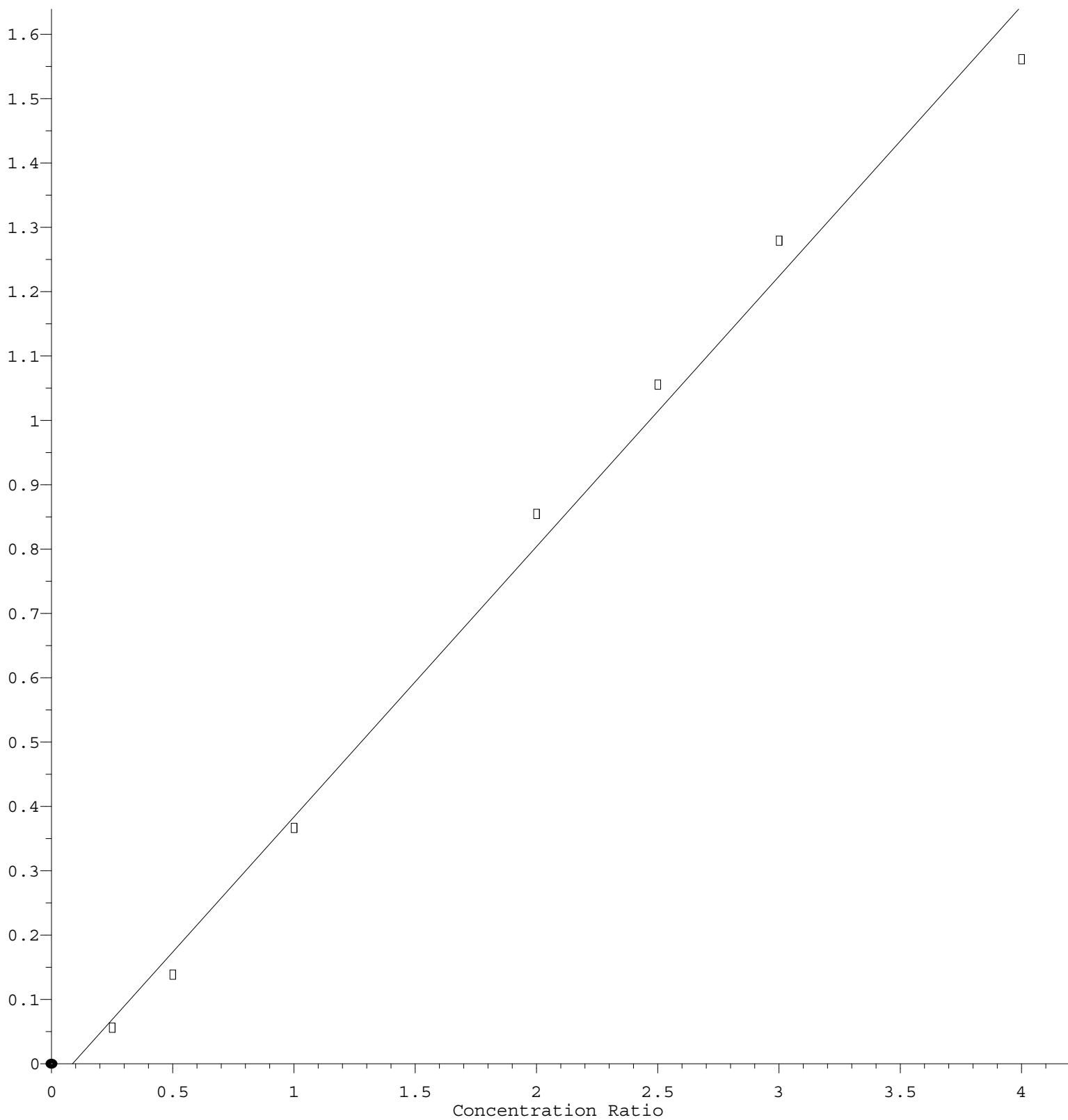
4,6-Dinitro-2-methylphenol



Response = 1.470e-001 * Amt - 3.740e-002
 Coef of Det (r^2) = 0.999127 Curve Fit: Linear
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4-Nitroaniline

Response Ratio



$$\text{Response} = 4.203\text{e-}001 * \text{Amt} - 3.674\text{e-}002$$

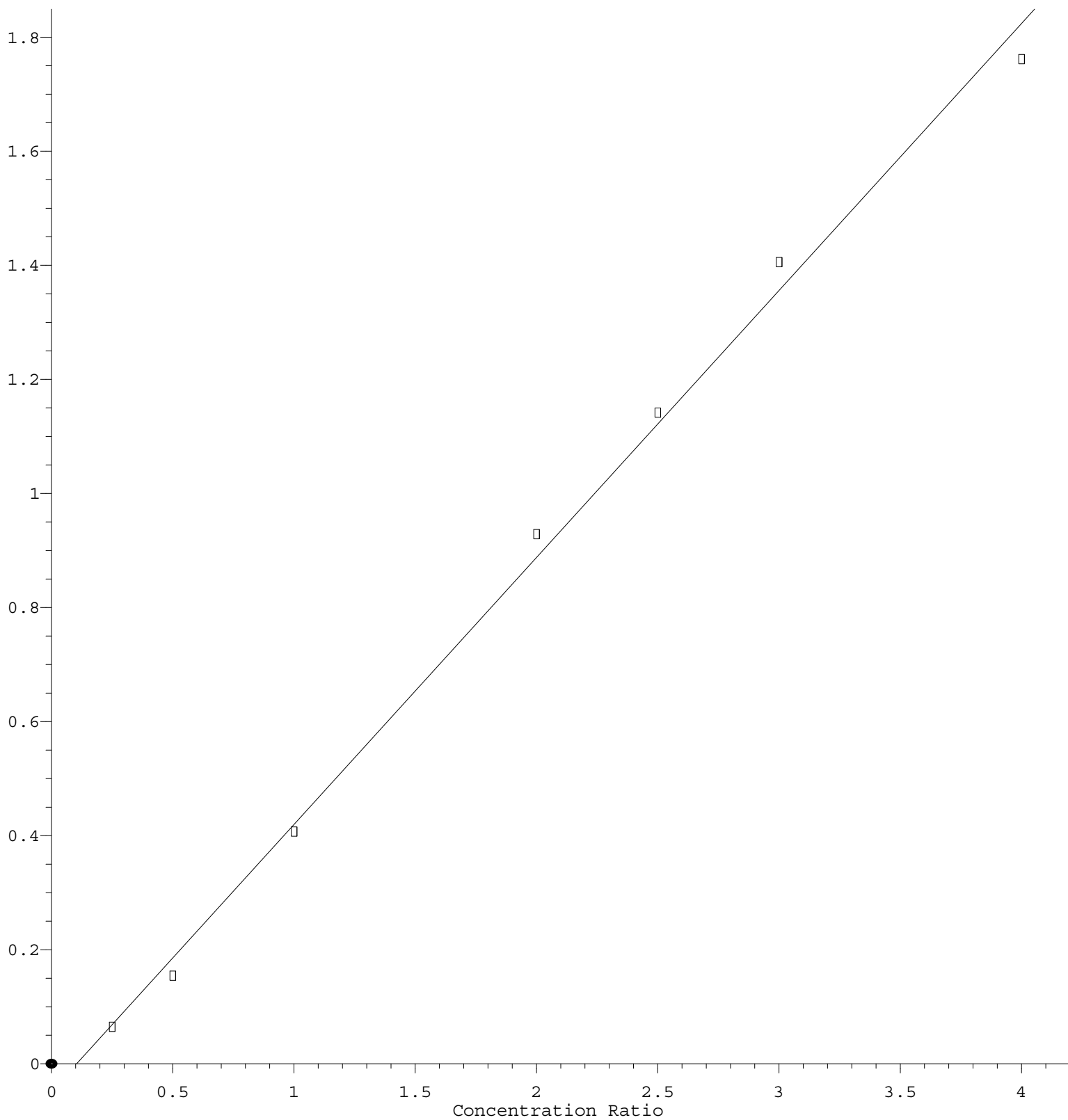
Coef of Det (r^2) = 0.992210 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



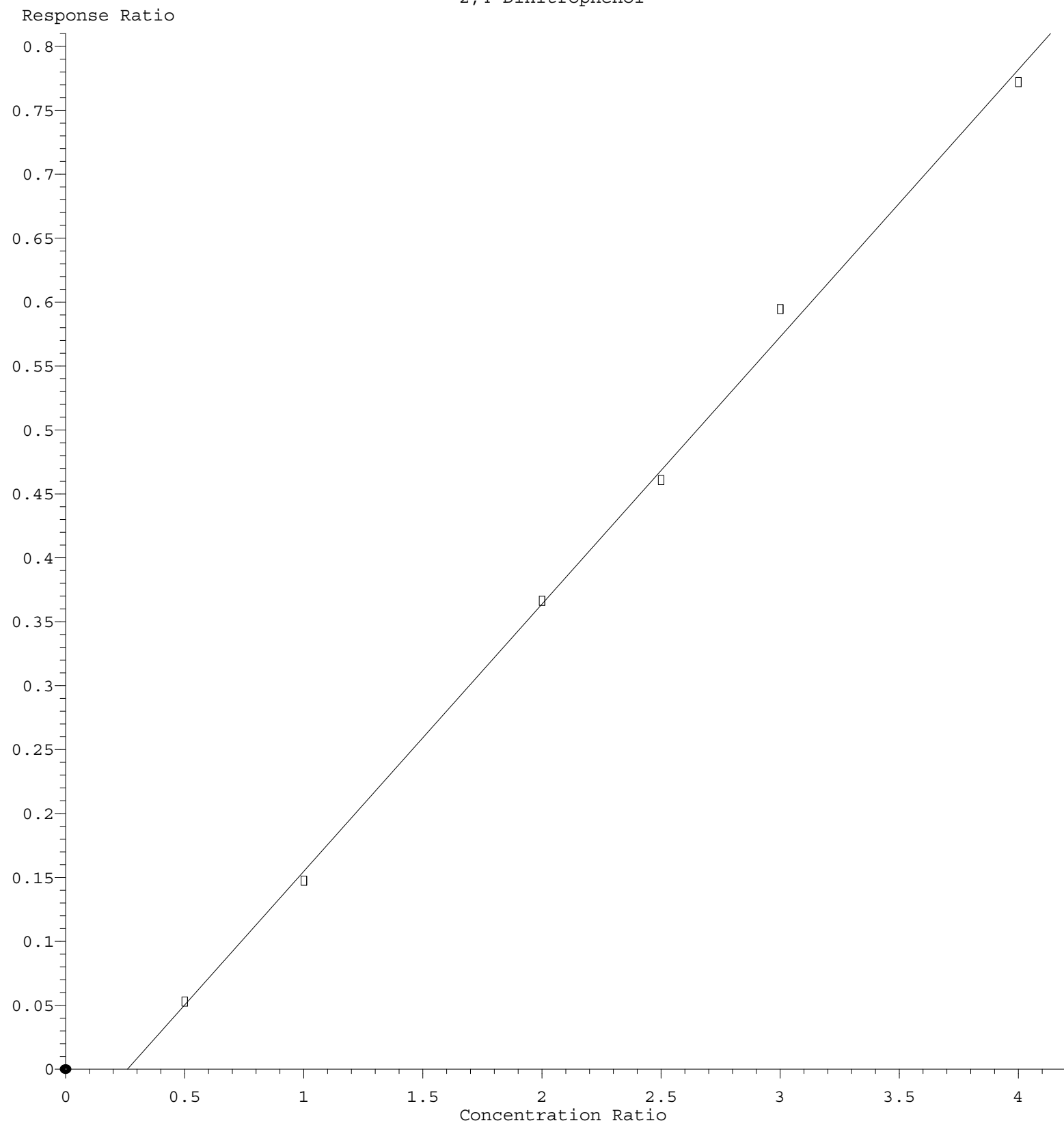
$$\text{Response} = 4.681\text{e-}001 * \text{Amt} - 4.848\text{e-}002$$

Coef of Det (r^2) = 0.996213 Curve Fit: Linear

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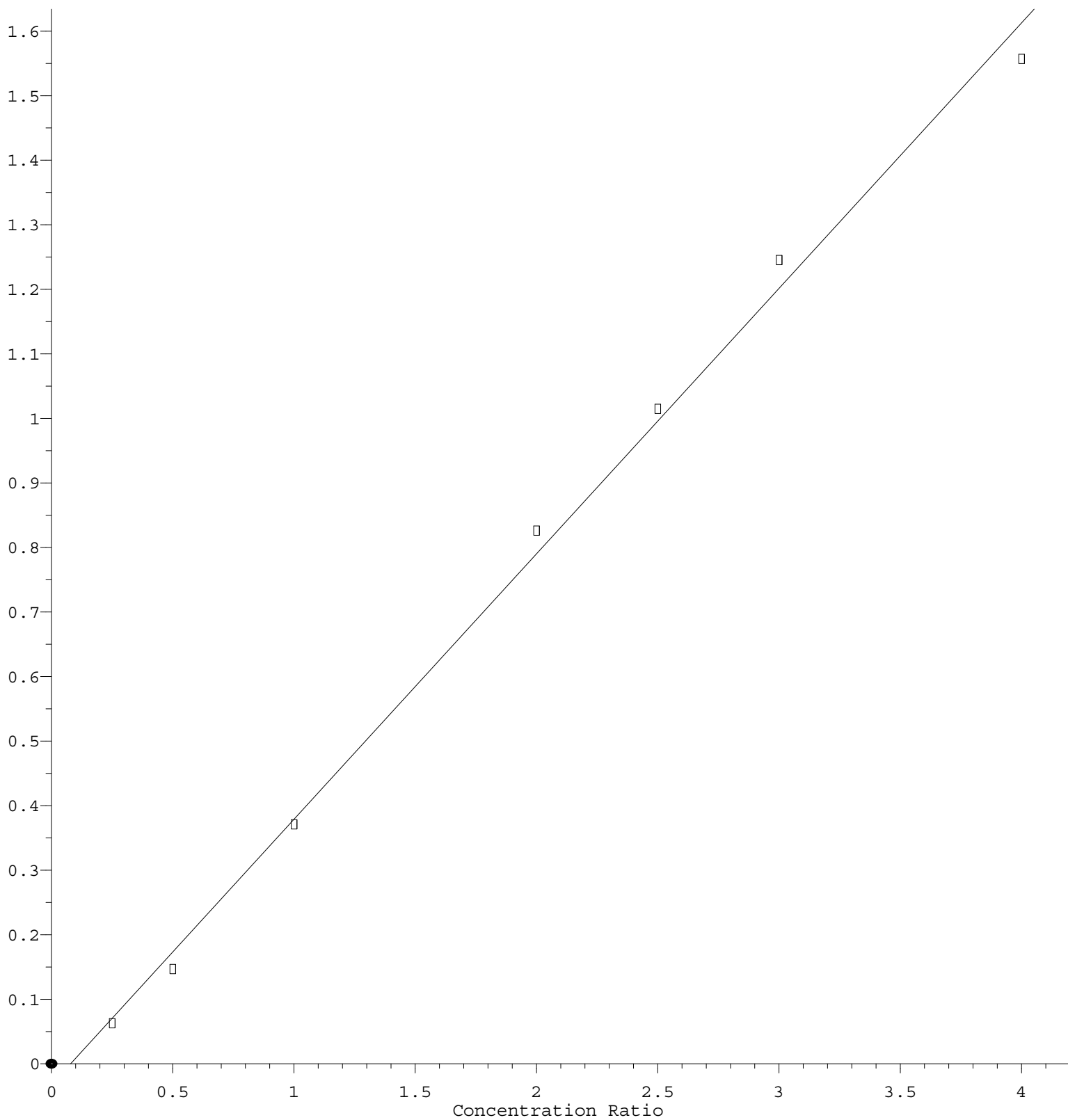
2,4-Dinitrophenol



Response = $2.092 \times 10^{-1} \times \text{Amt} - 5.430 \times 10^{-2}$
 Coef of Det (r^2) = 0.998118 Curve Fit: Linear
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3-Nitroaniline

Response Ratio



$$\text{Response} = 4.115\text{e-}001 * \text{Amt} - 3.270\text{e-}002$$

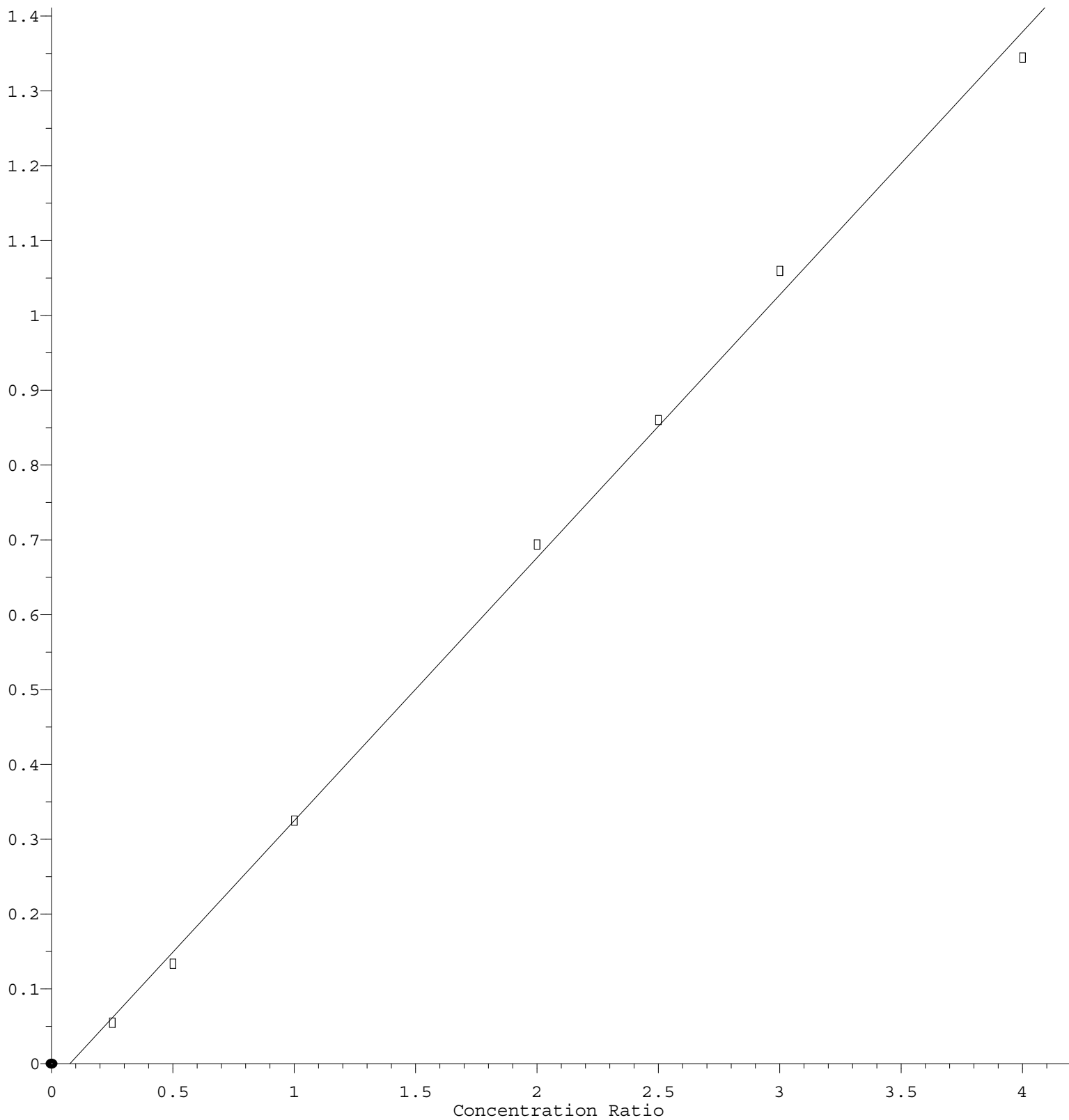
Coef of Det (r^2) = 0.996161 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.516\text{e-}001 * \text{Amt} - 2.679\text{e-}002$$

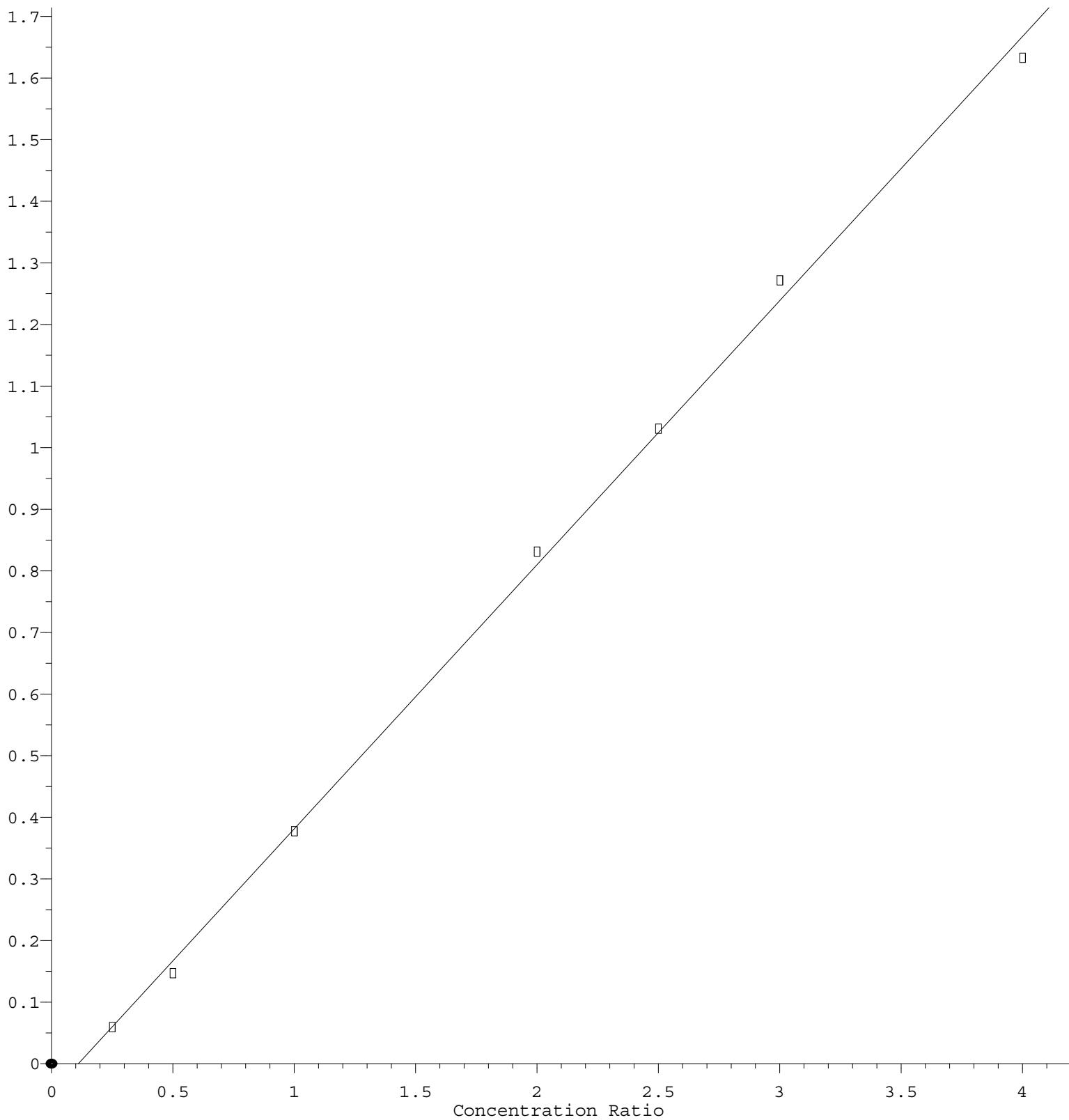
Coef of Det (r^2) = 0.997981 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



$$\text{Response} = 4.289\text{e-}001 * \text{Amt} - 4.751\text{e-}002$$

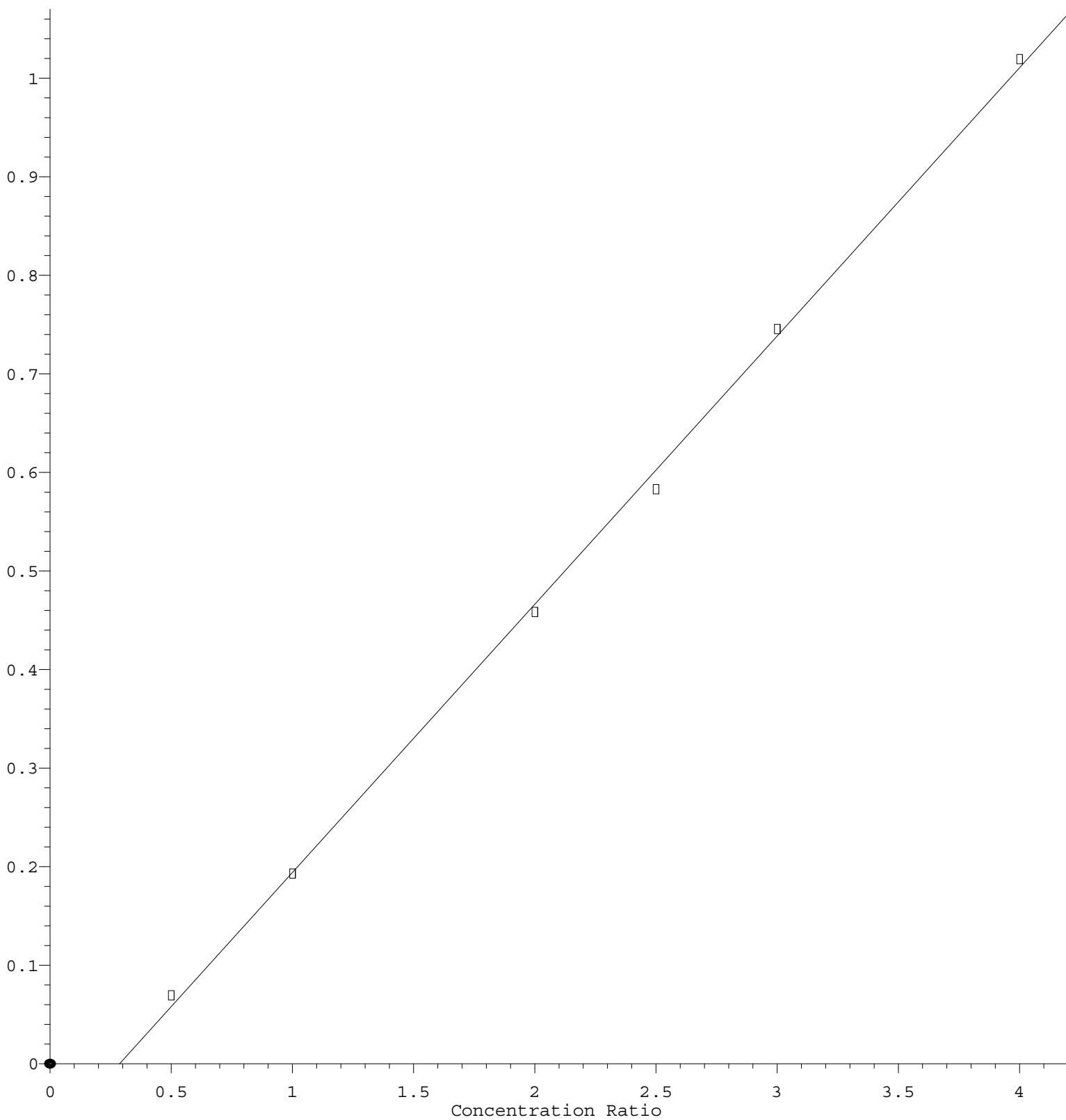
Coef of Det (r^2) = 0.998495 Curve Fit: Linear

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Benzoic acid

Response Ratio



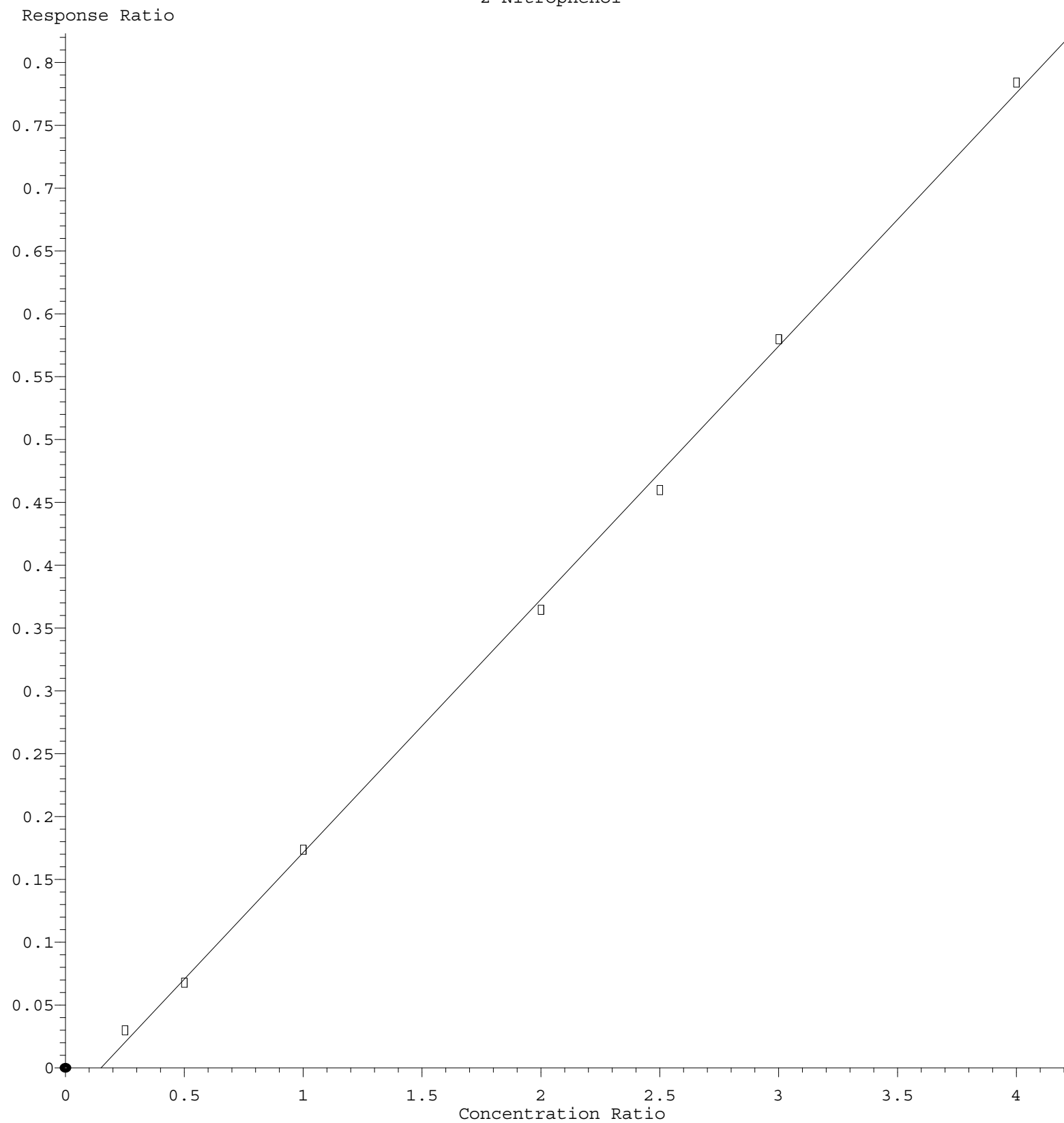
$$\text{Response} = 2.720\text{e-}001 * \text{Amt} - 7.797\text{e-}002$$

Coef of Det (r^2) = 0.998876 Curve Fit: Linear

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2-Nitrophenol



Response = $2.015 \times 10^{-1} \times \text{Amt} - 3.013 \times 10^{-2}$
 Coef of Det (r^2) = 0.999004 Curve Fit: Linear
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