

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF082724.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Aug 27 02:51:47 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BF139164.D 5 =BF139165.D 10 =BF139166.D 20 =BF139167.D 40 =BF139168.D 50 =BF139169.D 60 =BF139170.D 80 =BF139171.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.593	0.569	0.577	0.561	0.547	0.556	0.537	0.563		3.36
3)	Pyridine	1.563	1.438	1.528	1.404	1.328	1.323	1.208	1.399		8.88
4)	n-Nitrosodimet...	0.853	0.785	0.824	0.825	0.791	0.820	0.802	0.814		2.87
5) S	2-Fluorophenol	1.076	1.155	1.254	1.242	1.198	1.226	1.179	1.190		5.13
6)	Aniline	1.598	1.527	1.596	1.550	1.464	1.452		1.531		4.13
7) S	Phenol-d6	1.662	1.627	1.710	1.661	1.594	1.622	1.559	1.633		3.04
8)	2-Chlorophenol	0.945	1.053	1.195	1.208	1.173	1.200	1.141	1.131		8.67
9)	Benzaldehyde	1.251	1.210	1.167	1.004	0.909	0.875	0.740	1.022		18.85
10) C	Phenol	1.617	1.663	1.731	1.702	1.608	1.659	1.560	1.649		3.53
11)	bis(2-Chloroet...	1.405	1.315	1.326	1.249	1.233	1.265		1.299		4.88
12)	1,3-Dichlorobe...	1.647	1.527	1.546	1.497	1.418	1.437	1.366	1.491		6.28
13) C	1,4-Dichlorobe...	1.666	1.547	1.537	1.486	1.420	1.446	1.371	1.496		6.53
14)	1,2-Dichlorobe...	1.567	1.487	1.475	1.401	1.317	1.346	1.262	1.408		7.64
15)	Benzyl Alcohol	1.105	1.175	1.301	1.302	1.254	1.266	1.216	1.231		5.83
16)	2,2'-oxybis(1-...	2.072	1.958	1.985	1.883	1.779	1.804	1.700	1.883		6.94
17)	2-Methylphenol	1.028	1.012	1.089	1.041	1.013	1.031	1.003	1.031		2.78
18)	Hexachloroethane	0.421	0.439	0.488	0.497	0.482	0.503	0.484	0.473		6.55
19) P	n-Nitroso-di-n...	0.877	0.988	1.008	1.046	1.013	0.958	0.986	0.940	0.977	5.31
20)	3+4-Methylphenols	1.295	1.338	1.410	1.363	1.279	1.291	1.228	1.315		4.56
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.543	0.534	0.532	0.526	0.488	0.497	0.478	0.514		5.02
23) S	Nitrobenzene-d5		0.241	0.328	0.390	0.385	0.409	0.413	0.361		18.35
24)	Nitrobenzene	0.204	0.279	0.368	0.427	0.411	0.434	0.431	0.365		24.61
25)	Isophorone	0.729	0.709	0.733	0.739	0.685	0.707	0.695	0.714		2.87
26) C	2-Nitrophenol	0.040	0.056	0.083	0.116	0.126	0.144	0.149	0.102		42.31#
27)	2,4-Dimethylph...	0.183	0.199	0.220	0.224	0.216	0.221	0.218	0.212		7.03
28)	bis(2-Chloroet...	0.424	0.418	0.432	0.428	0.395	0.407	0.390	0.413		3.98
29) C	2,4-Dichloroph...	0.183	0.231	0.279	0.296	0.277	0.284	0.277	0.261		15.31
30)	1,2,4-Trichlor...	0.355	0.342	0.350	0.346	0.317	0.329	0.319	0.337		4.56
31)	Naphthalene	1.094	1.045	1.066	1.049	0.966	0.992	0.947	1.023		5.35
32)	Benzoic acid		0.079	0.108	0.161	0.167	0.195	0.204	0.152		32.48
33)	4-Chloroaniline	0.358	0.352	0.371	0.361	0.341	0.347	0.336	0.352		3.46
34) C	Hexachlorobuta...	0.224	0.222	0.226	0.229	0.209	0.214	0.208	0.219		3.86
35)	Caprolactam		0.060	0.078	0.088	0.084	0.087	0.084	0.080		13.35
36) C	4-Chloro-3-met...	0.251	0.289	0.310	0.325	0.302	0.312	0.308	0.300		8.05
37)	2-Methylnaphth...	0.675	0.664	0.676	0.662	0.600	0.617	0.593	0.641		5.63
38)	1-Methylnaphth...	0.668	0.642	0.661	0.647	0.591	0.601	0.576	0.627		5.79

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.627	0.608	0.620	0.618	0.556	0.572	0.551	0.593	5.46	
41) P	Hexachlorocycl...		0.141	0.180	0.208	0.199	0.209	0.205	0.190	14.06	
42) S	2,4,6-Tribromo...		0.128	0.164	0.187	0.177	0.189	0.183	0.171	13.49	
43) C	2,4,6-Trichlor...	0.211	0.275	0.343	0.390	0.358	0.371	0.374	0.332	19.58	
44)	2,4,5-Trichlor...	0.232	0.289	0.368	0.400	0.377	0.396	0.371	0.348	18.15	
45) S	2-Fluorobiphenyl	1.443	1.347	1.363	1.317	1.186	1.212	1.145	1.288	8.43	
46)	1,1'-Biphenyl	1.554	1.489	1.523	1.504	1.353	1.384	1.327	1.448	6.27	
47)	2-Chloronaphth...	1.242	1.173	1.205	1.205	1.079	1.116	1.064	1.155	5.97	
48)	2-Nitroaniline	0.105	0.153	0.240	0.325	0.330	0.359	0.360	0.268	38.71	
49)	Acenaphthylene	1.709	1.642	1.709	1.701	1.541	1.592	1.497	1.627	5.31	
50)	Dimethylphthalate	0.987	1.139	1.234	1.254	1.149	1.186	1.138	1.155	7.56	
51)	2,6-Dinitrotol...	0.070	0.120	0.183	0.248	0.240	0.260	0.258	0.197	38.49	
52) C	Acenaphthene	1.114	1.075	1.102	1.112	1.014	1.051	1.014	1.069	4.08	
53)	3-Nitroaniline	0.087	0.140	0.194	0.253	0.251	0.265	0.259	0.207	33.58	
54) P	2,4-Dinitrophenol		0.037	0.055	0.080	0.088	0.104	0.116	0.080	37.31	
55)	Dibenzofuran	1.674	1.614	1.647	1.612	1.465	1.494	1.415	1.560	6.45	
56) P	4-Nitrophenol		0.107	0.160	0.202	0.197	0.215	0.207	0.181	22.74	
57)	2,4-Dinitrotol...	0.085	0.132	0.217	0.301	0.307	0.333	0.331	0.244	41.43	
58)	Fluorene	1.331	1.273	1.307	1.274	1.145	1.171	1.116	1.231	6.93	
59)	2,3,4,6-Tetrac...	0.185	0.233	0.292	0.324	0.297	0.316	0.304	0.279	18.19	
60)	Diethylphthalate	0.905	1.053	1.181	1.200	1.088	1.122	1.067	1.088	9.00	
61)	4-Chlorophenyl...	0.664	0.631	0.643	0.626	0.554	0.567	0.544	0.604	7.92	
62)	4-Nitroaniline	0.107	0.161	0.223	0.267	0.252	0.269	0.253	0.219	28.36	
63)	Azobenzene	1.369	1.329	1.379	1.389	1.262	1.298	1.231	1.323	4.62	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.030	0.044	0.070	0.075	0.088	0.095	0.067	37.98	
66) c	n-Nitrosodiphe...	0.623	0.598	0.606	0.612	0.557	0.582	0.568	0.592	4.04	
67)	4-Bromophenyl-...	0.226	0.211	0.217	0.218	0.202	0.206	0.208	0.213	3.93	
68)	Hexachlorobenzene	0.244	0.231	0.233	0.237	0.216	0.226	0.223	0.230	3.92	
69)	Atrazine	0.113	0.147	0.154	0.139	0.126	0.121	0.103	0.129	14.15	
70) C	Pentachlorophenol		0.096	0.124	0.146	0.143	0.152	0.149	0.135	15.83	
71)	Phenanthrene	1.086	1.053	1.034	1.039	0.950	0.983	0.930	1.011	5.69	
72)	Anthracene	1.051	1.016	1.016	1.013	0.930	0.957	0.913	0.985	5.24	
73)	Carbazole	0.945	0.915	0.921	0.917	0.826	0.850	0.795	0.881	6.47	
74)	Di-n-butylphth...	0.554	0.693	0.824	0.882	0.802	0.827	0.764	0.764	14.38	
75) C	Fluoranthene	1.076	1.070	1.059	1.022	0.903	0.907	0.828	0.981	10.17	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.281	0.280	0.320	0.379	0.357	0.408		0.337	15.59	
78)	Pyrene	1.872	1.881	1.984	2.070	1.845	1.848	1.651	1.879	6.92	
79) S	Terphenyl-d14	1.319	1.321	1.377	1.380	1.230	1.248	1.097	1.282	7.76	
80)	Butylbenzylpht...	0.138	0.207	0.315	0.396	0.369	0.396	0.405	0.318	33.19	
81)	Benzo(a)anthra...	1.378	1.294	1.408	1.380	1.238	1.278	1.300	1.325	4.79	
82)	3,3'-Dichlorob...	0.203	0.272	0.324	0.336	0.308	0.336	0.381	0.309	18.42	
83)	Chrysene	1.187	1.260	1.198	1.252	1.140	1.194	1.136	1.195	4.05	
84)	Bis(2-ethylhex...	0.153	0.214	0.328	0.432	0.396	0.431	0.488	0.349	35.54	
85) c	Di-n-octyl pht...		0.373	0.570	0.831	0.818	0.921	1.001	0.752	31.36#	

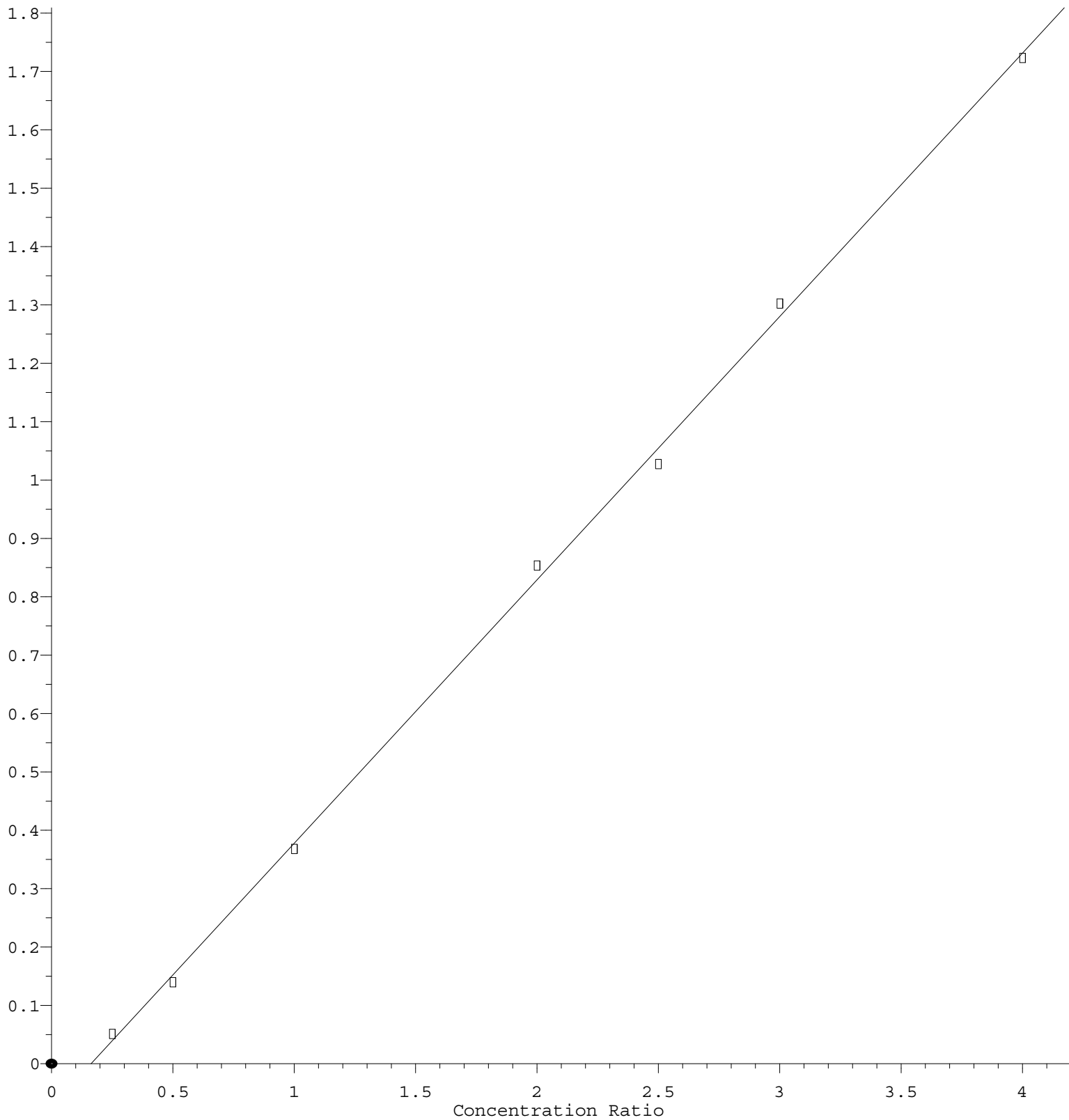
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86) I	Perylene-d12	-----ISTD-----	
87)	Indeno(1,2,3-c...	1.331 1.340 1.405 1.413 1.338 1.405 1.341 1.368	2.78
88)	Benzo(b)fluora...	1.160 1.153 1.289 1.183 1.072 1.225 1.107 1.170	6.16
89)	Benzo(k)fluora...	1.208 1.111 1.002 1.077 1.035 0.959 1.012 1.058	7.85
90) C	Benzo(a)pyrene	0.951 0.965 1.027 1.038 0.970 1.015 0.986 0.993	3.38
91)	Dibenzo(a,h)an...	1.102 1.106 1.159 1.154 1.095 1.143 1.088 1.121	2.66
92)	Benzo(g,h,i)pe...	1.136 1.162 1.194 1.196 1.139 1.177 1.111 1.159	2.77

(#) = Out of Range

Nitrobenzene

Response Ratio



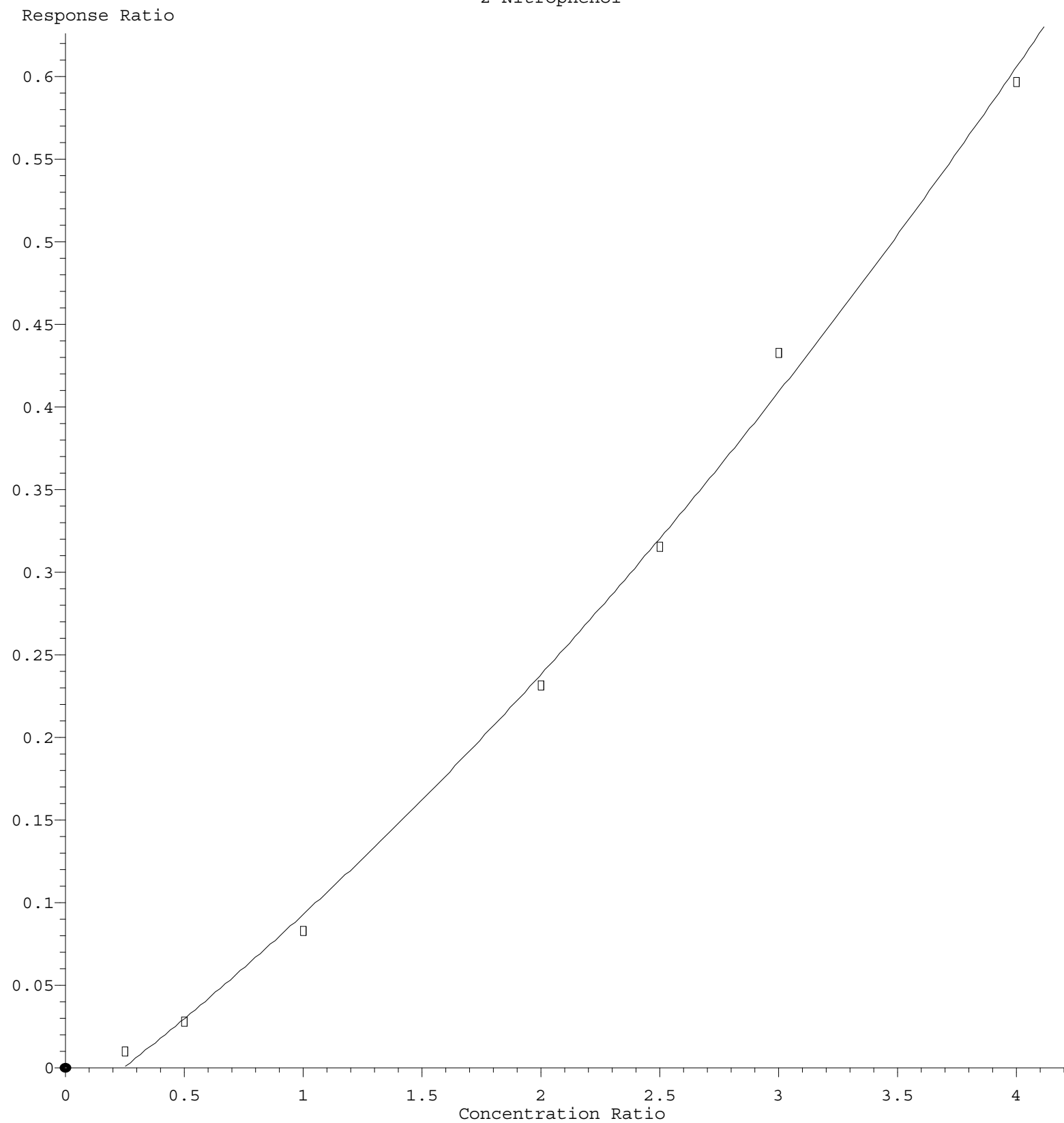
$$\text{Response} = 4.512\text{e-}001 * \text{Amt} - 7.345\text{e-}002$$

Coef of Det (r^2) = 0.999025 Curve Fit: Linear

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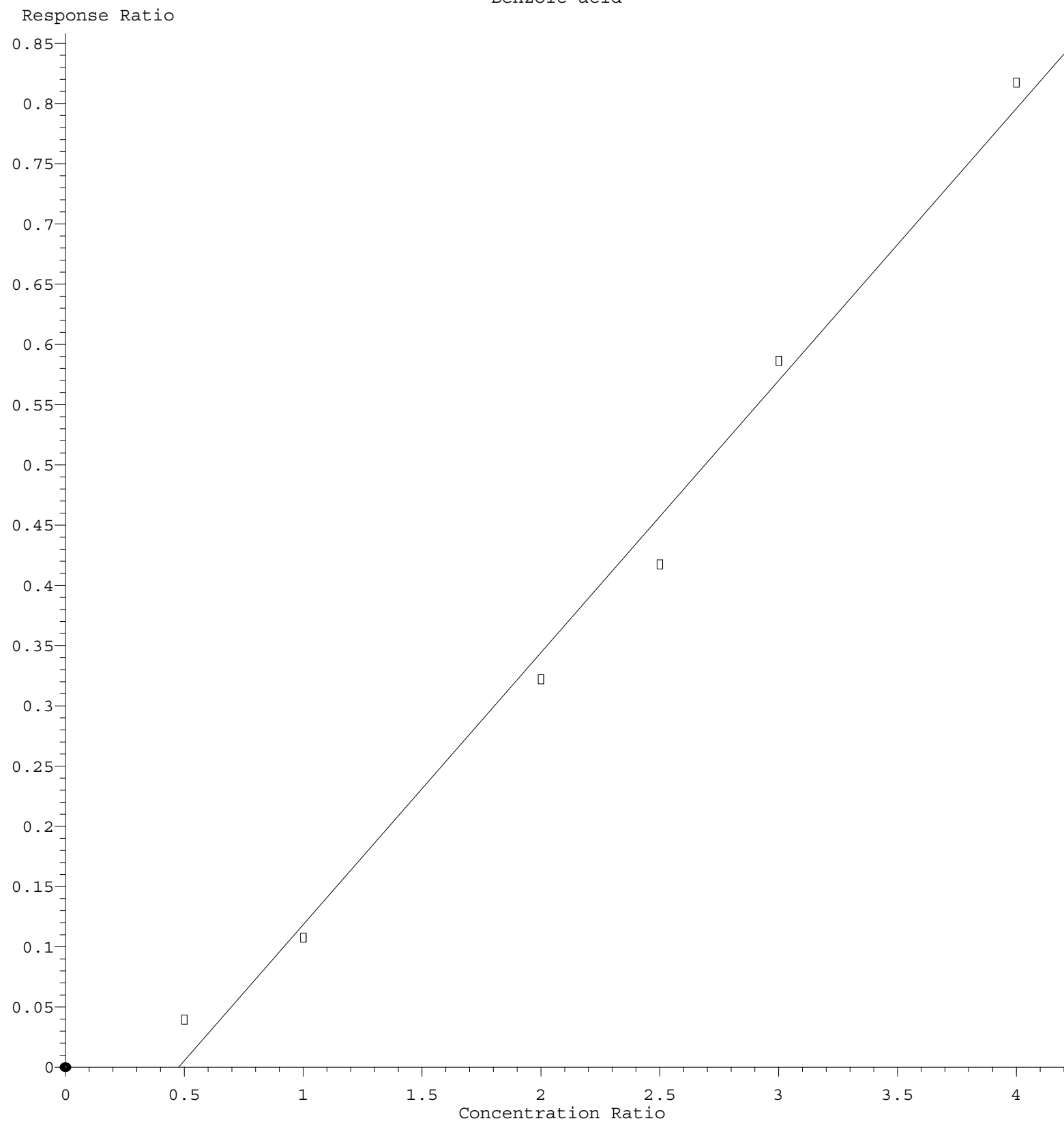
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2-Nitrophenol



$R = 1.283e-002 A^2 + 1.068e-001 A - 2.673e-002$
 Coef of Det (r^2) = 0.996934 Curve Fit: Quadratic
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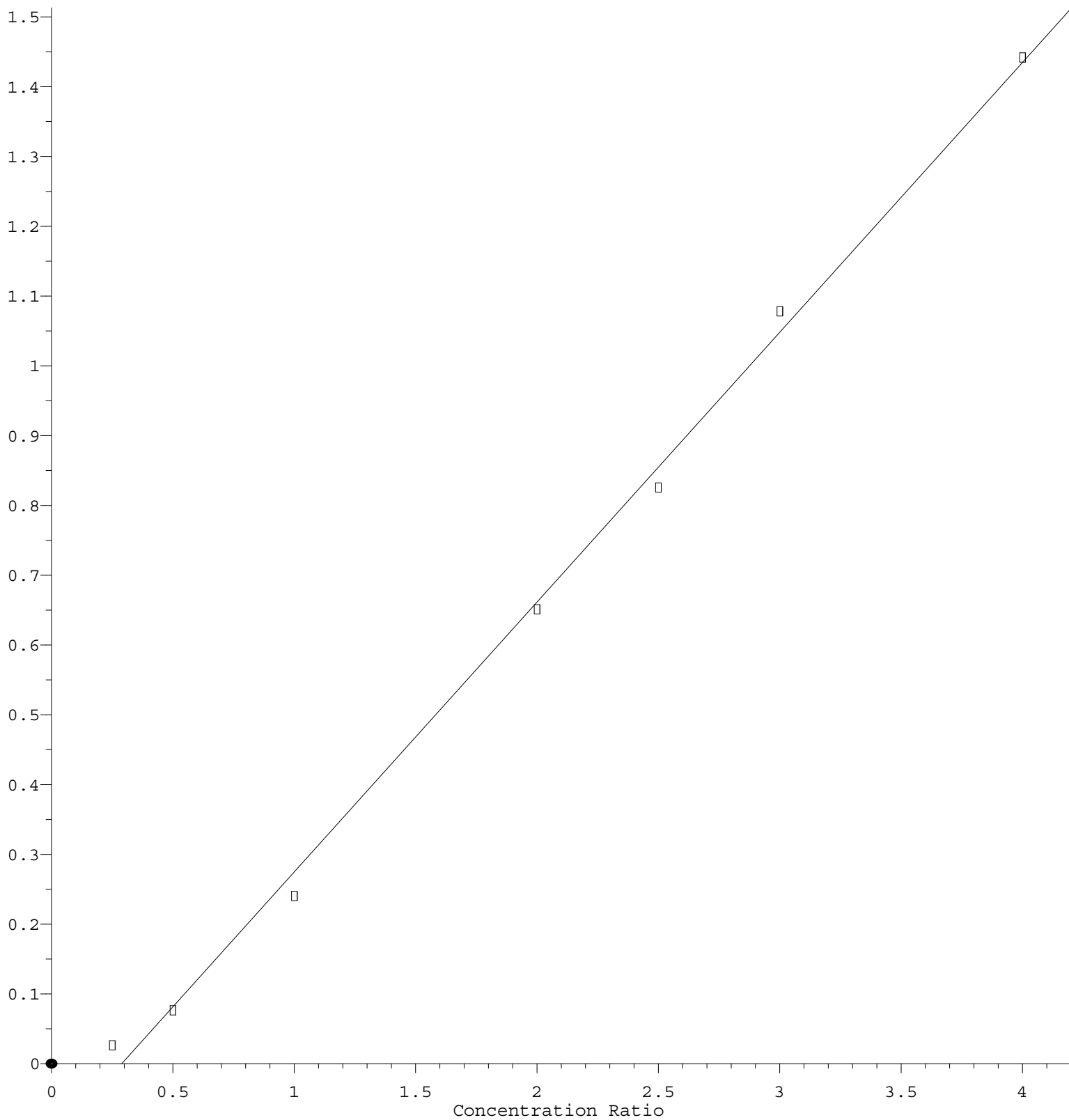
Benzoic acid



$\text{Response} = 2.257\text{e-}001 * \text{Amt} - 1.074\text{e-}001$
 Coef of Det (r^2) = 0.990511 Curve Fit: Linear
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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.865\text{e-}001 * \text{Amt} - 1.117\text{e-}001$$

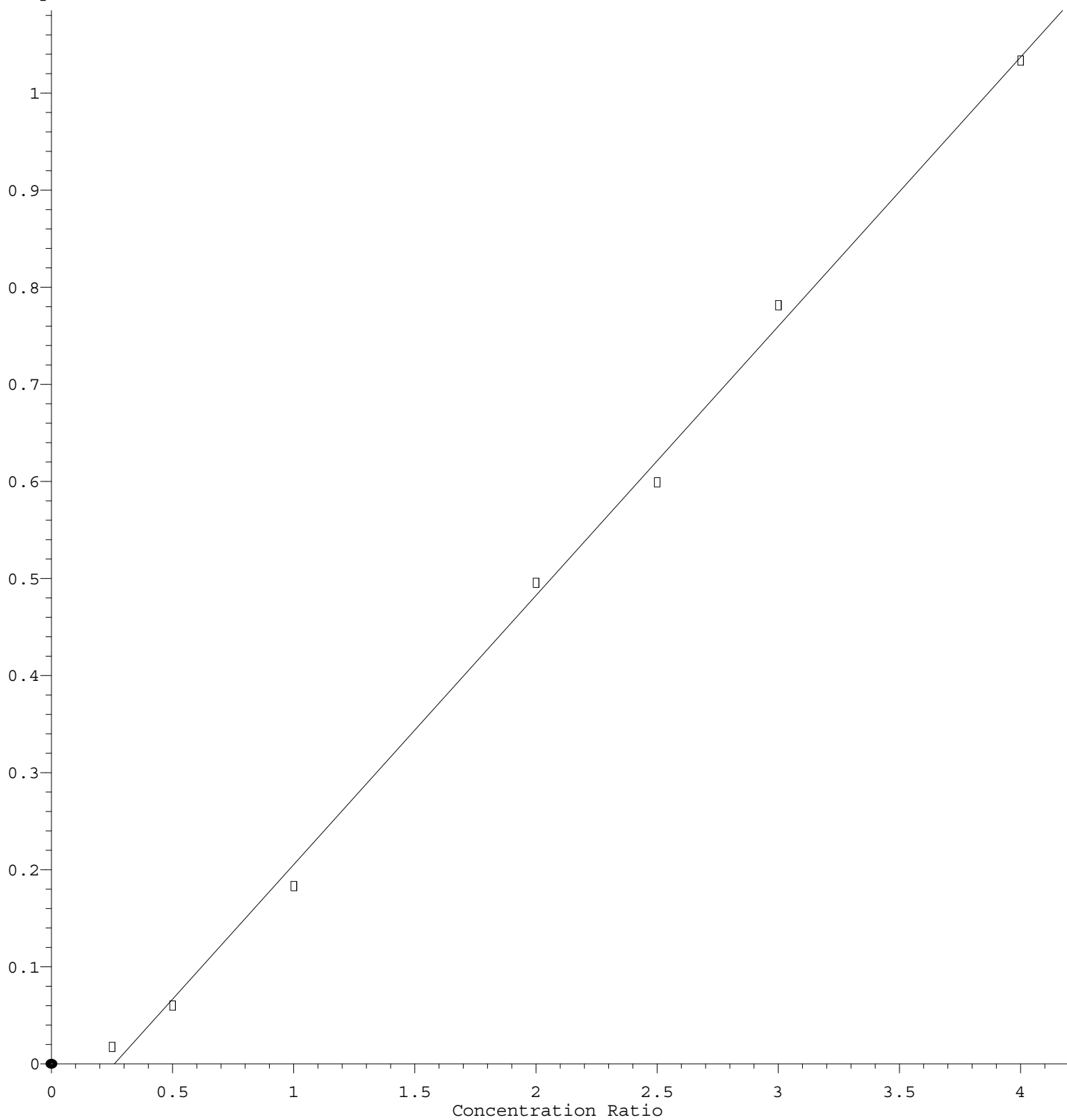
Coef of Det (r^2) = 0.997182 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.773\text{e-}001 * \text{Amt} - 7.203\text{e-}002$$

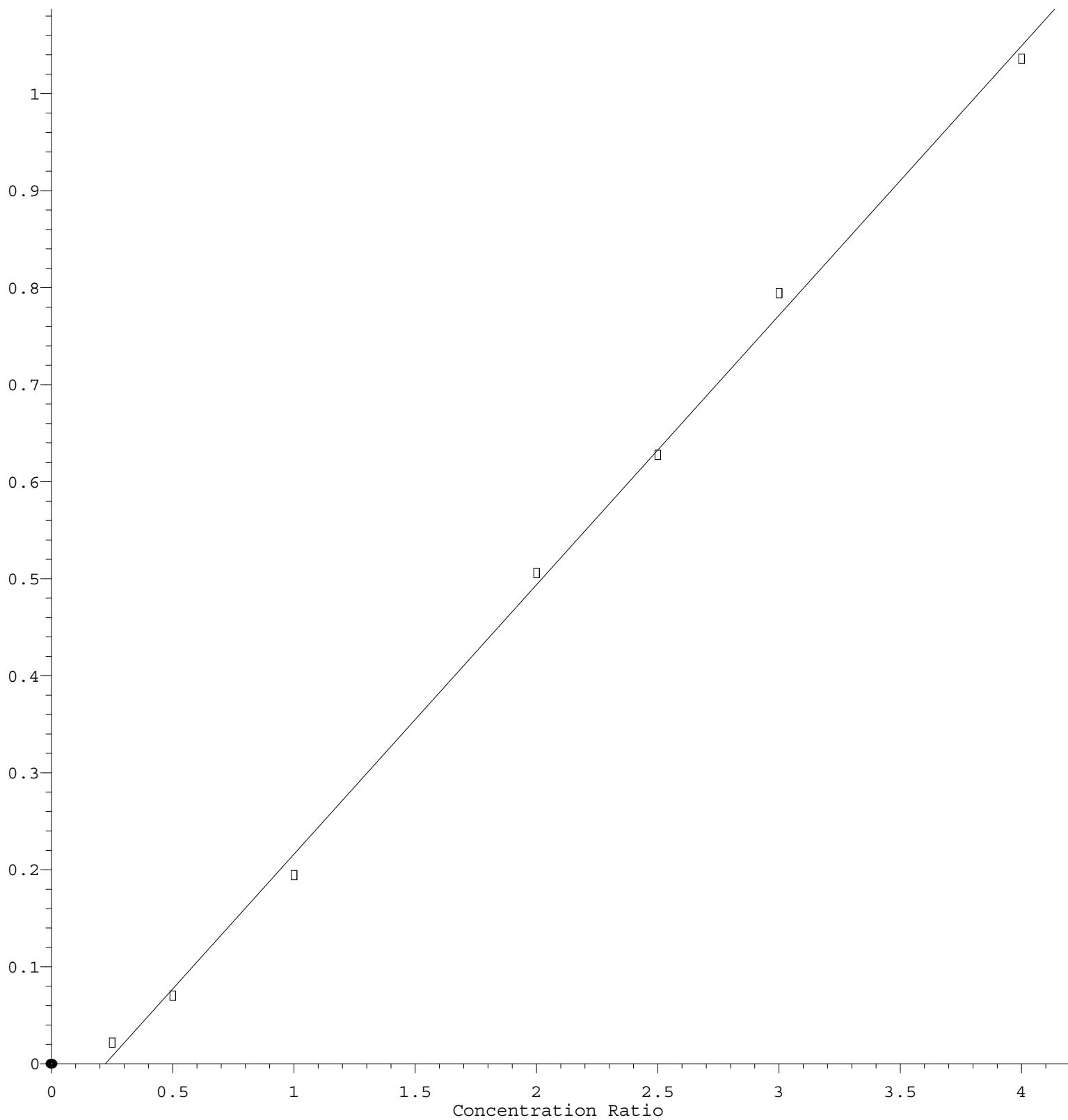
Coef of Det (r^2) = 0.997653 Curve Fit: Linear

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3-Nitroaniline

Response Ratio



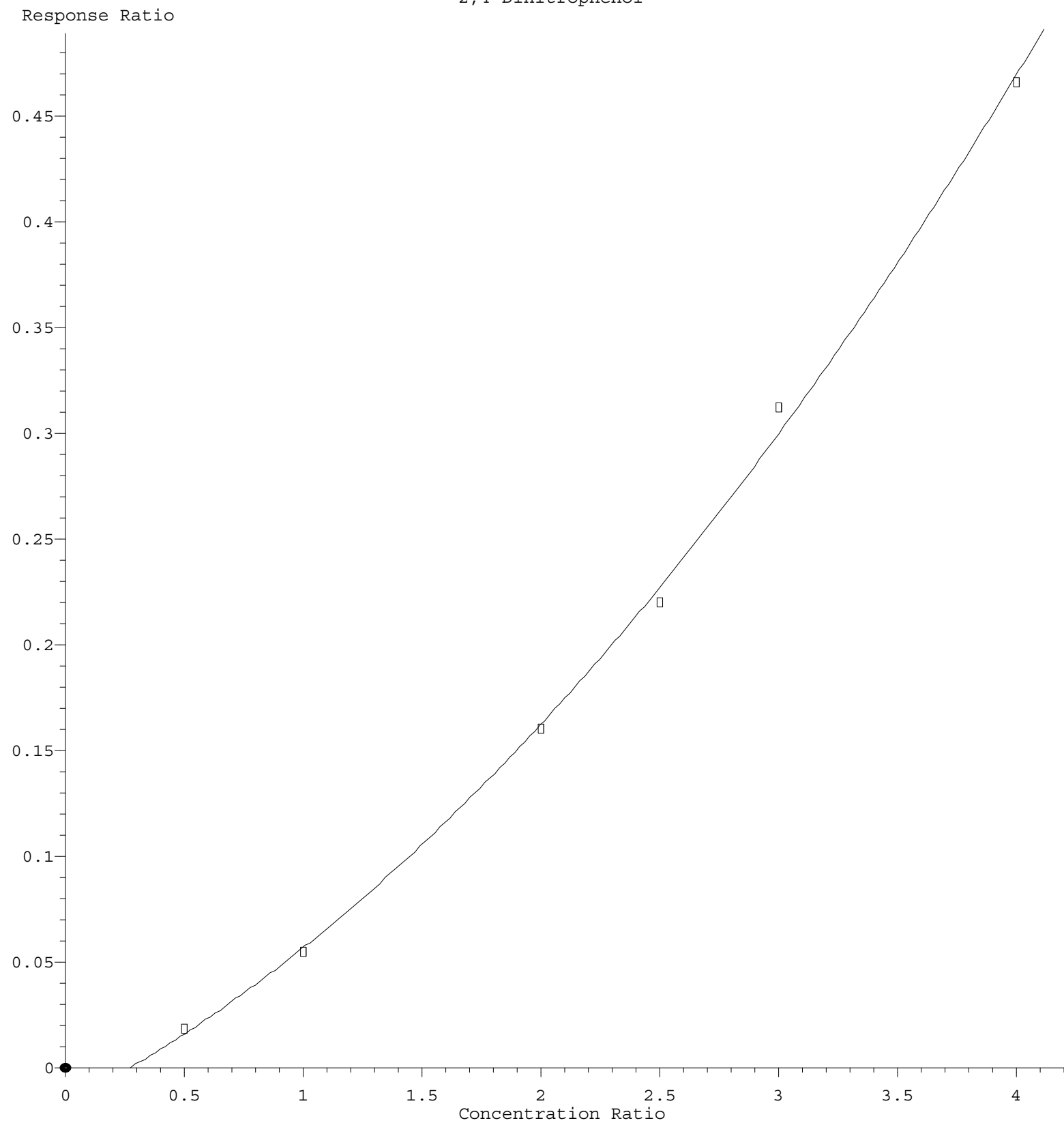
$$\text{Response} = 2.779\text{e-}001 * \text{Amt} - 6.164\text{e-}002$$

Coef of Det (r^2) = 0.998218 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF082724.M

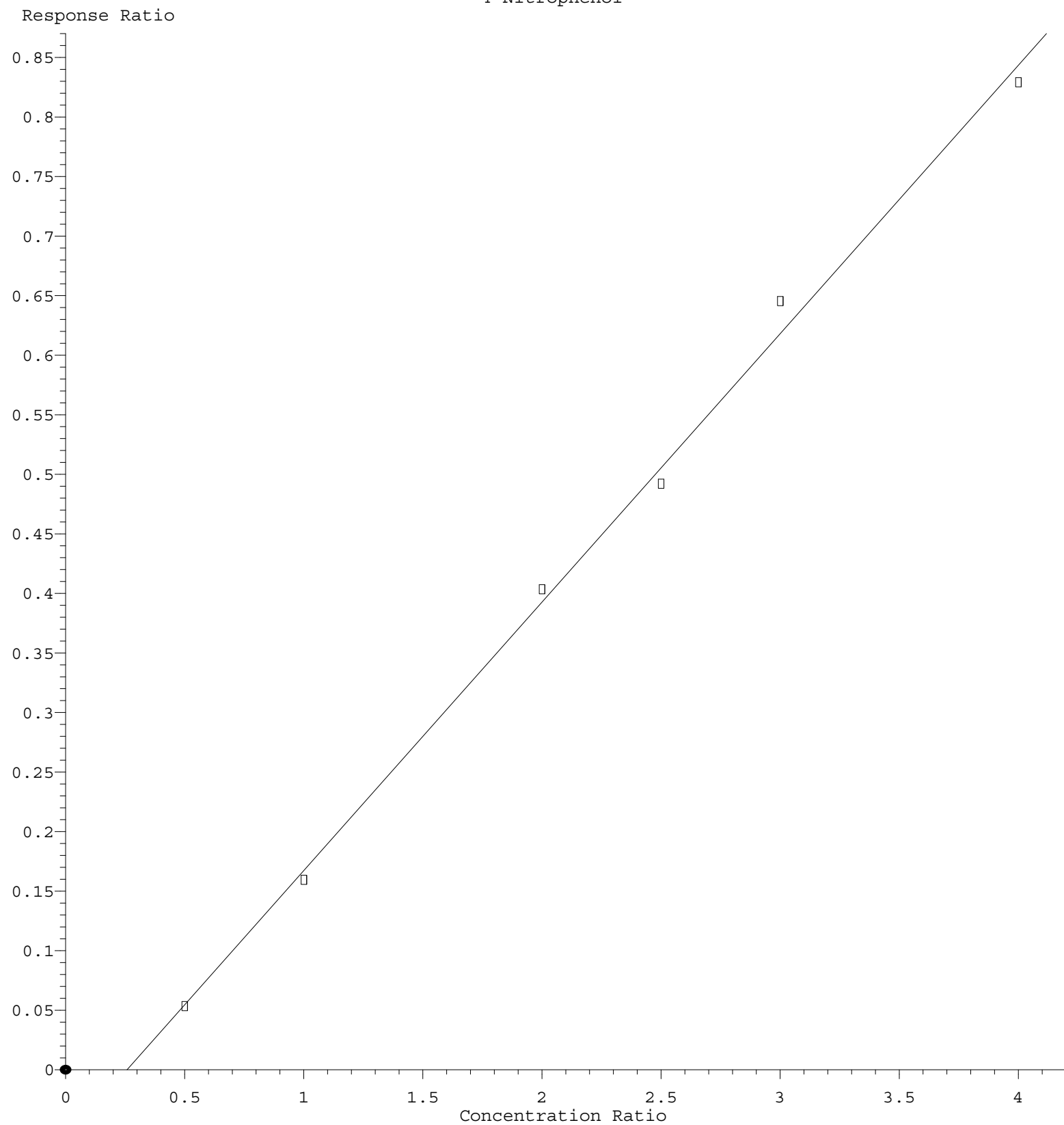
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2,4-Dinitrophenol



$R = 1.597e-002 A^2 + 5.768e-002 A - 1.682e-002$
 Coef of Det (r^2) = 0.998366 Curve Fit: Quadratic
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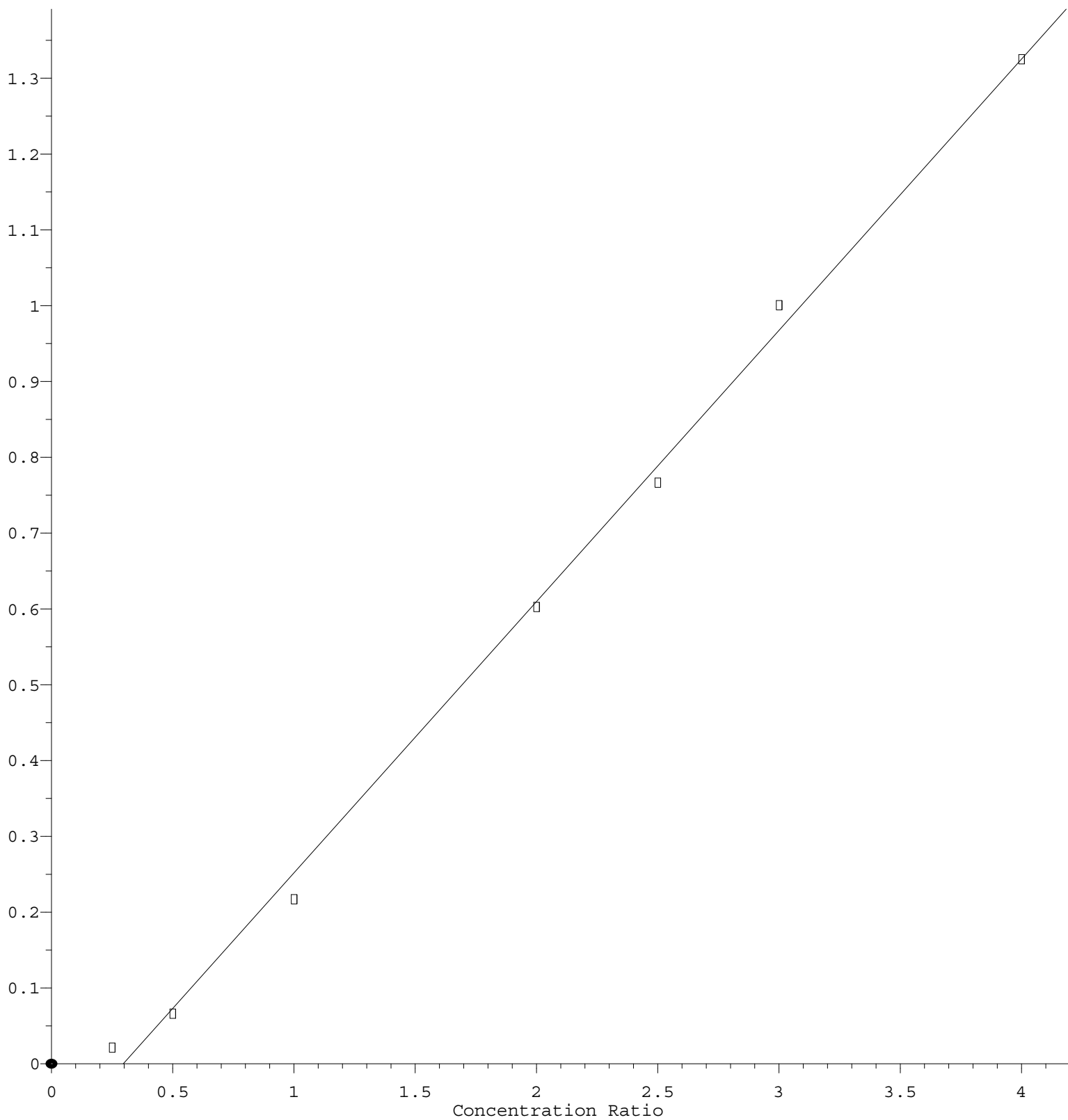
4-Nitrophenol



Response = 2.255e-001 * Amt - 5.818e-002
 Coef of Det (r^2) = 0.996927 Curve Fit: Linear
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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.578\text{e-}001 * \text{Amt} - 1.061\text{e-}001$$

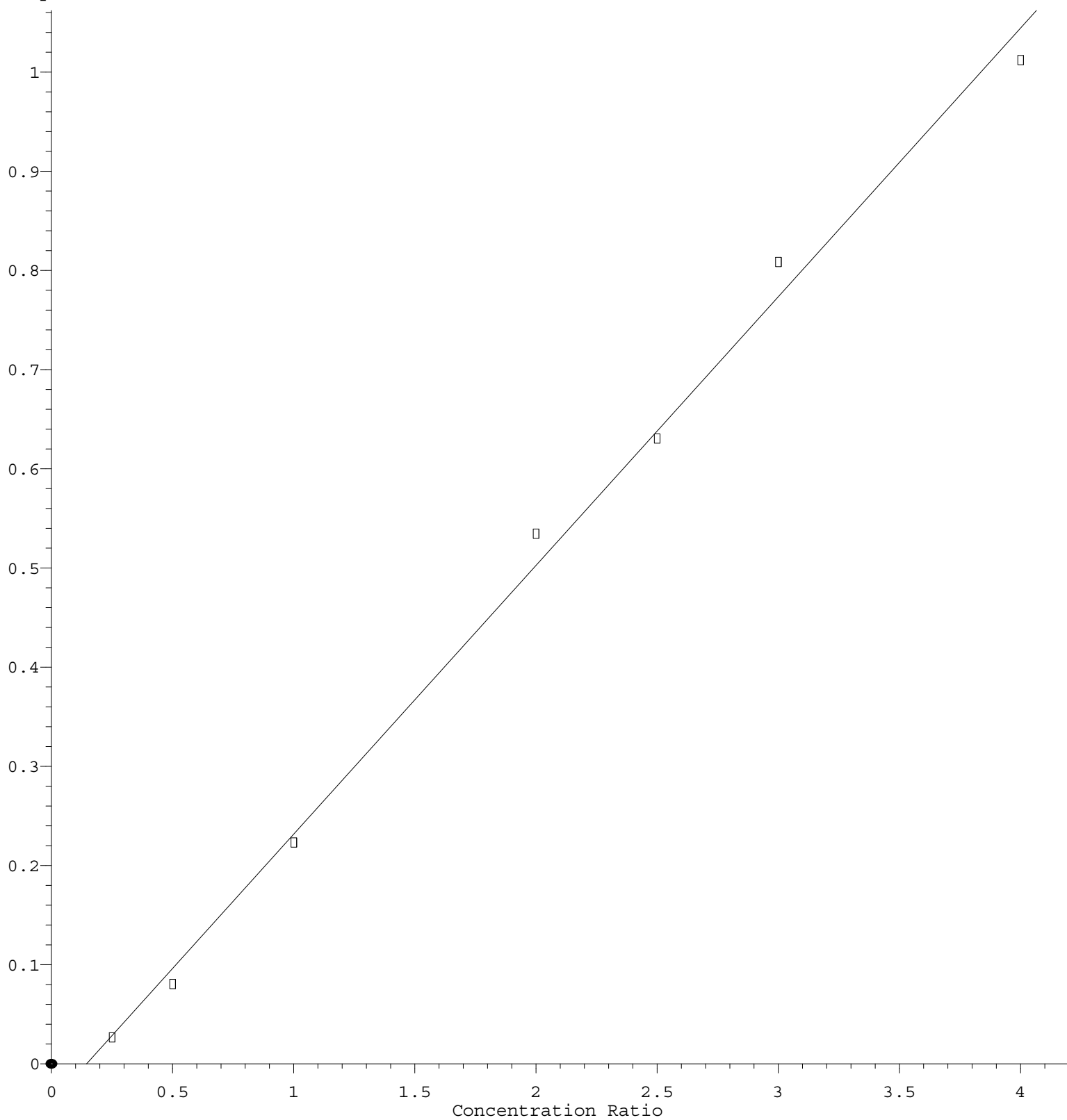
Coef of Det (r^2) = 0.997068 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



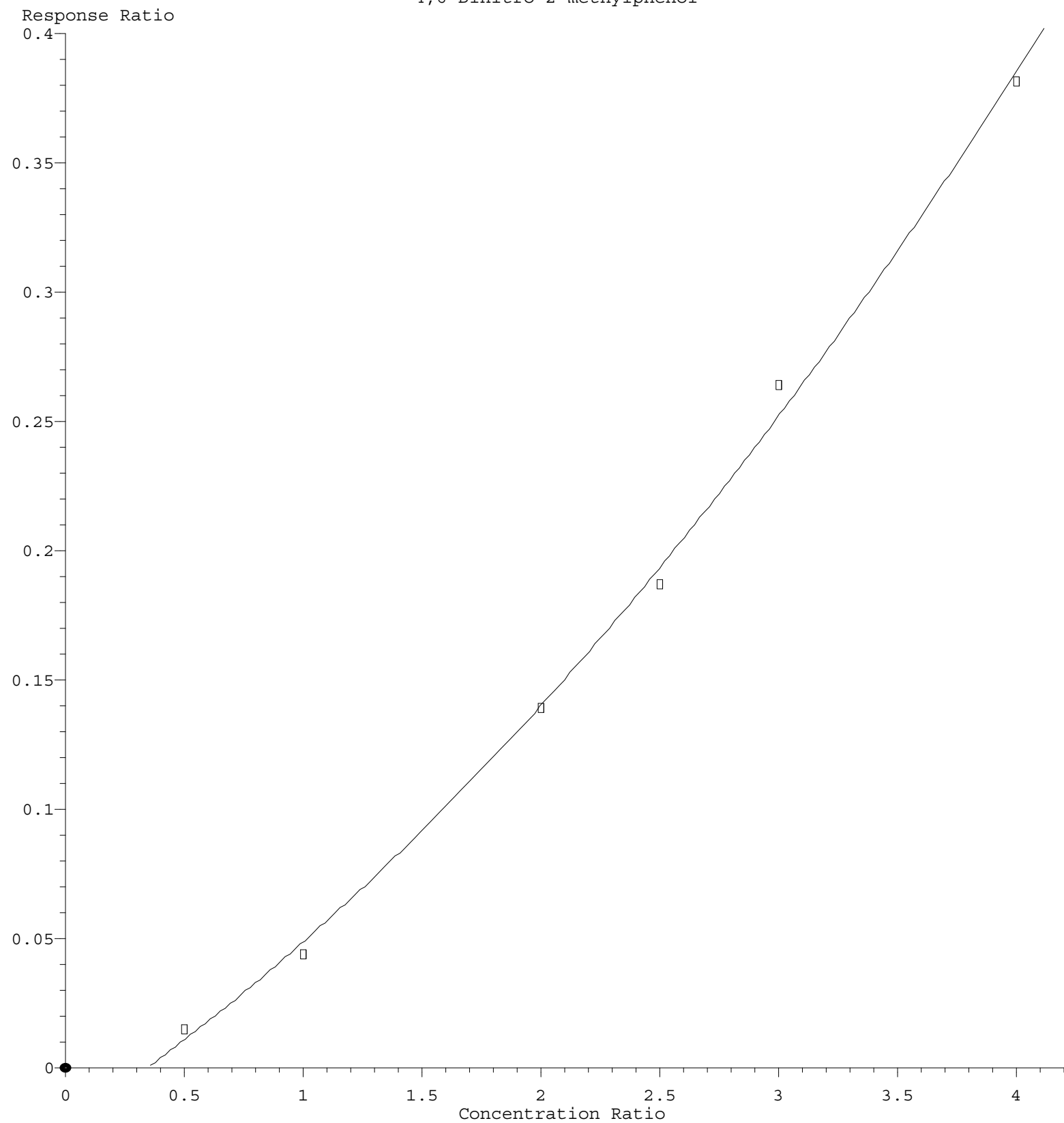
$$\text{Response} = 2.711\text{e-}001 * \text{Amt} - 3.940\text{e-}002$$

Coef of Det (r^2) = 0.995661 Curve Fit: Linear

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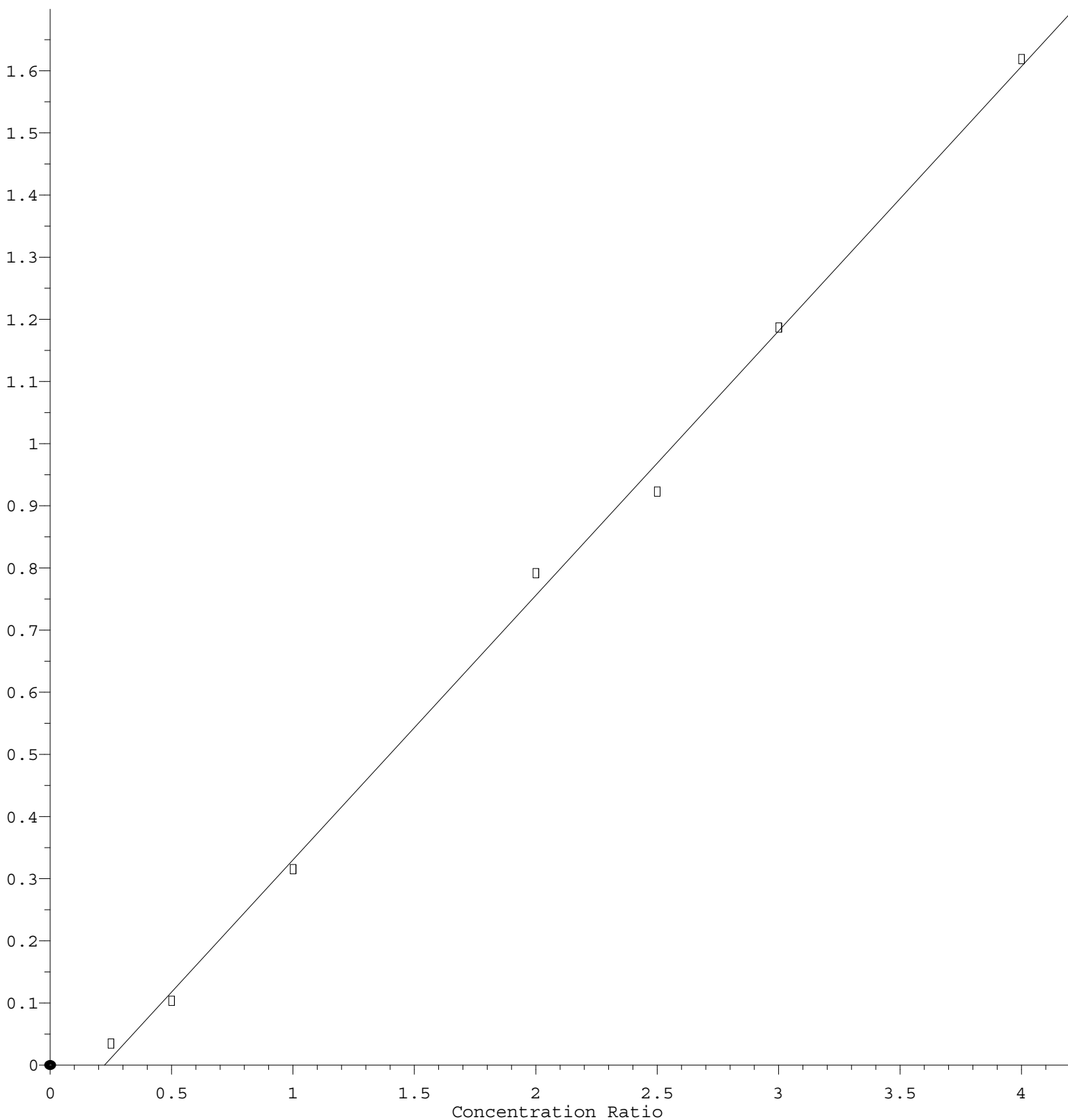
4,6-Dinitro-2-methylphenol



$R = 1.039e-002 A^2 + 6.020e-002 A - 2.186e-002$
 Coef of Det (r^2) = 0.997494 Curve Fit: Quadratic
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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 4.257\text{e-}001 * \text{Amt} - 9.528\text{e-}002$$

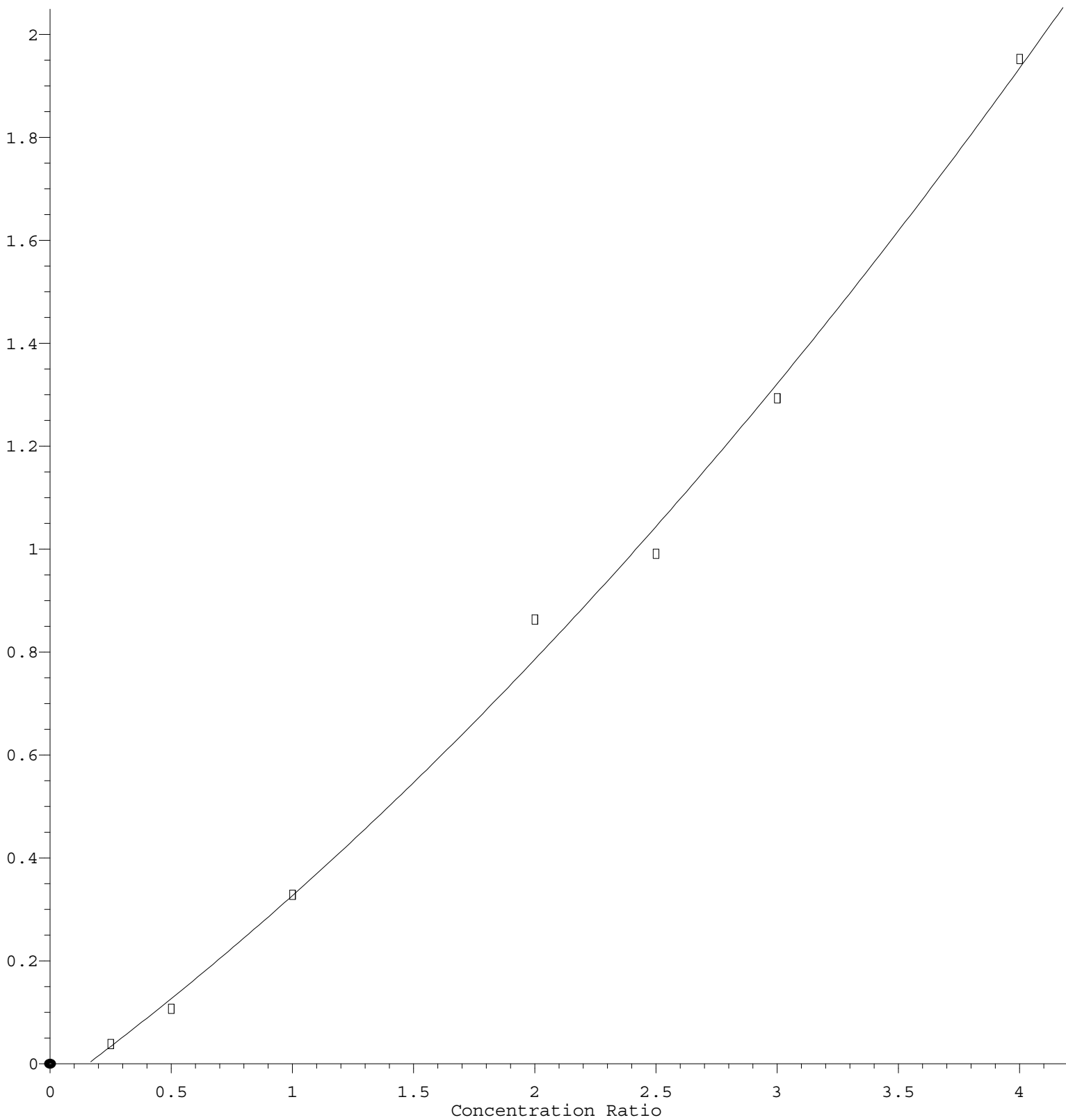
Coef of Det (r^2) = 0.997833 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$R = 3.860e-002 A^2 + 3.429e-001 A - 5.462e-002$$

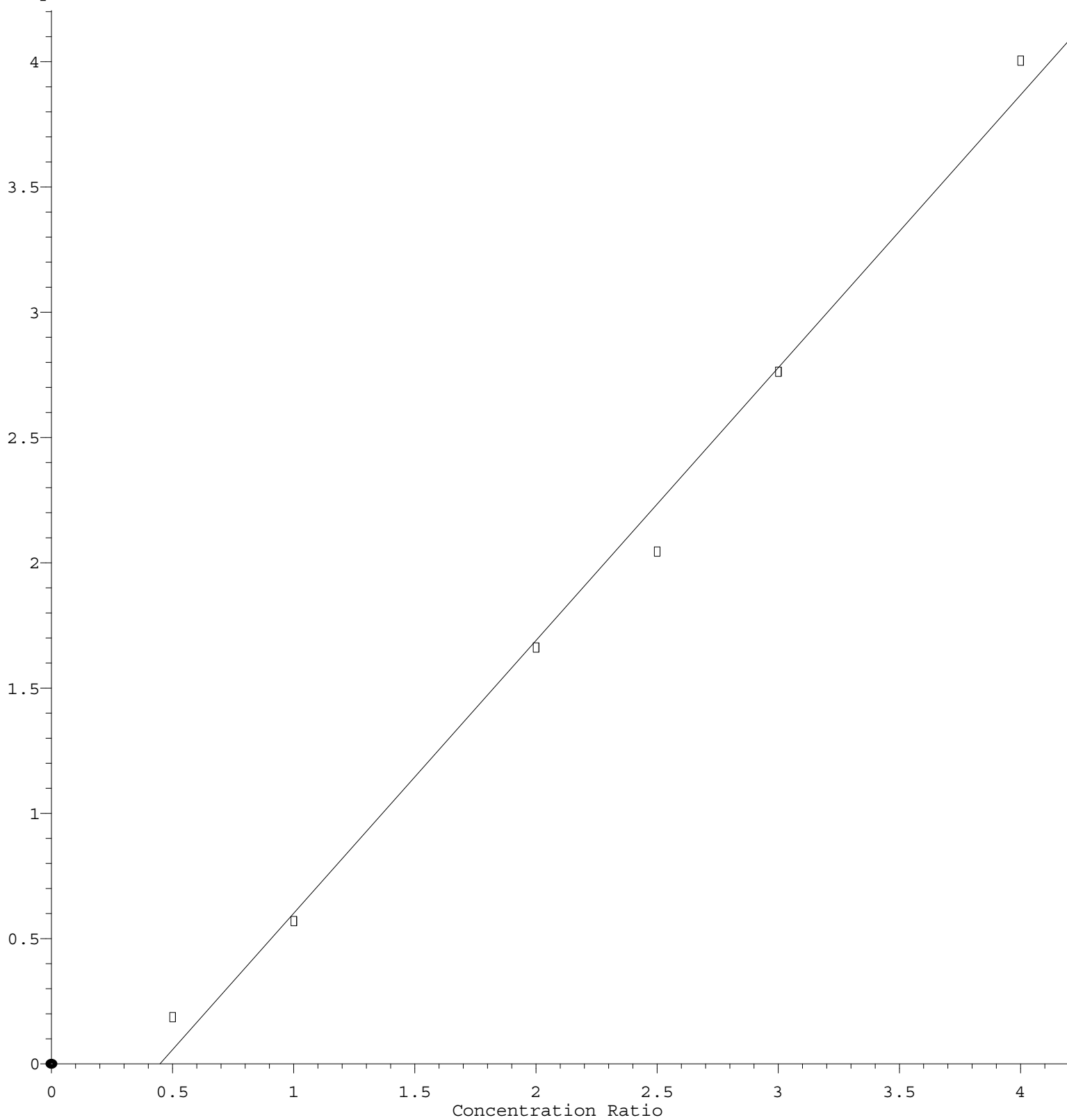
Coef of Det (r^2) = 0.996425 Curve Fit: Quadratic

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Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.089\text{e}+000 * \text{Amt} - 4.873\text{e}-001$$

Coef of Det (r^2) = 0.992610 Curve Fit: Linear

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