

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF043025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Apr 30 16:00:01 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF142239.D 5 =BF142240.D 10 =BF142241.D 20 =BF142242.D 40 =BF142243.D 50 =BF142244.D 60 =BF142245.D 80 =BF142246.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.563	0.534	0.561	0.592	0.580	0.555	0.530	0.559		4.03
3)	Pyridine	1.465	1.391	1.454	1.522	1.503	1.460	1.380	1.454		3.62
4)	n-Nitrosodimet...	0.747	0.699	0.728	0.807	0.789	0.766	0.731	0.752		4.95
5) S	2-Fluorophenol	1.324	1.238	1.265	1.314	1.285	1.210	1.131	1.252		5.35
6)	Aniline	2.212	2.085	2.157	2.245	2.203	2.101	1.981	2.140		4.29
7) S	Phenol-d6	1.559	1.505	1.534	1.593	1.550	1.475	1.370	1.512		4.85
8)	2-Chlorophenol	1.252	1.232	1.304	1.379	1.354	1.313	1.225	1.294		4.64
9)	Benzaldehyde	1.154	1.088	1.095	1.117	1.078	0.993	0.875	1.057		8.91
10) C	Phenol	1.679	1.588	1.657	1.715	1.687	1.603	1.468	1.628		5.15
11)	bis(2-Chloroet...	1.345	1.250	1.270	1.318	1.285	1.231	1.132	1.262		5.46
12)	1,3-Dichlorobe...	1.571	1.485	1.485	1.533	1.478	1.396	1.299	1.464		6.18
13) C	1,4-Dichlorobe...	1.610	1.486	1.495	1.546	1.488	1.404	1.295	1.475		6.86
14)	1,2-Dichlorobe...	1.489	1.418	1.431	1.475	1.432	1.356	1.255	1.408		5.67
15)	Benzyl Alcohol	1.047	1.017	1.064	1.149	1.126	1.082	1.023	1.073		4.69
16)	2,2'-oxybis(1-...	2.368	2.287	2.303	2.386	2.344	2.216	2.043	2.278		5.19
17)	2-Methylphenol	1.085	1.029	1.068	1.121	1.084	1.050	0.983	1.060		4.19
18)	Hexachloroethane	0.468	0.466	0.481	0.511	0.514	0.489	0.451	0.483		4.84
19) P	n-Nitroso-di-n...	0.953	0.987	0.937	0.949	0.967	0.939	0.898	0.844	0.934	4.77
20)	3+4-Methylphenols	1.357	1.323	1.372	1.400	1.366	1.296	1.166	1.326		5.90
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.511	0.482	0.483	0.468	0.461	0.430	0.404	0.463		7.70
23) S	Nitrobenzene-d5	0.217	0.251	0.302	0.340	0.351	0.339	0.330	0.304		16.88
24)	Nitrobenzene	0.229	0.261	0.297	0.328	0.338	0.323	0.314	0.299		13.31
25)	Isophorone	0.660	0.630	0.642	0.660	0.654	0.626	0.601	0.639		3.36
26) C	2-Nitrophenol	0.048	0.057	0.083	0.115	0.132	0.136	0.142	0.102		38.38#
27)	2,4-Dimethylph...	0.315	0.319	0.333	0.337	0.333	0.315	0.302	0.322		3.96
28)	bis(2-Chloroet...	0.425	0.404	0.414	0.415	0.410	0.386	0.366	0.403		4.98
29) C	2,4-Dichloroph...	0.246	0.253	0.274	0.291	0.286	0.272	0.263	0.269		6.12
30)	1,2,4-Trichlor...	0.320	0.303	0.305	0.312	0.304	0.287	0.273	0.301		5.28
31)	Naphthalene	1.106	1.040	1.035	1.020	0.999	0.924	0.858	0.997		8.21
32)	Benzoic acid		0.048	0.087	0.130	0.146	0.159	0.179	0.125		39.24
33)	4-Chloroaniline	0.446	0.414	0.429	0.429	0.423	0.396	0.371	0.415		5.98
34) C	Hexachlorobuta...	0.180	0.175	0.179	0.185	0.178	0.170	0.161	0.175		4.35
35)	Caprolactam	0.068	0.073	0.081	0.087	0.089	0.085	0.083	0.081		9.45
36) C	4-Chloro-3-met...	0.262	0.265	0.279	0.295	0.293	0.276	0.266	0.277		4.84
37)	2-Methylnaphth...	0.679	0.637	0.633	0.623	0.612	0.574	0.534	0.613		7.69
38)	1-Methylnaphth...	0.700	0.655	0.667	0.652	0.641	0.590	0.542	0.635		8.29

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.621	0.575	0.572	0.576	0.566	0.534	0.496	0.563	6.88	
41) P	Hexachlorocycl...	0.244	0.265	0.306	0.352	0.368	0.358	0.343	0.319	15.23	
42) S	2,4,6-Tribromo...	0.139	0.158	0.184	0.204	0.205	0.197	0.190	0.182	13.73	
43) C	2,4,6-Trichlor...	0.275	0.329	0.353	0.370	0.375	0.381	0.357	0.349	10.50	
44)	2,4,5-Trichlor...	0.322	0.330	0.362	0.404	0.411	0.371	0.365	0.367	9.17	
45) S	2-Fluorobiphenyl	1.738	1.580	1.520	1.409	1.347	1.221	1.114	1.418	15.11	
46)	1,1'-Biphenyl	1.773	1.621	1.612	1.581	1.547	1.435	1.316	1.555	9.38	
47)	2-Chloronaphth...	1.289	1.176	1.191	1.185	1.157	1.085	1.014	1.157	7.51	
48)	2-Nitroaniline	0.119	0.156	0.228	0.295	0.316	0.315	0.316	0.249	33.25	
49)	Acenaphthylene	2.149	2.025	2.025	1.997	1.965	1.828	1.675	1.952	7.93	
50)	Dimethylphthalate	1.362	1.284	1.301	1.321	1.309	1.227	1.152	1.280	5.42	
51)	2,6-Dinitrotol...	0.098	0.137	0.193	0.241	0.259	0.254	0.249	0.204	31.45	
52) C	Acenaphthene	1.271	1.175	1.156	1.172	1.138	1.072	0.995	1.140	7.63	
53)	3-Nitroaniline	0.143	0.187	0.252	0.298	0.311	0.310	0.299	0.257	26.09	
54) P	2,4-Dinitrophenol		0.025	0.036	0.057	0.069	0.076	0.085	0.058	40.36	
55)	Dibenzofuran	1.930	1.775	1.751	1.743	1.713	1.581	1.466	1.709	8.67	
56) P	4-Nitrophenol		0.131	0.177	0.216	0.233	0.230	0.220	0.201	19.82	
57)	2,4-Dinitrotol...	0.104	0.145	0.213	0.285	0.311	0.309	0.306	0.239	35.96	
58)	Fluorene	1.493	1.403	1.351	1.317	1.273	1.186	1.071	1.299	10.74	
59)	2,3,4,6-Tetrac...	0.252	0.267	0.312	0.334	0.334	0.323	0.305	0.304	10.65	
60)	Diethylphthalate	1.324	1.264	1.302	1.313	1.300	1.215	1.126	1.263	5.61	
61)	4-Chlorophenyl...	0.702	0.642	0.632	0.632	0.614	0.570	0.526	0.617	9.06	
62)	4-Nitroaniline	0.144	0.177	0.233	0.272	0.287	0.281	0.269	0.238	23.57	
63)	Azobenzene	1.346	1.260	1.275	1.279	1.278	1.198	1.098	1.248	6.33	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.022	0.034	0.055	0.065	0.071	0.075	0.054	39.23	
66) c	n-Nitrosodiphe...	0.727	0.686	0.693	0.712	0.689	0.653	0.623	0.683	5.11	
67)	4-Bromophenyl-...	0.224	0.219	0.223	0.236	0.225	0.220	0.211	0.223	3.39	
68)	Hexachlorobenzene	0.256	0.245	0.248	0.261	0.255	0.244	0.237	0.249	3.28	
69)	Atrazine	0.166	0.172	0.186	0.190	0.190	0.182	0.174	0.180	5.29	
70) C	Pentachlorophenol		0.093	0.121	0.144	0.145	0.144	0.144	0.132	16.25	
71)	Phenanthrene	1.218	1.114	1.119	1.112	1.064	0.995	0.940	1.080	8.45	
72)	Anthracene	1.209	1.161	1.151	1.128	1.099	1.025	0.959	1.105	7.77	
73)	Carbazole	1.125	1.047	1.061	1.033	0.996	0.935	0.857	1.008	8.77	
74)	Di-n-butylphth...	0.986	1.006	1.088	1.069	1.045	0.988	0.912	1.013	5.88	
75) C	Fluoranthene	1.221	1.144	1.155	1.085	1.035	0.957	0.878	1.068	11.24	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.702	0.748	0.885	0.963	0.945	0.895	0.810	0.850	11.67	
78)	Pyrene	1.833	1.801	1.849	2.026	1.937	1.833	1.635	1.845	6.54	
79) S	Terphenyl-d14	1.472	1.413	1.422	1.481	1.392	1.290	1.155	1.375	8.41	
80)	Butylbenzylphth...	0.218	0.293	0.405	0.505	0.525	0.524	0.509	0.425	29.32	
81)	Benzo(a)anthra...	1.379	1.320	1.332	1.438	1.388	1.316	1.225	1.343	5.06	
82)	3,3'-Dichlorob...	0.286	0.317	0.380	0.442	0.450	0.451	0.435	0.394	17.37	
83)	Chrysene	1.302	1.210	1.249	1.232	1.227	1.197	1.138	1.222	4.12	
84)	Bis(2-ethylhex...	0.384	0.448	0.549	0.695	0.726	0.722	0.707	0.604	23.69	
85) c	Di-n-octyl pht...		0.668	0.875	1.262	1.320	1.347	1.329	1.133	25.55	

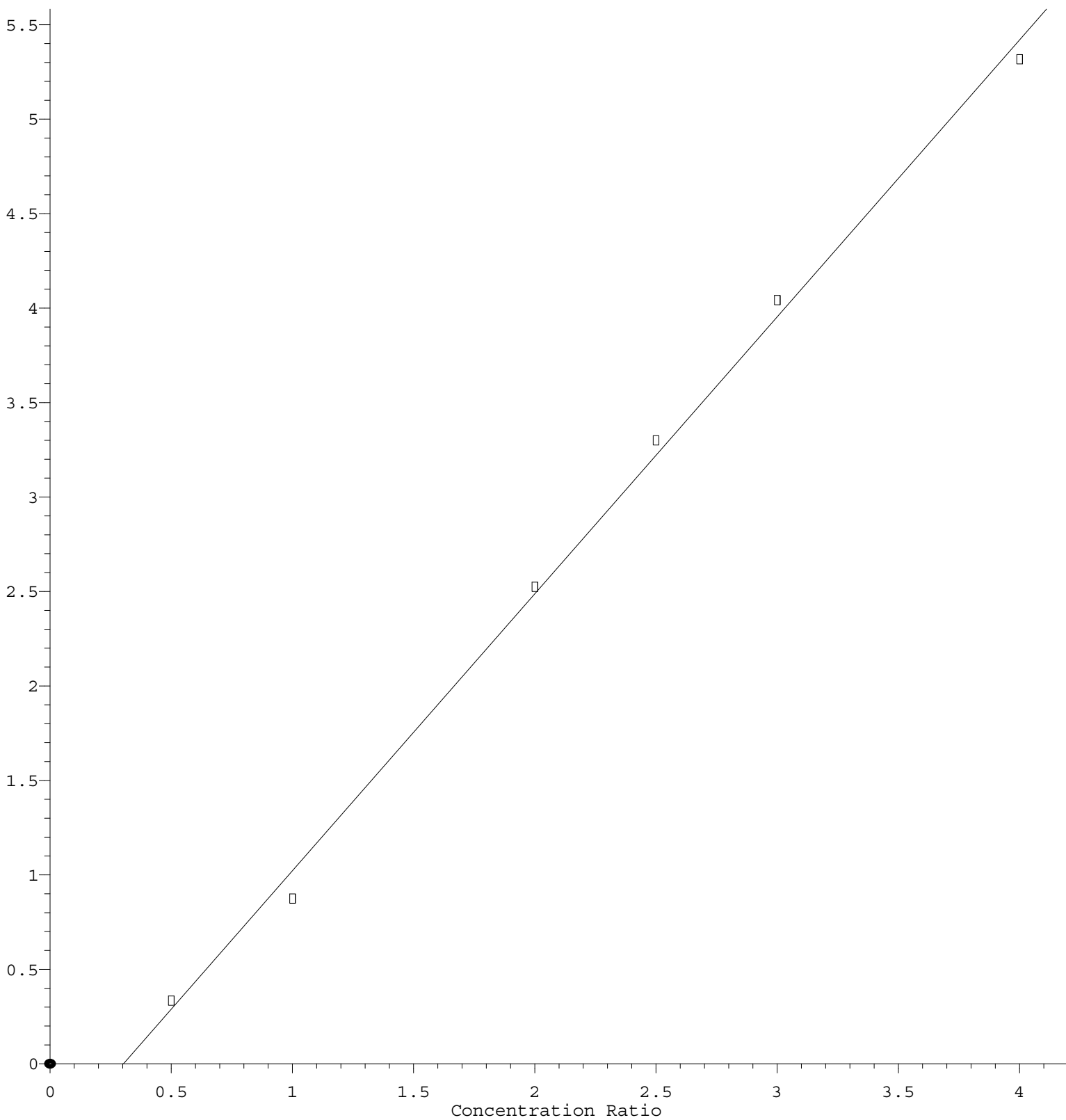
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86) I	Perylene-d12	-----ISTD-----	
87)	Indeno(1,2,3-c...	1.323 1.384 1.466 1.613 1.556 1.490 1.422 1.465	6.78
88)	Benzo(b)fluora...	1.317 1.220 1.208 1.302 1.271 1.177 1.202 1.242	4.36
89)	Benzo(k)fluora...	1.211 1.159 1.222 1.145 1.146 1.110 0.962 1.136	7.59
90) C	Benzo(a)pyrene	1.121 1.098 1.146 1.203 1.180 1.137 1.076 1.137	3.91
91)	Dibenzo(a,h)an...	1.075 1.131 1.197 1.312 1.271 1.192 1.144 1.189	6.90
92)	Benzo(g,h,i)pe...	1.076 1.138 1.204 1.308 1.267 1.213 1.162 1.195	6.55

(#) = Out of Range

Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.466\text{e}+000 * \text{Amt} - 4.448\text{e}-001$$

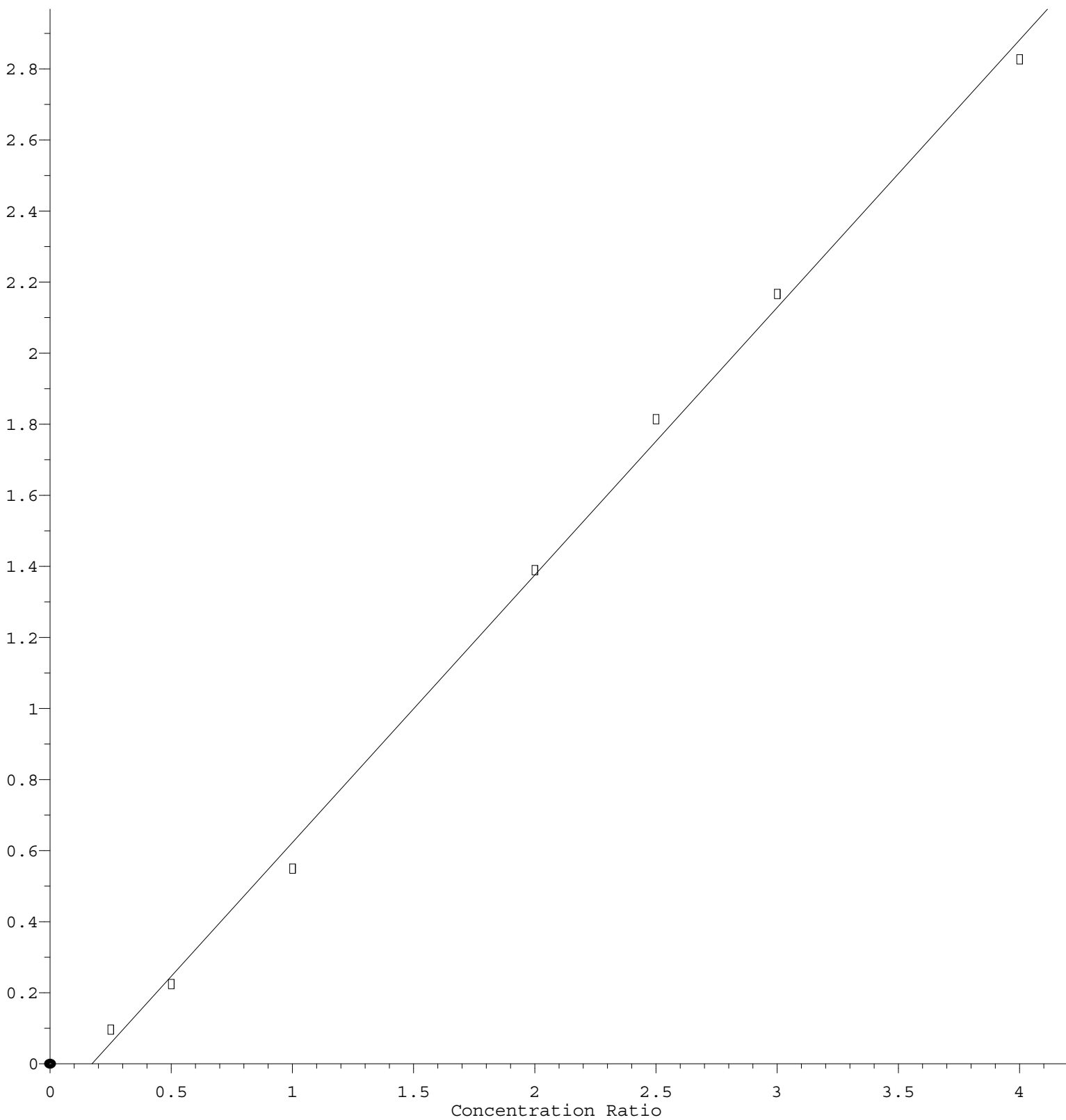
Coef of Det (r^2) = 0.997236 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 7.529\text{e-}001 * \text{Amt} - 1.300\text{e-}001$$

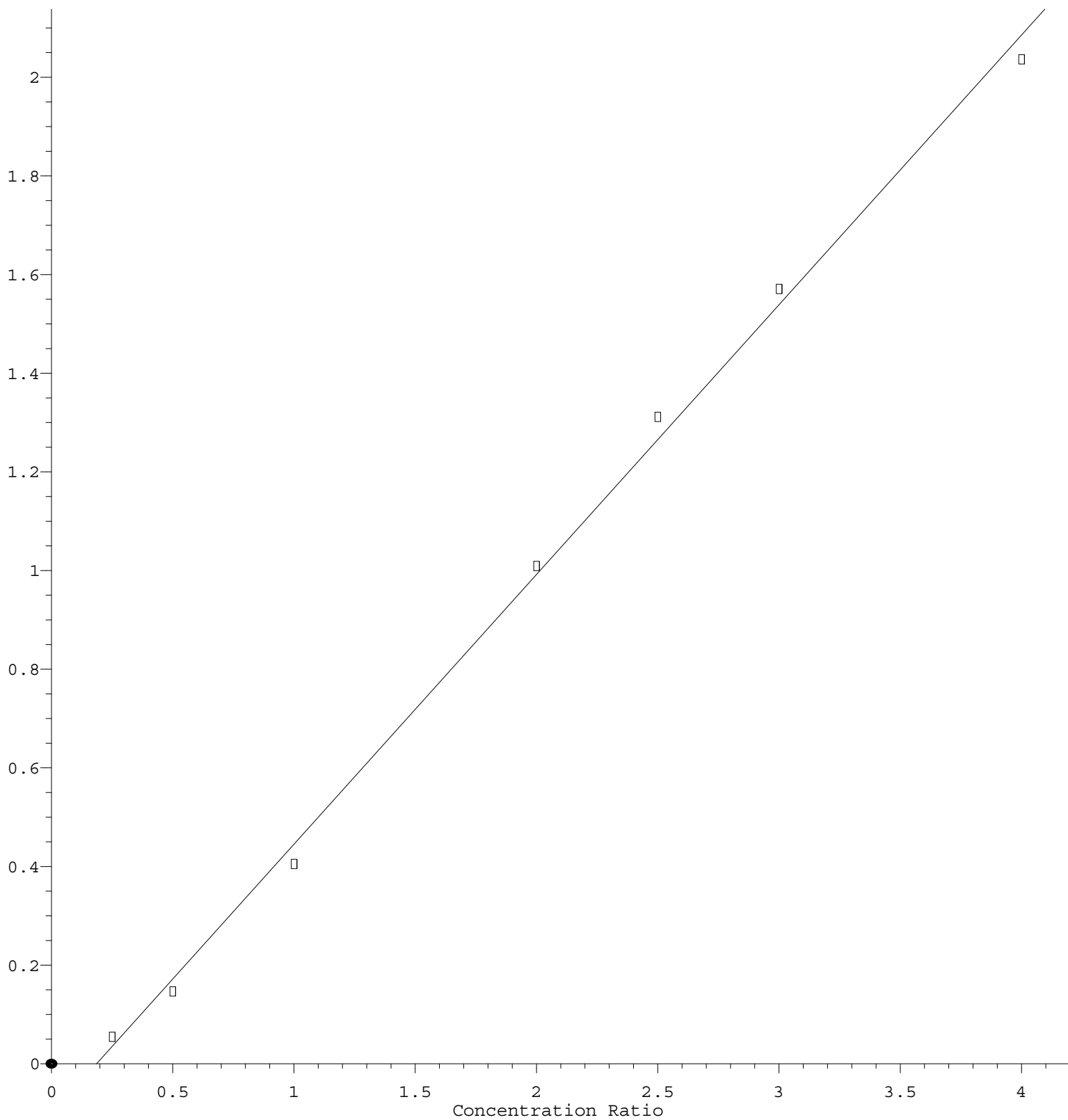
Coef of Det (r^2) = 0.997585 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



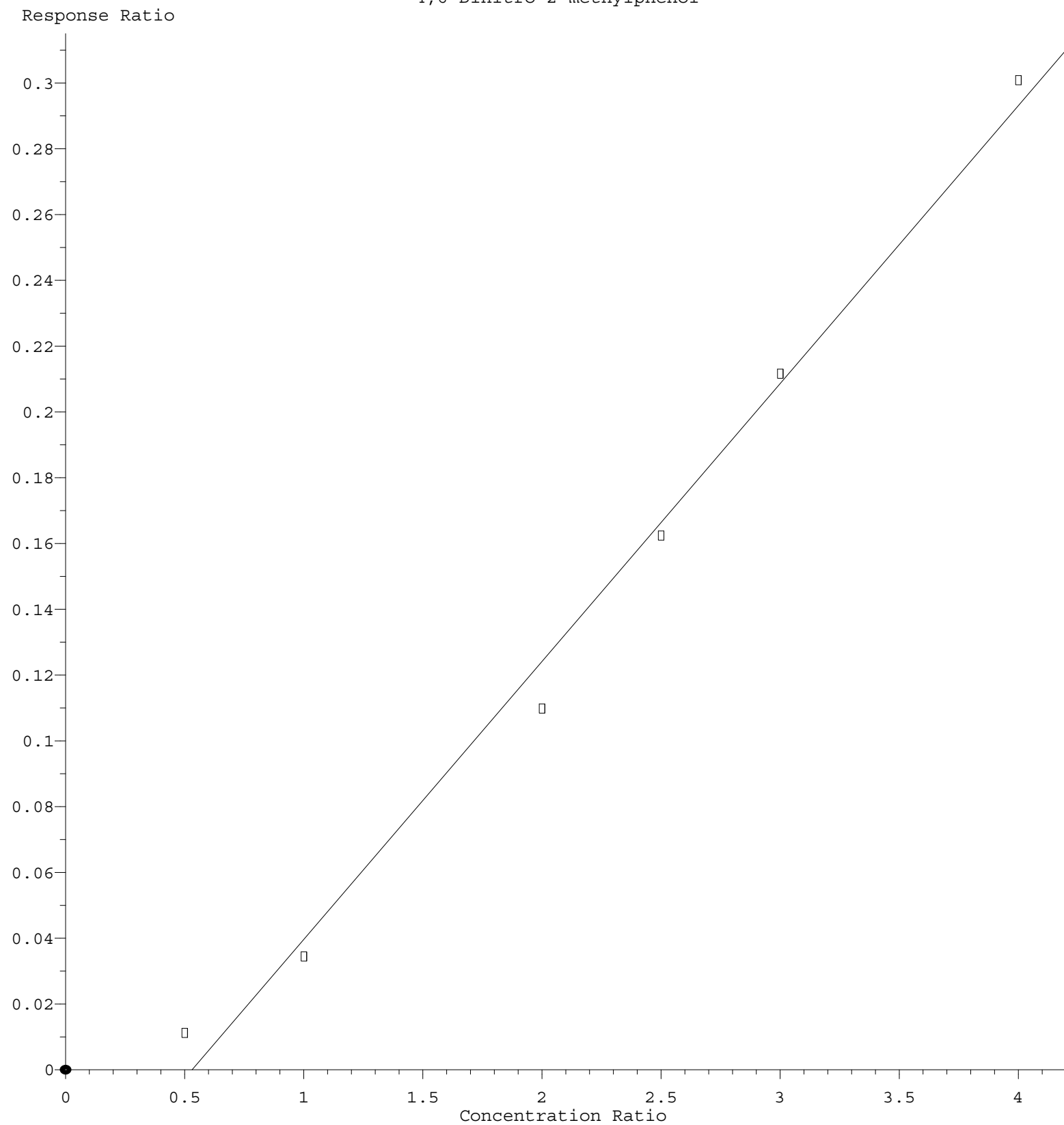
$$\text{Response} = 5.468\text{e-}001 * \text{Amt} - 1.016\text{e-}001$$

Coef of Det (r^2) = 0.997533 Curve Fit: Linear

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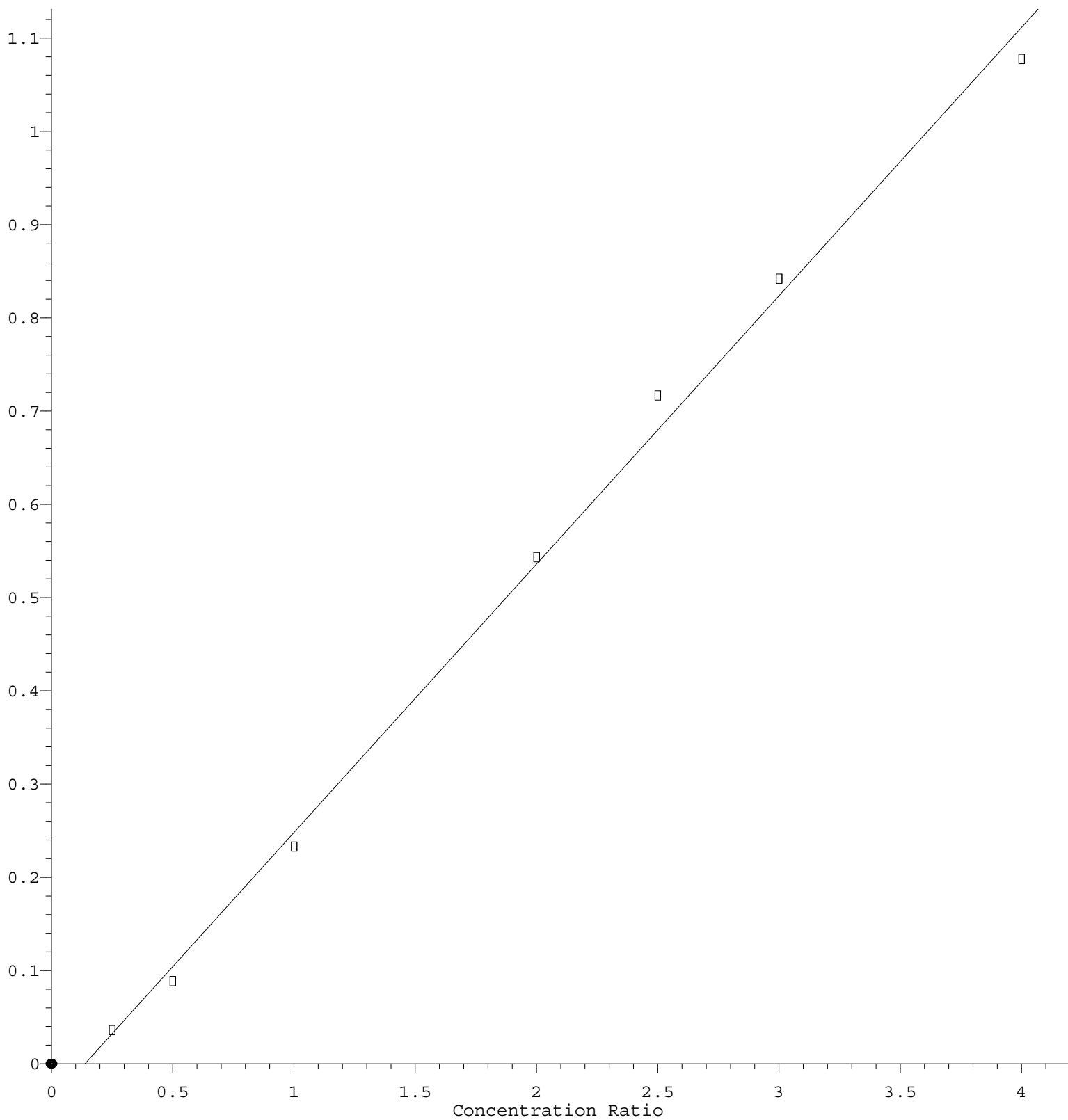
4,6-Dinitro-2-methylphenol



Response = $8.458 \times 10^{-2} \times \text{Amt} - 4.487 \times 10^{-2}$
Coef of Det (r^2) = 0.991555 Curve Fit: Linear
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4-Nitroaniline

Response Ratio



$$\text{Response} = 2.879\text{e-}001 * \text{Amt} - 3.958\text{e-}002$$

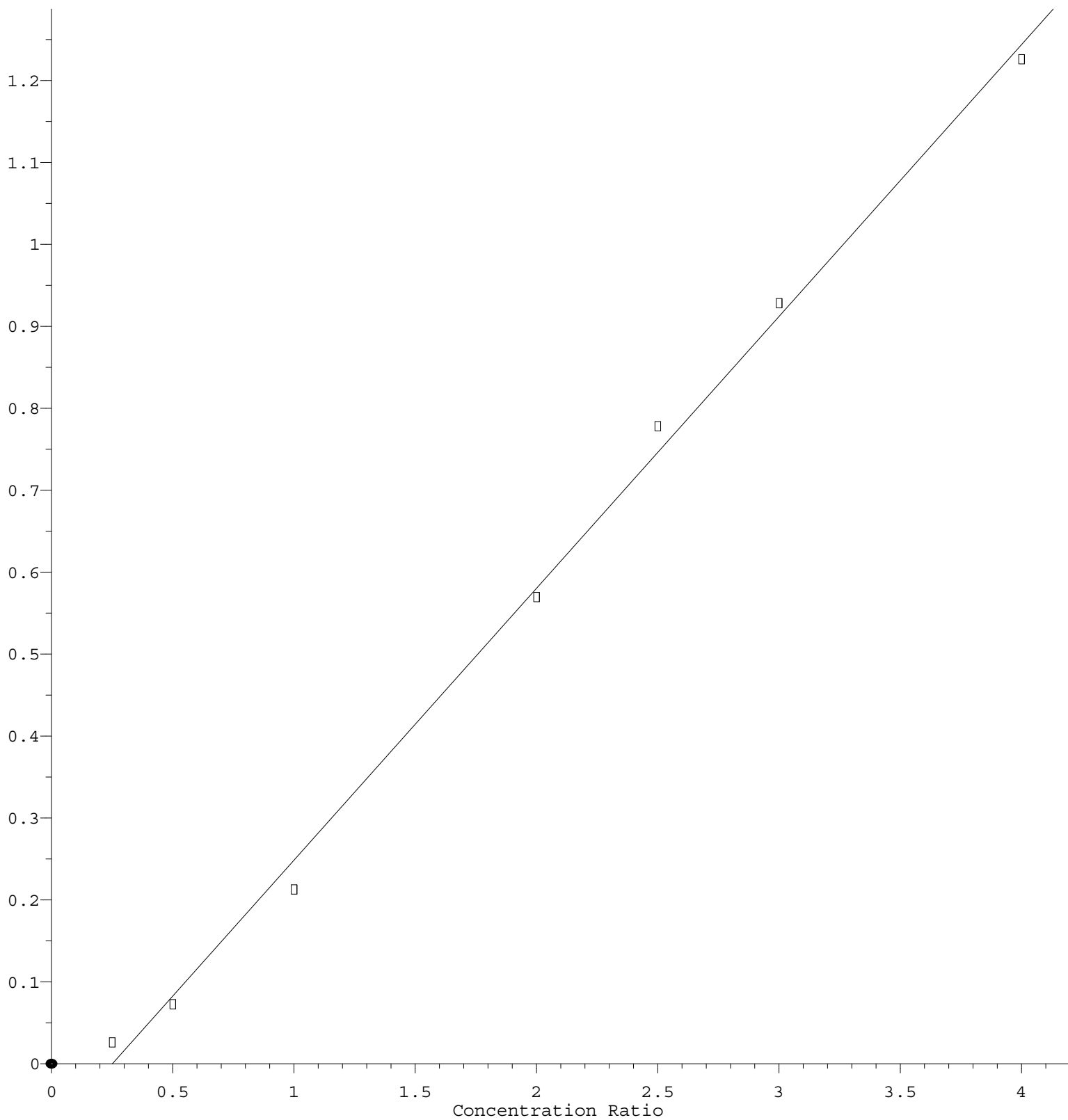
Coef of Det (r^2) = 0.996450 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



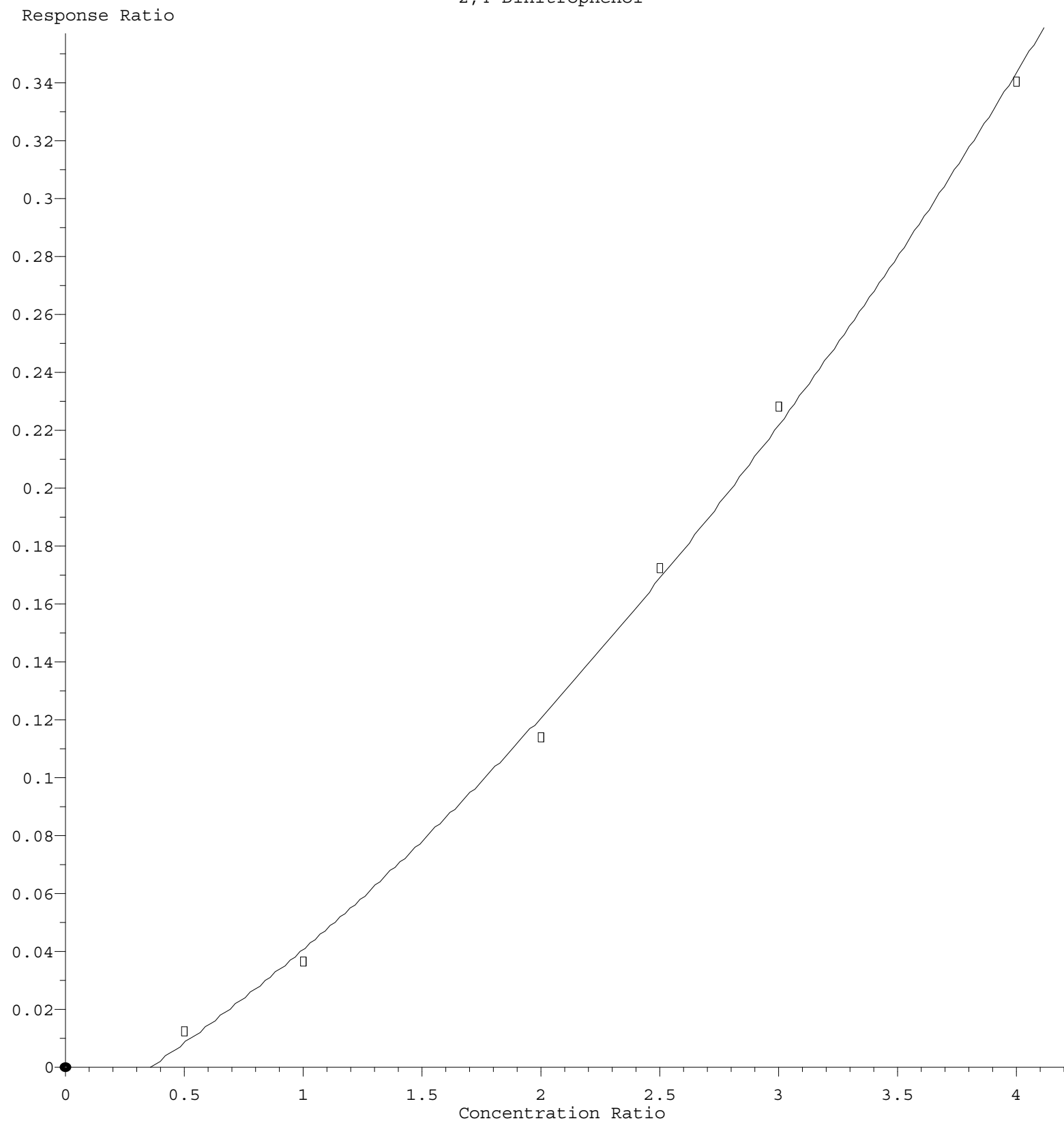
$$\text{Response} = 3.318\text{e-}001 * \text{Amt} - 8.340\text{e-}002$$

Coef of Det (r^2) = 0.997011 Curve Fit: Linear

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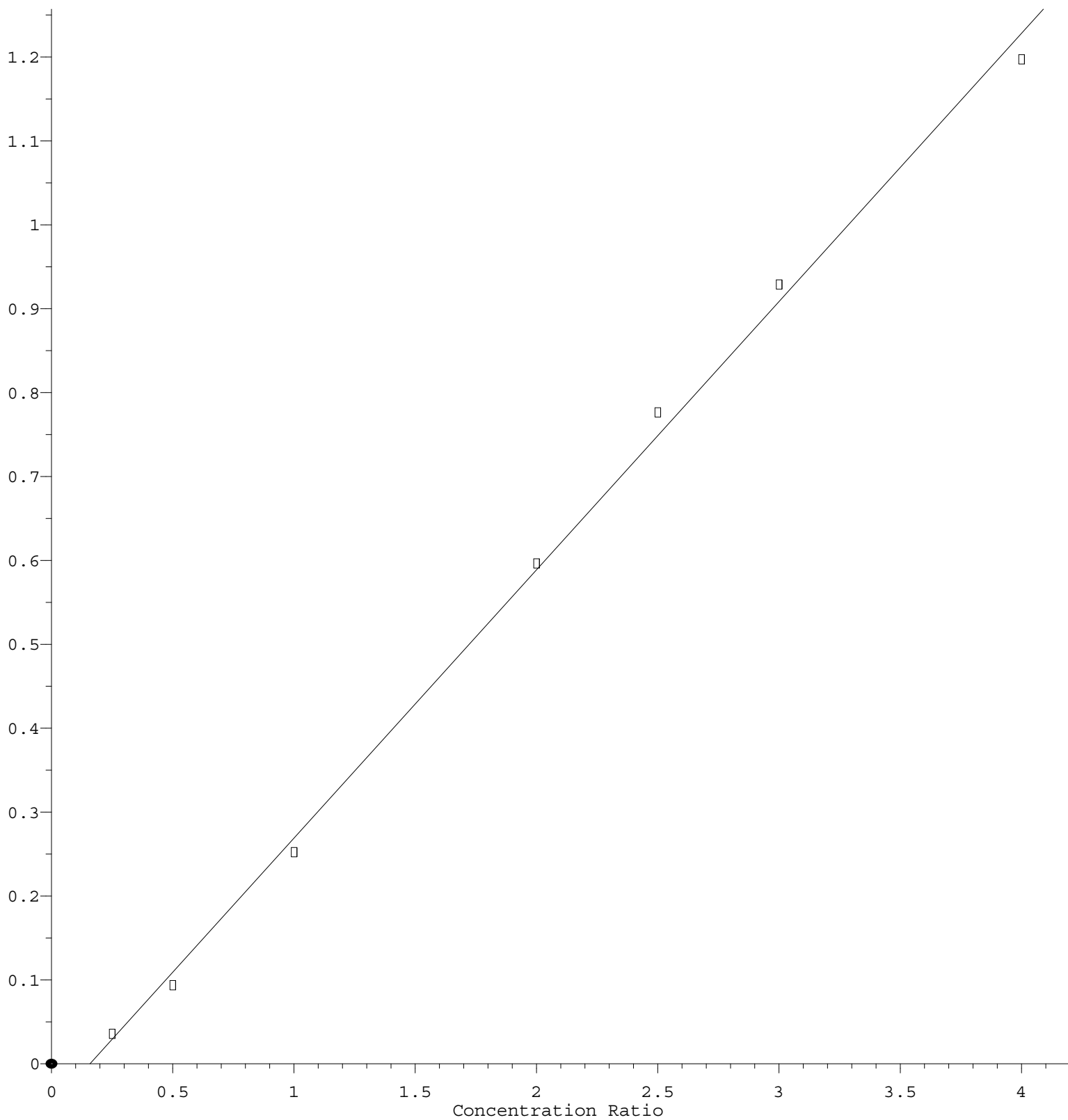
2,4-Dinitrophenol



$R = 1.037e-002 A^2 + 4.909e-002 A - 1.884e-002$
 Coef of Det (r^2) = 0.998097 Curve Fit: Quadratic
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.198\text{e-}001 * \text{Amt} - 5.099\text{e-}002$$

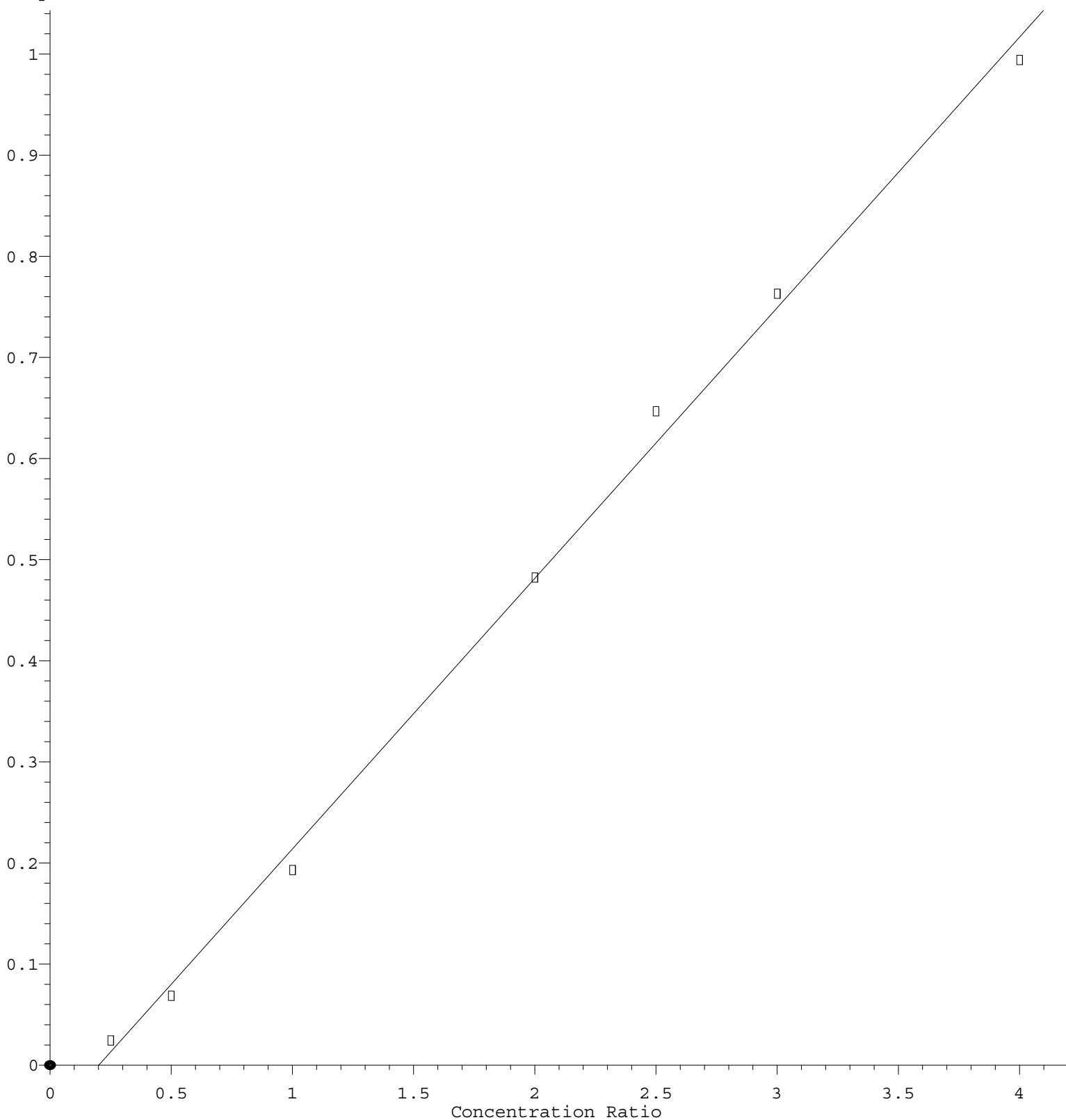
Coef of Det (r^2) = 0.997645 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.679\text{e-}001 * \text{Amt} - 5.390\text{e-}002$$

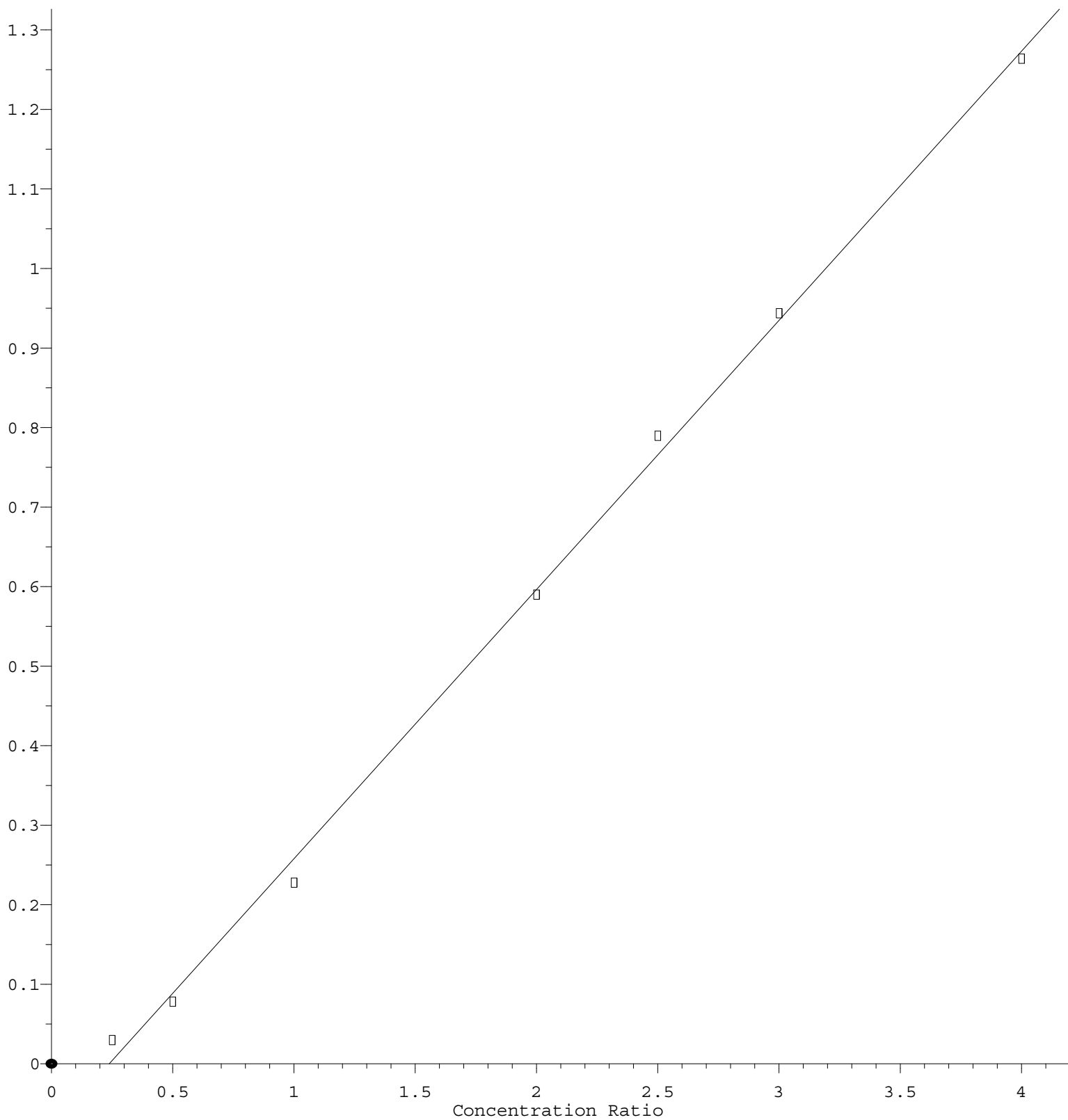
Coef of Det (r^2) = 0.997116 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



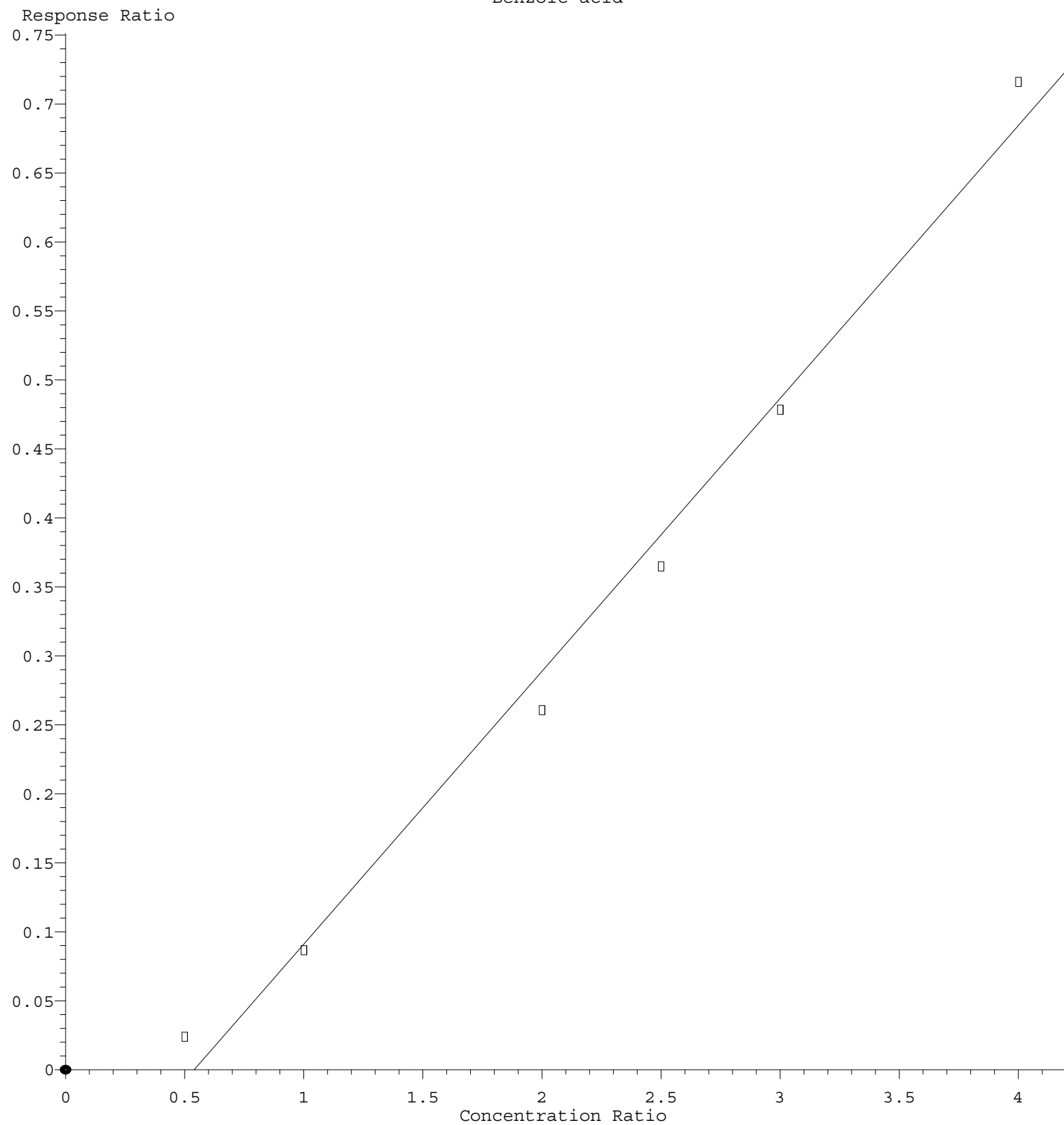
$$\text{Response} = 3.387\text{e-}001 * \text{Amt} - 8.076\text{e-}002$$

Coef of Det (r^2) = 0.998123 Curve Fit: Linear

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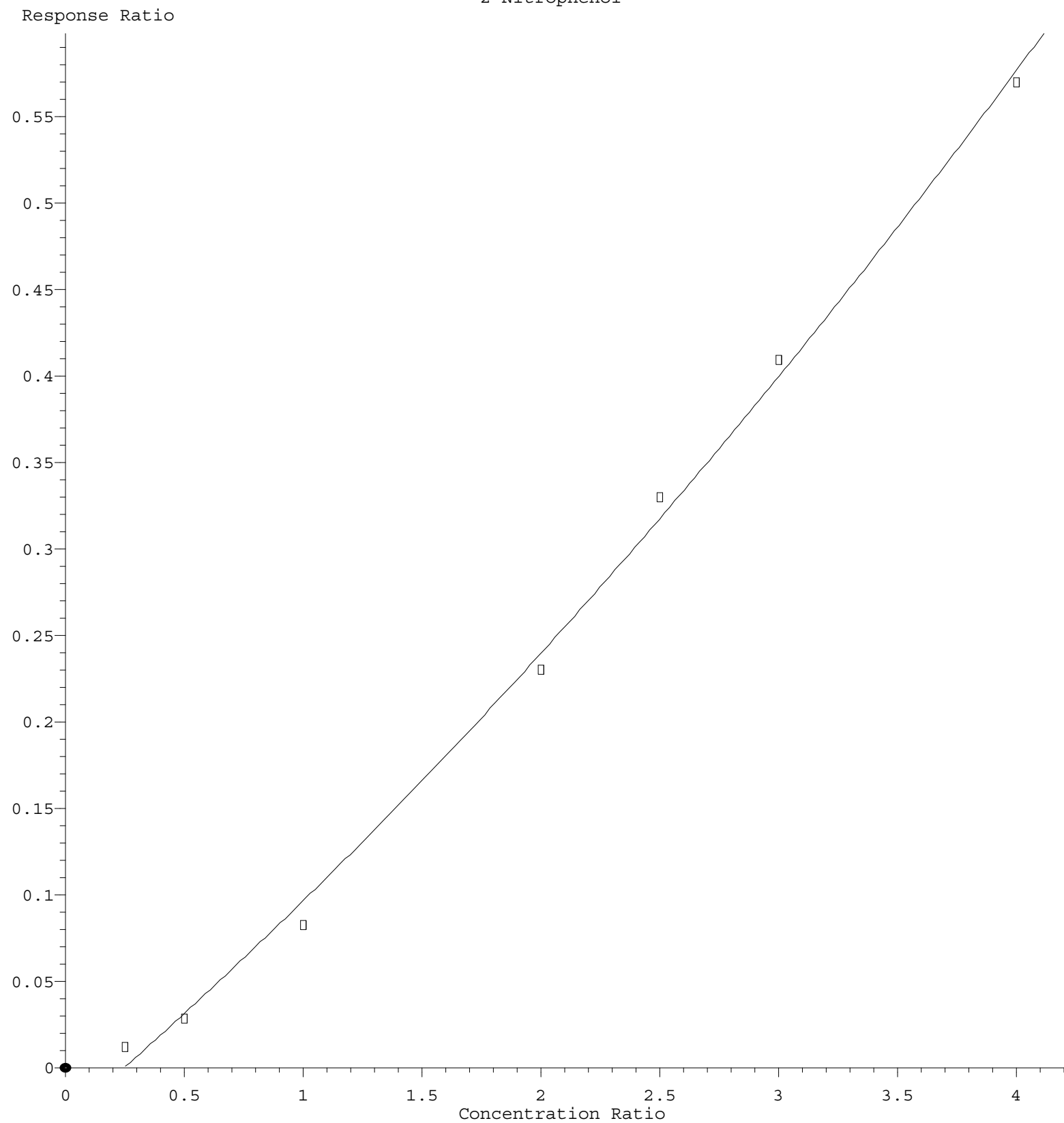
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Benzoic acid



Response = $1.978 \times 10^{-1} \times \text{Amt} - 1.069 \times 10^{-1}$
 Coef of Det (r^2) = 0.989640 Curve Fit: Linear
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2-Nitrophenol



$R = 8.463e-003 A^2 + 1.177e-001 A - 2.955e-002$
 Coef of Det (r^2) = 0.997290 Curve Fit: Quadratic
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