

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP091322.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Sep 13 15:49:51 2022
 Response Via : Initial Calibration

Calibration Files

5 =BP011679.D 10 =BP011680.D 20 =BP011681.D 40 =BP011682.D 50 =BP011683.D 60 =BP011684.D 80 =BP011685.D

	Compound	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.485	0.459	0.515	0.481	0.476	0.483	0.465	0.481	3.78
3)	Pyridine	1.222	1.219	1.465	1.432	1.403	1.438	1.389	1.367	7.53
4)	n-Nitrosodimet...	0.464	0.445	0.523	0.503	0.498	0.506	0.488	0.490	5.45
5) S	2-Fluorophenol	1.067	1.043	1.175	1.133	1.118	1.137	1.097	1.110	4.03
6)	Aniline	1.627	1.624	1.889	1.822	1.795	1.842	1.763	1.766	5.86
7) S	Phenol-d6	1.366	1.349	1.553	1.487	1.459	1.502	1.428	1.449	5.09
8)	2-Chlorophenol	1.249	1.237	1.374	1.305	1.280	1.321	1.262	1.290	3.68
9)	Benzaldehyde	0.954	0.928	1.050	0.917	0.865	0.876	0.802	0.913	8.57
10) C	Phenol	1.502	1.499	1.722	1.657	1.637	1.679	1.600	1.614	5.32
11)	bis(2-Chloroet...	1.246	1.195	1.344	1.270	1.252	1.281	1.202	1.256	4.02
12)	1,3-Dichlorobe...	1.497	1.452	1.527	1.417	1.399	1.429	1.357	1.440	4.03
13) C	1,4-Dichlorobe...	1.523	1.468	1.549	1.459	1.429	1.455	1.386	1.467	3.73
14)	1,2-Dichlorobe...	1.446	1.399	1.483	1.378	1.350	1.377	1.309	1.392	4.19
15)	Benzyl Alcohol	0.918	0.916	1.073	1.056	1.044	1.082	1.028	1.017	6.92
16)	2,2'-oxybis(1-...	1.482	1.444	1.685	1.561	1.526	1.566	1.461	1.532	5.40
17)	2-Methylphenol	0.955	0.963	1.130	1.075	1.059	1.092	1.041	1.045	6.21
18)	Hexachloroethane	0.466	0.458	0.510	0.492	0.492	0.507	0.481	0.487	4.02
19) P	n-Nitroso-di-n...	0.791	0.793	0.952	0.919	0.904	0.933	0.880	0.882	7.40
20)	3+4-Methylphenols	1.283	1.319	1.525	1.476	1.462	1.509	1.437	1.430	6.53
21) I	Naphthalene-d8	-----ISTD-----								
22)	Acetophenone	0.442	0.438	0.484	0.465	0.471	0.481	0.470	0.465	3.89
23) S	Nitrobenzene-d5	0.289	0.292	0.338	0.332	0.339	0.350	0.341	0.326	7.62
24)	Nitrobenzene	0.308	0.308	0.356	0.345	0.348	0.359	0.351	0.339	6.42
25)	Isophorone	0.469	0.482	0.583	0.583	0.599	0.628	0.610	0.565	11.19
26) C	2-Nitrophenol	0.108	0.114	0.136	0.147	0.159	0.168	0.167	0.143	16.97
27)	2,4-Dimethylph...	0.216	0.224	0.255	0.254	0.260	0.270	0.262	0.249	8.20
28)	bis(2-Chloroet...	0.348	0.343	0.383	0.367	0.370	0.386	0.373	0.367	4.44
29) C	2,4-Dichloroph...	0.243	0.255	0.281	0.281	0.289	0.301	0.295	0.278	7.67
30)	1,2,4-Trichlor...	0.326	0.314	0.317	0.303	0.308	0.319	0.309	0.314	2.44
31)	Naphthalene	1.056	1.007	1.072	1.025	1.027	1.057	1.025	1.039	2.25
32)	Benzoic acid		0.113	0.158	0.189	0.204	0.218	0.224	0.184	22.95
33)	4-Chloroaniline	0.376	0.382	0.426	0.414	0.421	0.438	0.430	0.412	5.81
34) C	Hexachlorobuta...	0.188	0.181	0.171	0.167	0.170	0.177	0.173	0.175	4.14
35)	Caprolactam		0.065	0.084	0.089	0.094	0.098	0.099	0.088	14.40
36) C	4-Chloro-3-met...	0.241	0.253	0.303	0.301	0.306	0.320	0.314	0.291	10.66
37)	2-Methylnaphth...	0.676	0.666	0.711	0.684	0.691	0.717	0.693	0.691	2.65
38)	1-Methylnaphth...	0.659	0.658	0.700	0.670	0.673	0.697	0.674	0.676	2.46

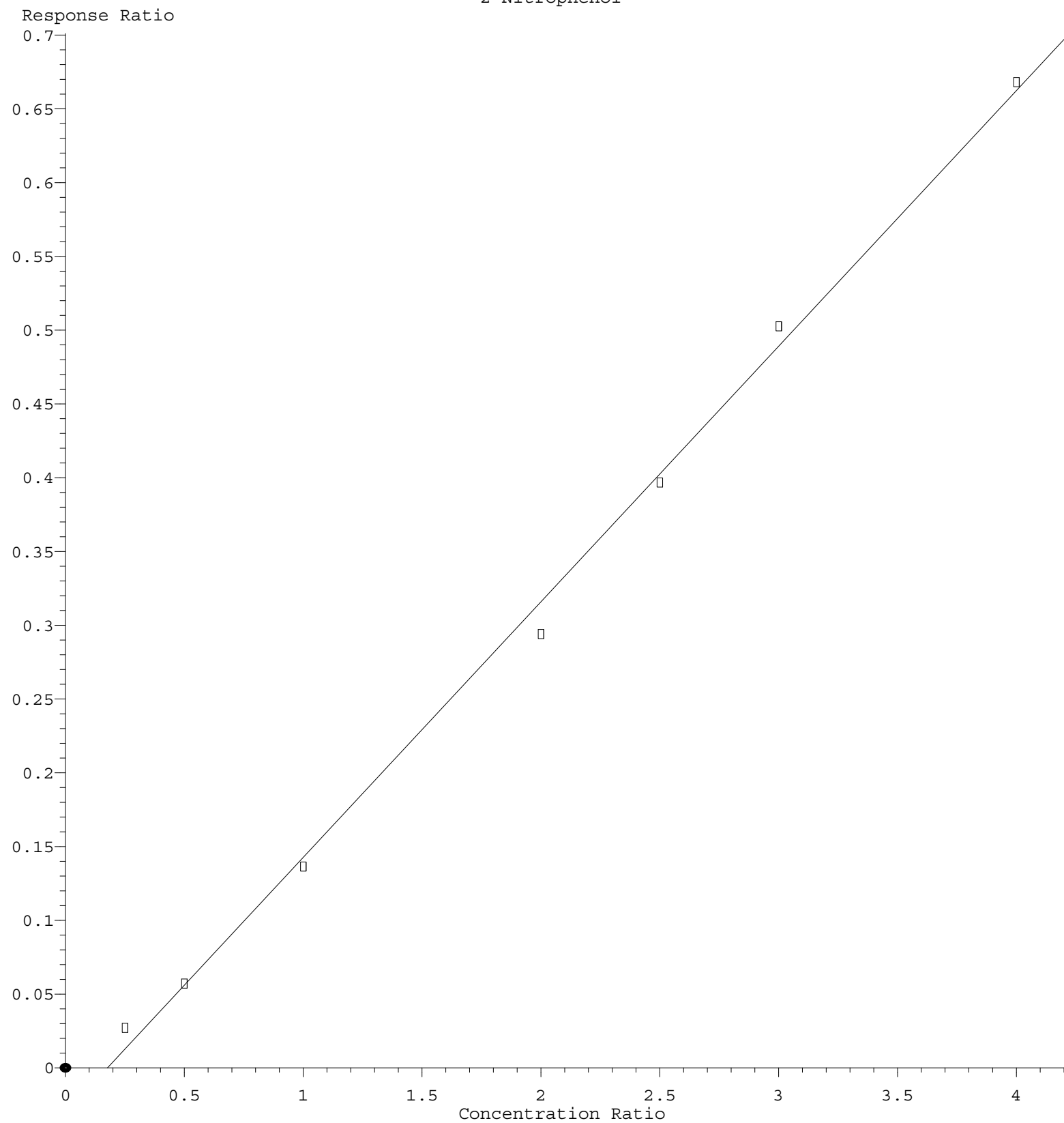
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39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.566	0.543	0.540	0.523	0.533	0.557	0.539	0.543	2.67
41) P	Hexachlorocycl...	0.244	0.244	0.250	0.258	0.272	0.289	0.279	0.262	6.82
42) S	2,4,6-Tribromo...	0.165	0.182	0.160	0.166	0.172	0.182	0.183	0.173	5.61
43) C	2,4,6-Trichlor...	0.304	0.324	0.360	0.370	0.381	0.398	0.390	0.361	9.73
44)	2,4,5-Trichlor...	0.349	0.377	0.406	0.415	0.421	0.439	0.432	0.406	7.92
45) S	2-Fluorobiphenyl	1.344	1.296	1.345	1.280	1.260	1.293	1.221	1.291	3.44
46)	1,1'-Biphenyl	1.457	1.392	1.503	1.434	1.431	1.486	1.427	1.447	2.62
47)	2-Chloronaphth...	1.132	1.100	1.172	1.124	1.128	1.174	1.137	1.138	2.34
48)	2-Nitroaniline	0.207	0.228	0.307	0.322	0.337	0.355	0.350	0.301	19.82
49)	Acenaphthylene	1.551	1.625	1.817	1.784	1.809	1.878	1.811	1.754	6.77
50)	Dimethylphthalate	1.329	1.345	1.443	1.385	1.385	1.438	1.399	1.389	3.08
51)	2,6-Dinitrotol...	0.214	0.241	0.289	0.292	0.299	0.315	0.310	0.280	13.47
52) C	Acenaphthene	1.126	1.109	1.206	1.173	1.177	1.228	1.188	1.172	3.59
53)	3-Nitroaniline	0.235	0.268	0.339	0.344	0.353	0.370	0.370	0.325	16.22
54) P	2,4-Dinitrophenol	0.093	0.117	0.134	0.146	0.158	0.163	0.135		19.60
55)	Dibenzofuran	1.732	1.680	1.785	1.696	1.685	1.737	1.683	1.714	2.27
56) P	4-Nitrophenol	0.210	0.273	0.286	0.291	0.302	0.307	0.278		12.77
57)	2,4-Dinitrotol...	0.246	0.292	0.370	0.389	0.403	0.419	0.419	0.363	18.62
58)	Fluorene	1.368	1.356	1.457	1.390	1.375	1.408	1.352	1.387	2.66
59)	2,3,4,6-Tetrac...	0.312	0.328	0.341	0.342	0.346	0.363	0.359	0.342	5.08
60)	Diethylphthalate	1.240	1.259	1.411	1.383	1.391	1.438	1.402	1.361	5.74
61)	4-Chlorophenyl...	0.657	0.654	0.655	0.635	0.635	0.658	0.634	0.647	1.79
62)	4-Nitroaniline	0.230	0.274	0.354	0.361	0.370	0.383	0.386	0.337	17.97
63)	Azobenzene	0.986	1.077	1.330	1.313	1.321	1.360	1.327	1.245	11.95
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.055	0.067	0.087	0.096	0.104	0.111	0.113	0.091	24.44
66) c	n-Nitrosodiphe...	0.535	0.541	0.621	0.592	0.593	0.616	0.594	0.585	5.77
67)	4-Bromophenyl-...	0.185	0.186	0.187	0.185	0.189	0.199	0.194	0.189	2.83
68)	Hexachlorobenzene	0.226	0.224	0.206	0.201	0.205	0.215	0.212	0.213	4.39
69)	Atrazine	0.154	0.163	0.187	0.184	0.188	0.196	0.194	0.181	8.92
70) C	Pentachlorophenol	0.096	0.111	0.122	0.130	0.134	0.142	0.143	0.125	13.74
71)	Phenanthrene	1.069	1.056	1.153	1.080	1.072	1.097	1.072	1.085	2.96
72)	Anthracene	0.934	0.956	1.086	1.041	1.042	1.067	1.044	1.024	5.55
73)	Carbazole	0.874	0.902	1.038	0.986	0.989	1.012	1.002	0.972	6.22
74)	Di-n-butylphth...	0.847	0.912	1.134	1.143	1.170	1.209	1.174	1.084	13.20
75) C	Fluoranthene	1.141	1.155	1.253	1.193	1.186	1.205	1.203	1.191	3.07
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.432	0.385	0.506	0.520	0.536	0.508	0.398	0.469	13.29
78)	Pyrene	1.204	1.177	1.383	1.307	1.320	1.389	1.316	1.299	6.26
79) S	Terphenyl-d14	0.935	0.905	0.977	0.909	0.889	0.911	0.855	0.911	4.15
80)	Butylbenzylpht...	0.347	0.375	0.519	0.553	0.575	0.614	0.592	0.511	20.95
81)	Benzo(a)anthra...	1.216	1.203	1.329	1.279	1.278	1.314	1.278	1.271	3.68
82)	3,3'-Dichlorob...	0.335	0.356	0.410	0.411	0.418	0.432	0.419	0.397	9.25
83)	Chrysene	1.214	1.188	1.288	1.214	1.204	1.257	1.209	1.225	2.85
84)	Bis(2-ethylhex...	0.481	0.532	0.759	0.786	0.809	0.855	0.813	0.719	20.70
85) c	Di-n-octyl pht...	0.776	0.866	1.233	1.310	1.368	1.438	1.403	1.199	22.35

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86) I	Perylene-d12										
87)	Indeno(1,2,3-c...	1.382	1.356	1.469	1.460	1.470	1.522	1.524	1.455	4.42	
88)	Benzo(b)fluora...	1.142	1.143	1.255	1.270	1.236	1.319	1.276	1.234	5.47	
89)	Benzo(k)fluora...	1.140	1.147	1.298	1.231	1.260	1.270	1.274	1.231	5.14	
90) C	Benzo(a)pyrene	0.895	0.908	1.041	1.040	1.051	1.089	1.082	1.015	7.90	
91)	Dibenzo(a,h)an...	1.165	1.137	1.226	1.204	1.222	1.258	1.248	1.208	3.62	
92)	Benzo(g,h,i)pe...	1.149	1.116	1.197	1.178	1.195	1.233	1.243	1.187	3.76	

(#) = Out of Range

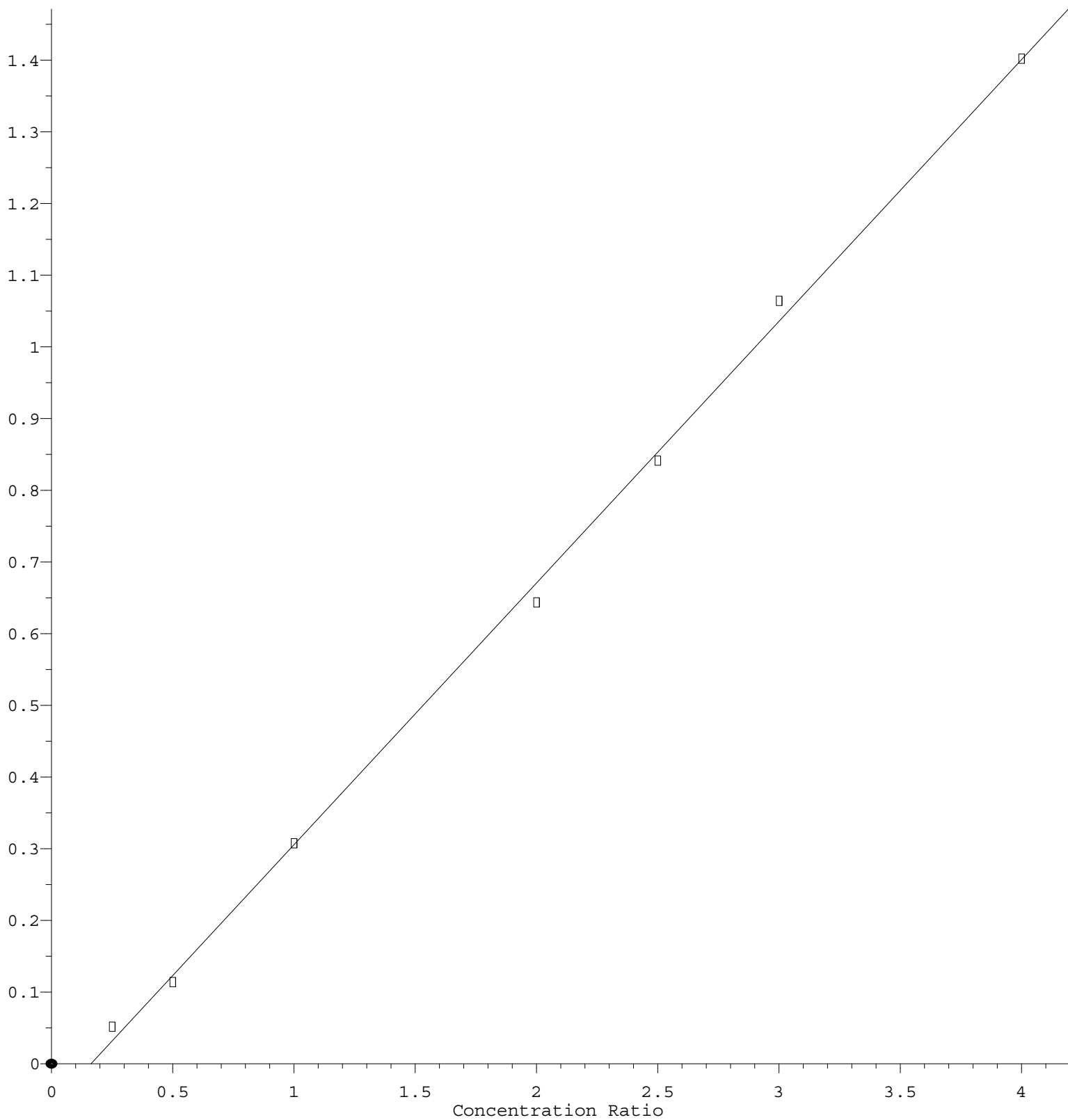
2-Nitrophenol



Response = $1.734 \times 10^{-1} \times \text{Amt} - 3.075 \times 10^{-2}$
 Coef of Det (r^2) = 0.997194 Curve Fit: Linear
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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.652\text{e-}001 * \text{Amt} - 5.936\text{e-}002$$

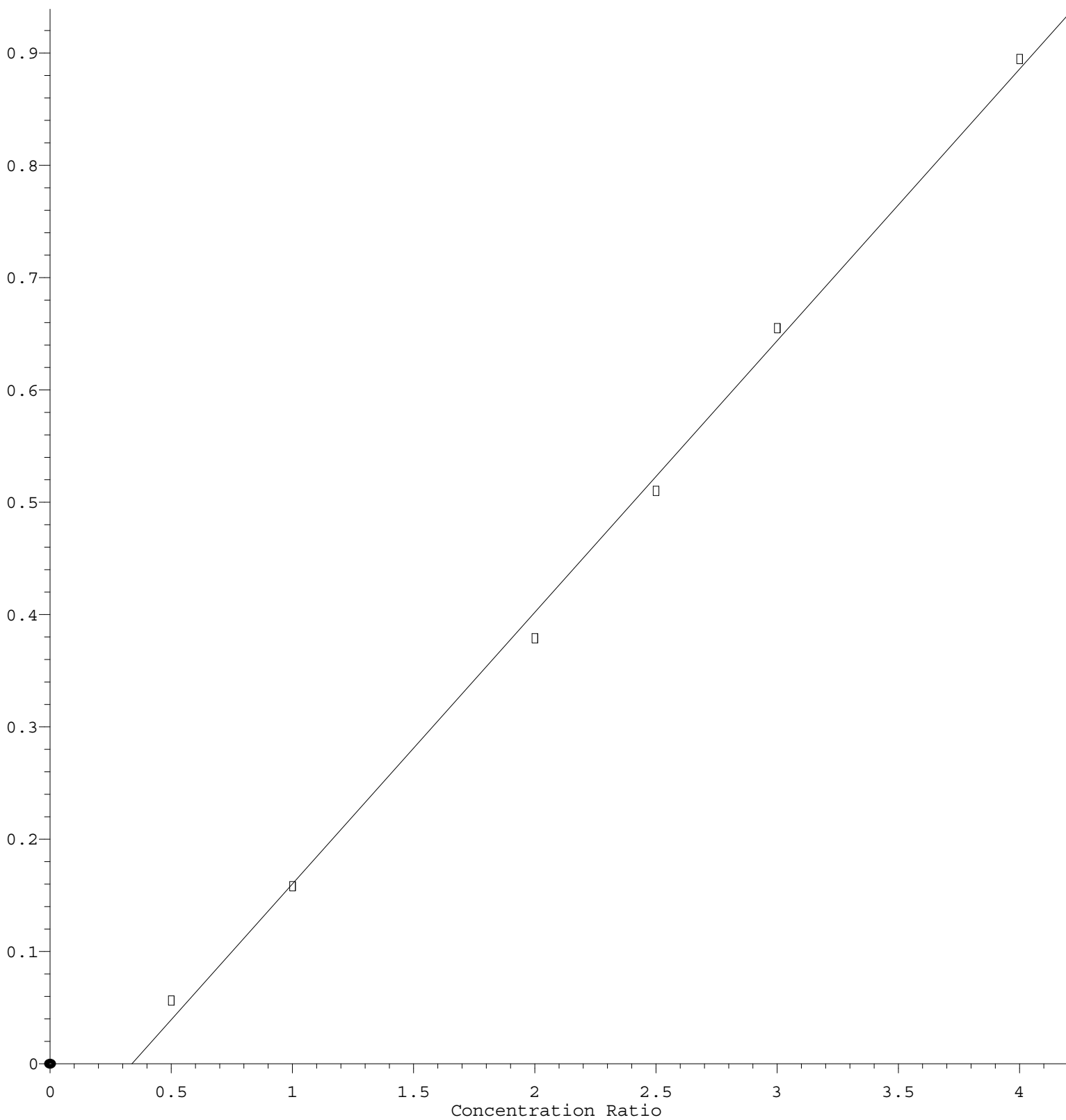
Coef of Det (r^2) = 0.998592 Curve Fit: Linear

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Benzoic acid

Response Ratio



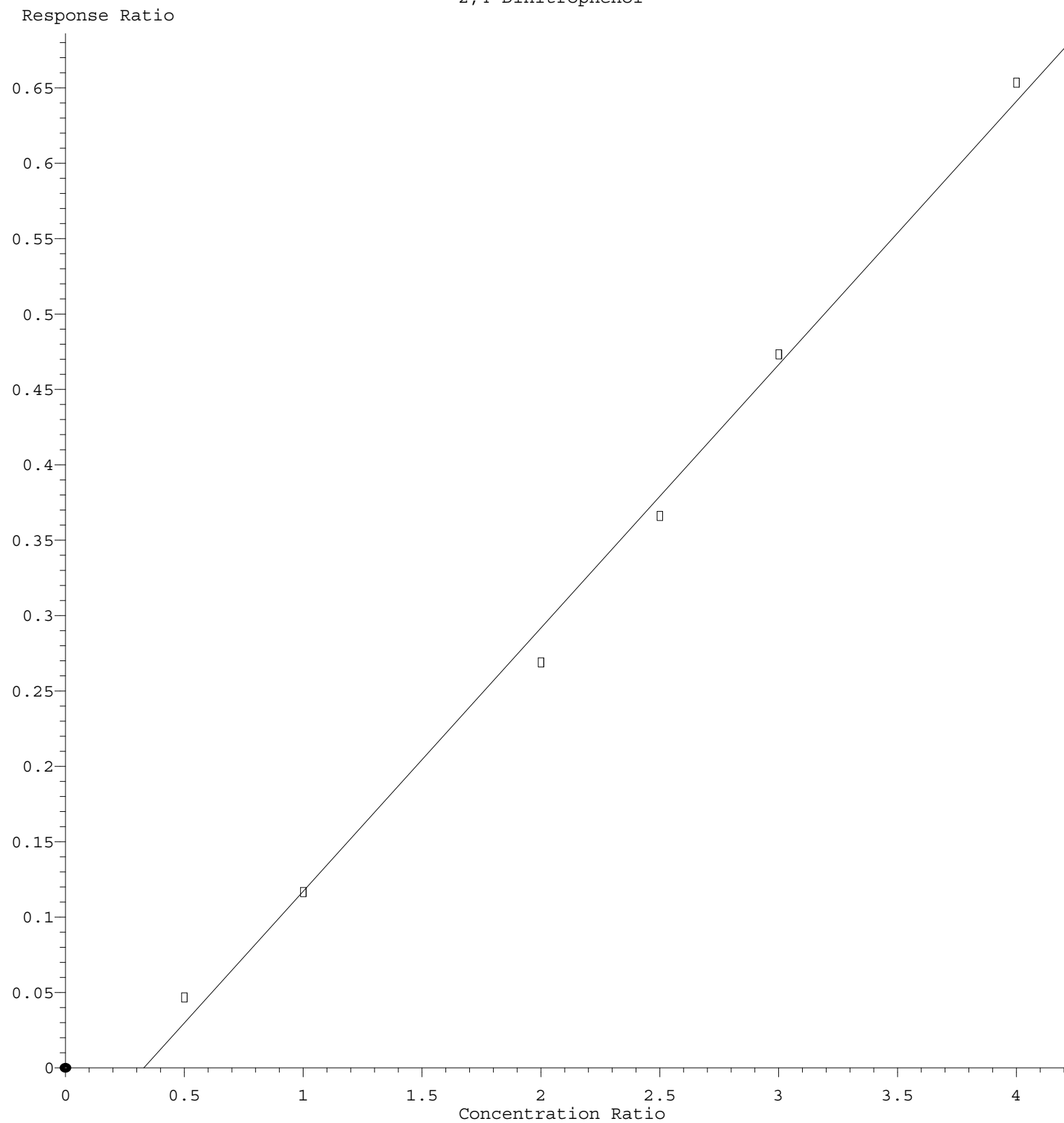
$$\text{Response} = 2.418\text{e-}001 * \text{Amt} - 8.163\text{e-}002$$

Coef of Det (r^2) = 0.997551 Curve Fit: Linear

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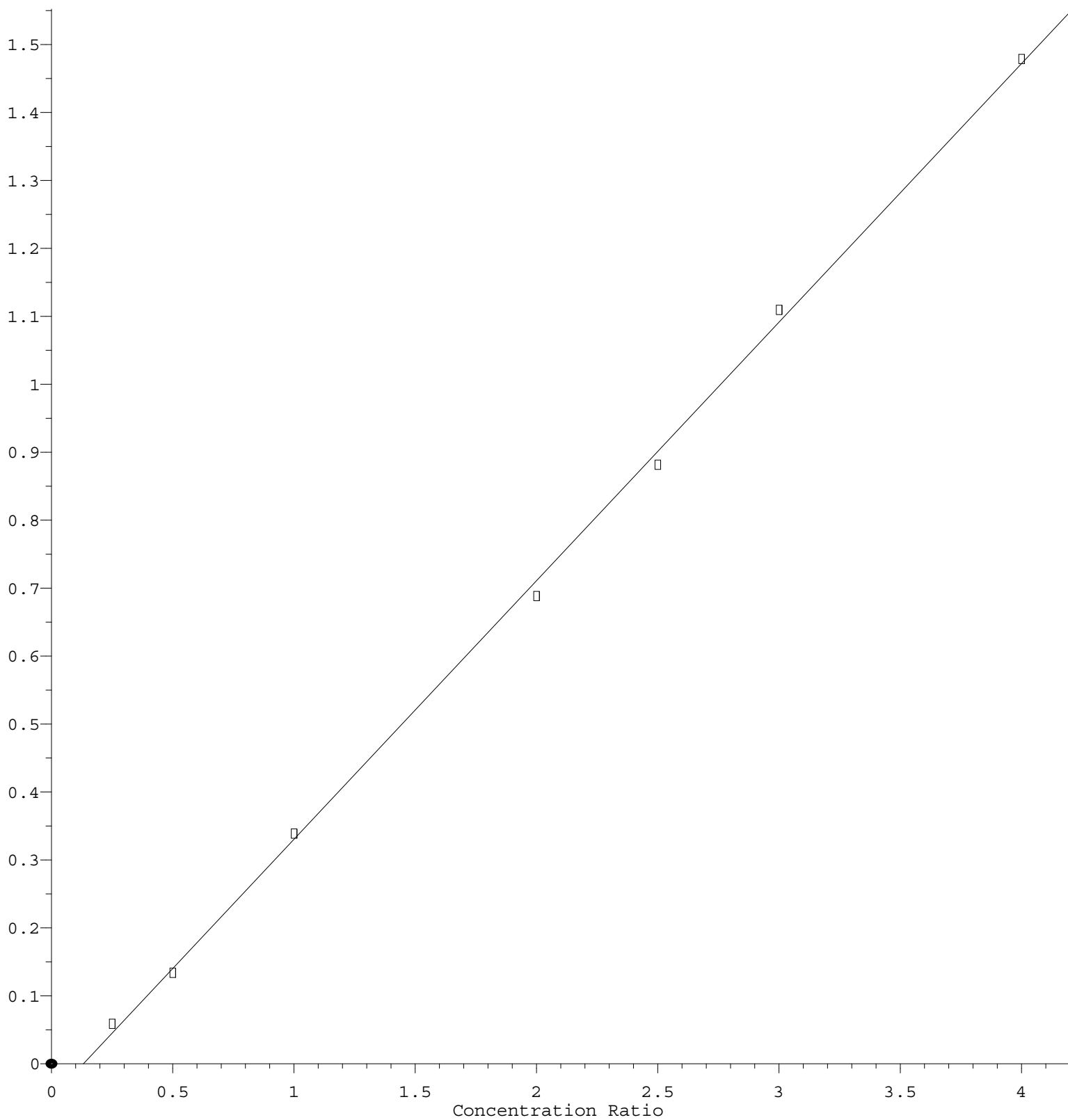
2,4-Dinitrophenol



Response = $1.747 \times 10^{-1} \times \text{Amt} - 5.764 \times 10^{-2}$
 Coef of Det (r^2) = 0.995387 Curve Fit: Linear
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.804\text{e-}001 * \text{Amt} - 5.013\text{e-}002$$

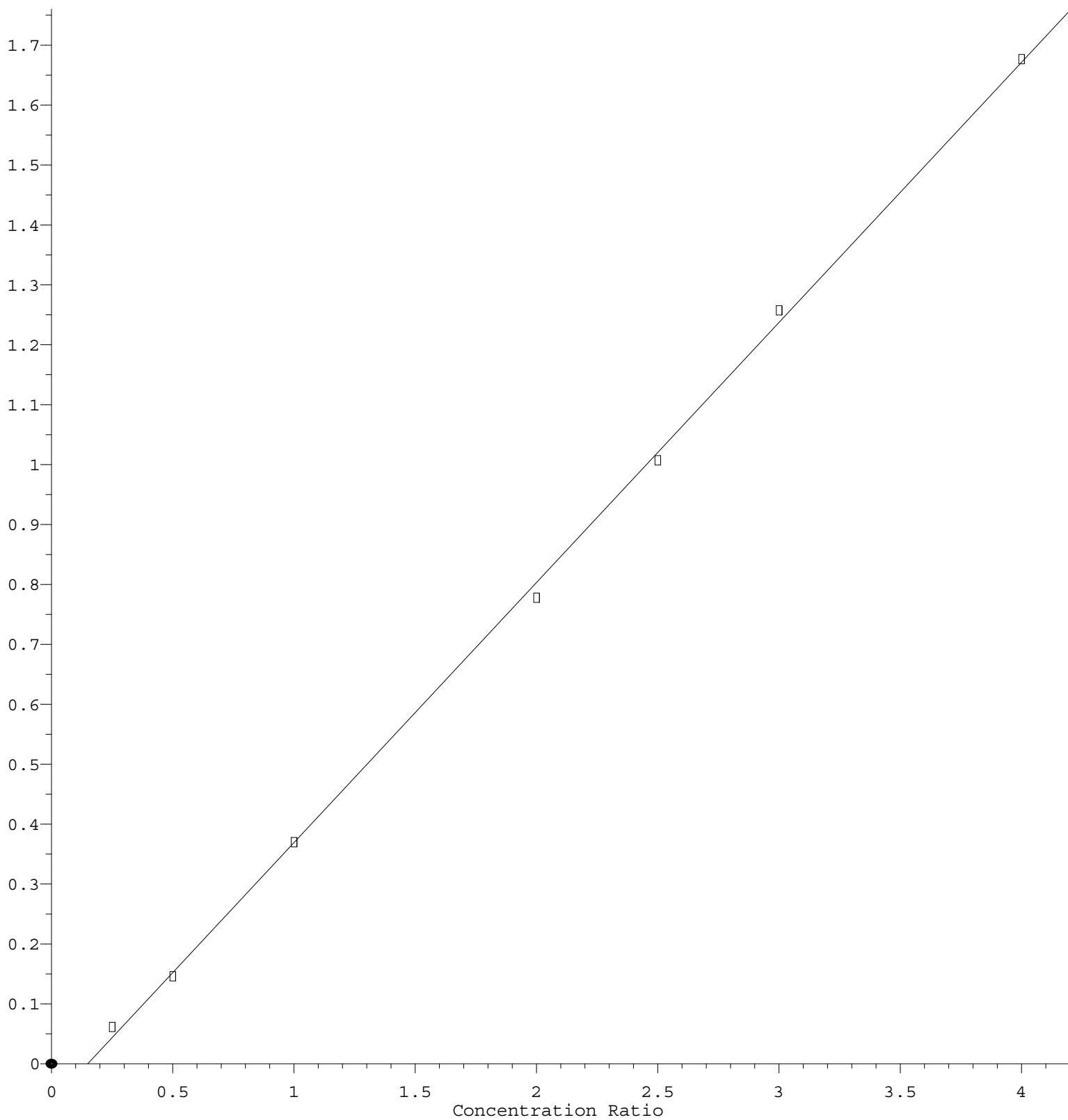
Coef of Det (r^2) = 0.999064 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.342\text{e-}001 * \text{Amt} - 6.523\text{e-}002$$

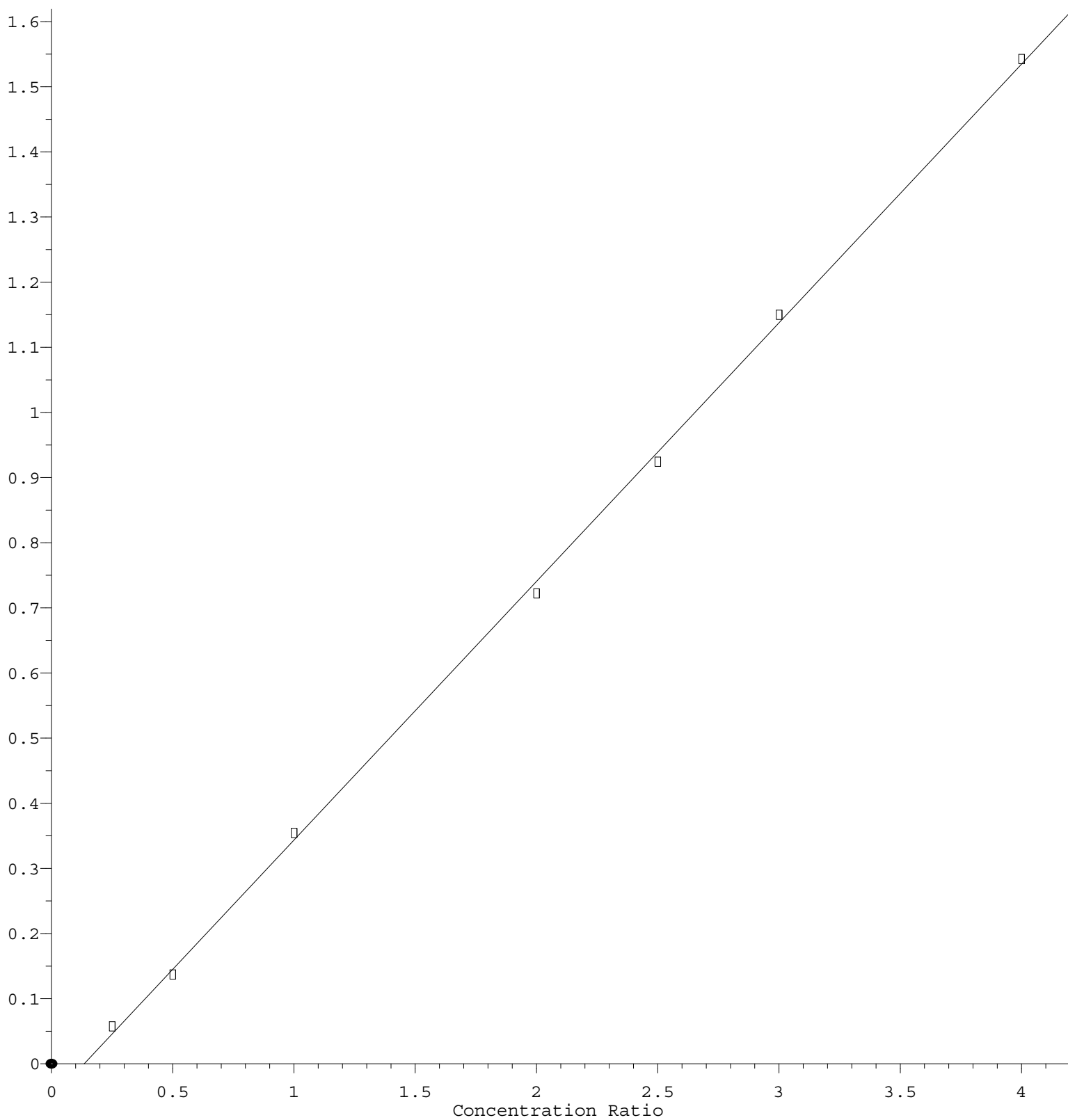
Coef of Det (r^2) = 0.999254 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



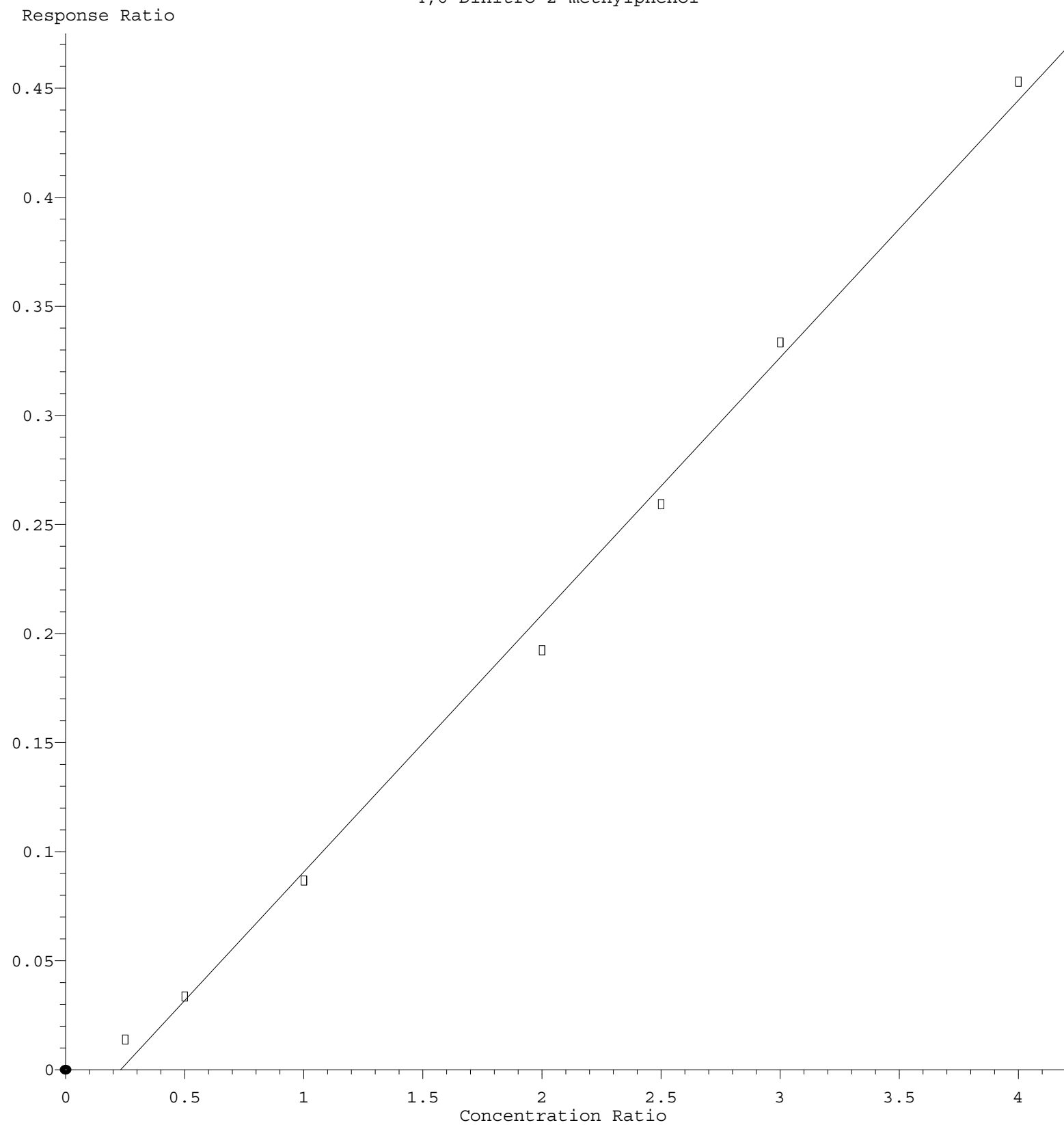
$$\text{Response} = 3.972\text{e-}001 * \text{Amt} - 5.356\text{e-}002$$

Coef of Det (r^2) = 0.999403 Curve Fit: Linear

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4,6-Dinitro-2-methylphenol



$$\text{Response} = 1.180\text{e-}001 * \text{Amt} - 2.730\text{e-}002$$

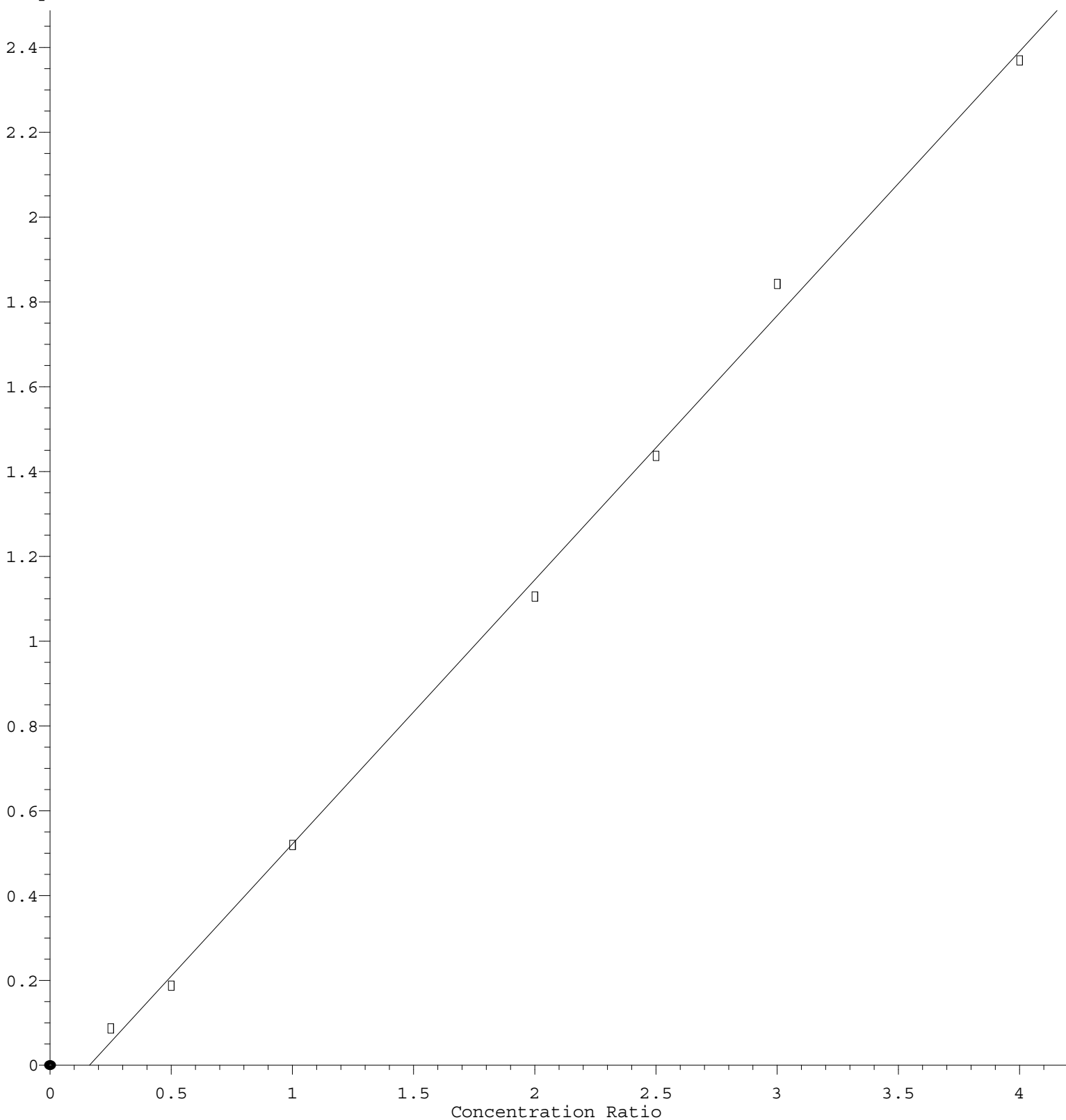
Coef of Det (r^2) = 0.996201 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 6.232\text{e-}001 * \text{Amt} - 1.015\text{e-}001$$

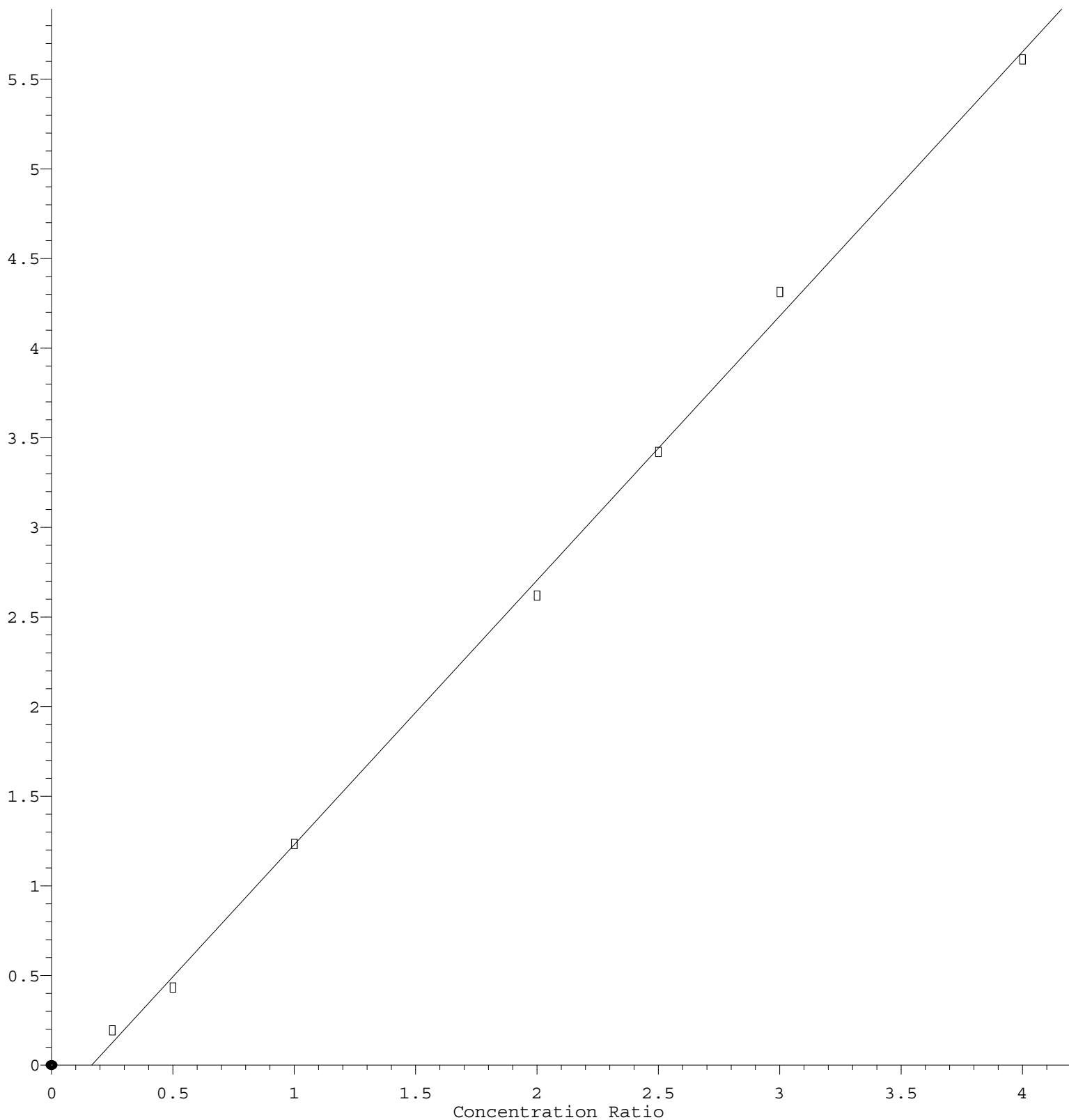
Coef of Det (r^2) = 0.997867 Curve Fit: Linear

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Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.475\text{e}+000 * \text{Amt} - 2.450\text{e}-001$$

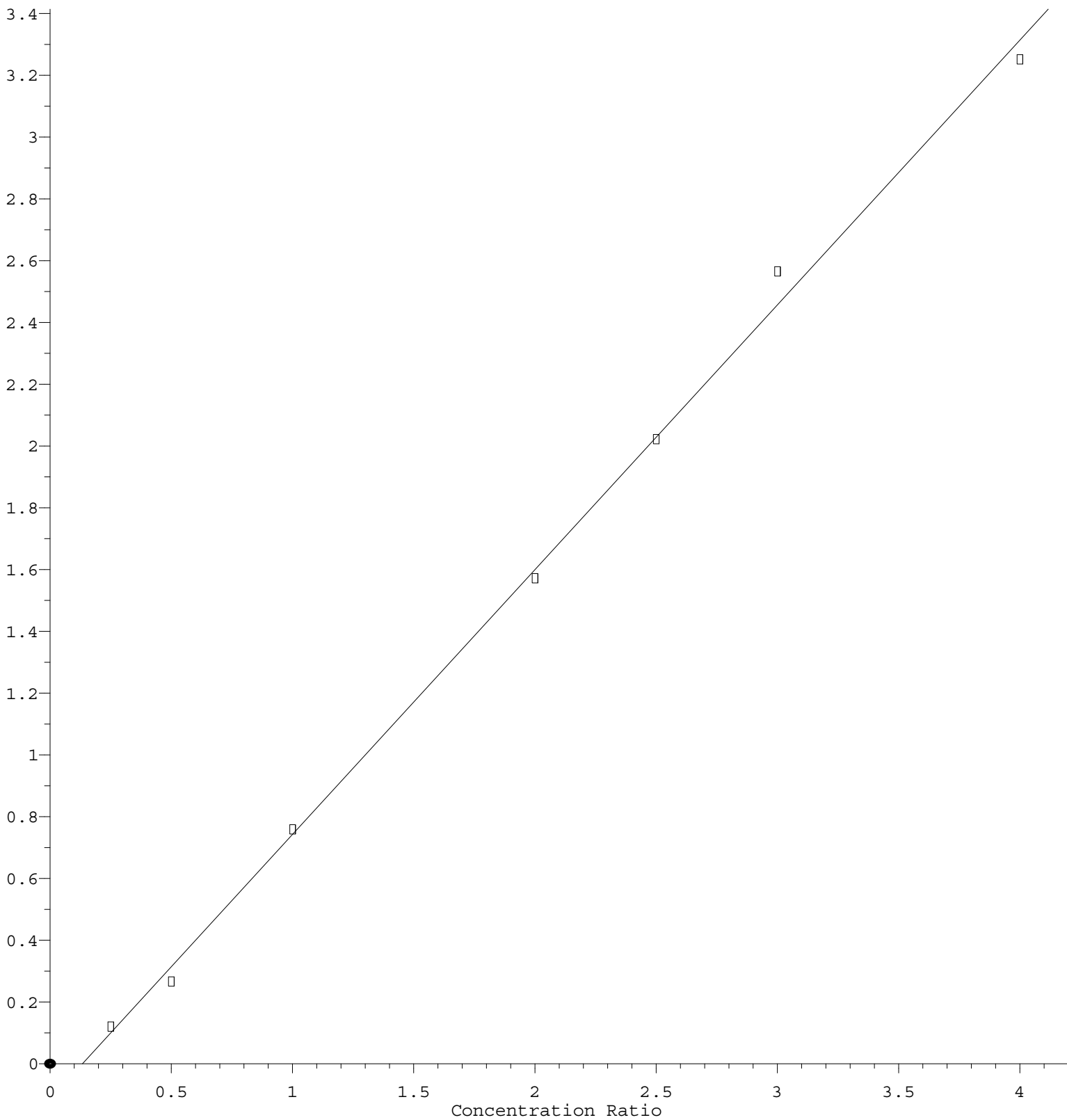
Coef of Det (r^2) = 0.998555 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 8.571\text{e-}001 * \text{Amt} - 1.145\text{e-}001$$

Coef of Det (r^2) = 0.997709 Curve Fit: Linear

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