

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
 Method File : 8270E-BP121322.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Dec 13 03:29:24 2022
 Response Via : Initial Calibration

Calibration Files

2.5 =BP013085.D 5 =BP013086.D 10 =BP013087.D 20 =BP013088.D 40 =BP013089.D 50 =BP013090.D 60 =BP013091.D 80 =BP013092.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.542	0.518	0.482	0.480	0.440	0.476	0.456	0.485	7.20	
3)	Pyridine	1.343	1.412	1.402	1.377	1.352	1.396	1.360	1.377	1.94	
4)	n-Nitrosodimet...	0.613	0.622	0.636	0.621	0.601	0.626	0.602	0.617	2.05	
5) S	2-Fluorophenol	1.080	1.117	1.128	1.114	1.057	1.110	1.057	1.095	2.69	
6)	Aniline	1.608	1.667	1.841	1.784	1.797	1.739	1.682	1.731	4.77	
7) S	Phenol-d6	1.327	1.395	1.533	1.474	1.462	1.437	1.379	1.429	4.77	
8)	2-Chlorophenol	1.245	1.278	1.365	1.313	1.291	1.292	1.250	1.290	3.16	
9)	Benzaldehyde	1.005	0.962	0.963	0.824	0.800	0.764	0.686	0.858	13.98	
10) C	Phenol	1.502	1.571	1.694	1.648	1.632	1.603	1.551	1.600	4.04	
11)	bis(2-Chloroet...	1.261	1.276	1.387	1.314	1.289	1.268	1.222	1.288	4.01	
12)	1,3-Dichlorobe...	1.549	1.554	1.554	1.508	1.438	1.486	1.420	1.501	3.72	
13) C	1,4-Dichlorobe...	1.572	1.579	1.588	1.532	1.475	1.510	1.448	1.529	3.56	
14)	1,2-Dichlorobe...	1.490	1.499	1.532	1.456	1.404	1.420	1.358	1.451	4.19	
15)	Benzyl Alcohol	0.879	0.936	1.147	1.097	1.130	1.048	1.021	1.037	9.66	
16)	2,2'-oxybis(1-...	1.888	1.849	2.041	1.911	1.863	1.789	1.719	1.866	5.40	
17)	2-Methylphenol	0.942	1.010	1.160	1.102	1.113	1.057	1.020	1.058	6.97	
18)	Hexachloroethane	0.508	0.514	0.538	0.526	0.510	0.524	0.505	0.518	2.29	
19) P	n-Nitroso-di-n...	0.903	0.847	0.855	1.085	0.982	1.012	0.894	0.850	0.928	9.50
20)	3+4-Methylphenols	1.262	1.325	1.595	1.505	1.547	1.429	1.402	1.438	8.33	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.461	0.493	0.525	0.512	0.490	0.508	0.496	0.498	4.11	
23) S	Nitrobenzene-d5	0.328	0.349	0.380	0.379	0.362	0.383	0.372	0.365	5.50	
24)	Nitrobenzene	0.351	0.369	0.394	0.389	0.375	0.395	0.389	0.380	4.22	
25)	Isophorone	0.519	0.558	0.672	0.652	0.668	0.642	0.626	0.620	9.45	
26) C	2-Nitrophenol	0.125	0.142	0.177	0.188	0.189	0.197	0.200	0.174	16.64	
27)	2,4-Dimethylph...	0.229	0.246	0.272	0.271	0.269	0.275	0.273	0.262	6.71	
28)	bis(2-Chloroet...	0.369	0.376	0.423	0.411	0.402	0.404	0.396	0.397	4.84	
29) C	2,4-Dichloroph...	0.275	0.296	0.340	0.339	0.336	0.340	0.339	0.324	8.29	
30)	1,2,4-Trichlor...	0.374	0.381	0.384	0.384	0.368	0.394	0.388	0.382	2.26	
31)	Naphthalene	1.089	1.091	1.127	1.110	1.061	1.108	1.079	1.095	1.99	
32)	Benzoic acid		0.132	0.199	0.211	0.240	0.226	0.234	0.207	19.22	
33)	4-Chloroaniline	0.349	0.376	0.439	0.427	0.435	0.423	0.410	0.408	8.26	
34) C	Hexachlorobuta...	0.242	0.236	0.243	0.245	0.232	0.255	0.251	0.244	3.23	
35)	Caprolactam		0.068	0.088	0.083	0.099	0.085	0.079	0.084	12.18	
36) C	4-Chloro-3-met...	0.247	0.277	0.336	0.316	0.335	0.307	0.297	0.302	10.62	
37)	2-Methylnaphth...	0.688	0.715	0.790	0.756	0.754	0.738	0.714	0.736	4.60	
38)	1-Methylnaphth...	0.667	0.703	0.771	0.734	0.738	0.718	0.689	0.717	4.79	

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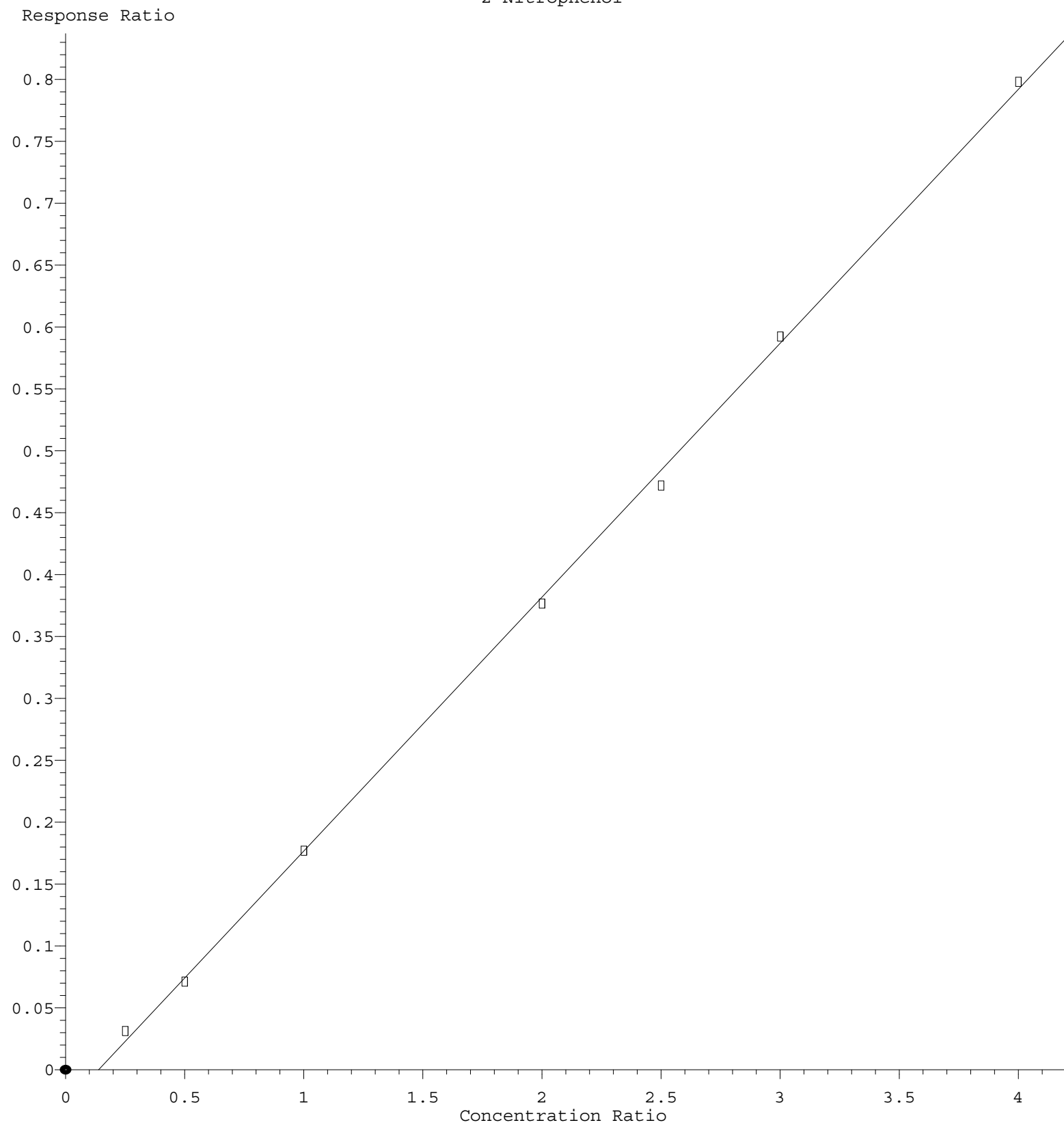
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.696	0.690	0.700	0.749	0.657	0.743	0.760	0.713	5.29	
41) P	Hexachlorocycl...	0.284	0.324	0.389	0.341	0.400	0.421	0.360	14.48		
42) S	2,4,6-Tribromo...	0.195	0.228	0.253	0.249	0.260	0.258	0.245	0.241	9.53	
43) C	2,4,6-Trichlor...	0.373	0.410	0.459	0.491	0.453	0.481	0.484	0.450	9.71	
44)	2,4,5-Trichlor...	0.414	0.446	0.500	0.522	0.493	0.514	0.514	0.486	8.37	
45) S	2-Fluorobiphenyl	1.520	1.503	1.524	1.548	1.328	1.474	1.415	1.473	5.25	
46)	1,1'-Biphenyl	1.554	1.564	1.598	1.662	1.478	1.613	1.600	1.581	3.64	
47)	2-Chloronaphth...	1.222	1.231	1.270	1.314	1.178	1.294	1.290	1.257	3.86	
48)	2-Nitroaniline	0.222	0.261	0.328	0.341	0.338	0.347	0.340	0.311	15.78	
49)	Acenaphthylene	1.644	1.783	1.907	1.965	1.824	1.931	1.888	1.849	5.92	
50)	Dimethylphthalate	1.382	1.478	1.535	1.494	1.470	1.470	1.411	1.463	3.51	
51)	2,6-Dinitrotol...	0.222	0.274	0.317	0.320	0.325	0.323	0.314	0.299	12.81	
52) C	Acenaphthene	1.113	1.141	1.182	1.196	1.108	1.170	1.136	1.149	2.96	
53)	3-Nitroaniline	0.212	0.270	0.326	0.326	0.338	0.338	0.327	0.305	15.51	
54) P	2,4-Dinitrophenol	0.123	0.169	0.181	0.205	0.198	0.194	0.178	16.91		
55)	Dibenzofuran	1.829	1.875	1.906	1.878	1.772	1.841	1.776	1.839	2.79	
56) P	4-Nitrophenol	0.210	0.250	0.251	0.267	0.270	0.253	0.250	8.52		
57)	2,4-Dinitrotol...	0.253	0.329	0.397	0.397	0.426	0.418	0.400	0.374	16.62	
58)	Fluorene	1.408	1.469	1.513	1.451	1.373	1.423	1.330	1.424	4.29	
59)	2,3,4,6-Tetrac...	0.360	0.404	0.434	0.433	0.434	0.433	0.411	0.416	6.66	
60)	Diethylphthalate	1.237	1.373	1.420	1.346	1.387	1.370	1.282	1.345	4.75	
61)	4-Chlorophenyl...	0.727	0.750	0.777	0.753	0.722	0.735	0.693	0.737	3.63	
62)	4-Nitroaniline	0.176	0.247	0.298	0.302	0.328	0.334	0.309	0.285	19.56	
63)	Azobenzene	1.074	1.240	1.347	1.300	1.279	1.295	1.214	1.250	7.09	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.092	0.125	0.132	0.136	0.143	0.142	0.128	14.84		
66) c	n-Nitrosodiphe...	0.553	0.586	0.660	0.663	0.619	0.641	0.650	0.624	6.66	
67)	4-Bromophenyl-...	0.204	0.215	0.245	0.249	0.240	0.248	0.253	0.236	8.07	
68)	Hexachlorobenzene	0.260	0.264	0.284	0.285	0.274	0.283	0.288	0.277	4.05	
69)	Atrazine	0.156	0.173	0.187	0.186	0.180	0.180	0.165	0.175	6.45	
70) C	Pentachlorophenol	0.132	0.162	0.169	0.168	0.175	0.173	0.163	9.62		
71)	Phenanthrene	1.126	1.139	1.172	1.156	1.087	1.152	1.134	1.138	2.41	
72)	Anthracene	0.973	1.028	1.114	1.104	1.048	1.118	1.093	1.068	5.06	
73)	Carbazole	0.828	0.935	0.950	0.956	0.911	1.011	0.965	0.937	6.06	
74)	Di-n-butylphth...	0.844	0.959	1.011	1.082	1.059	1.161	1.096	1.030	10.11	
75) C	Fluoranthene	1.183	1.281	1.178	1.231	1.123	1.331	1.248	1.225	5.69	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzydine	0.296	0.271	0.253	0.317	0.266	0.274	0.312	0.284	8.55	
78)	Pyrene	1.244	1.277	1.648	1.518	1.643	1.374	1.356	1.437	11.60	
79) S	Terphenyl-d14	0.964	0.979	1.195	1.090	1.083	0.933	0.852	1.014	11.36	
80)	Butylbenzylpht...	0.331	0.374	0.464	0.528	0.530	0.521	0.515	0.466	17.55	
81)	Benzo(a)anthra...	1.247	1.306	1.408	1.471	1.360	1.398	1.377	1.367	5.32	
82)	3,3'-Dichlorob...	0.312	0.372	0.400	0.467	0.404	0.450	0.443	0.407	13.15	
83)	Chrysene	1.285	1.304	1.349	1.426	1.291	1.347	1.331	1.333	3.63	
84)	Bis(2-ethylhex...	0.447	0.520	0.593	0.743	0.679	0.732	0.723	0.634	18.33	
85) c	Di-n-octyl pht...	0.750	0.880	0.929	1.263	1.067	1.272	1.289	1.064	20.45	

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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.464	1.549	1.641	1.692	1.625	1.724	1.745	1.634	6.11	
88)	Benzo(b)fluora...	1.181	1.263	1.341	1.297	1.288	1.349	1.294	1.288	4.34	
89)	Benzo(k)fluora...	1.220	1.235	1.356	1.350	1.329	1.316	1.312	1.303	4.14	
90) C	Benzo(a)pyrene	0.963	1.020	1.098	1.114	1.093	1.139	1.137	1.081	6.07	
91)	Dibenzo(a,h)an...	1.228	1.293	1.366	1.406	1.342	1.431	1.440	1.358	5.68	
92)	Benzo(g,h,i)pe...	1.203	1.259	1.343	1.387	1.342	1.428	1.458	1.346	6.72	

(#) = Out of Range

2-Nitrophenol



$$\text{Response} = 2.052\text{e-}001 * \text{Amt} - 2.862\text{e-}002$$

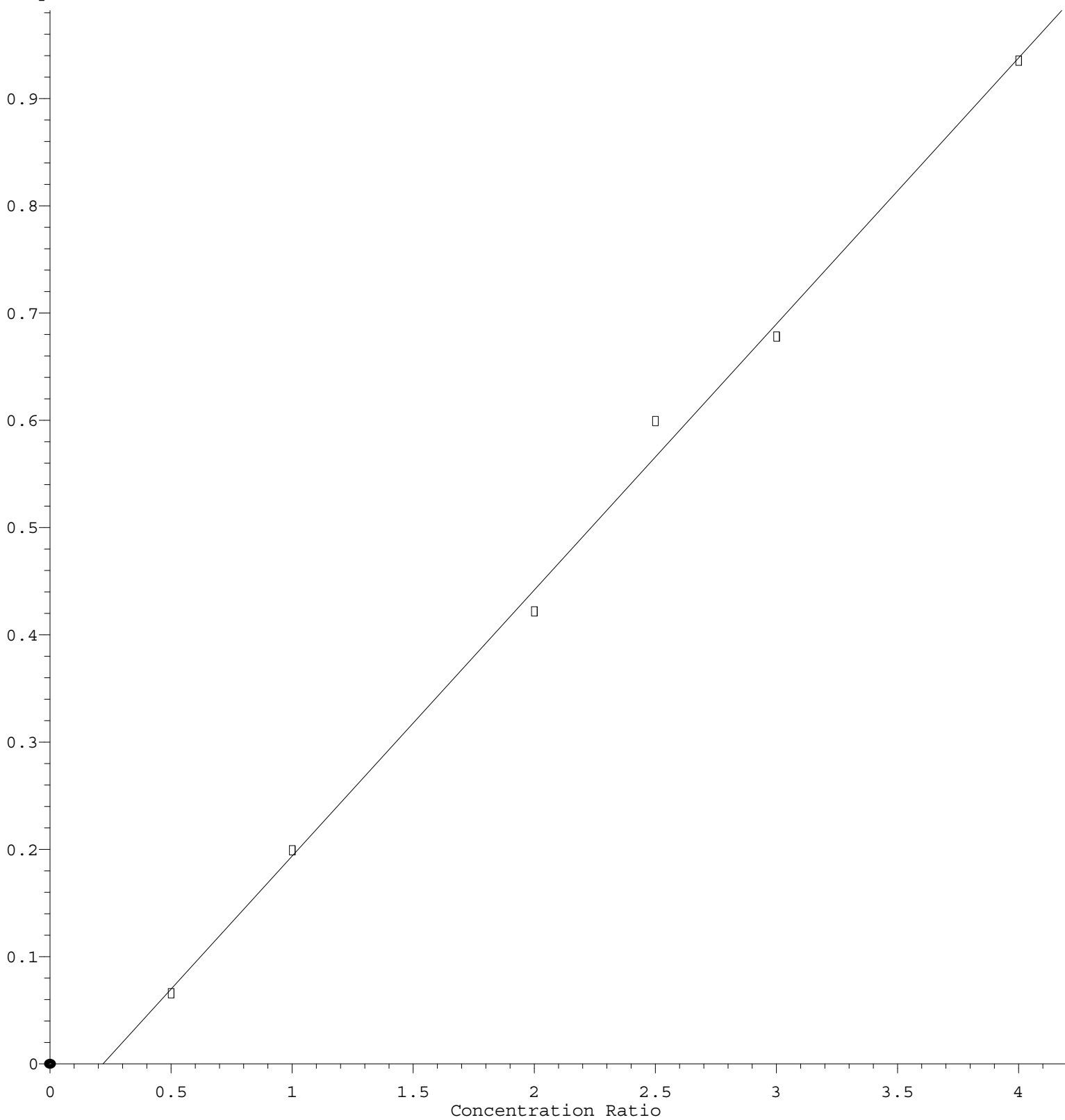
Coef of Det (r^2) = 0.999325 Curve Fit: Linear

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Benzoic acid

Response Ratio



$$\text{Response} = 2.481\text{e-}001 * \text{Amt} - 5.426\text{e-}002$$

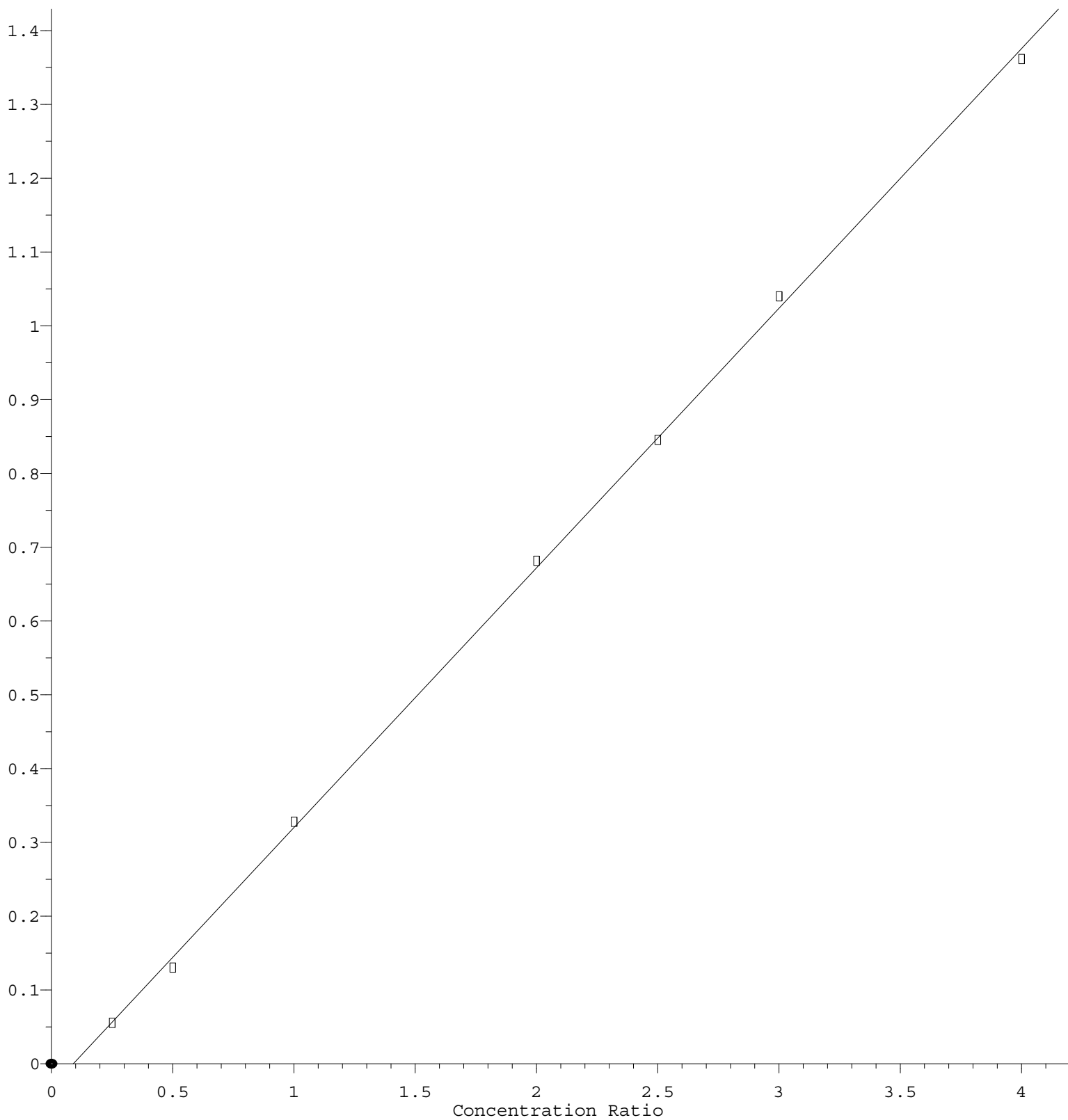
Coef of Det (r^2) = 0.996676 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP121322.M

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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.519\text{e-}001 * \text{Amt} - 3.155\text{e-}002$$

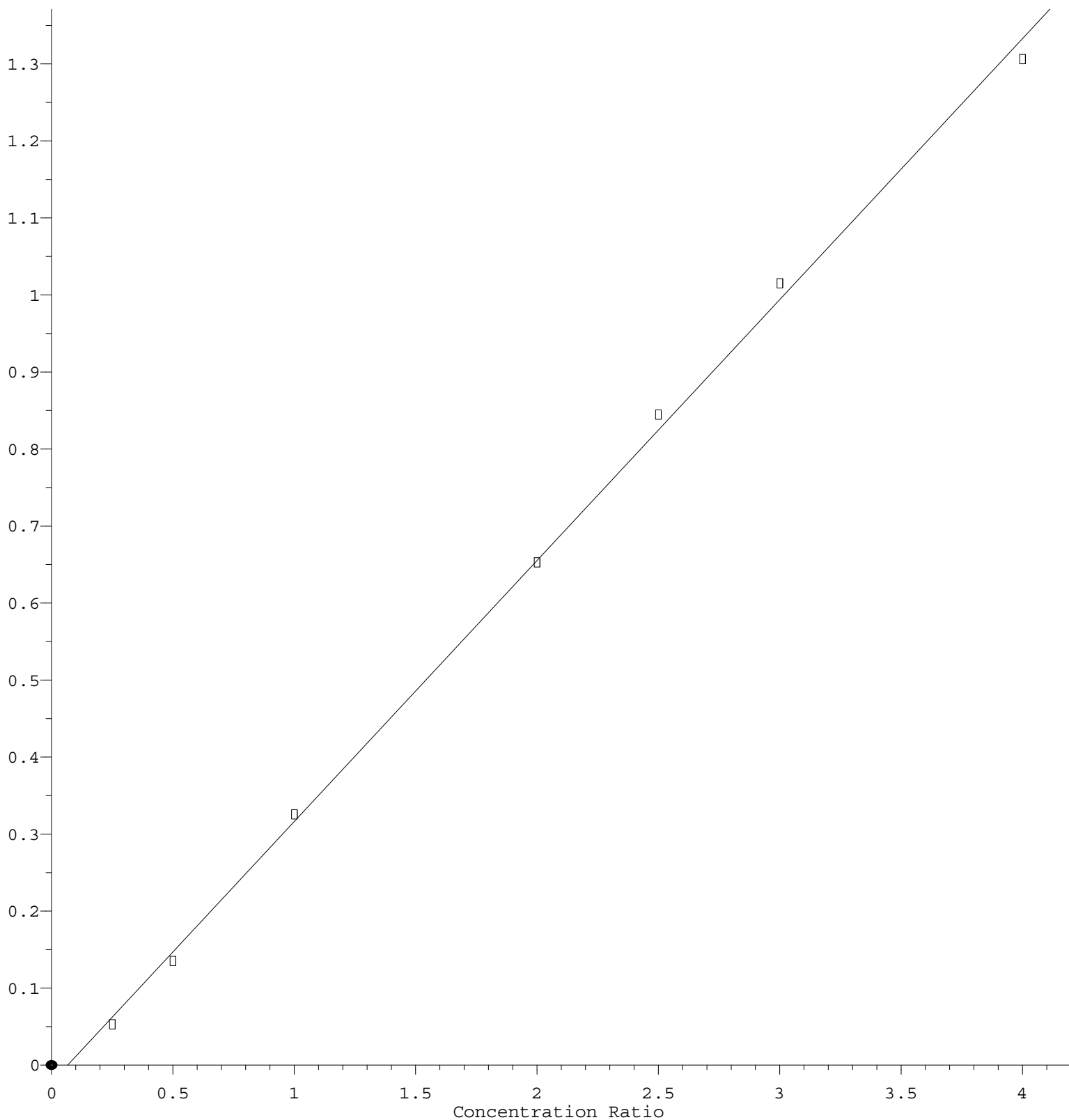
Coef of Det (r^2) = 0.999430 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP121322.M

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3-Nitroaniline

Response Ratio



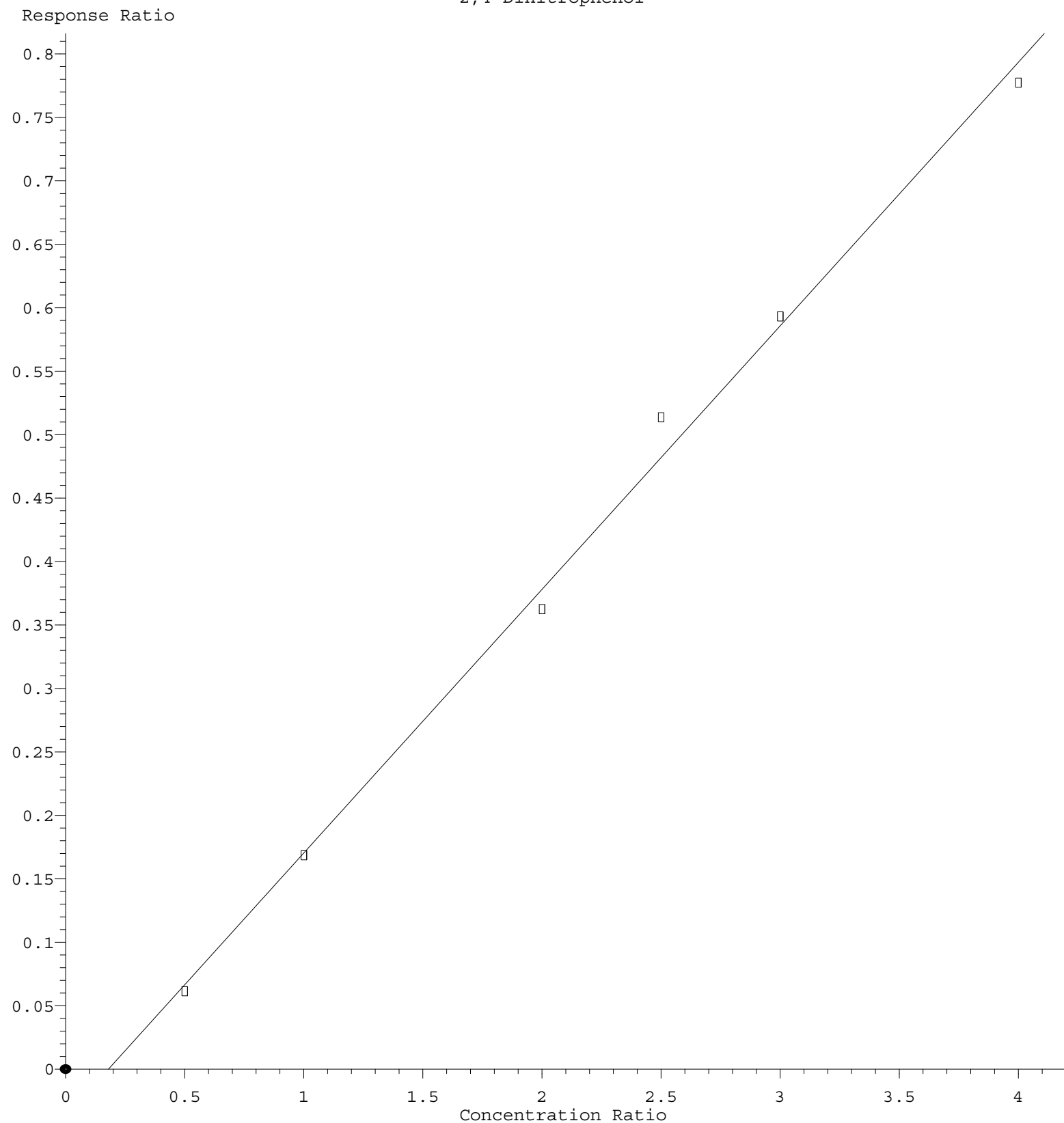
$$\text{Response} = 3.390\text{e-}001 * \text{Amt} - 2.287\text{e-}002$$

Coef of Det (r^2) = 0.998588 Curve Fit: Linear

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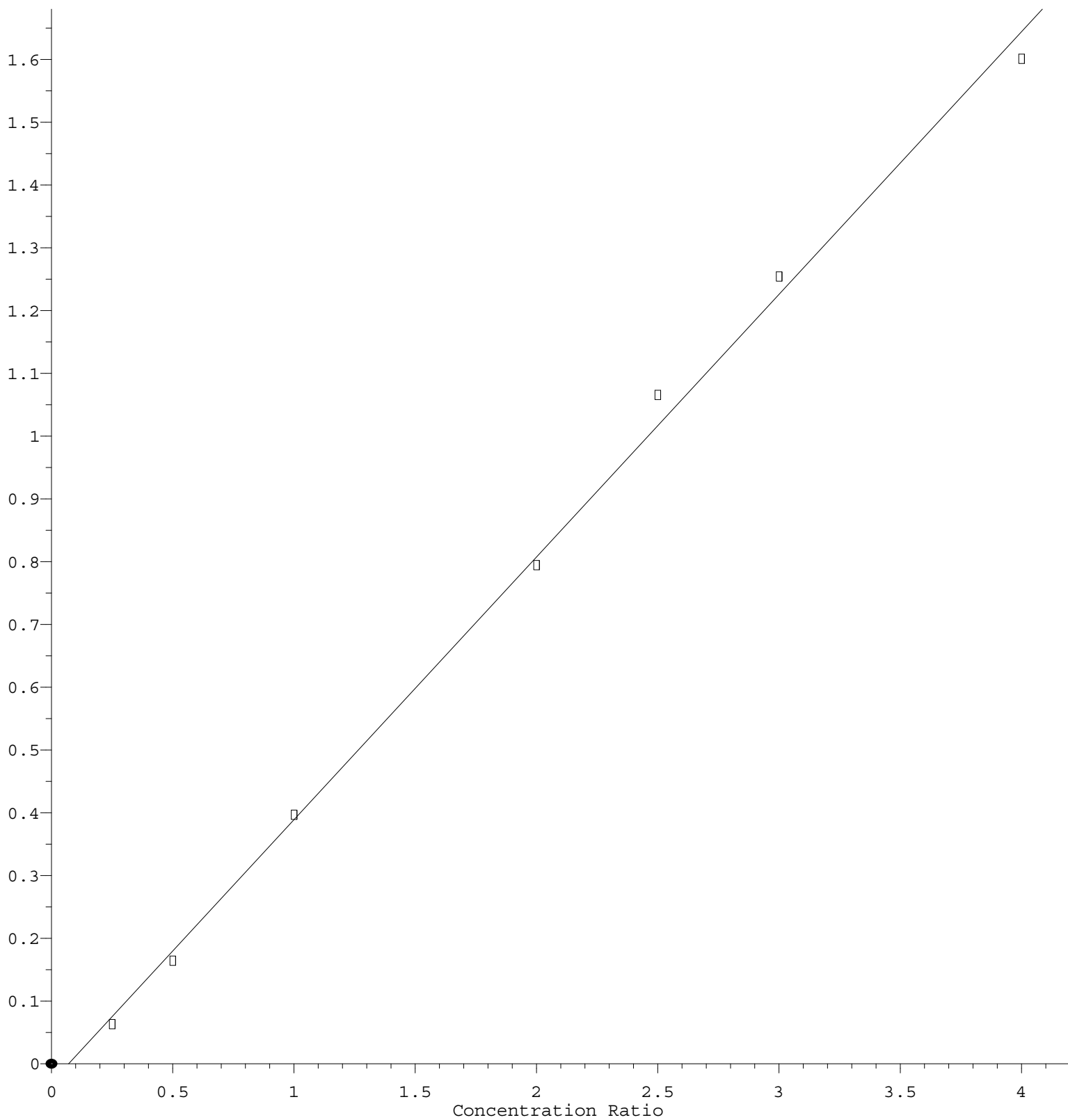
2,4-Dinitrophenol



Response = 2.077e-001 * Amt - 3.737e-002
 Coef of Det (r^2) = 0.995601 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP121322.M
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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.186\text{e-}001 * \text{Amt} - 2.976\text{e-}002$$

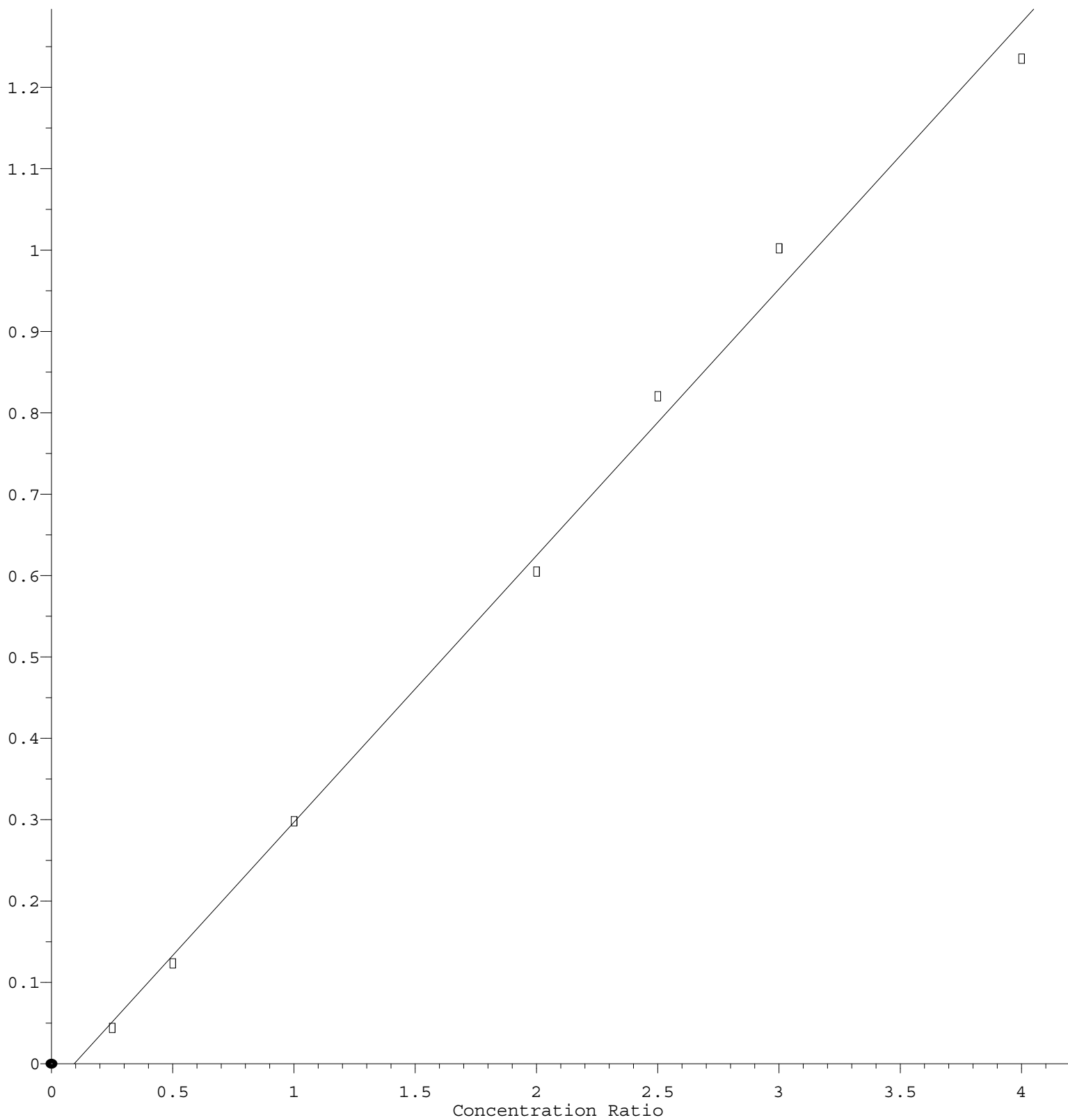
Coef of Det (r^2) = 0.997188 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.279\text{e-}001 * \text{Amt} - 3.092\text{e-}002$$

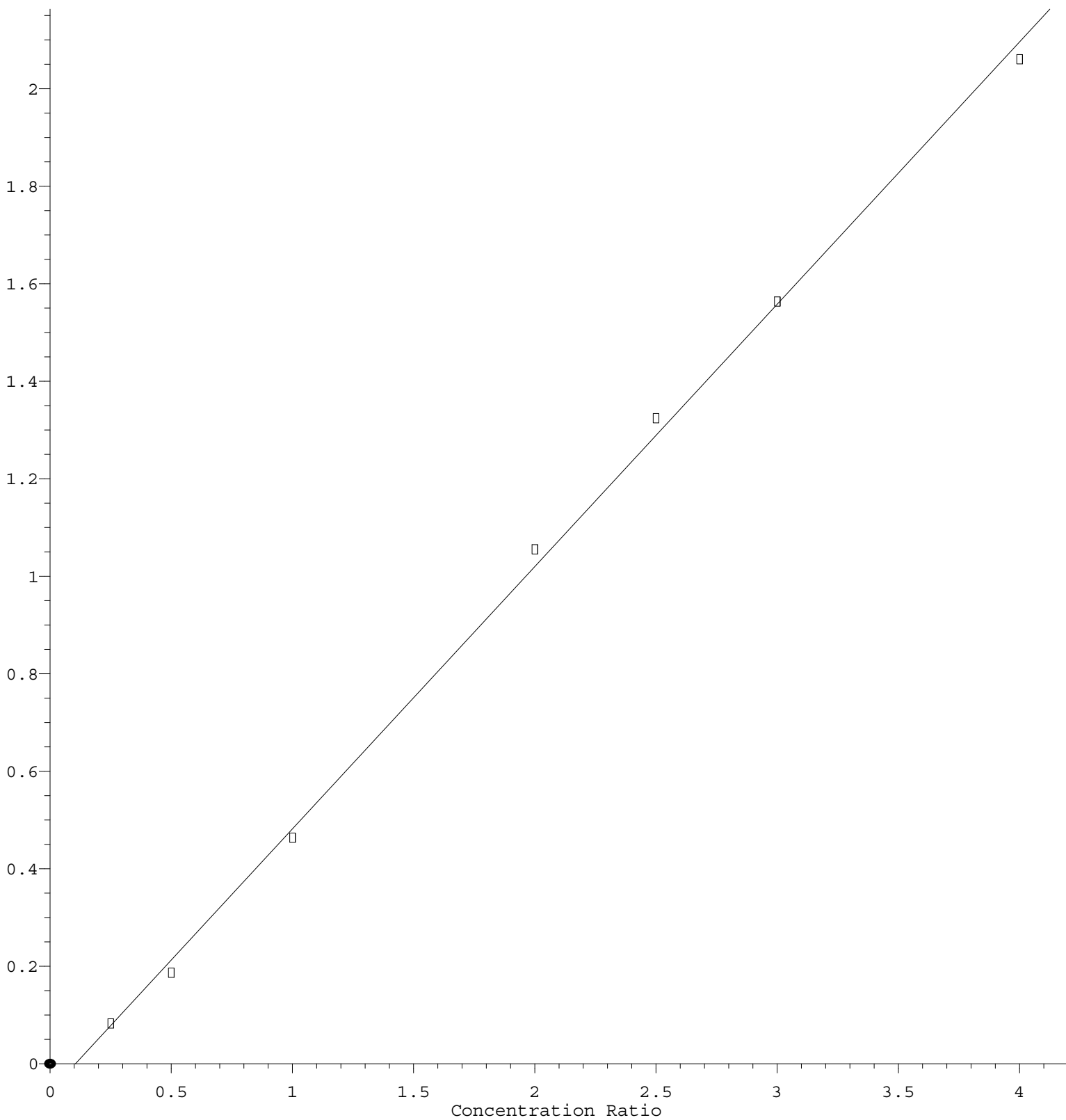
Coef of Det (r^2) = 0.995127 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.381\text{e-}001 * \text{Amt} - 5.632\text{e-}002$$

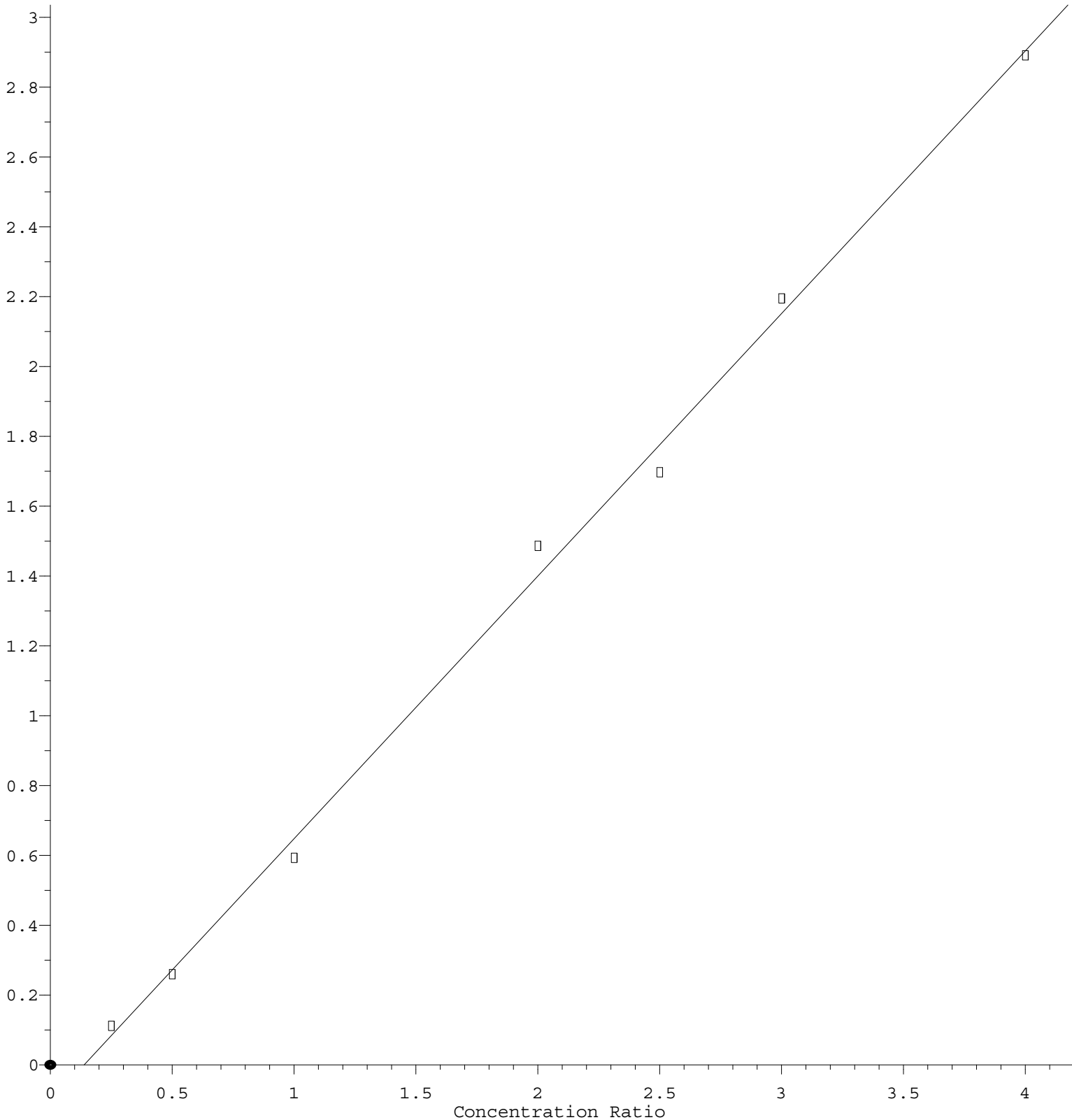
Coef of Det (r^2) = 0.998558 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 7.521\text{e-}001 * \text{Amt} - 1.046\text{e-}001$$

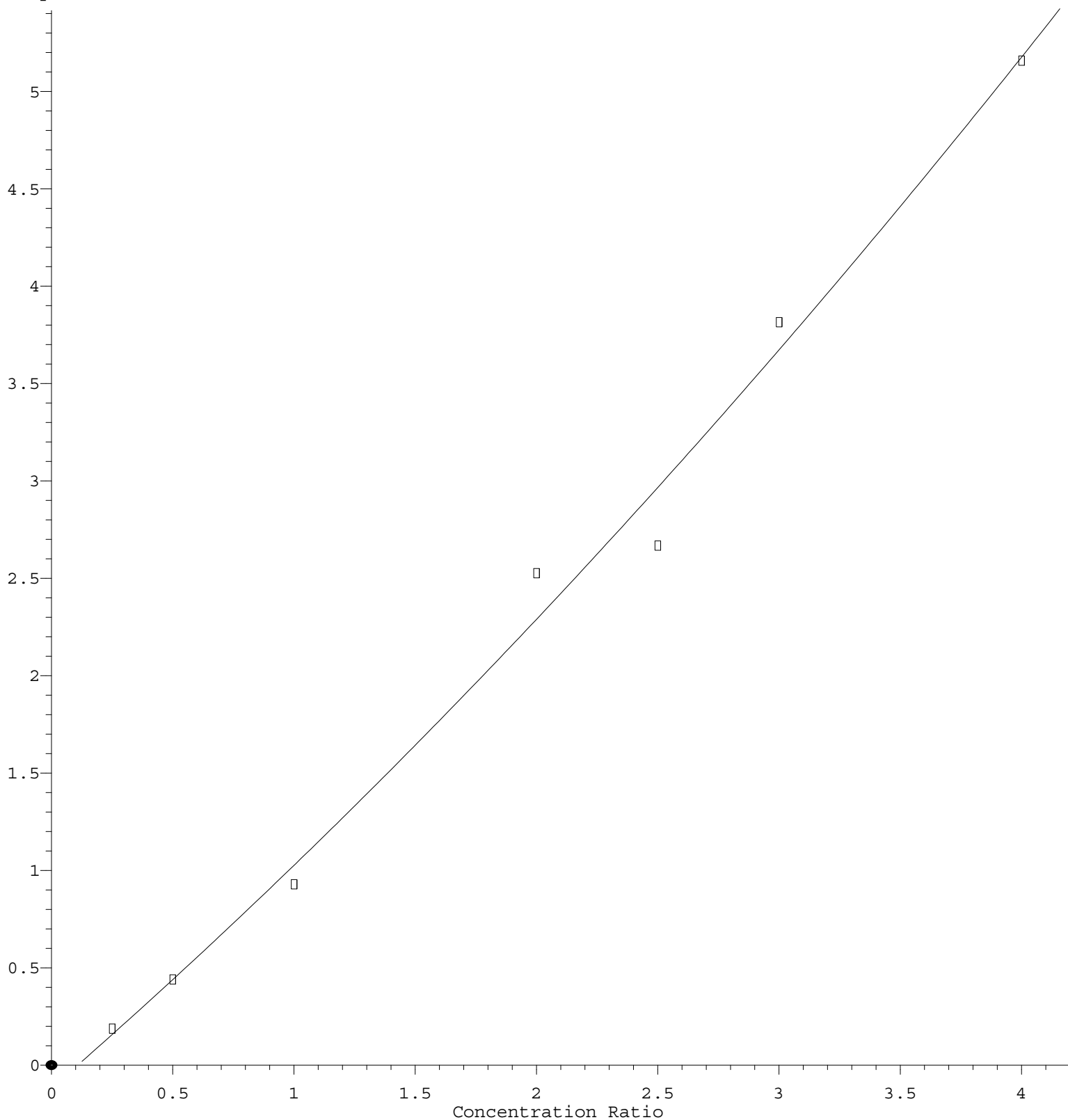
Coef of Det (r^2) = 0.996982 Curve Fit: Linear

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Di-n-octyl phthalate

Response Ratio



$R = 5.984e-002 A^2 + 1.084e+000 A - 1.182e-001$
 Coef of Det (r^2) = 0.991398 Curve Fit: Quadratic
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