

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG030724.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Mar 08 03:35:45 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BG060584.D 5 =BG060585.D 10 =BG060586.D 20 =BG060587.D 40 =BG060588.D 50 =BG060589.D 60 =BG060590.D 80 =BG060591.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.540	0.531	0.562	0.530	0.511	0.520	0.493	0.527	4.21	
3)	Pyridine	1.553	1.598	1.720	1.667	1.600	1.622	1.568	1.618	3.59	
4)	n-Nitrosodimet...	0.730	0.815	0.894	0.845	0.805	0.847	0.801	0.820	6.22	
5) S	2-Fluorophenol	1.258	1.203	1.158	1.202	1.194	1.234	1.199	1.207	2.61	
6)	Aniline	2.309	2.161	2.311	2.331	2.238	2.321	2.122	2.256	3.76	
7) S	Phenol-d6	1.778	1.766	1.915	1.883	1.806	1.881	1.725	1.822	3.92	
8)	2-Chlorophenol	1.300	1.302	1.446	1.436	1.341	1.419	1.314	1.365	4.80	
9)	Benzaldehyde	1.108	1.055	1.127	1.088	0.995	0.984	0.867	1.032	8.79	
10) C	Phenol	1.704	1.728	1.905	1.889	1.795	1.856	1.691	1.795	4.99	
11)	bis(2-Chloroet...	1.420	1.477	1.503	1.486	1.409	1.477	1.376	1.450	3.29	
12)	1,3-Dichlorobe...	1.598	1.442	1.589	1.514	1.474	1.518	1.407	1.506	4.74	
13) C	1,4-Dichlorobe...	1.521	1.565	1.608	1.552	1.476	1.531	1.419	1.524	4.07	
14)	1,2-Dichlorobe...	1.535	1.449	1.565	1.521	1.437	1.496	1.392	1.485	4.12	
15)	Benzyl Alcohol	1.348	1.382	1.505	1.524	1.438	1.530	1.376	1.443	5.32	
16)	2,2'-oxybis(1-...	2.734	2.849	2.999	2.998	2.778	2.971	2.708	2.862	4.43	
17)	2-Methylphenol	1.364	1.361	1.457	1.470	1.370	1.459	1.337	1.403	4.04	
18)	Hexachloroethane	0.523	0.501	0.527	0.529	0.503	0.528	0.490	0.514	3.12	
19) P	n-Nitroso-di-n...	1.267	1.181	1.254	1.326	1.345	1.254	1.343	1.221	1.274	4.67
20)	3+4-Methylphenols	1.735	1.821	1.918	1.984	1.860	1.988	1.827	1.876	4.94	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.552	0.570	0.608	0.585	0.560	0.559	0.528	0.566	4.47	
23) S	Nitrobenzene-d5	0.253	0.305	0.361	0.383	0.376	0.384	0.380	0.349	14.53	
24)	Nitrobenzene	0.277	0.320	0.375	0.393	0.372	0.380	0.381	0.357	11.82	
25)	Isophorone	0.757	0.802	0.835	0.808	0.762	0.755	0.724	0.778	4.93	
26) C	2-Nitrophenol	0.083	0.092	0.115	0.131	0.128	0.142	0.141	0.119	19.45	
27)	2,4-Dimethylph...	0.392	0.335	0.362	0.345	0.327	0.320	0.314	0.342	7.90	
28)	bis(2-Chloroet...	0.452	0.456	0.480	0.468	0.436	0.447	0.418	0.451	4.51	
29) C	2,4-Dichloroph...	0.279	0.288	0.311	0.315	0.297	0.298	0.313	0.300	4.52	
30)	1,2,4-Trichlor...	0.315	0.316	0.335	0.324	0.320	0.326	0.314	0.321	2.35	
31)	Naphthalene	1.131	1.094	1.166	1.169	1.122	1.115	1.069	1.124	3.22	
32)	Benzoic acid		0.112	0.152	0.185	0.194	0.202	0.204	0.175	20.68	
33)	4-Chloroaniline	0.478	0.484	0.504	0.505	0.491	0.487	0.463	0.487	2.99	
34) C	Hexachlorobuta...	0.219	0.219	0.230	0.233	0.223	0.224	0.217	0.224	2.61	
35)	Caprolactam	0.105	0.116	0.117	0.110	0.114	0.106	0.105	0.110	4.82	
36) C	4-Chloro-3-met...	0.346	0.386	0.416	0.405	0.389	0.389	0.368	0.386	6.03	
37)	2-Methylnaphth...	0.755	0.820	0.859	0.814	0.773	0.766	0.742	0.790	5.33	
38)	1-Methylnaphth...	0.743	0.787	0.810	0.768	0.731	0.721	0.694	0.751	5.35	

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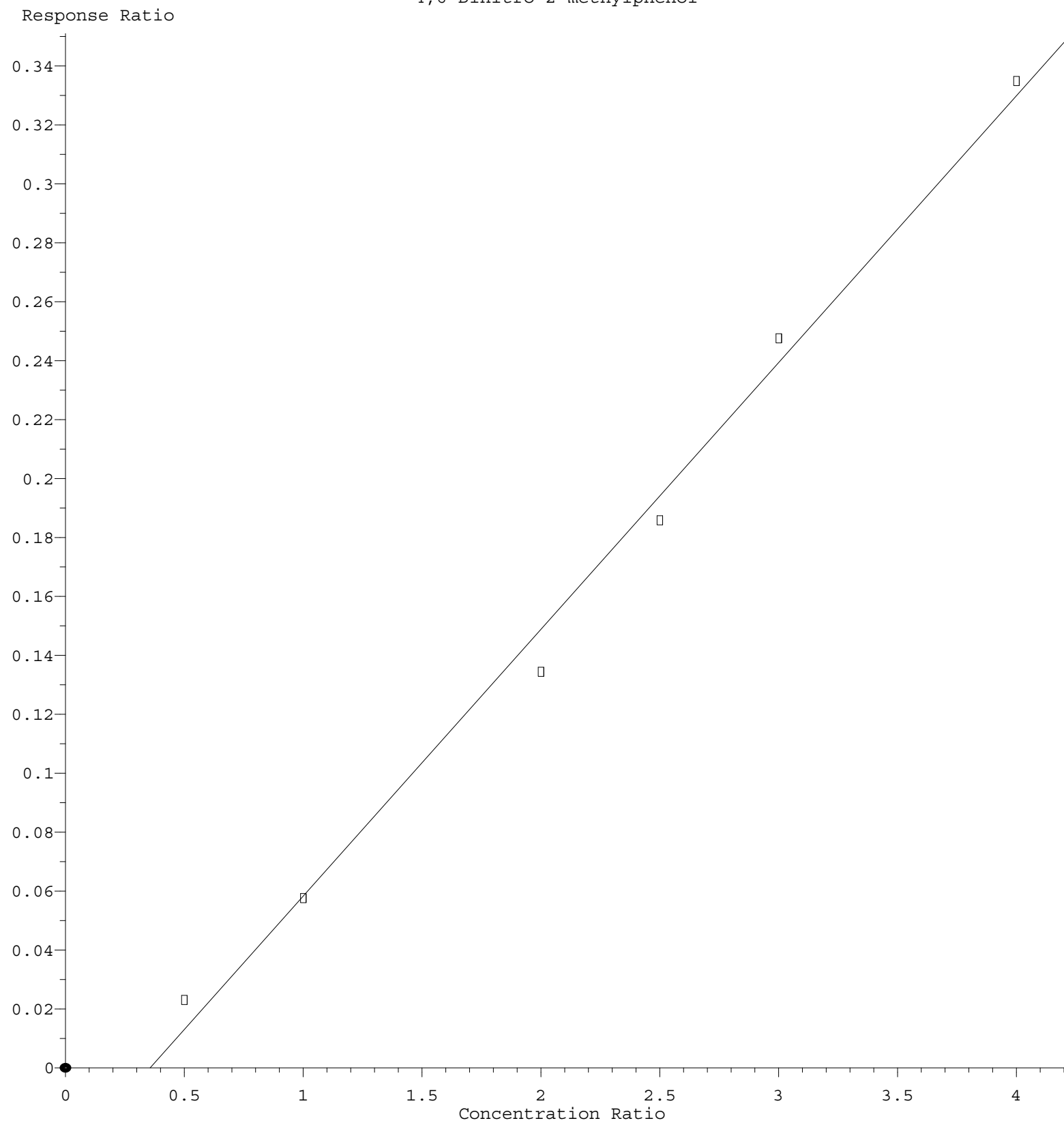
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.570	0.576	0.608	0.601	0.594	0.612	0.597	0.594	2.63	
41) P	Hexachlorocycl...	0.221	0.237	0.268	0.292	0.288	0.325	0.322	0.279	14.20	
42) S	2,4,6-Tribromo...	0.207	0.238	0.252	0.250	0.258	0.256	0.245	0.243	7.19	
43) C	2,4,6-Trichlor...	0.336	0.361	0.391	0.393	0.391	0.410	0.400	0.383	6.70	
44)	2,4,5-Trichlor...	0.397	0.437	0.466	0.465	0.472	0.477	0.462	0.454	6.20	
45) S	2-Fluorobiphenyl	1.529	1.509	1.528	1.451	1.437	1.443	1.353	1.464	4.31	
46)	1,1'-Biphenyl	1.487	1.492	1.537	1.486	1.488	1.498	1.431	1.489	2.09	
47)	2-Chloronaphth...	1.120	1.088	1.140	1.135	1.127	1.135	1.086	1.119	2.03	
48)	2-Nitroaniline	0.211	0.242	0.297	0.343	0.379	0.385	0.382	0.320	22.33	
49)	Acenaphthylene	1.840	1.847	1.930	1.876	1.879	1.888	1.797	1.865	2.25	
50)	Dimethylphthalate	1.465	1.506	1.561	1.508	1.532	1.508	1.448	1.504	2.54	
51)	2,6-Dinitrotol...	0.150	0.173	0.219	0.254	0.271	0.280	0.273	0.232	22.57	
52) C	Acenaphthene	1.125	1.125	1.150	1.125	1.121	1.110	1.073	1.118	2.09	
53)	3-Nitroaniline	0.183	0.233	0.273	0.292	0.325	0.318	0.313	0.277	18.86	
54) P	2,4-Dinitrophenol		0.056	0.077	0.098	0.114	0.115	0.121	0.097	26.45	
55)	Dibenzofuran	1.833	1.833	1.899	1.822	1.819	1.789	1.709	1.815	3.16	
56) P	4-Nitrophenol		0.169	0.211	0.224	0.255	0.240	0.242	0.224	13.80	
57)	2,4-Dinitrotol...	0.181	0.210	0.280	0.313	0.338	0.341	0.343	0.287	23.20	
58)	Fluorene	1.490	1.520	1.554	1.468	1.460	1.421	1.369	1.469	4.17	
59)	2,3,4,6-Tetrac...	0.312	0.355	0.398	0.391	0.411	0.405	0.392	0.380	9.25	
60)	Diethylphthalate	1.597	1.591	1.659	1.558	1.603	1.559	1.491	1.580	3.26	
61)	4-Chlorophenyl...	0.746	0.758	0.766	0.730	0.727	0.724	0.698	0.735	3.13	
62)	4-Nitroaniline	0.206	0.244	0.306	0.317	0.347	0.333	0.330	0.298	17.54	
63)	Azobenzene	1.661	1.626	1.672	1.608	1.617	1.591	1.536	1.616	2.81	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.046	0.058	0.067	0.074	0.083	0.084	0.069	21.48	
66) c	n-Nitrosodiphe...	0.599	0.626	0.649	0.629	0.617	0.643	0.602	0.624	3.07	
67)	4-Bromophenyl-...	0.215	0.221	0.228	0.223	0.222	0.232	0.221	0.223	2.44	
68)	Hexachlorobenzene	0.241	0.244	0.253	0.247	0.242	0.251	0.240	0.245	2.03	
69)	Atrazine	0.208	0.209	0.229	0.215	0.221	0.222	0.210	0.216	3.60	
70) C	Pentachlorophenol		0.117	0.150	0.163	0.173	0.176	0.172	0.159	14.03	
71)	Phenanthrene	1.076	1.098	1.132	1.084	1.070	1.067	1.010	1.077	3.42	
72)	Anthracene	1.100	1.090	1.167	1.109	1.102	1.100	1.033	1.100	3.57	
73)	Carbazole	0.935	0.953	1.029	0.963	0.968	0.953	0.906	0.958	3.90	
74)	Di-n-butylphth...	1.159	1.177	1.260	1.209	1.219	1.208	1.138	1.196	3.41	
75) C	Fluoranthene	1.263	1.238	1.335	1.199	1.257	1.201	1.142	1.233	4.95	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.395	0.426	0.471	0.546	0.586	0.570	0.543	0.505	14.73	
78)	Pyrene	1.373	1.432	1.481	1.444	1.369	1.423	1.313	1.405	4.03	
79) S	Terphenyl-d14	1.187	1.214	1.255	1.151	1.083	1.072	0.965	1.132	8.73	
80)	Butylbenzylpht...	0.457	0.492	0.555	0.580	0.550	0.587	0.555	0.539	8.80	
81)	Benzo(a)anthra...	1.346	1.388	1.463	1.404	1.379	1.411	1.336	1.389	3.08	
82)	3,3'-Dichlorob...	0.420	0.444	0.498	0.491	0.487	0.502	0.478	0.474	6.49	
83)	Chrysene	1.339	1.350	1.422	1.360	1.328	1.375	1.293	1.352	2.97	
84)	Bis(2-ethylhex...	0.684	0.738	0.822	0.837	0.805	0.869	0.822	0.797	8.04	
85) c	Di-n-octyl pht...	1.105	1.215	1.355	1.422	1.361	1.462	1.381	1.329	9.41	

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.293	1.308	1.407	1.393	1.383	1.392	1.403	1.369	3.47
88)	Benzo(b)fluora...	1.036	1.084	1.153	1.147	1.110	1.134	1.122	1.112	3.70
89)	Benzo(k)fluora...	1.148	1.119	1.207	1.175	1.153	1.221	1.158	1.169	3.03
90) C	Benzo(a)pyrene	1.044	1.046	1.137	1.128	1.093	1.140	1.095	1.097	3.67
91)	Dibenzo(a,h)an...	1.082	1.076	1.184	1.187	1.163	1.182	1.188	1.152	4.37
92)	Benzo(g,h,i)pe...	1.069	1.070	1.150	1.149	1.127	1.144	1.153	1.123	3.36

(#) = Out of Range

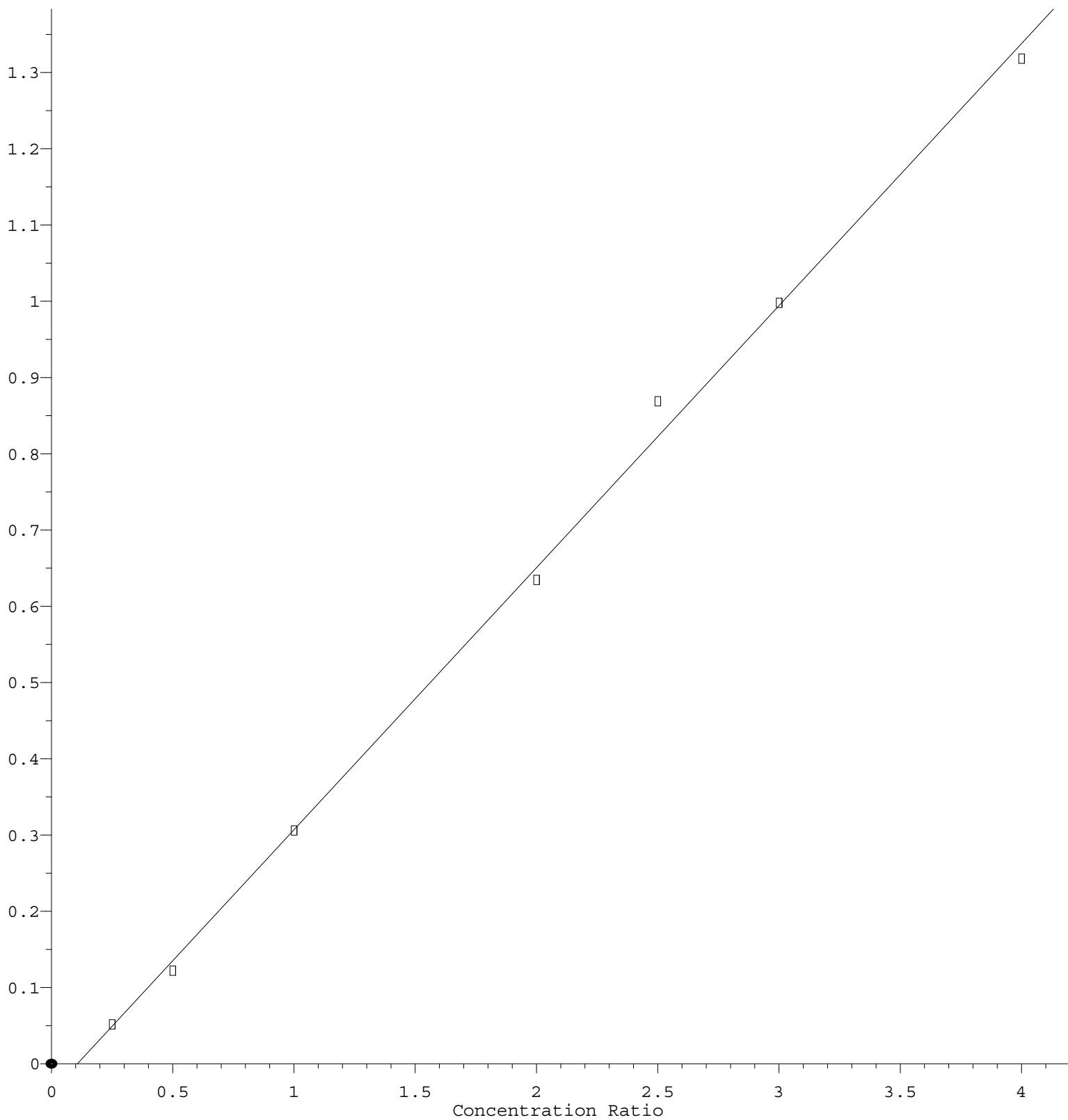
4,6-Dinitro-2-methylphenol



Response = $9.050 \times 10^{-2} \times \text{Amt} - 3.221 \times 10^{-2}$
Coef of Det (r^2) = 0.993163 Curve Fit: Linear
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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.440\text{e-}001 * \text{Amt} - 3.697\text{e-}002$$

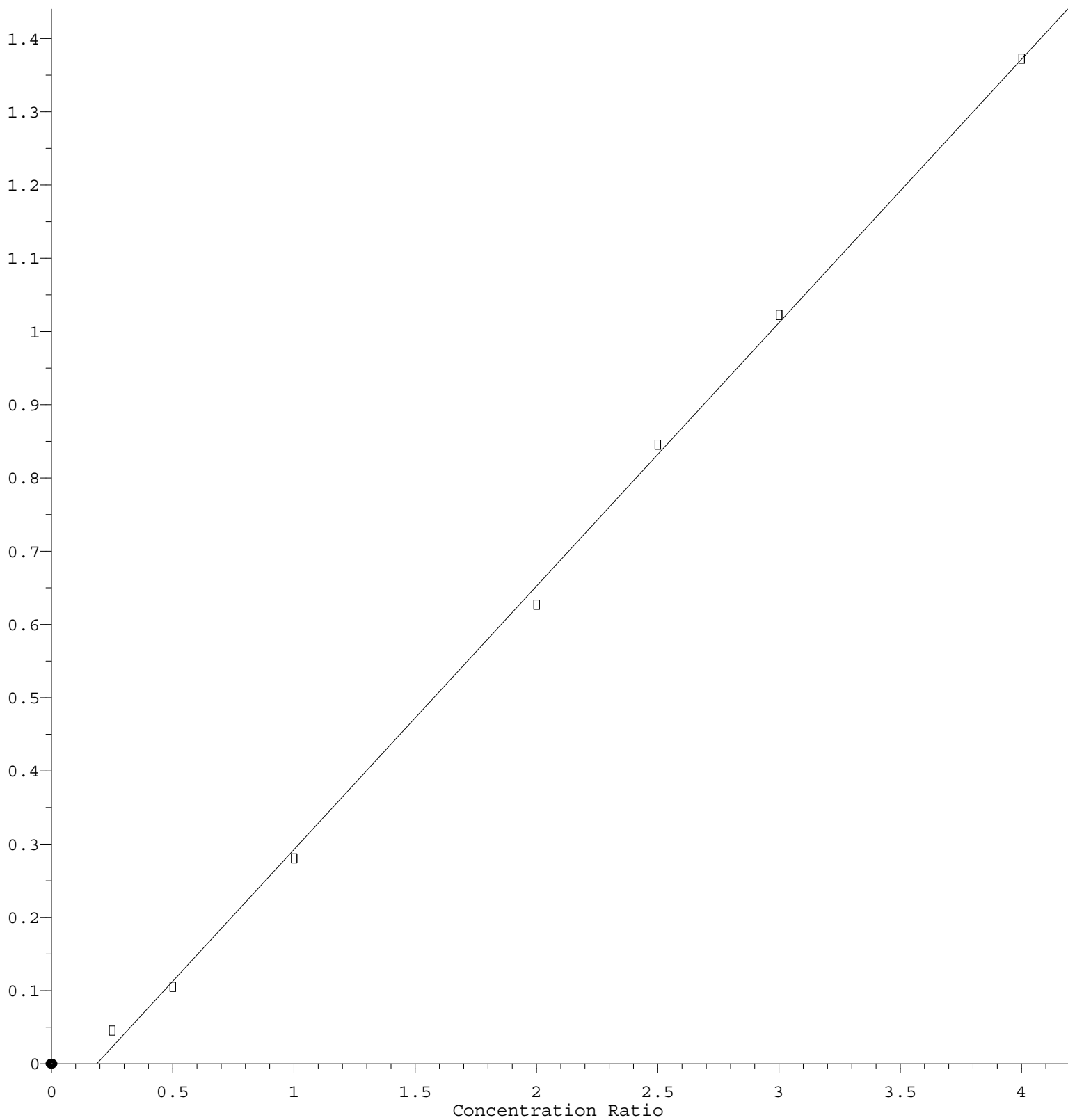
Coef of Det (r^2) = 0.997808 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030724.M

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2,4-Dinitrotoluene

Response Ratio



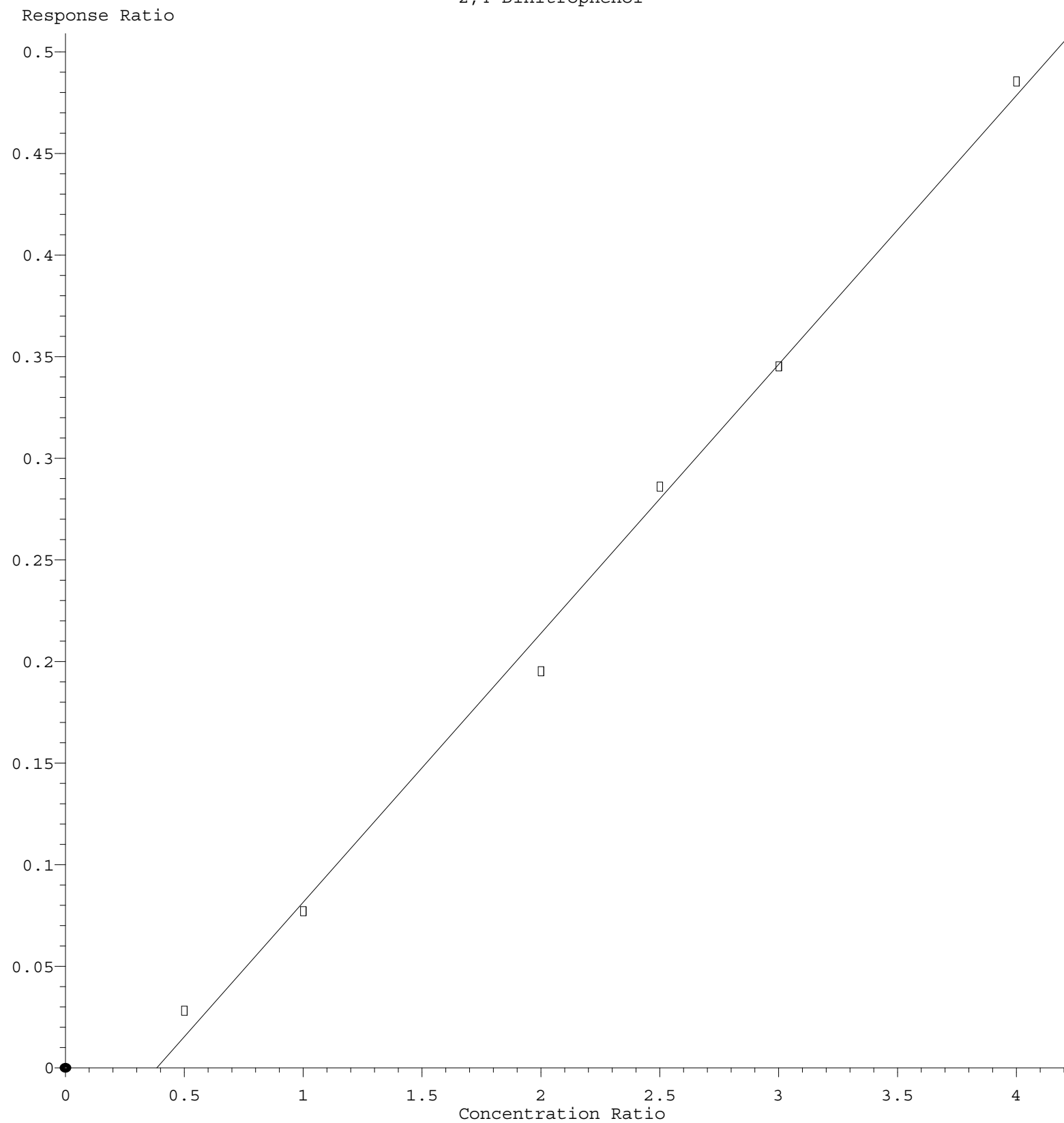
$$\text{Response} = 3.600\text{e-}001 * \text{Amt} - 6.739\text{e-}002$$

Coef of Det (r^2) = 0.998898 Curve Fit: Linear

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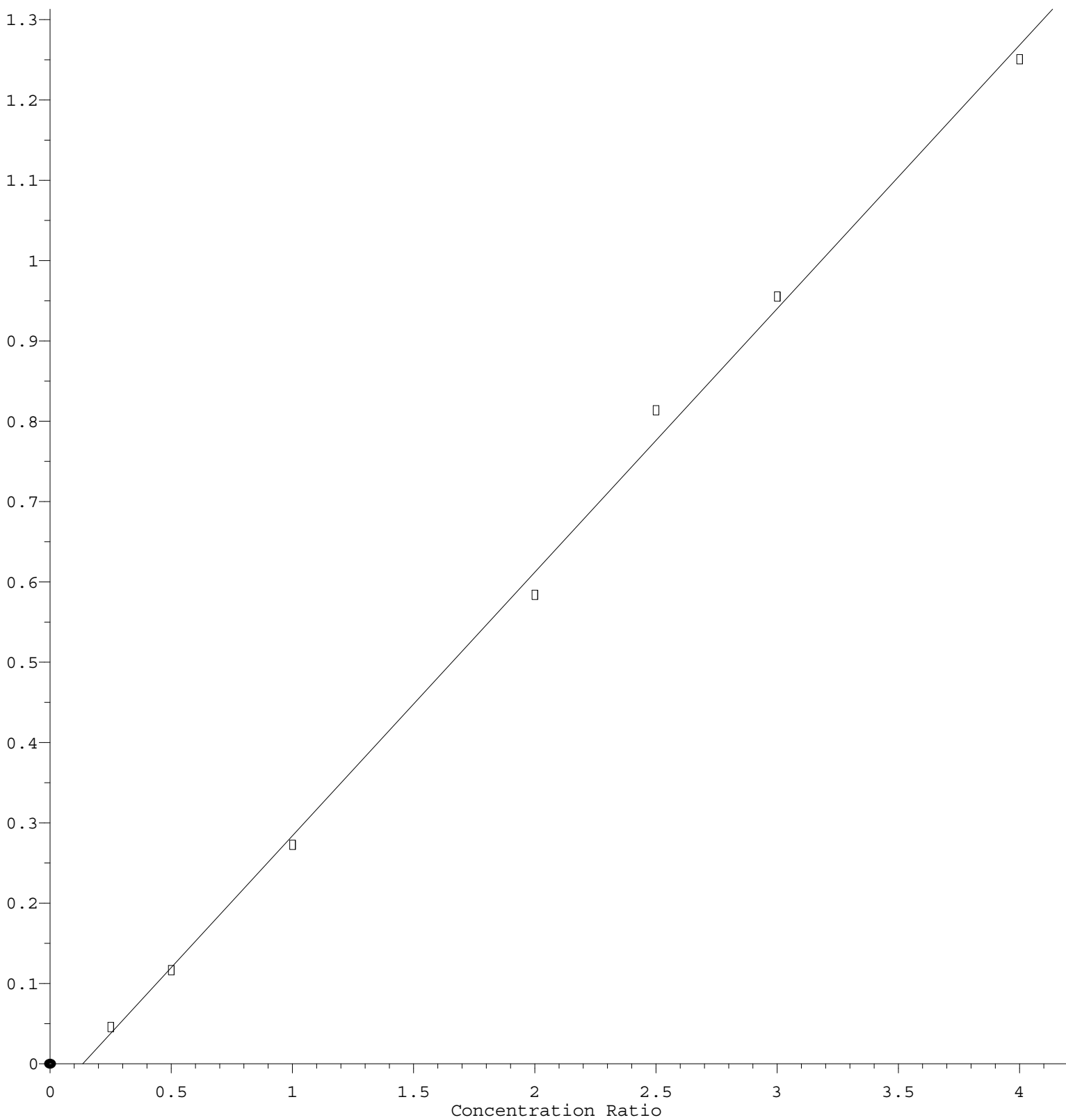
2,4-Dinitrophenol



$\text{Response} = 1.324\text{e-}001 * \text{Amt} - 5.080\text{e-}002$
 Coef of Det (r^2) = 0.995804 Curve Fit: Linear
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.282\text{e-}001 * \text{Amt} - 4.436\text{e-}002$$

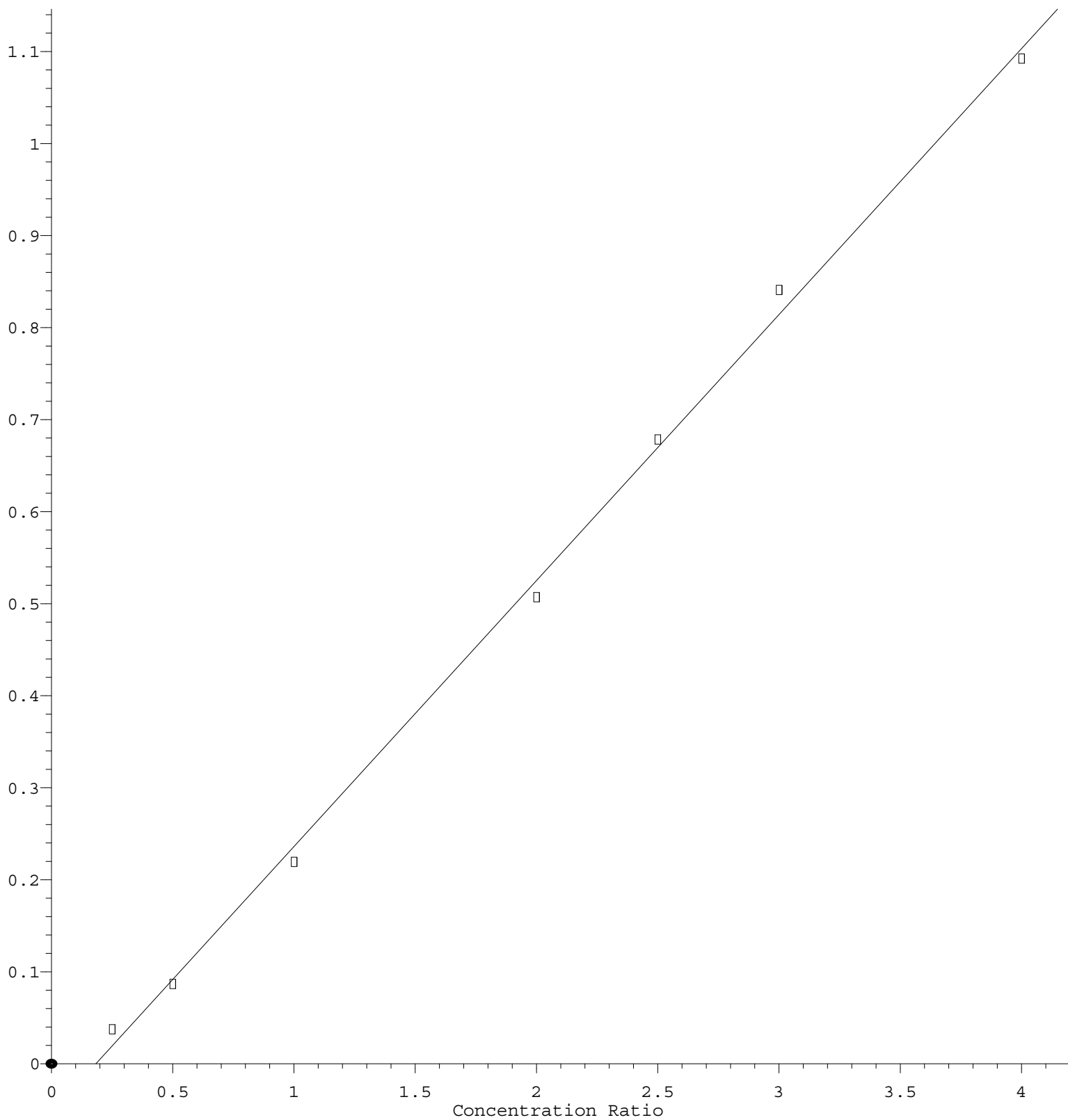
Coef of Det (r^2) = 0.997626 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.892\text{e-}001 * \text{Amt} - 5.280\text{e-}002$$

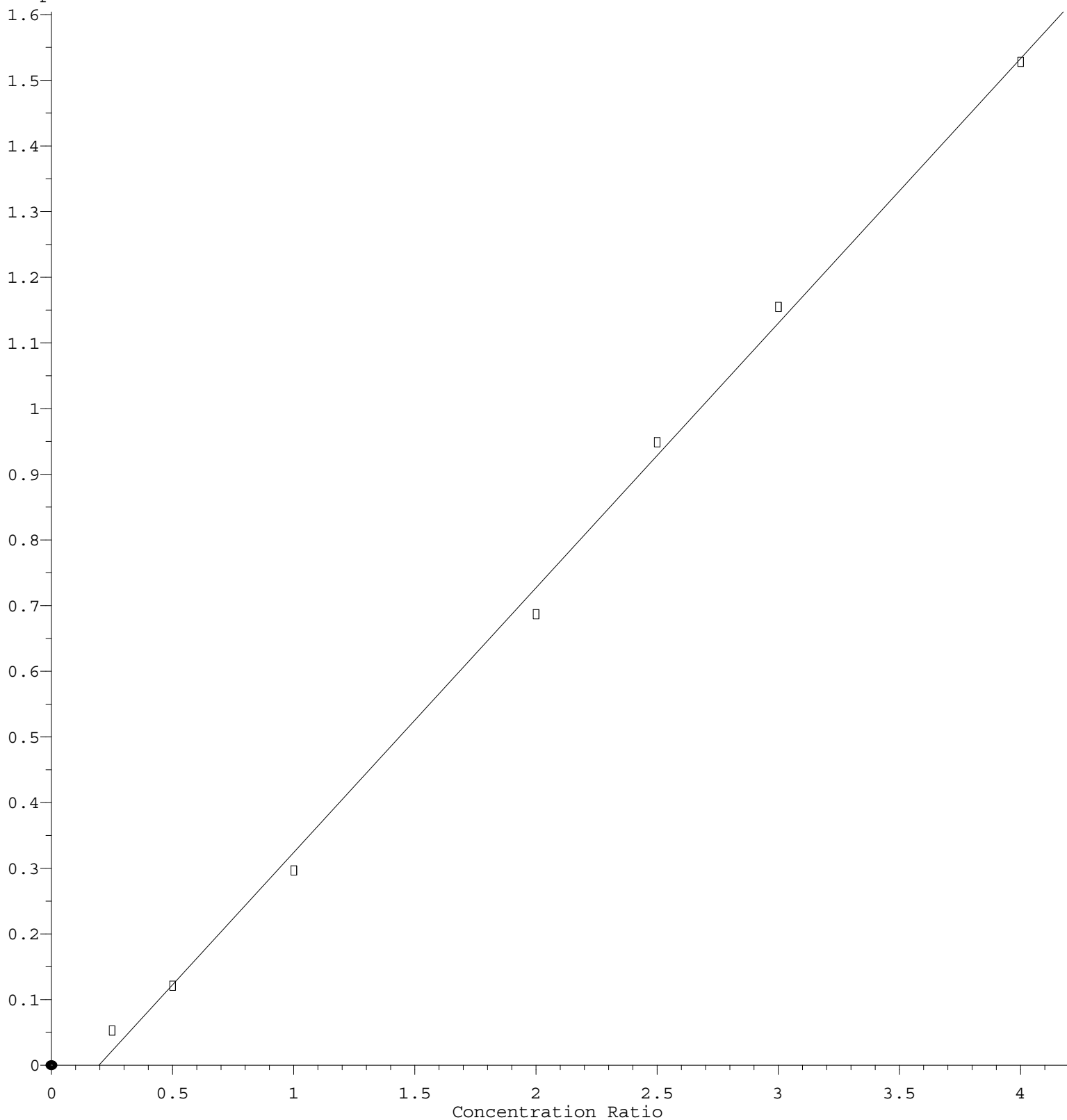
Coef of Det (r^2) = 0.998067 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



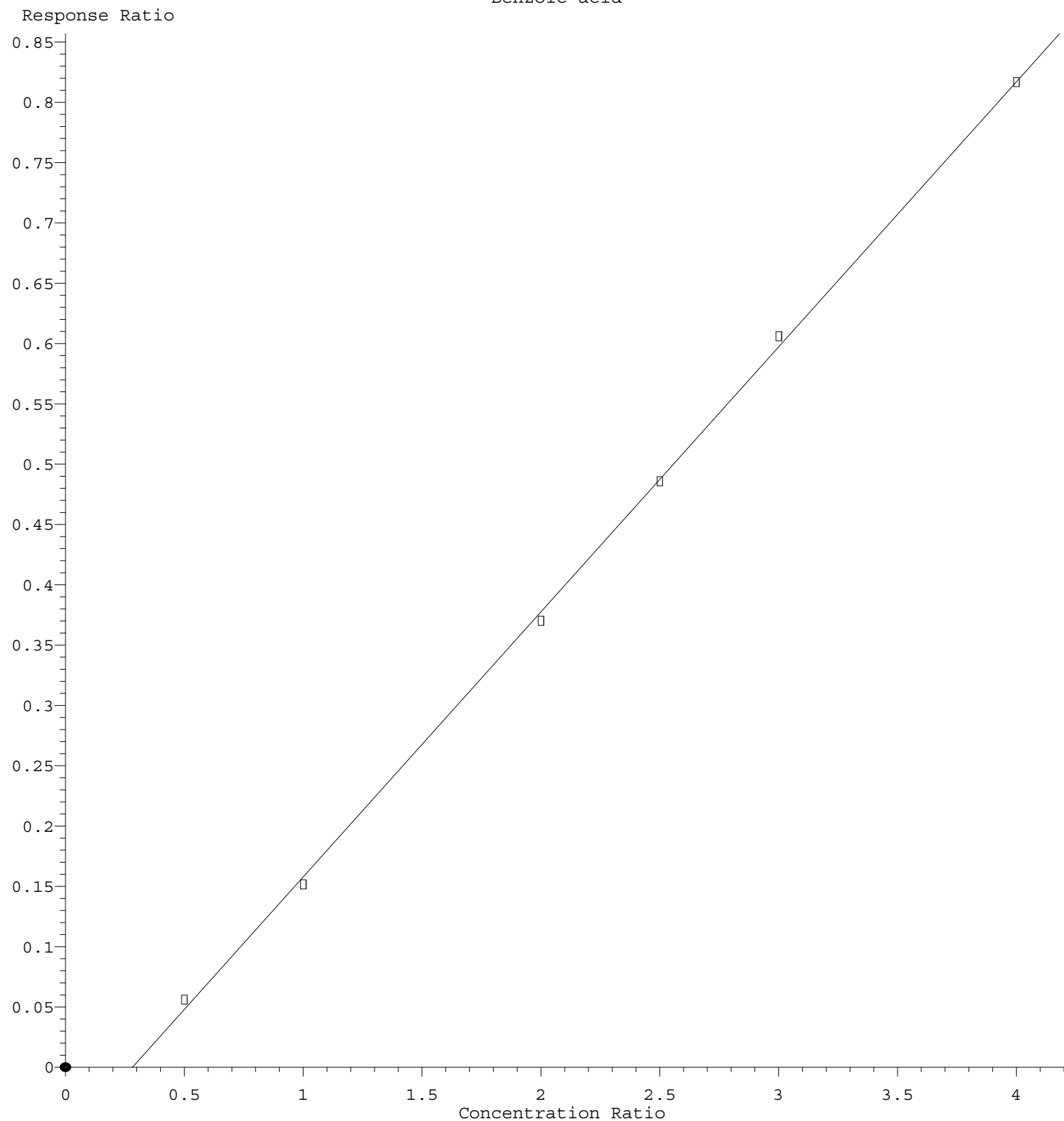
$$\text{Response} = 4.030\text{e-}001 * \text{Amt} - 7.882\text{e-}002$$

Coef of Det (r^2) = 0.997662 Curve Fit: Linear

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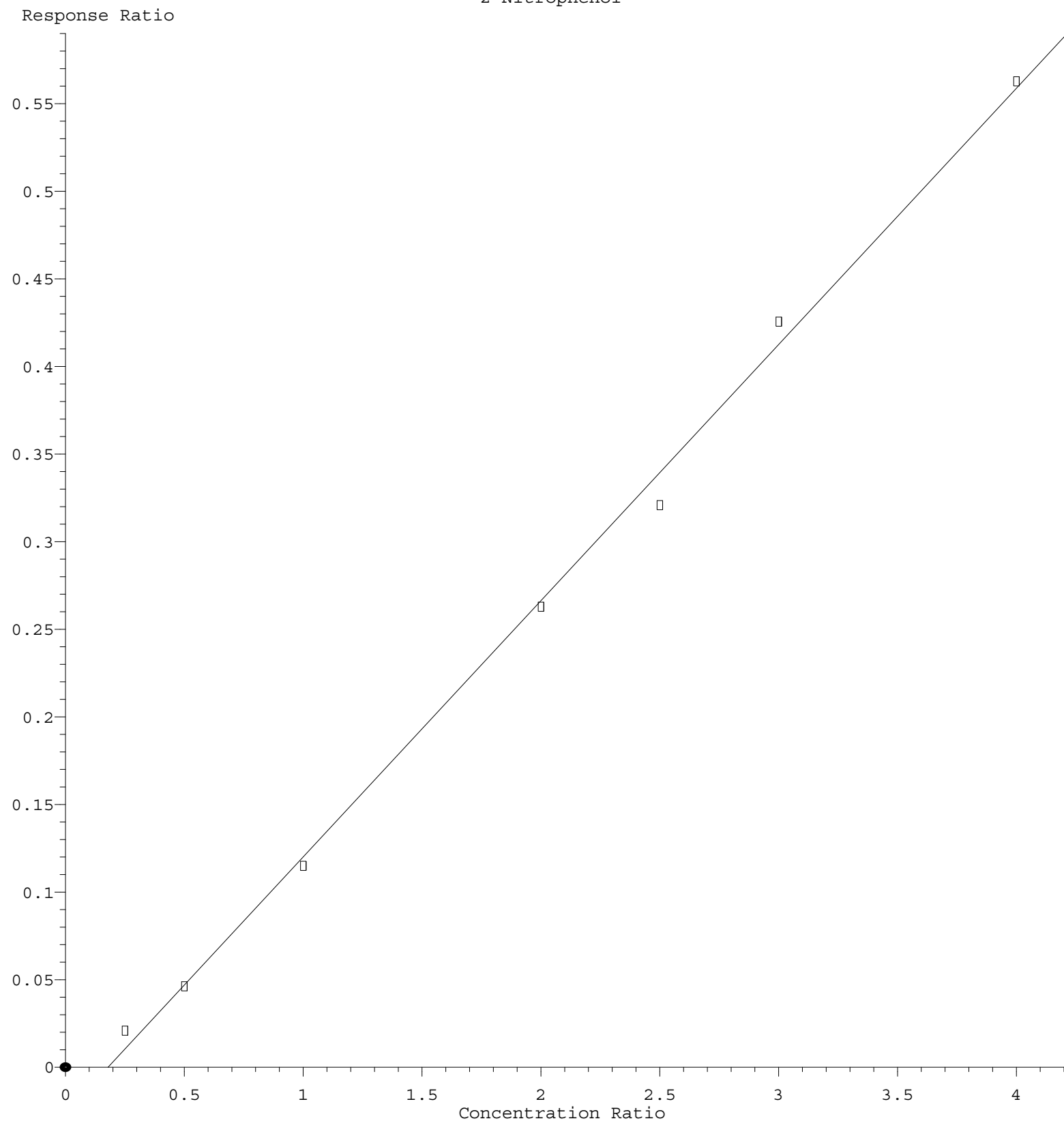
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Benzoic acid



Response = 2.199e-001 * Amt - 6.196e-002
 Coef of Det (r^2) = 0.999412 Curve Fit: Linear
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2-Nitrophenol



Response = $1.462 \times 10^{-1} \times \text{Amt} - 2.615 \times 10^{-2}$
 Coef of Det (r^2) = 0.997235 Curve Fit: Linear
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