

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM043024.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed May 01 06:17:41 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BM045645.D 5 =BM045646.D 10 =BM045647.D 20 =BM045648.D 40 =BM045649.D 50 =BM045650.D 60 =BM045651.D 80 =BM045652.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.547	0.588	0.519	0.543	0.535	0.542	0.531	0.544	4.02
3)	Pyridine		1.192	1.180	1.326	1.463	1.205	1.273	1.246	1.269	7.84
4)	n-Nitrosodimet...		0.699	0.771	0.789	0.916	0.868	0.871	0.872	0.827	9.18
5) S	2-Fluorophenol		1.209	1.321	1.368	1.385	1.401	1.381	1.380	1.349	4.95
6)	Aniline		1.334	1.333	1.476	1.537	1.526	1.523	1.496	1.461	6.11
7) S	Phenol-d6		1.336	1.473	1.604	1.650	1.664	1.670	1.700	1.585	8.38
8)	2-Chlorophenol		1.199	1.226	1.340	1.349	1.335	1.351	1.353	1.308	5.01
9)	Benzaldehyde		1.174	1.060	1.055	0.937	0.930	0.878	0.803	0.977	12.92
10) C	Phenol		1.481	1.547	1.612	1.615	1.680	1.672	1.644	1.607	4.44
11)	bis(2-Chloroet...		1.142	1.195	1.275	1.244	1.188	1.220	1.220	1.212	3.50
12)	1,3-Dichlorobe...		1.556	1.448	1.585	1.557	1.513	1.530	1.499	1.527	2.98
13) C	1,4-Dichlorobe...		1.562	1.516	1.595	1.528	1.546	1.518	1.504	1.538	2.07
14)	1,2-Dichlorobe...		1.514	1.486	1.455	1.481	1.463	1.481	1.444	1.475	1.57
15)	Benzyl Alcohol		0.926	0.980	1.075	1.041	1.058	1.073	1.086	1.034	5.74
16)	2,2'-oxybis(1-...		1.281	1.359	1.394	1.396	1.340	1.332	1.295	1.342	3.32
17)	2-Methylphenol		1.023	0.927	1.043	1.092	1.090	1.059	1.055	1.041	5.38
18)	Hexachloroethane		0.725	0.662	0.678	0.675	0.664	0.681	0.656	0.677	3.40
19) P	n-Nitroso-di-n...	0.767	0.814	0.837	0.885	0.972	0.974	0.963	1.019	0.904	10.07
20)	3+4-Methylphenols		1.094	1.293	1.380	1.438	1.435	1.443	1.483	1.367	9.86
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.461	0.459	0.520	0.511	0.492	0.509	0.546	0.500	6.32
23) S	Nitrobenzene-d5		0.369	0.395	0.446	0.446	0.435	0.447	0.474	0.430	8.31
24)	Nitrobenzene		0.412	0.421	0.454	0.451	0.436	0.444	0.456	0.439	3.94
25)	Isophorone		0.590	0.574	0.644	0.680	0.657	0.679	0.711	0.648	7.71
26) C	2-Nitrophenol		0.114	0.126	0.162	0.173	0.172	0.178	0.188	0.159	17.63
27)	2,4-Dimethylph...		0.179	0.175	0.212	0.208	0.203	0.202	0.216	0.199	7.90
28)	bis(2-Chloroet...		0.337	0.327	0.391	0.383	0.376	0.389	0.407	0.373	7.97
29) C	2,4-Dichloroph...		0.220	0.249	0.260	0.280	0.284	0.289	0.305	0.269	10.61
30)	1,2,4-Trichlor...		0.328	0.301	0.317	0.313	0.307	0.320	0.329	0.317	3.29
31)	Naphthalene		1.018	0.975	1.081	1.027	0.986	1.028	1.077	1.027	3.92
32)	Benzoic acid			0.150	0.183	0.235	0.236	0.241	0.248	0.216	18.40
33)	4-Chloroaniline		0.286	0.314	0.350	0.371	0.358	0.383	0.387	0.350	10.68
34) C	Hexachlorobuta...		0.182	0.155	0.185	0.178	0.176	0.182	0.182	0.177	5.77
35)	Caprolactam			0.056	0.073	0.089	0.086	0.089	0.096	0.081	17.91
36) C	4-Chloro-3-met...		0.242	0.253	0.272	0.291	0.277	0.299	0.313	0.278	9.10
37)	2-Methylnaphth...		0.602	0.591	0.649	0.630	0.633	0.653	0.692	0.636	5.30
38)	1-Methylnaphth...		0.635	0.624	0.646	0.644	0.639	0.661	0.685	0.648	3.08

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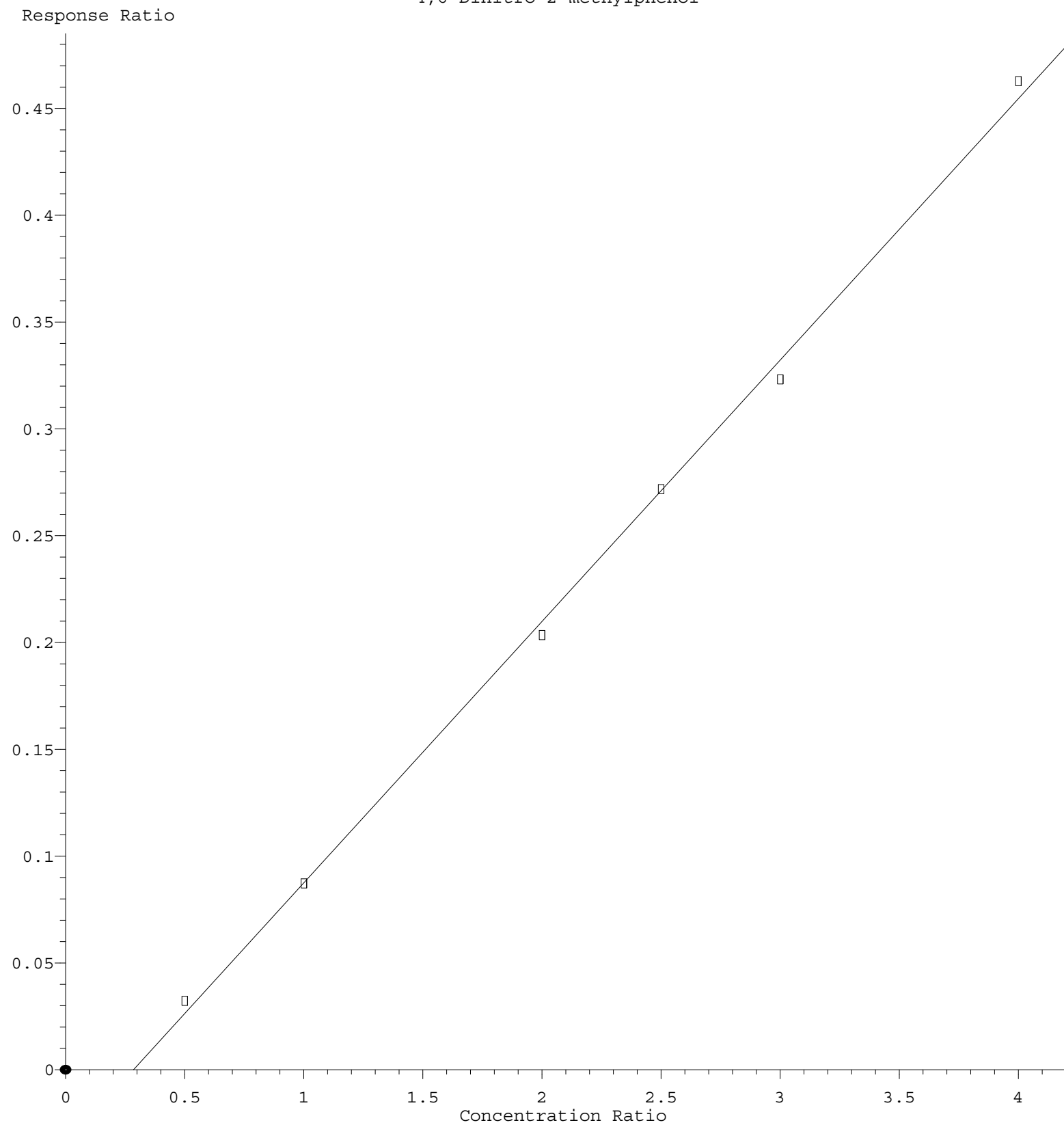
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...		0.514	0.512	0.520	0.515	0.505	0.502	0.517	0.512	1.27
41) P	Hexachlorocycl...			0.114	0.143	0.172	0.163	0.176	0.178	0.158	15.92
42) S	2,4,6-Tribromo...		0.176	0.201	0.232	0.236	0.241	0.248	0.273	0.230	13.95
43) C	2,4,6-Trichlor...		0.267	0.309	0.361	0.355	0.362	0.364	0.381	0.343	11.74
44)	2,4,5-Trichlor...		0.332	0.354	0.412	0.409	0.389	0.408	0.419	0.389	8.52
45) S	2-Fluorobiphenyl		1.479	1.372	1.426	1.435	1.441	1.488	1.626	1.467	5.44
46)	1,1'-Biphenyl		1.519	1.418	1.497	1.479	1.472	1.476	1.502	1.481	2.16
47)	2-Chloronaphth...		1.271	1.124	1.210	1.169	1.124	1.162	1.191	1.179	4.38
48)	2-Nitroaniline		0.291	0.299	0.380	0.395	0.388	0.388	0.409	0.364	13.20
49)	Acenaphthylene		1.665	1.637	1.738	1.740	1.710	1.803	1.875	1.738	4.65
50)	Dimethylphthalate		1.313	1.261	1.342	1.387	1.335	1.371	1.412	1.346	3.73
51)	2,6-Dinitrotol...		0.231	0.268	0.310	0.316	0.304	0.313	0.316	0.294	11.07
52) C	Acenaphthene		1.132	1.015	1.079	1.079	1.077	1.072	1.119	1.082	3.49
53)	3-Nitroaniline		0.152	0.258	0.299	0.336	0.334	0.347	0.354	0.297	24.28
54) P	2,4-Dinitrophenol			0.068	0.115	0.142	0.151	0.164	0.171	0.135	28.22
55)	Dibenzofuran		1.669	1.582	1.703	1.656	1.667	1.683	1.811	1.682	4.09
56) P	4-Nitrophenol			0.115	0.190	0.269	0.257	0.281	0.292	0.234	29.26
57)	2,4-Dinitrotol...		0.301	0.317	0.401	0.428	0.431	0.430	0.483	0.399	16.56
58)	Fluorene		1.342	1.286	1.331	1.363	1.410	1.433	1.596	1.395	7.28
59)	2,3,4,6-Tetrac...		0.247	0.267	0.305	0.311	0.301	0.310	0.323	0.295	9.22
60)	Diethylphthalate		1.544	1.403	1.456	1.470	1.428	1.453	1.509	1.466	3.25
61)	4-Chlorophenyl...		0.594	0.577	0.590	0.590	0.602	0.616	0.695	0.609	6.50
62)	4-Nitroaniline		0.108	0.201	0.308	0.318	0.337	0.351	0.353	0.282	32.93
63)	Azobenzene		1.585	1.564	1.697	1.739	1.734	1.704	1.810	1.690	5.16
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...			0.064	0.087	0.102	0.109	0.108	0.116	0.098	19.31
66) c	n-Nitrosodiphe...		0.521	0.545	0.550	0.530	0.541	0.547	0.566	0.543	2.65
67)	4-Bromophenyl-...		0.188	0.179	0.185	0.175	0.172	0.183	0.186	0.181	3.32
68)	Hexachlorobenzene		0.216	0.240	0.236	0.216	0.219	0.229	0.235	0.227	4.48
69)	Atrazine		0.151	0.152	0.168	0.161	0.160	0.169	0.160	0.160	4.23
70) C	Pentachlorophenol			0.105	0.126	0.139	0.141	0.150	0.154	0.136	13.11
71)	Phenanthrene		0.989	0.993	1.033	0.974	0.969	1.003	1.034	0.999	2.61
72)	Anthracene		0.948	0.966	1.032	0.968	0.970	1.024	1.034	0.992	3.69
73)	Carbazole		0.954	0.962	1.039	0.993	1.022	1.053	1.068	1.013	4.38
74)	Di-n-butylphth...		1.103	1.109	1.211	1.209	1.263	1.274	1.324	1.213	6.86
75) C	Fluoranthene		1.219	1.199	1.253	1.180	1.198	1.247	1.283	1.225	2.99
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine			0.181	0.251	0.427	0.414	0.355	0.389	0.336	29.41
78)	Pyrene		1.181	1.113	1.178	1.185	1.167	1.172	1.273	1.181	4.00
79) S	Terphenyl-d14		0.888	0.872	0.900	0.963	1.039	1.069		0.955	8.68
80)	Butylbenzylpht...		0.480	0.487	0.525	0.557	0.567	0.565	0.625	0.544	9.34
81)	Benzo(a)anthra...		1.284	1.179	1.212	1.201	1.195	1.219	1.353	1.235	5.02
82)	3,3'-Dichlorob...		0.411	0.421	0.449	0.463	0.466	0.488	0.574	0.468	11.57
83)	Chrysene		1.249	1.202	1.212	1.173	1.133	1.181	1.295	1.206	4.41
84)	Bis(2-ethylhex...		0.757	0.727	0.783	0.859	0.926	0.934		0.831	10.61
85) c	Di-n-octyl pht...		1.243	1.281	1.401	1.514	1.541	1.531	1.715	1.461	11.25

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.537	1.431	1.497	1.453	1.464	1.577	1.721	1.526	6.54
88)	Benzo(b)fluora...	1.119	1.059	1.051	1.060	1.018	1.111	1.184	1.086	5.11
89)	Benzo(k)fluora...	1.088	0.984	1.051	0.971	1.013	1.036	1.134	1.039	5.53
90) C	Benzo(a)pyrene	0.972	0.953	0.990	0.959	0.956	0.998	1.051	0.983	3.52
91)	Dibenzo(a,h)an...	1.232	1.200	1.228	1.196	1.217	1.320	1.456	1.264	7.46
92)	Benzo(g,h,i)pe...	1.334	1.281	1.315	1.245	1.220	1.285	1.314	1.285	3.18

(#) = Out of Range

4,6-Dinitro-2-methylphenol



$$\text{Response} = 1.223\text{e-}001 * \text{Amt} - 3.480\text{e-}002$$

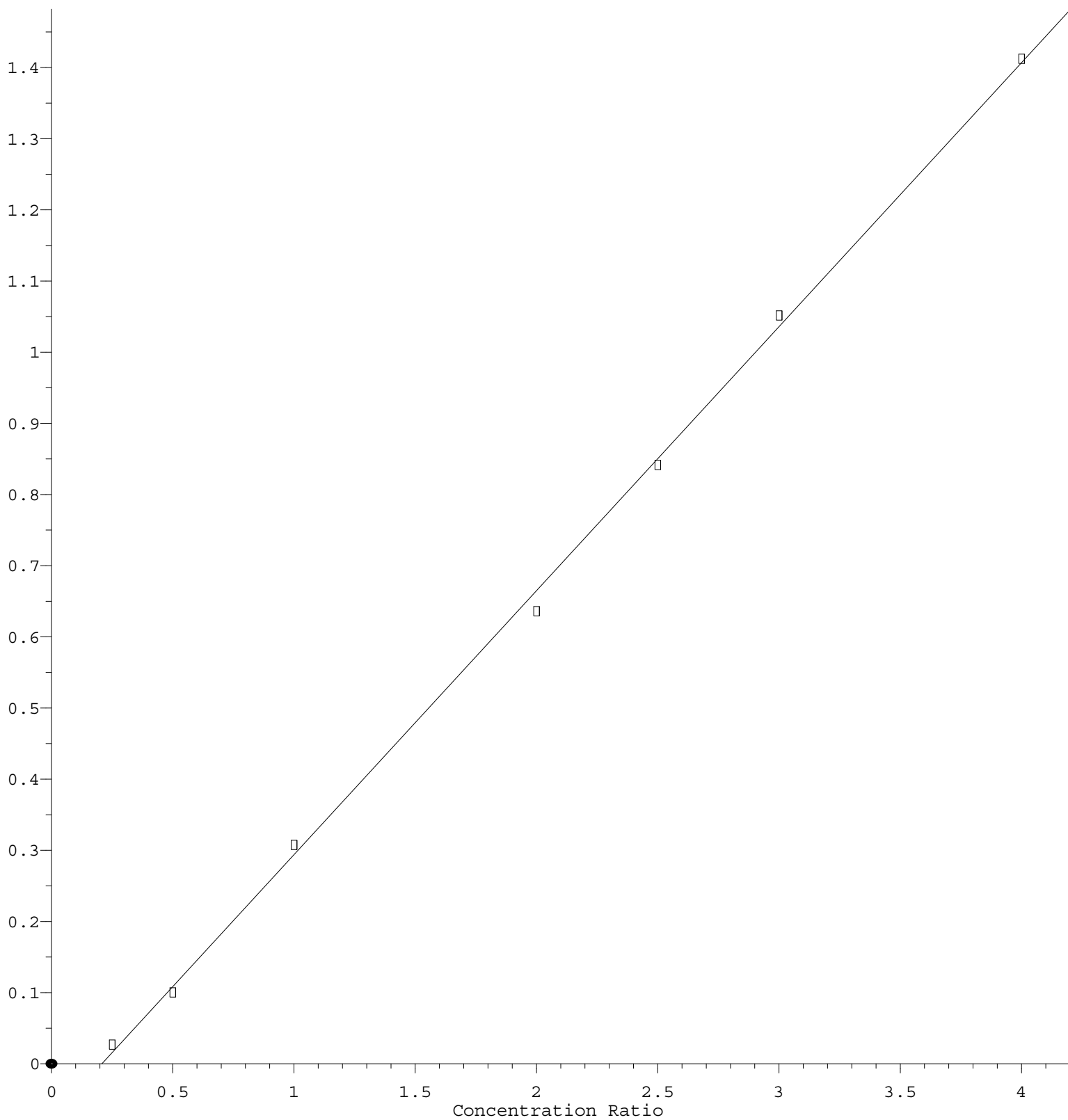
Coef of Det (r^2) = 0.998195 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.711\text{e-}001 * \text{Amt} - 7.724\text{e-}002$$

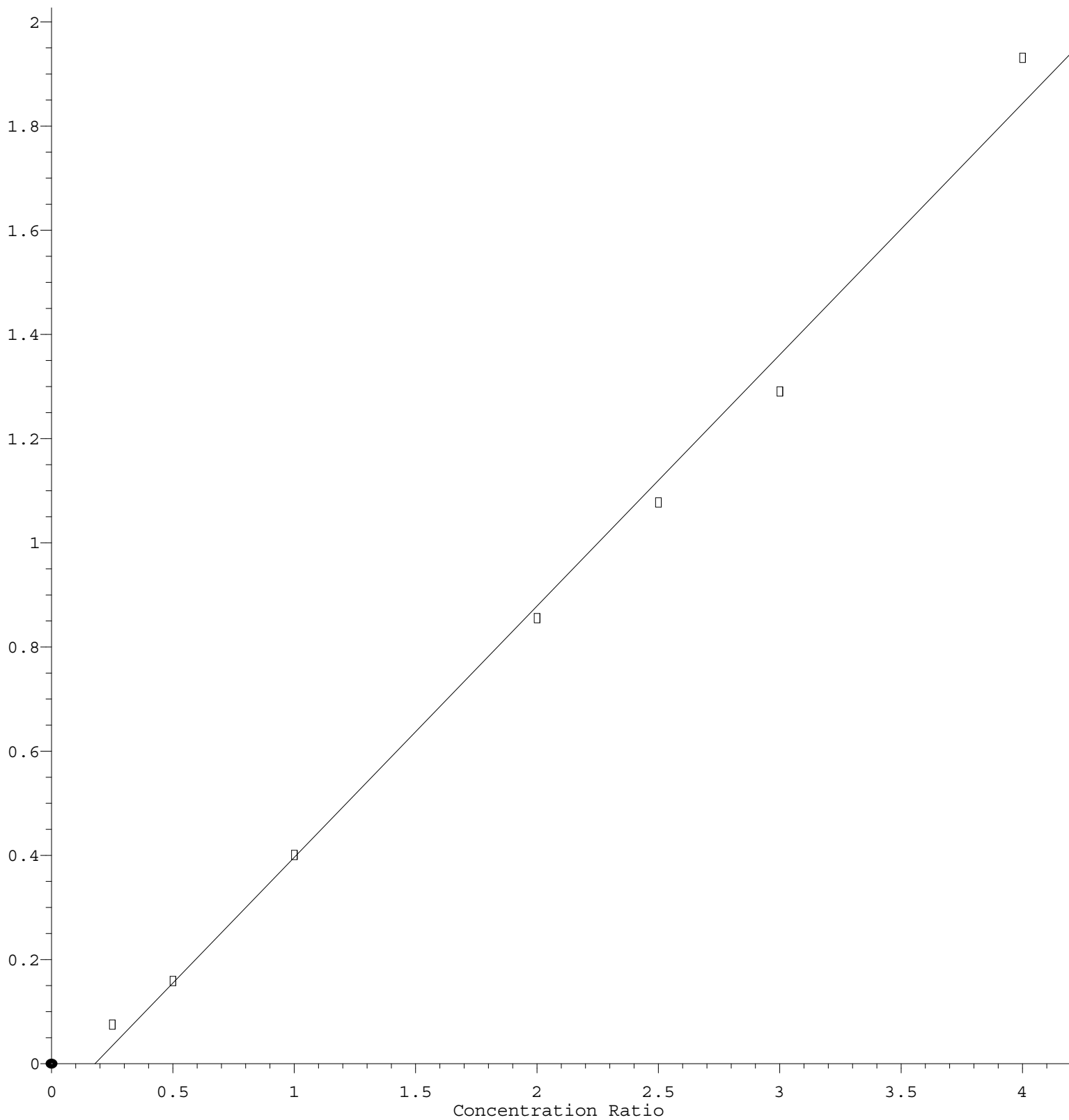
Coef of Det (r^2) = 0.999007 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.826\text{e-}001 * \text{Amt} - 8.653\text{e-}002$$

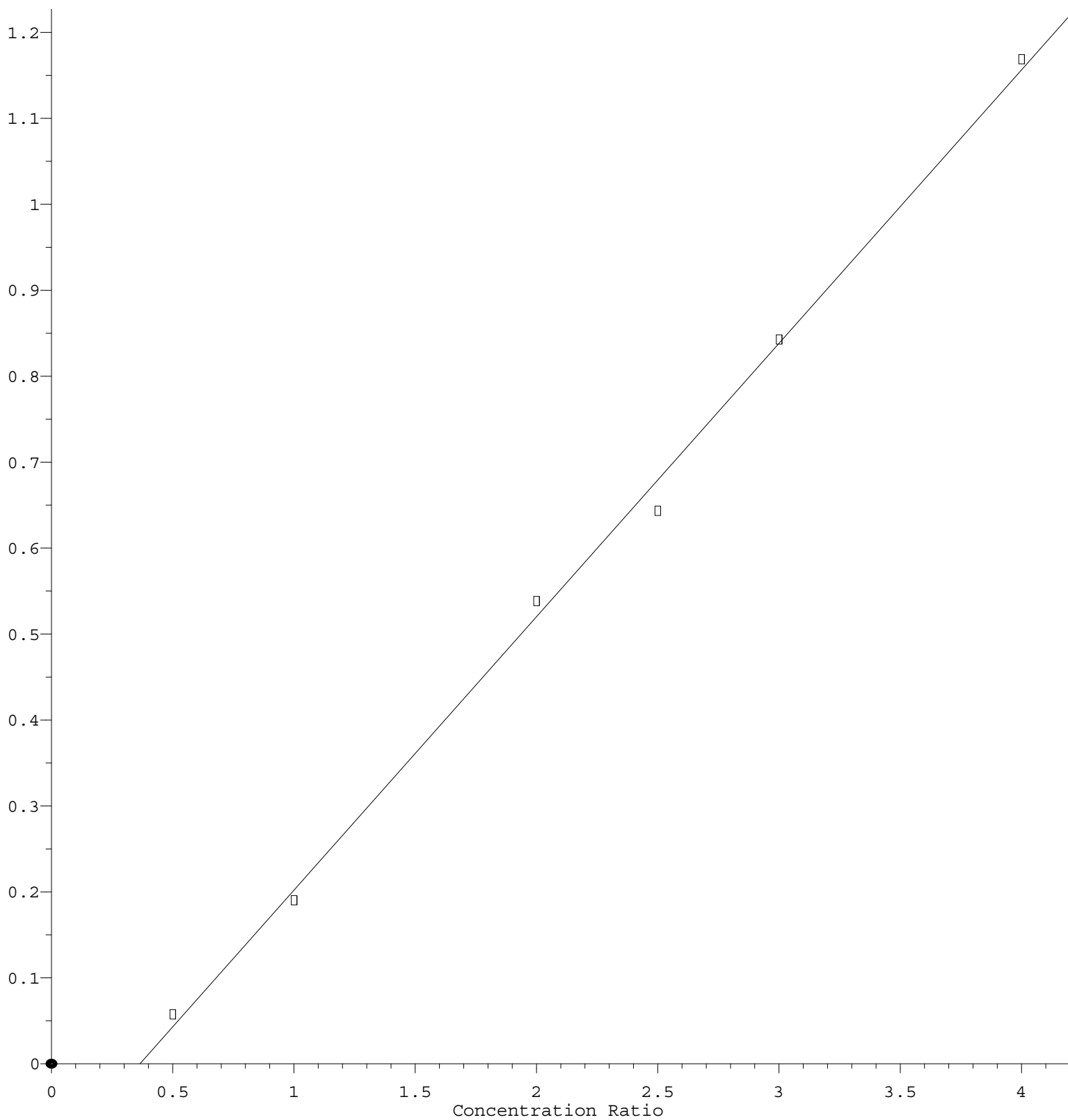
Coef of Det (r^2) = 0.993795 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM043024.M

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4-Nitrophenol

Response Ratio



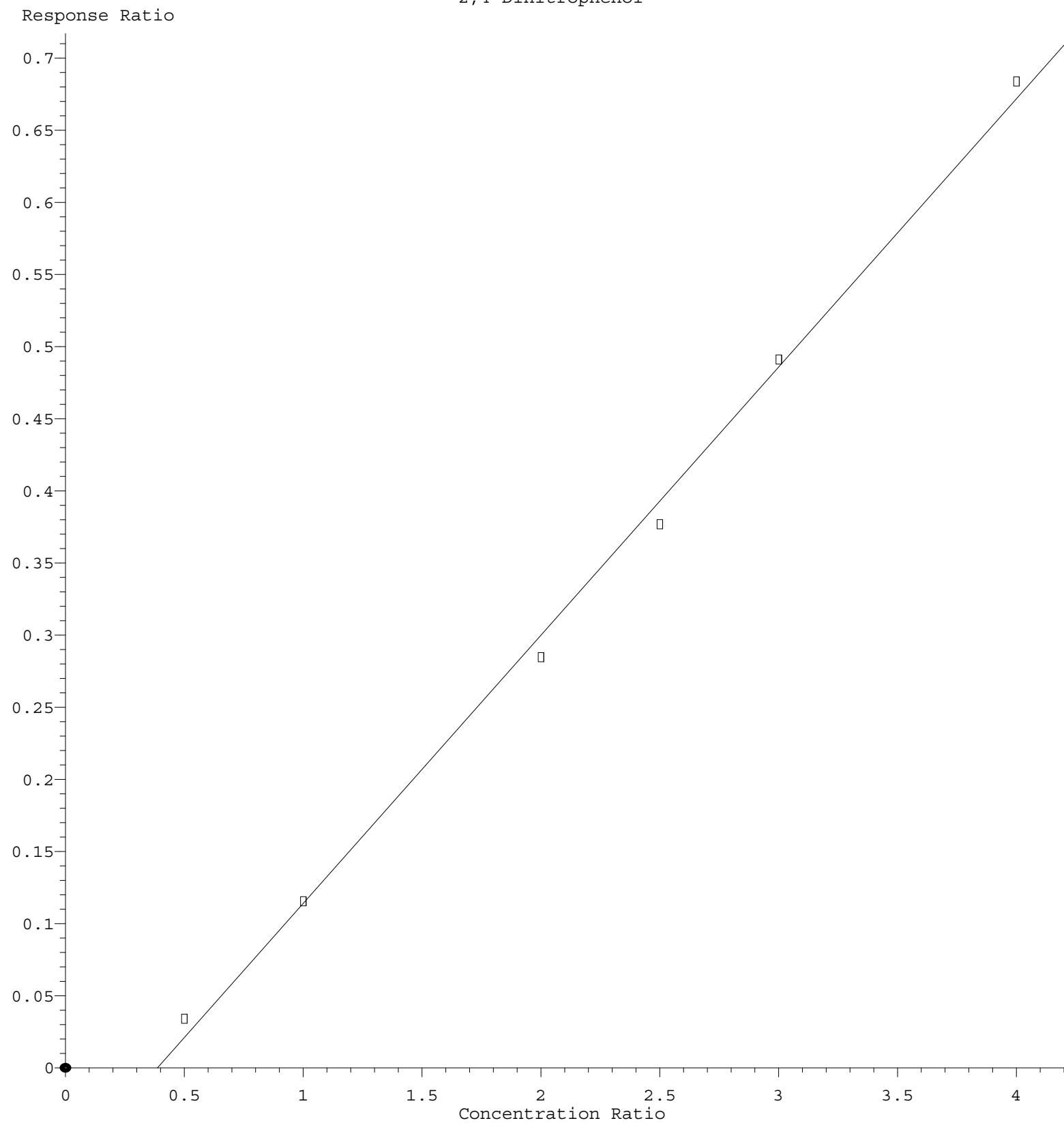
$$\text{Response} = 3.182\text{e-}001 * \text{Amt} - 1.160\text{e-}001$$

Coef of Det (r^2) = 0.997475 Curve Fit: Linear

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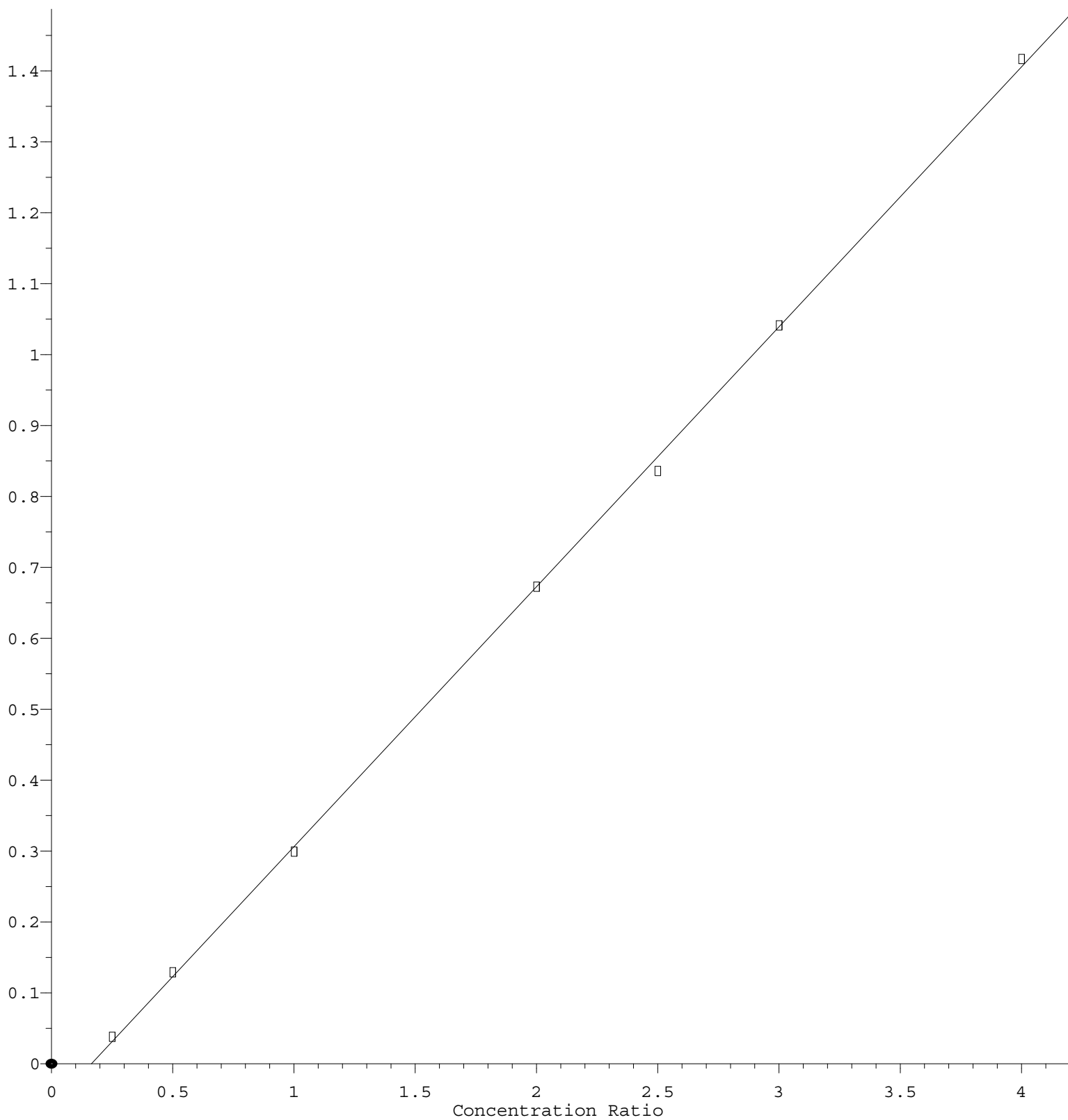
2,4-Dinitrophenol



Response = 1.860e-001 * Amt - 7.191e-002
 Coef of Det (r^2) = 0.997121 Curve Fit: Linear
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3-Nitroaniline

Response Ratio



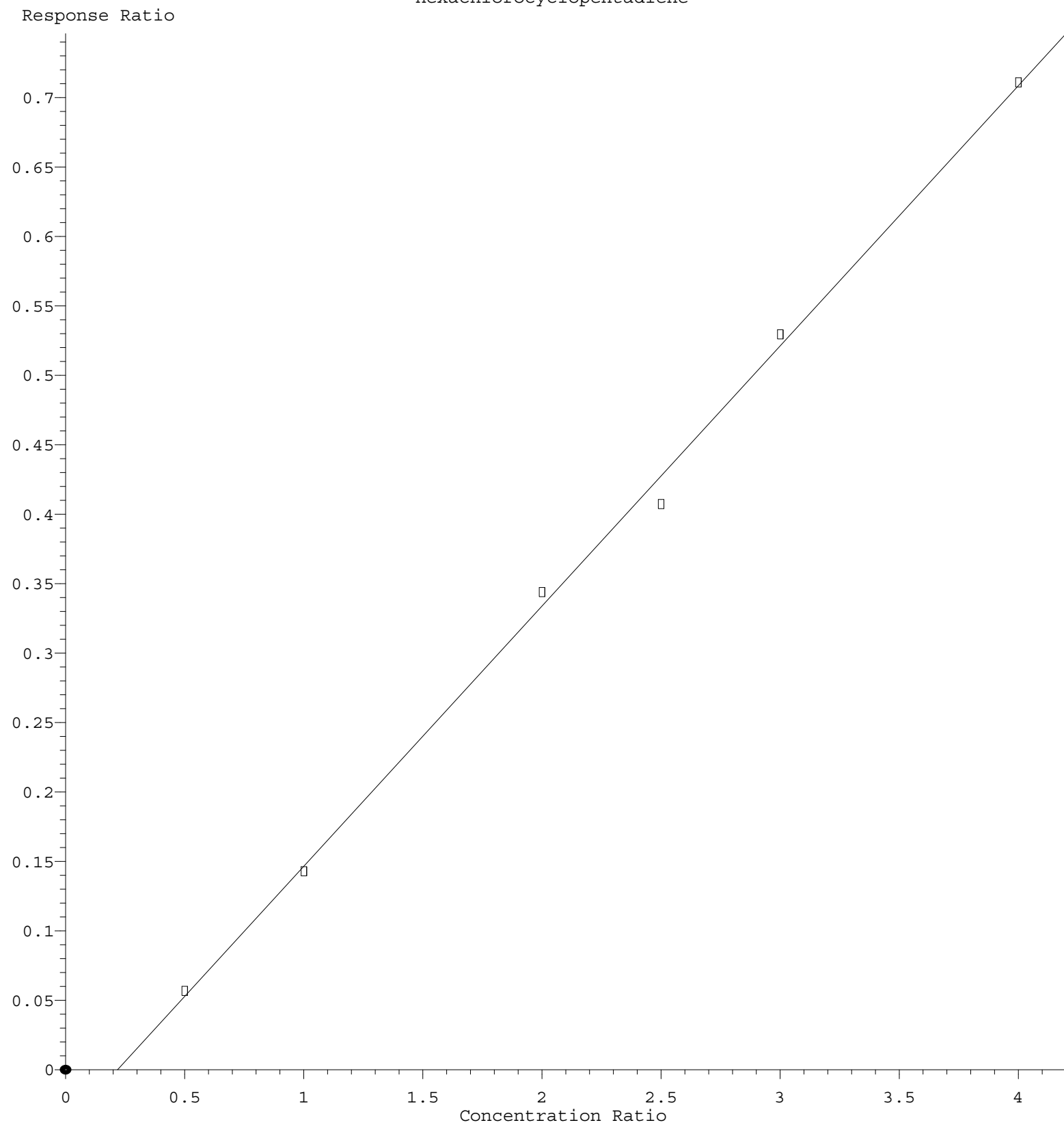
$$\text{Response} = 3.665\text{e-}001 * \text{Amt} - 6.049\text{e-}002$$

Coef of Det (r^2) = 0.999574 Curve Fit: Linear

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Hexachlorocyclopentadiene



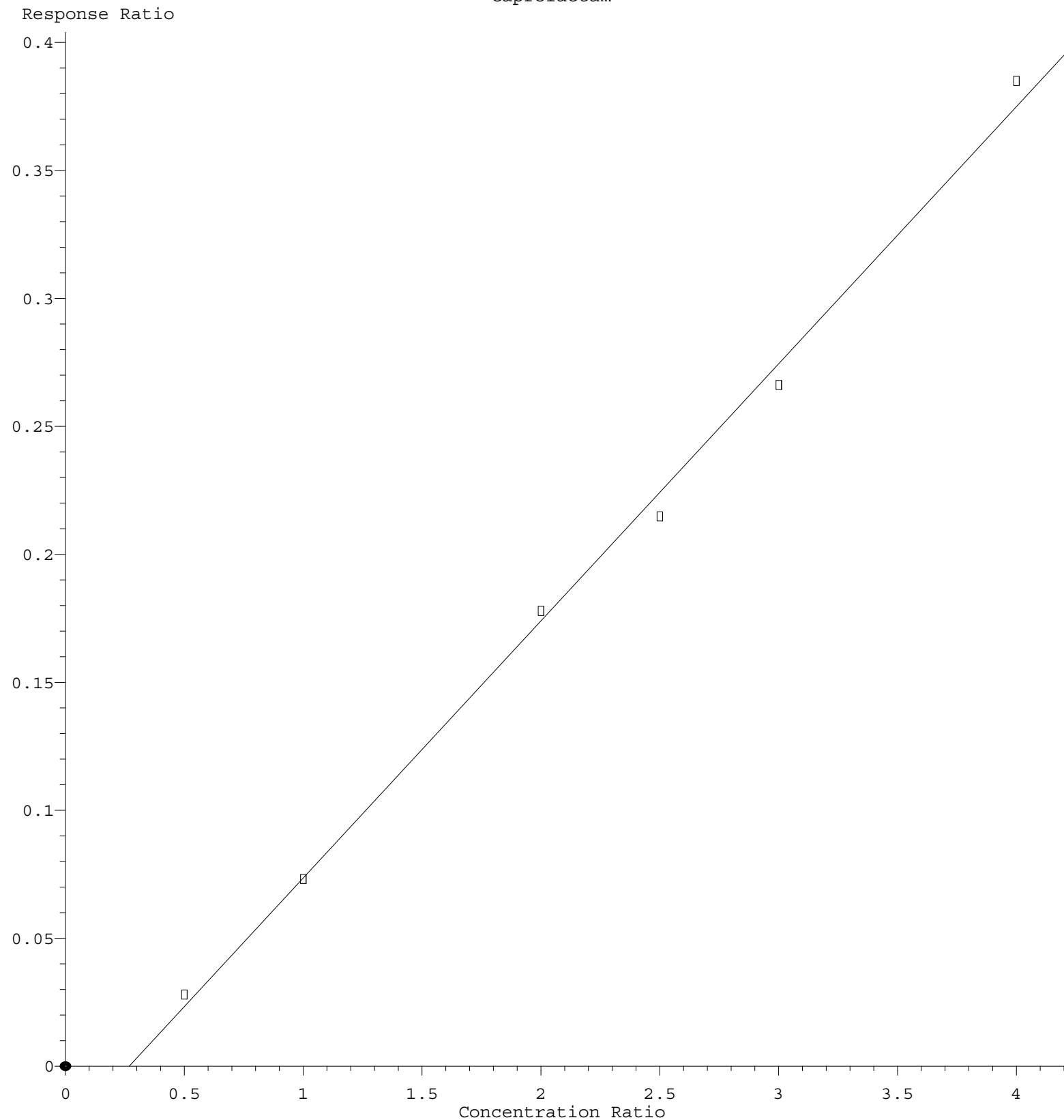
$$\text{Response} = 1.874\text{e-}001 * \text{Amt} - 4.079\text{e-}002$$

Coef of Det (r^2) = 0.997909 Curve Fit: Linear

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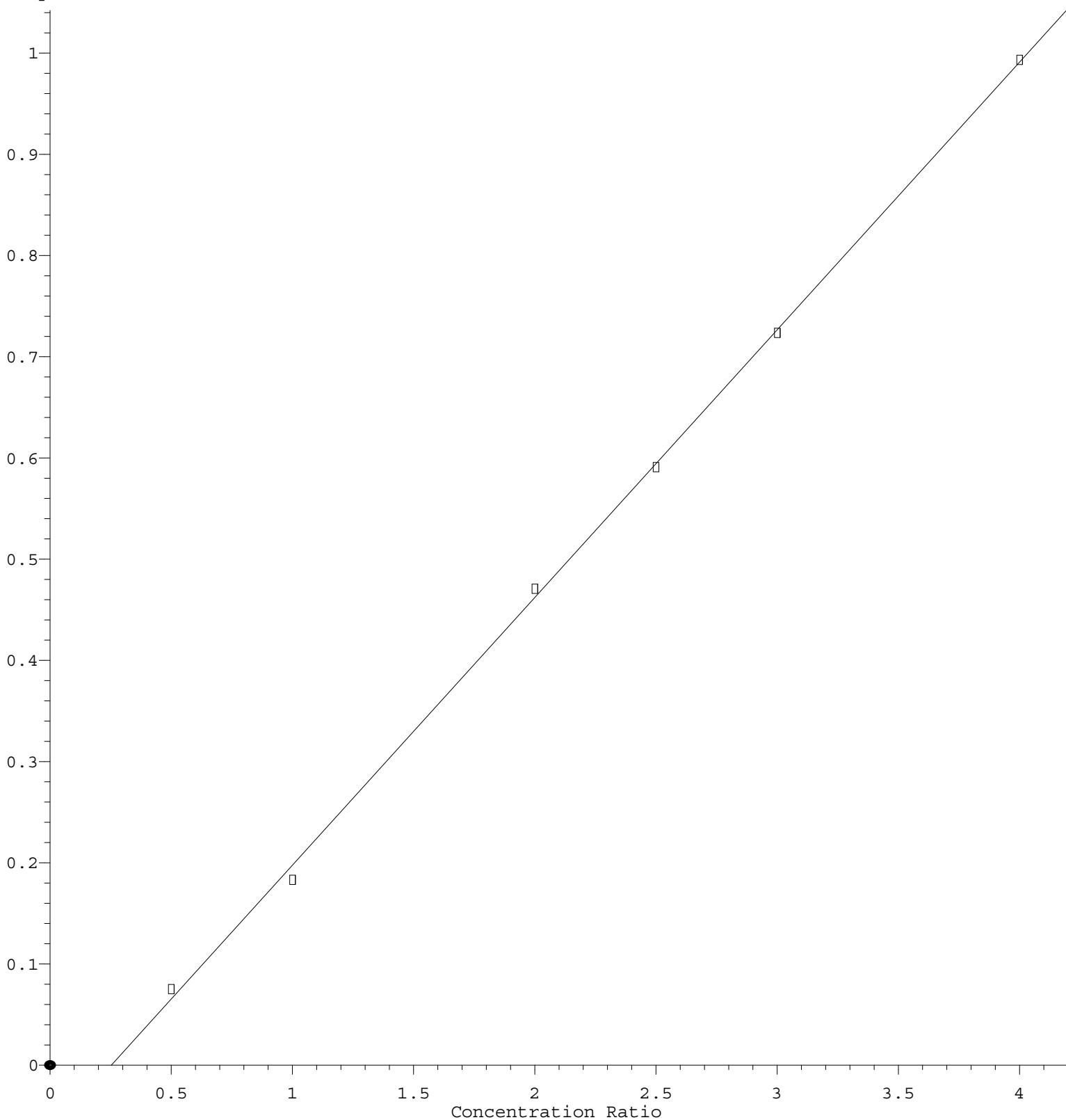
Caprolactam



$\text{Response} = 1.005\text{e-}001 * \text{Amt} - 2.692\text{e-}002$
 Coef of Det (r^2) = 0.996501 Curve Fit: Linear
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Benzoic acid

Response Ratio



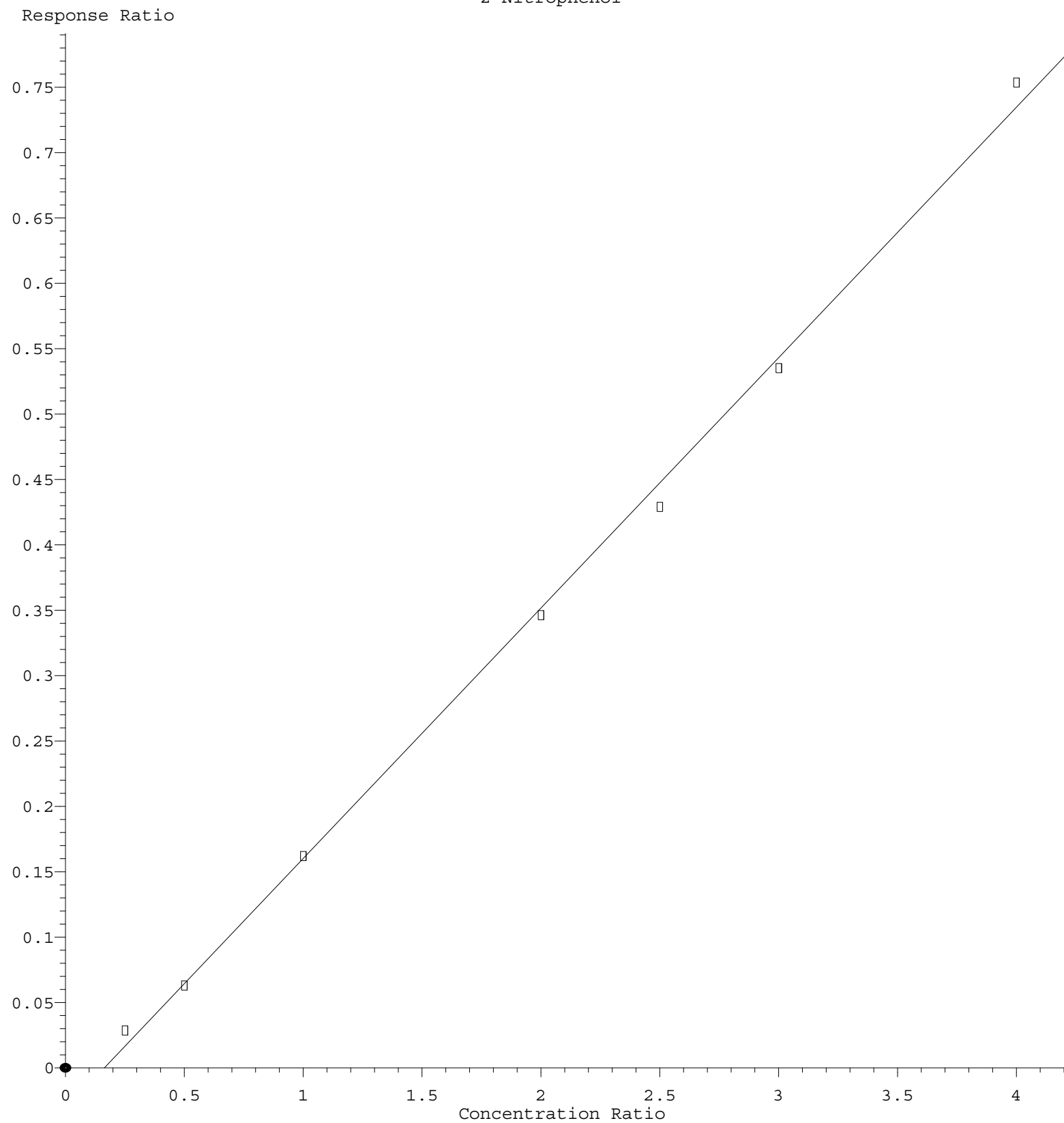
$$\text{Response} = 2.645\text{e-}001 * \text{Amt} - 6.687\text{e-}002$$

Coef of Det (r^2) = 0.999304 Curve Fit: Linear

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2-Nitrophenol



Response = $1.915 \times 10^{-1} \times \text{Amt} - 3.142 \times 10^{-2}$
 Coef of Det (r^2) = 0.997771 Curve Fit: Linear
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