

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF052523.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu May 25 23:30:55 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BF133483.D 5 =BF133484.D 10 =BF133485.D 20 =BF133486.D 40 =BF133487.D 50 =BF133488.D 60 =BF133489.D 80 =BF133490.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.612	0.565	0.574	0.560	0.499	0.506	0.474	0.541	9.09
3)	Pyridine		1.648	1.592	1.611	1.542	1.414	1.451	1.368	1.518	7.09
4)	n-Nitrosodimet...		0.873	0.828	0.869	0.844	0.796	0.810	0.775	0.828	4.46
5) S	2-Fluorophenol		1.389	1.339	1.333	1.187	1.075	1.078	0.990	1.199	13.08
6)	Aniline		2.345	2.145	2.141	1.996	1.849	1.853	1.695	2.004	11.11
7) S	Phenol-d6		1.778	1.657	1.602	1.457	1.323	1.322	1.190	1.476	14.36
8)	2-Chlorophenol		1.320	1.302	1.323	1.198	1.093	1.077	0.956	1.181	12.17
9)	Benzaldehyde			1.075	0.926	0.749	0.701	0.677		0.826	20.59
10) C	Phenol		1.718	1.622	1.614	1.511	1.332	1.355	1.211	1.480	12.51
11)	bis(2-Chloroet...		1.462	1.343	1.310	1.211	1.127	1.110	1.004	1.224	12.89
12)	1,3-Dichlorobe...		1.555	1.451	1.464	1.300	1.178	1.165	1.067	1.311	13.97
13) C	1,4-Dichlorobe...		1.610	1.452	1.444	1.308	1.171	1.173	1.044	1.315	15.10
14)	1,2-Dichlorobe...		1.524	1.390	1.363	1.199	1.048	1.043	0.926	1.213	18.11
15)	Benzyl Alcohol		1.264	1.234	1.240	1.144	1.035	1.026	0.899	1.120	12.27
16)	2,2'-oxybis(1-...		2.750	2.515	2.504	2.323	2.118	2.131	1.908	2.321	12.47
17)	2-Methylphenol		1.322	1.212	1.195	1.107	1.020	1.024	0.950	1.119	11.74
18)	Hexachloroethane		0.485	0.478	0.488	0.472	0.428	0.435	0.396	0.455	7.71
19) P	n-Nitroso-di-n...	1.109	1.131	1.015	0.977	0.925	0.852	0.846	0.782	0.955	13.28
20)	3+4-Methylphenols			1.548	1.509	1.314	1.140	1.118	0.958	1.265	18.50
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.582	0.522	0.500	0.448	0.401	0.400	0.372	0.461	16.66
23) S	Nitrobenzene-d5		0.206	0.244	0.310	0.331	0.331	0.344	0.331	0.300	17.67
24)	Nitrobenzene		0.239	0.276	0.341	0.352	0.343	0.353	0.330	0.319	13.85
25)	Isophorone		0.802	0.709	0.703	0.693	0.658	0.670	0.652	0.698	7.25
26) C	2-Nitrophenol		0.064	0.081	0.112	0.138	0.145	0.154	0.152	0.121	29.98
27)	2,4-Dimethylph...		0.344	0.311	0.314	0.296	0.274	0.275	0.264	0.297	9.55
28)	bis(2-Chloroet...		0.485	0.443	0.427	0.399	0.366	0.367	0.345	0.405	12.28
29) C	2,4-Dichloroph...		0.274	0.269	0.292	0.275	0.257	0.262	0.243	0.267	5.80
30)	1,2,4-Trichlor...		0.335	0.307	0.317	0.286	0.264	0.266	0.248	0.289	11.04
31)	Naphthalene		1.185	1.067	1.054	0.948	0.861	0.875	0.798	0.970	14.20
32)	Benzoic acid			0.109	0.131	0.181	0.194	0.204	0.213	0.172	24.41
33)	4-Chloroaniline		0.497	0.454	0.437	0.409	0.378	0.382	0.352	0.416	12.06
34) C	Hexachlorobuta...		0.203	0.184	0.190	0.175	0.161	0.164	0.154	0.176	9.97
35)	Caprolactam		0.084	0.085	0.089	0.091	0.089	0.091	0.085	0.088	3.51
36) C	4-Chloro-3-met...		0.329	0.305	0.312	0.304	0.284	0.288	0.274	0.299	6.22
37)	2-Methylnaphth...		0.830	0.735	0.707	0.655	0.585	0.587	0.535	0.662	15.52
38)	1-Methylnaphth...		0.772	0.682	0.662	0.608	0.544	0.547	0.504	0.617	15.31

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.698	0.653	0.655	0.587	0.522	0.539	0.495	0.593	13.06	
41) P	Hexachlorocycl...	0.250	0.266	0.325	0.327	0.308	0.333	0.318	0.304	10.73	
42) S	2,4,6-Tribromo...	0.179	0.191	0.218	0.212	0.197	0.205	0.194	0.199	6.63	
43) C	2,4,6-Trichlor...	0.360	0.374	0.419	0.400	0.365	0.385	0.352	0.379	6.20	
44)	2,4,5-Trichlor...	0.422	0.440	0.479	0.469	0.422	0.440	0.410	0.440	5.77	
45) S	2-Fluorobiphenyl	1.620	1.549	1.297	1.125	1.144	1.041	1.296		18.46	
46)	1,1'-Biphenyl	1.977	1.811	1.816	1.601	1.407	1.444	1.318	1.625	15.28	
47)	2-Chloronaphth...	1.399	1.288	1.291	1.168	1.036	1.078	0.983	1.178	13.05	
48)	2-Nitroaniline	0.171	0.226	0.311	0.371	0.371	0.401	0.388	0.320	27.84	
49)	Acenaphthylene	2.408	2.206	2.194	2.014	1.771	1.844	1.630	2.010	13.78	
50)	Dimethylphthalate	1.620	1.464	1.510	1.406	1.260	1.336	1.243	1.406	9.77	
51)	2,6-Dinitrotol...	0.118	0.154	0.228	0.267	0.263	0.285	0.271	0.227	28.61	
52) C	Acenaphthene	1.419	1.311	1.318	1.207	1.084	1.127	1.056	1.217	11.22	
53)	3-Nitroaniline	0.173	0.212	0.299	0.332	0.328	0.357	0.338	0.291	24.26	
54) P	2,4-Dinitrophenol	0.047	0.069	0.096	0.110	0.127	0.134	0.097		34.57	
55)	Dibenzofuran	2.229	1.981	1.994	1.799	1.588	1.615	1.472	1.811	14.96	
56) P	4-Nitrophenol	0.164	0.223	0.252	0.255	0.280	0.269	0.240		17.56	
57)	2,4-Dinitrotol...	0.134	0.171	0.258	0.320	0.328	0.351	0.344	0.272	32.33	
58)	Fluorene	1.722	1.497	1.450	1.286	1.133	1.147	1.054	1.327	18.12	
59)	2,3,4,6-Tetrac...	0.298	0.322	0.360	0.358	0.326	0.342	0.315	0.332	6.81	
60)	Diethylphthalate	1.673	1.538	1.575	1.472	1.327	1.374	1.255	1.459	10.16	
61)	4-Chlorophenyl...	0.794	0.723	0.720	0.620	0.545	0.557	0.501	0.637	17.29	
62)	4-Nitroaniline	0.187	0.223	0.299	0.336	0.336	0.352	0.342	0.297	21.99	
63)	Azobenzene	1.709	1.549	1.571	1.464	1.309	1.365	1.257	1.461	11.04	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.036	0.052	0.071	0.081	0.088	0.090	0.070		30.76	
66) c	n-Nitrosodiphe...	0.782	0.713	0.701	0.633	0.586	0.582	0.547	0.649	13.14	
67)	4-Bromophenyl-...	0.248	0.229	0.229	0.214	0.190	0.194	0.182	0.212	11.43	
68)	Hexachlorobenzene	0.254	0.242	0.235	0.222	0.203	0.206	0.193	0.222	10.19	
69)	Atrazine	0.200	0.192	0.193	0.181	0.164	0.164	0.153	0.178	10.10	
70) C	Pentachlorophenol	0.101	0.113	0.142	0.146	0.143	0.146	0.138	0.133	13.56	
71)	Phenanthrene	1.217	1.130	1.107	0.989	0.904	0.899	0.846	1.013	13.82	
72)	Anthracene	1.250	1.149	1.151	1.021	0.927	0.930	0.871	1.043	13.67	
73)	Carbazole	1.169	1.081	1.057	0.965	0.896	0.892	0.843	0.986	12.10	
74)	Di-n-butylphth...	1.268	1.252	1.287	1.182	1.080	1.087	1.006	1.166	9.38	
75) C	Fluoranthene	1.315	1.225	1.203	1.103	1.022	1.007	0.958	1.119	11.81	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.732	0.626	0.532	0.603	0.432		0.585		19.04	
78)	Pyrene	1.840	1.777	1.893	1.700	1.509	1.668	1.527	1.702	8.67	
79) S	Terphenyl-d14	1.308	1.226	1.276	1.081	0.955	1.062	0.966	1.125	12.90	
80)	Butylbenzylphth...	0.567	0.624	0.729	0.726	0.669	0.725	0.673	0.673	9.02	
81)	Benzo(a)anthra...	1.539	1.438	1.463	1.328	1.193	1.223	1.142	1.332	11.41	
82)	3,3'-Dichlorob...	0.441	0.442	0.451	0.426	0.392	0.392	0.372	0.416	7.40	
83)	Chrysene	1.504	1.412	1.430	1.369	1.217	1.274	1.207	1.345	8.49	
84)	Bis(2-ethylhex...	0.803	0.851	0.929	0.894	0.790	0.860	0.765	0.842	7.03	
85) c	Di-n-octyl pht...	1.148	1.237	1.363	1.627	1.484	1.501	1.455	1.402	11.75	

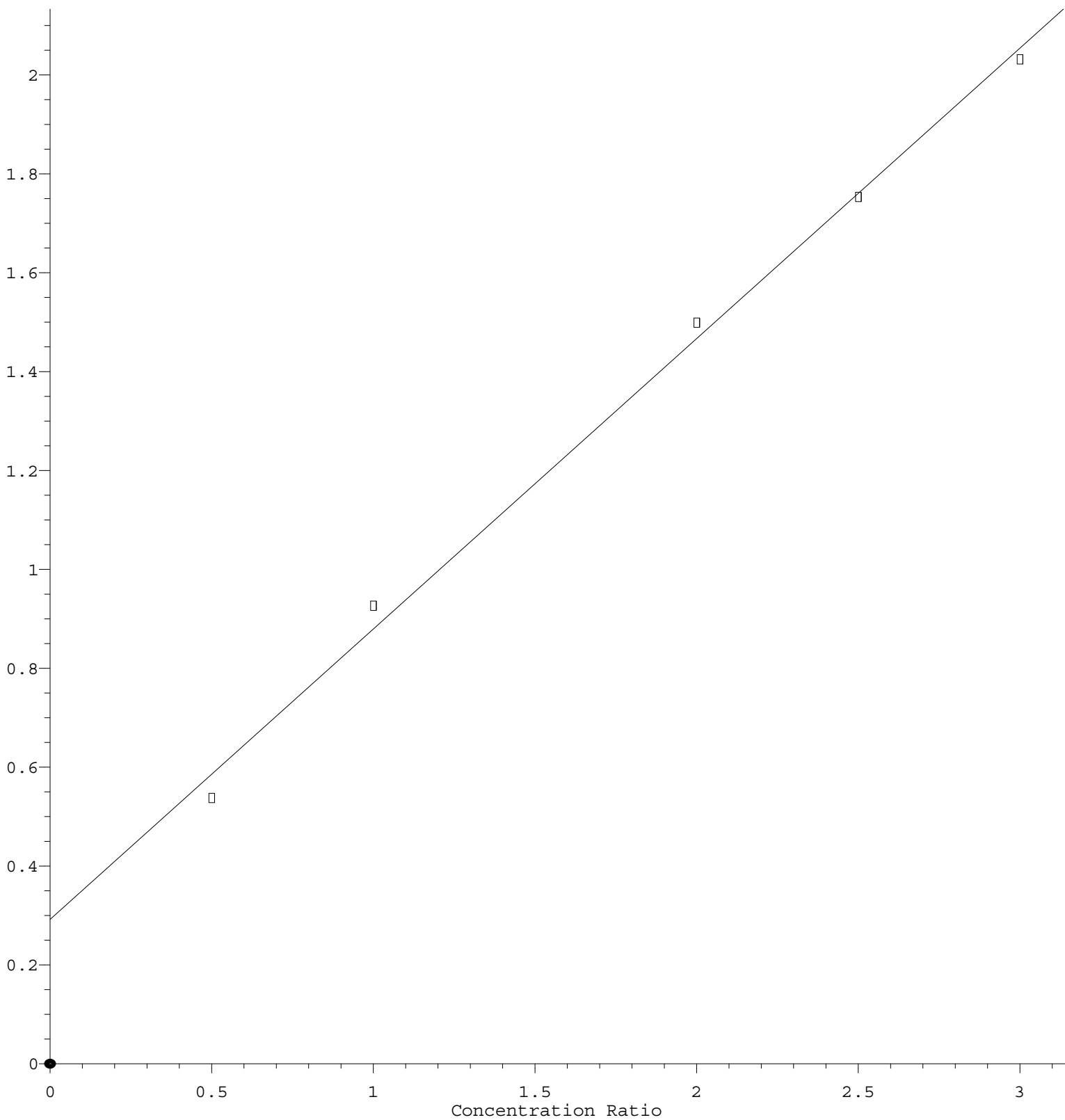
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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	1.210	1.190	1.402	1.240	1.206	1.385	1.285	1.274	6.86	
88)	Benzo(b)fluora...	1.450	1.362	1.365	1.274	1.224	1.285	1.156	1.302	7.54	
89)	Benzo(k)fluora...	1.442	1.343	1.425	1.268	1.116	1.182	1.113	1.270	10.91	
90) C	Benzo(a)pyrene	1.286	1.230	1.265	1.174	1.094	1.163	1.084	1.185	6.67	
91)	Dibenzo(a,h)an...	0.998	0.982	1.134	1.015	0.974	1.110	1.016	1.033	6.13	
92)	Benzo(g,h,i)pe...	0.955	0.955	1.141	1.003	0.996	1.161	1.081	1.042	8.25	

(#) = Out of Range

Benzaldehyde

Response Ratio



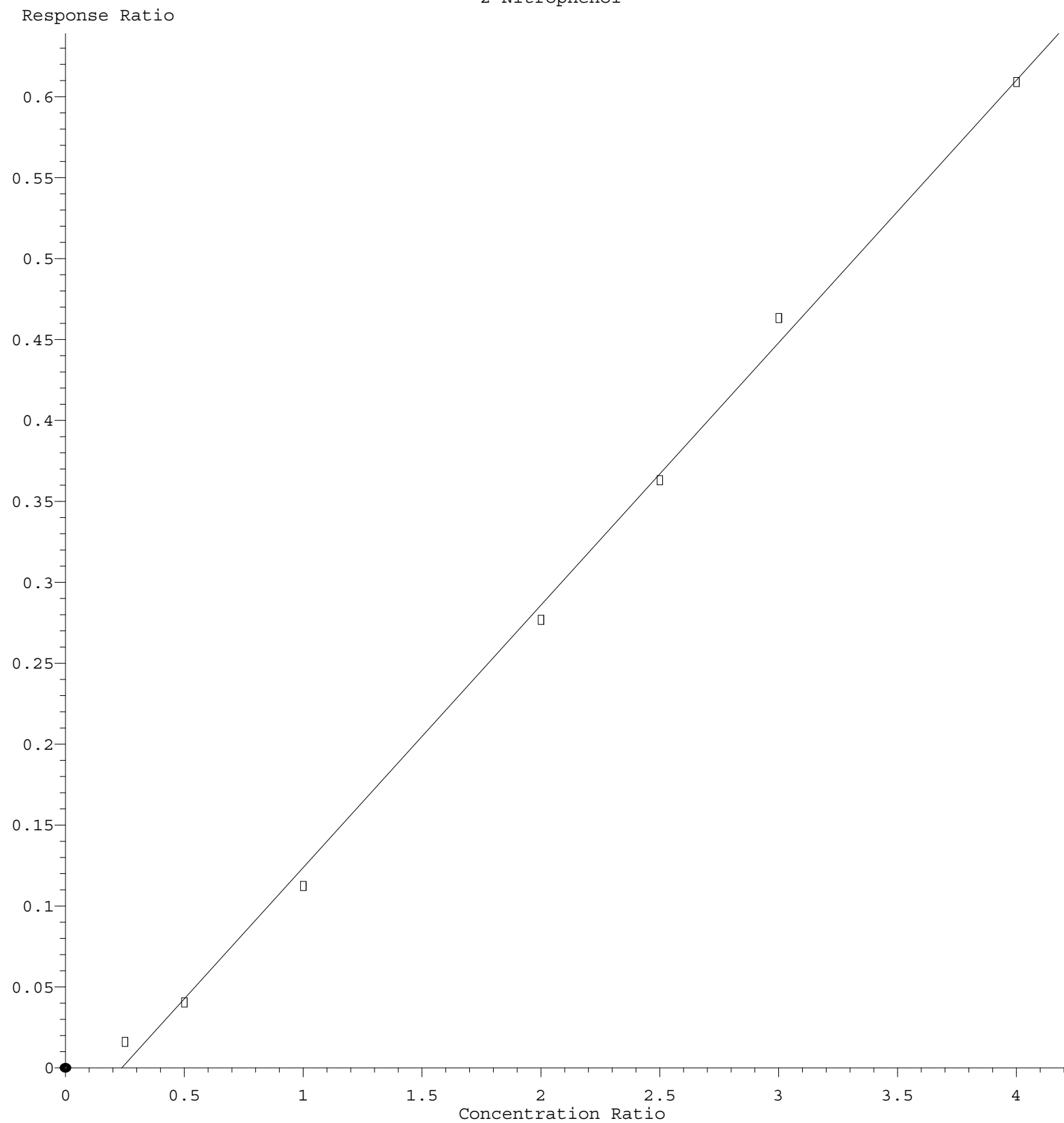
$$\text{Response} = 5.872\text{e-}001 * \text{Amt} + 2.925\text{e-}001$$

Coef of Det (r^2) = 0.995888 Curve Fit: Linear

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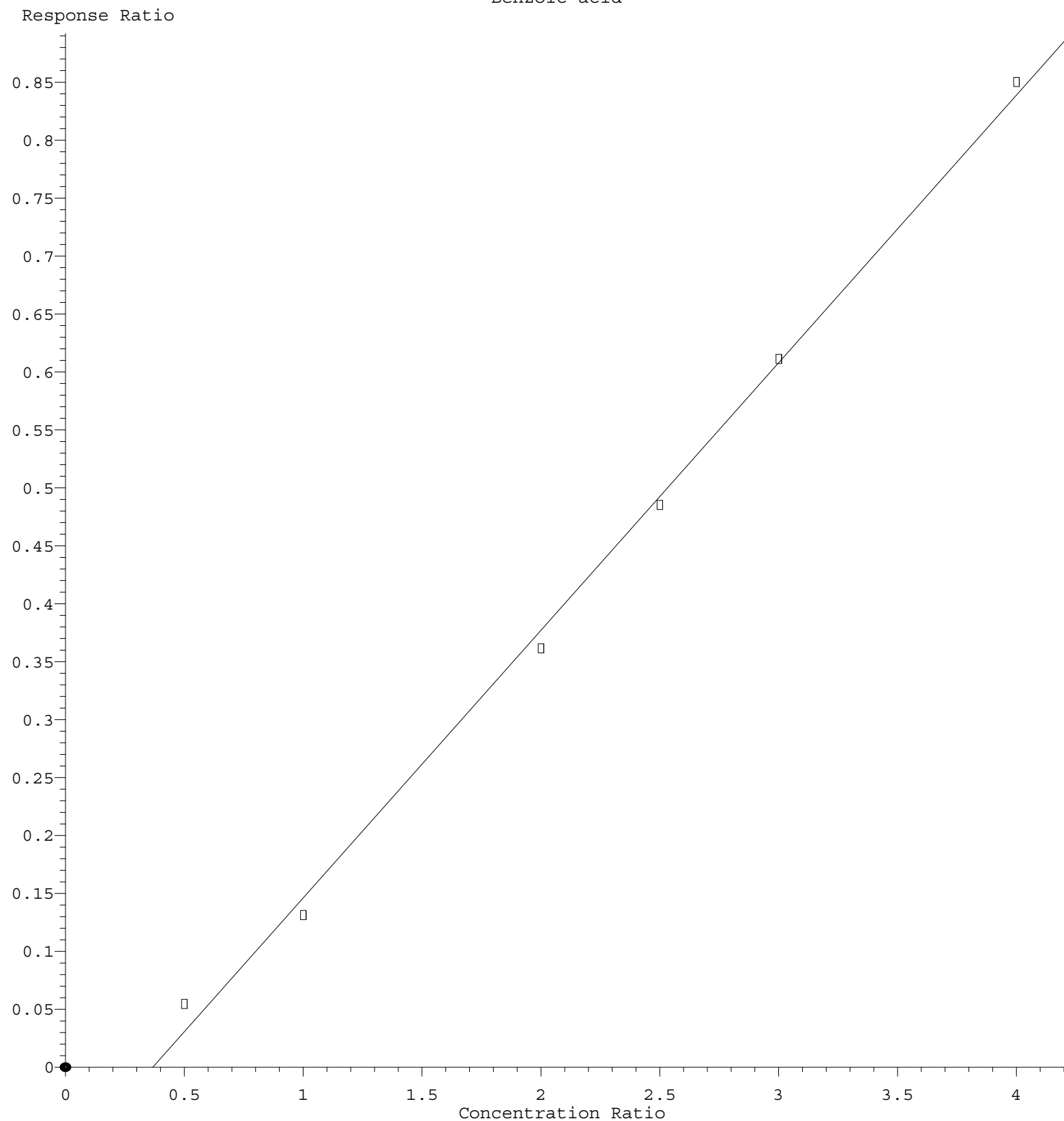
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2-Nitrophenol



Response = $1.623 \times 10^{-1} \times \text{Amt} - 3.848 \times 10^{-2}$
 Coef of Det (r^2) = 0.997831 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF052523.M
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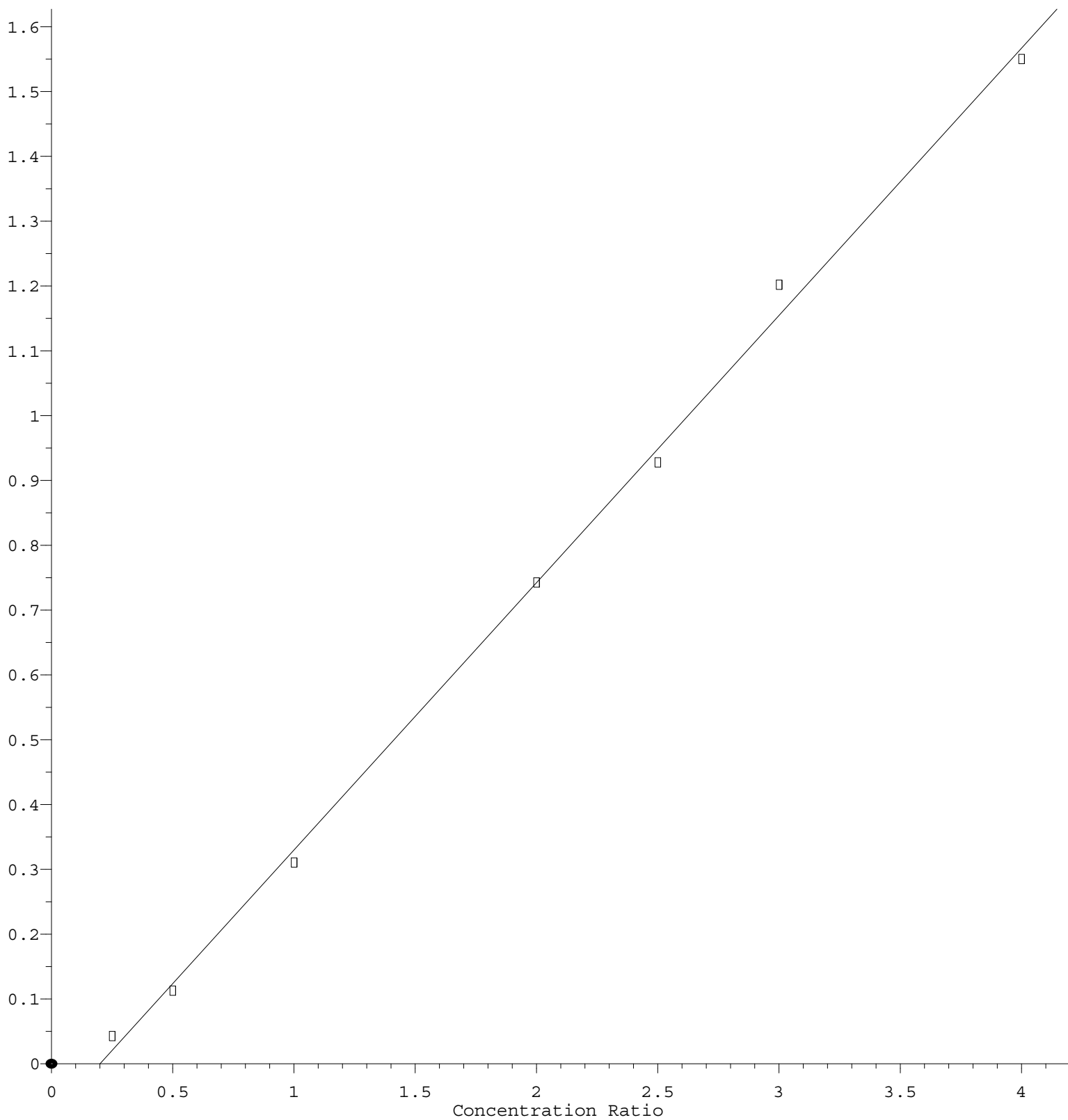
Benzoic acid



Response = 2.310e-001 * Amt - 8.489e-002
 Coef of Det (r^2) = 0.997250 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF052523.M
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2-Nitroaniline

Response Ratio



$$\text{Response} = 4.124\text{e-}001 * \text{Amt} - 8.228\text{e-}002$$

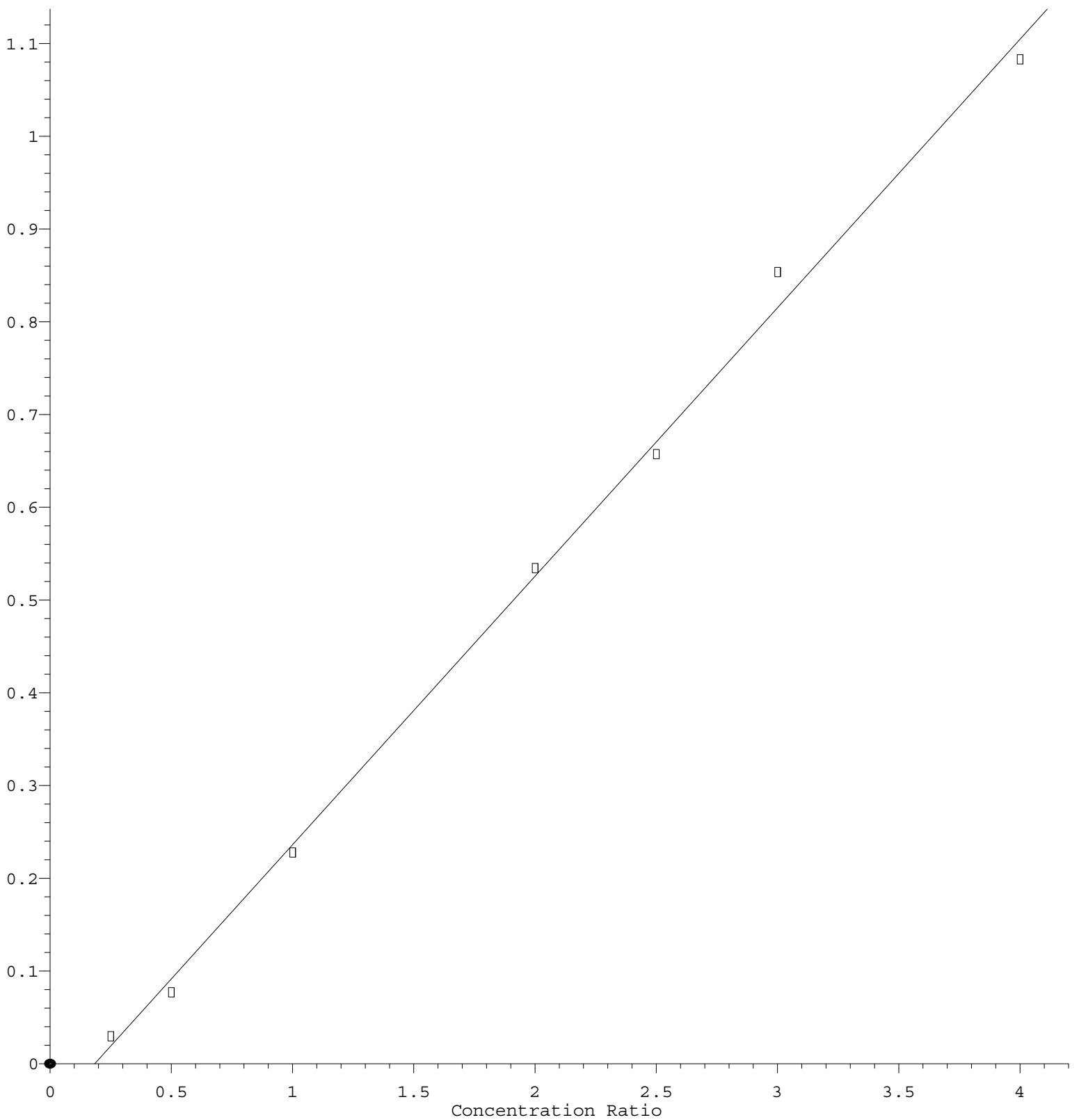
Coef of Det (r^2) = 0.997994 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.895\text{e-}001 * \text{Amt} - 5.330\text{e-}002$$

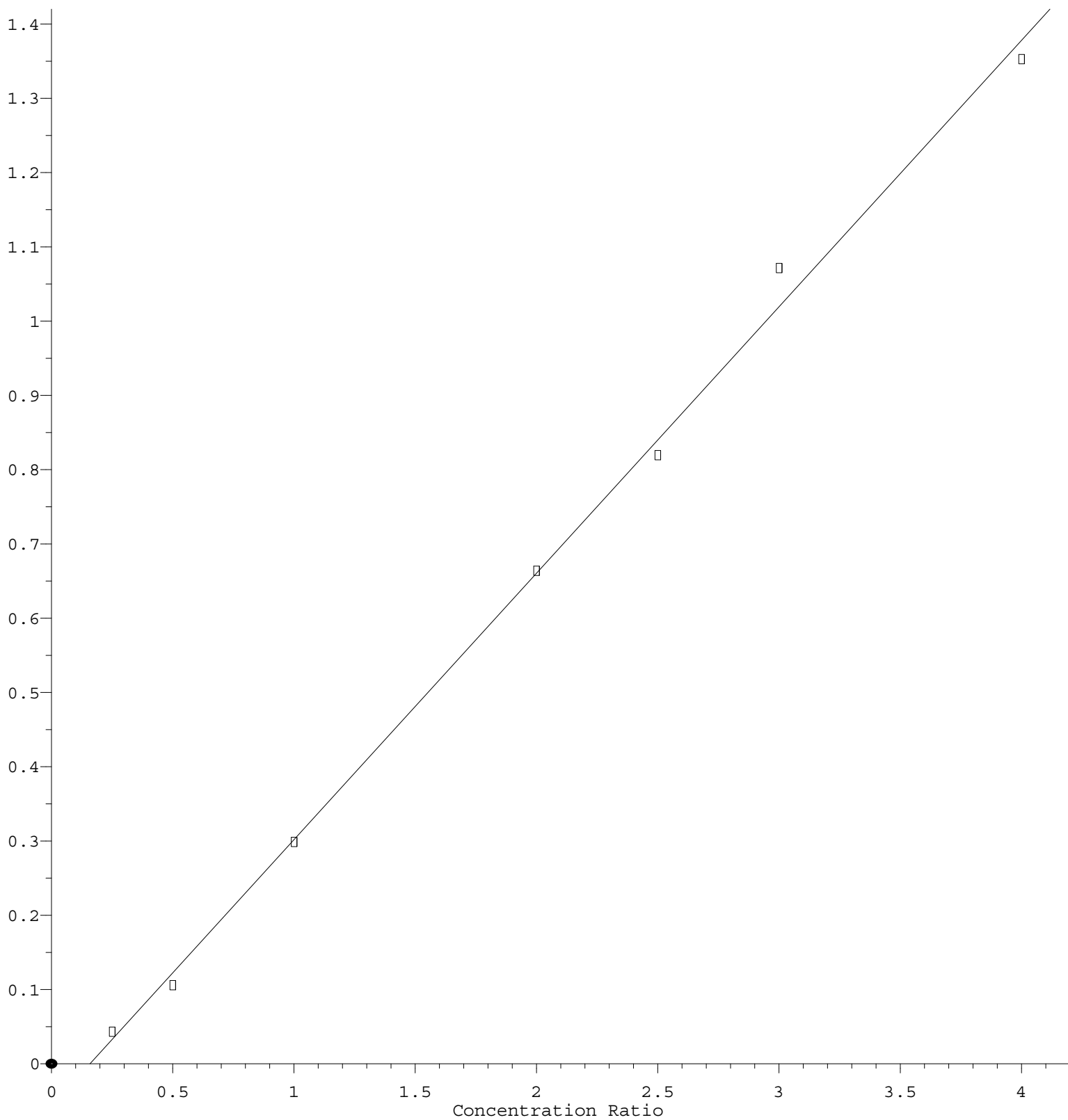
Coef of Det (r^2) = 0.997321 Curve Fit: Linear

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3-Nitroaniline

Response Ratio



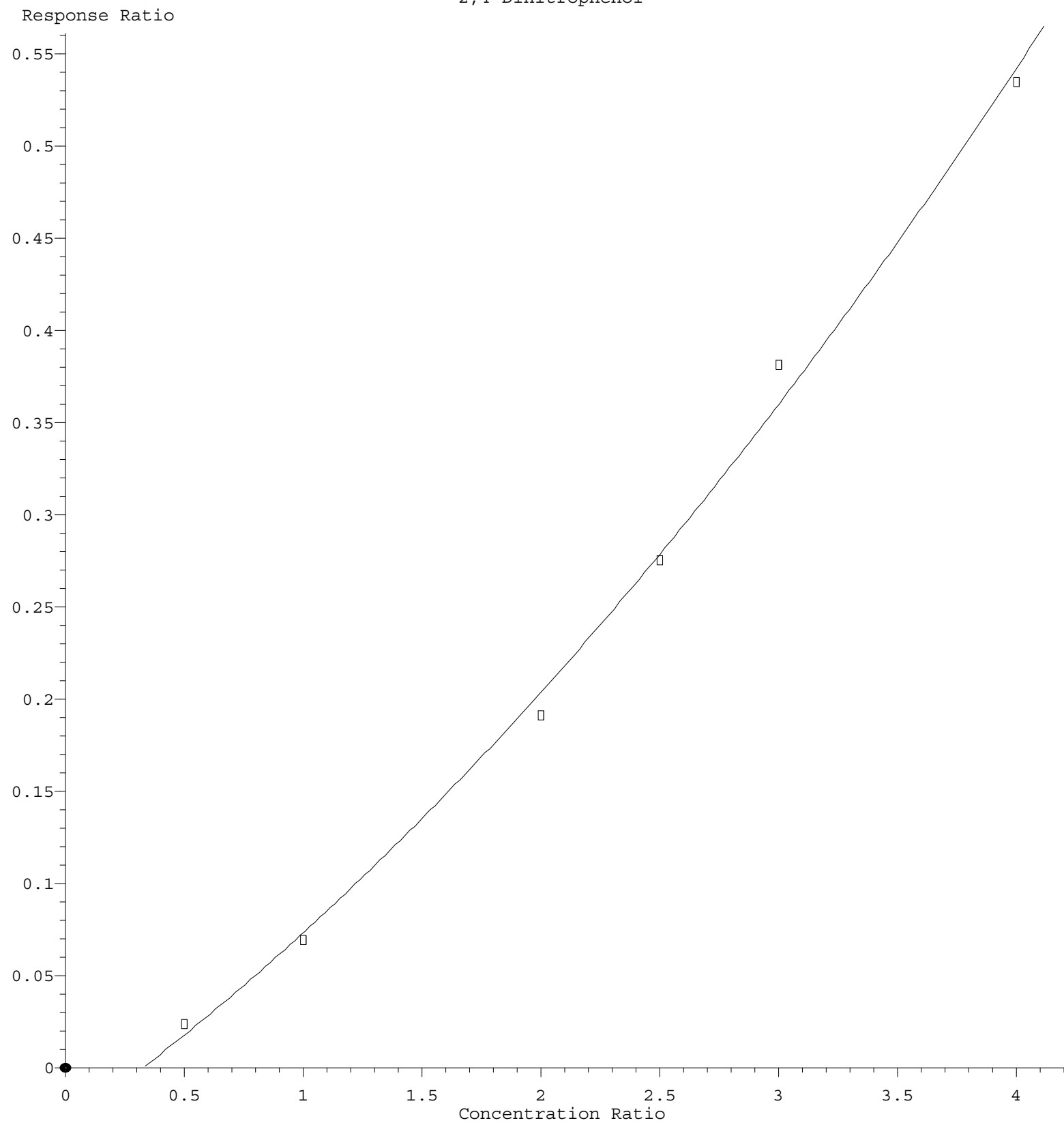
$$\text{Response} = 3.588\text{e-}001 * \text{Amt} - 5.705\text{e-}002$$

Coef of Det (r^2) = 0.997183 Curve Fit: Linear

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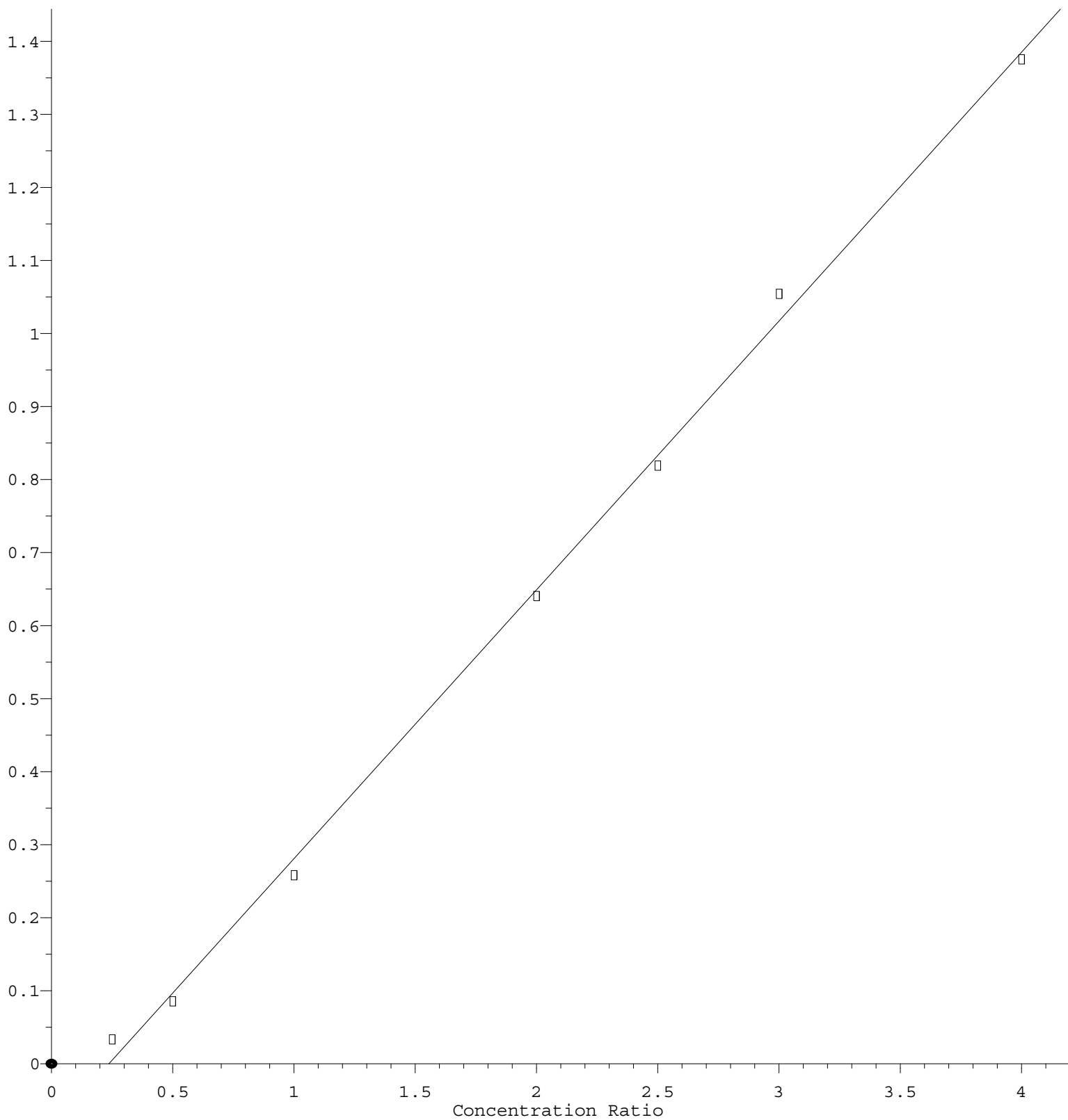
2,4-Dinitrophenol



$R = 1.294e-002 A^2 + 9.156e-002 A - 3.117e-002$
 Coef of Det (r^2) = 0.996095 Curve Fit: Quadratic
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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.681\text{e-}001 * \text{Amt} - 8.735\text{e-}002$$

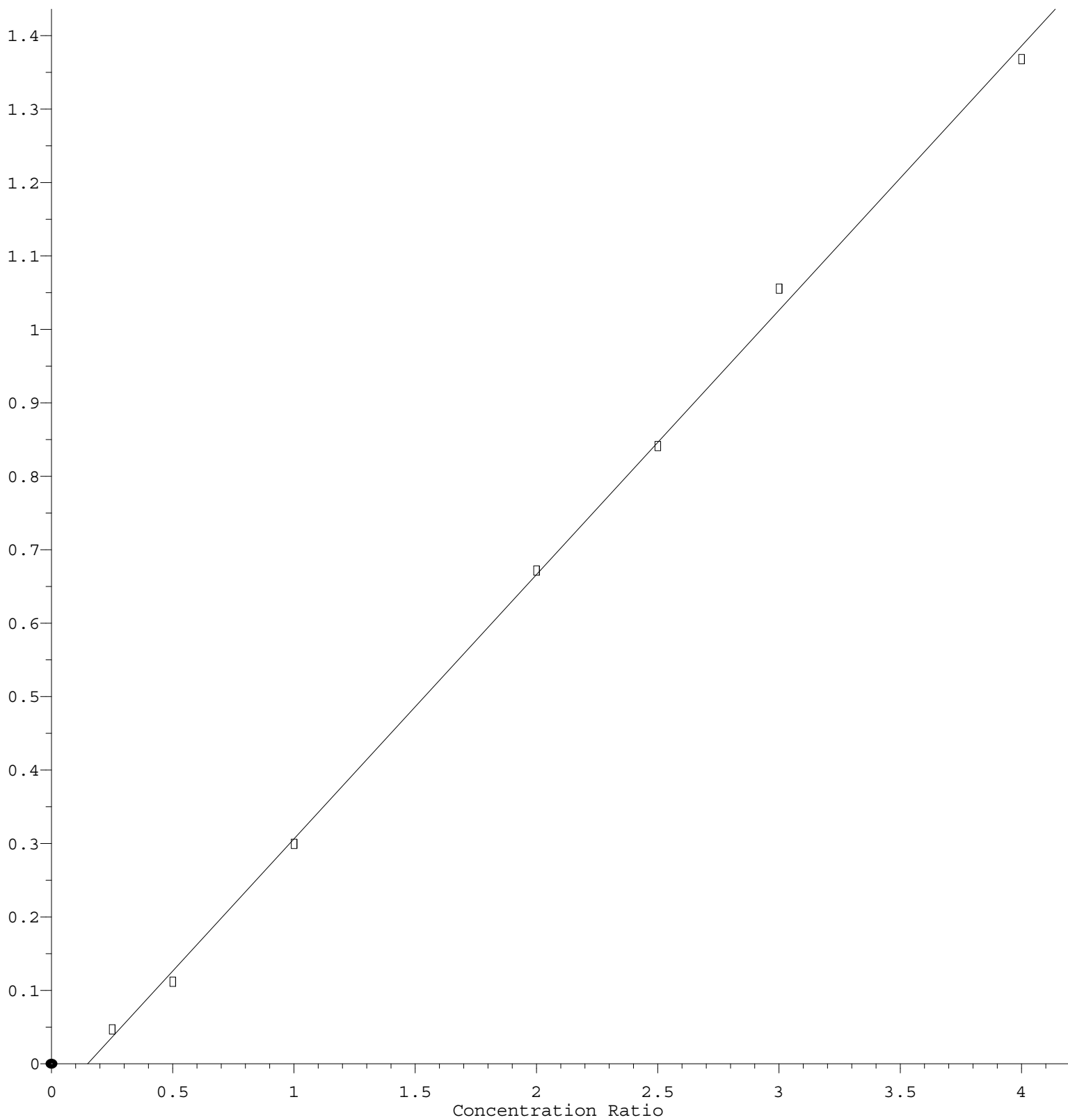
Coef of Det (r^2) = 0.997941 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



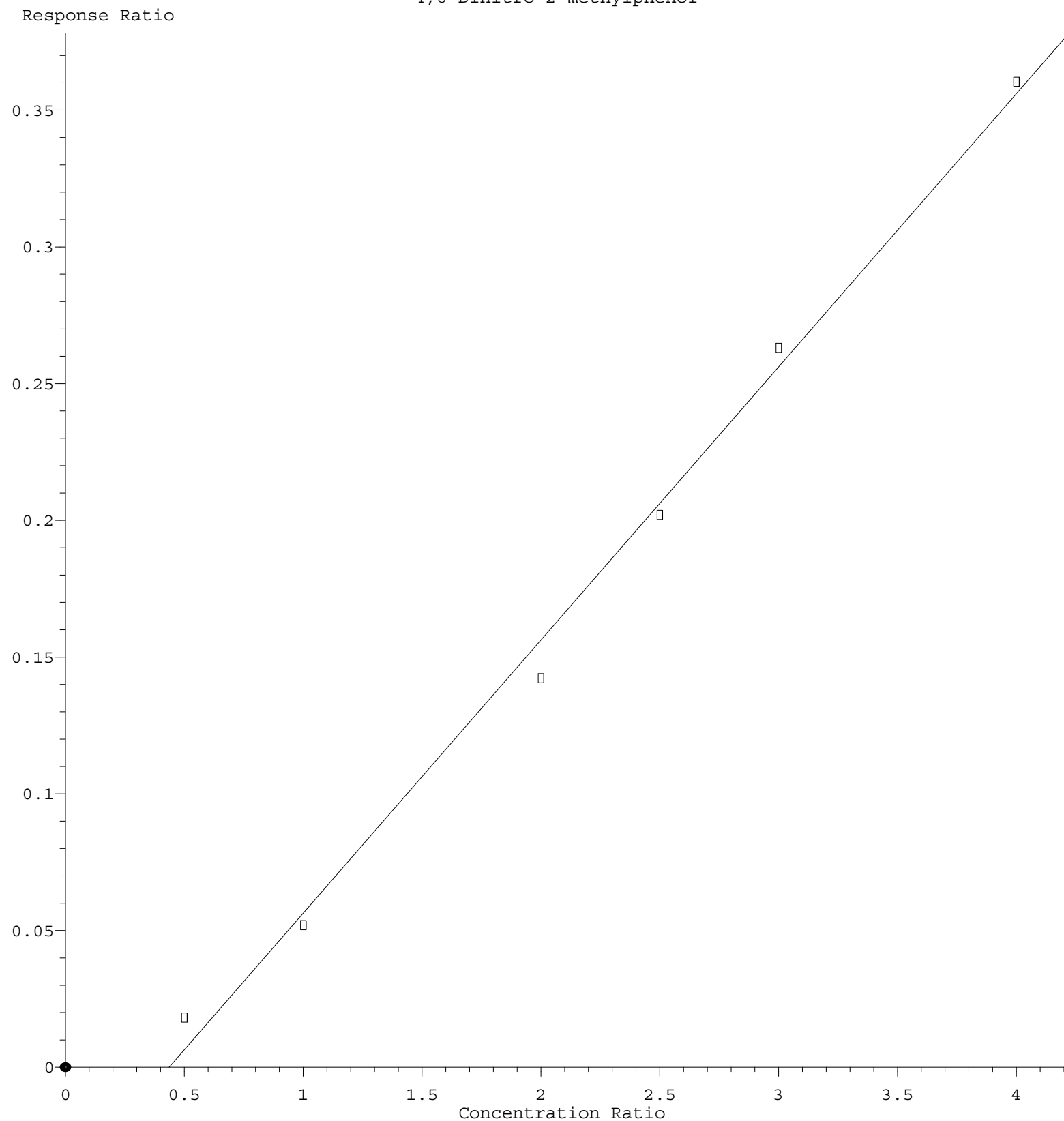
$$\text{Response} = 3.600\text{e-}001 * \text{Amt} - 5.373\text{e-}002$$

Coef of Det (r^2) = 0.998918 Curve Fit: Linear

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4,6-Dinitro-2-methylphenol



Response = $9.992 \times 10^{-2} \times \text{Amt} - 4.352 \times 10^{-2}$
 Coef of Det (r^2) = 0.994778 Curve Fit: Linear
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