

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF082625.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Aug 26 16:30:52 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF143585.D 5 =BF143586.D 10 =BF143587.D 20 =BF143588.D 40 =BF143589.D 50 =BF143590.D 60 =BF143591.D 80 =BF143592.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.606	0.579	0.592	0.571	0.546	0.570	0.561	0.575	3.46	
3)	Pyridine	1.218	1.341	1.525	1.504	1.491	1.540	1.487	1.444	8.25	
4)	n-Nitrosodimet...		0.669	0.683	0.695	0.690	0.703	0.682	0.687	1.71	
5) S	2-Fluorophenol	1.245	1.223	1.243	1.152	1.114	1.151	1.098	1.175	5.20	
6)	Aniline	2.116	2.036	2.151	1.980	1.970	2.048	1.921	2.032	4.04	
7) S	Phenol-d6	1.584	1.519	1.521	1.422	1.373	1.424	1.346	1.455	6.00	
8)	2-Chlorophenol	1.255	1.263	1.286	1.239	1.207	1.259	1.195	1.243	2.61	
9)	Benzaldehyde		1.075	1.018	1.209	1.011	1.162		1.095	8.00	
10) C	Phenol	1.726	1.685	1.720	1.584	1.558	1.617	1.536	1.632	4.78	
11)	bis(2-Chloroet...	1.358	1.306	1.341	1.211	1.157	1.224	1.158	1.251	6.73	
12)	1,3-Dichlorobe...	1.574	1.506	1.524	1.378	1.339	1.377	1.298	1.428	7.37	
13) C	1,4-Dichlorobe...	1.615	1.517	1.536	1.400	1.328	1.388	1.296	1.440	8.18	
14)	1,2-Dichlorobe...	1.494	1.423	1.457	1.312	1.280	1.328	1.266	1.366	6.65	
15)	Benzyl Alcohol		1.074	1.135	1.088	1.074	1.117	1.057	1.091	2.71	
16)	2,2'-oxybis(1-...	2.622	2.449	2.481	2.223	2.120	2.217	2.050	2.309	9.11	
17)	2-Methylphenol	1.099	1.076	1.105	1.031	1.017	1.059	1.000	1.055	3.86	
18)	Hexachloroethane	0.451	0.452	0.484	0.460	0.449	0.471	0.436	0.458	3.40	
19) P	n-Nitroso-di-n...	0.959	0.979	0.951	0.968	0.876	0.860	0.921	0.863	0.922	5.35
20)	3+4-Methylphenols			1.389	1.411	1.288	1.227	1.268	1.195	1.296	6.69
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.513	0.484	0.479	0.437	0.418	0.423	0.399	0.450	9.28	
23) S	Nitrobenzene-d5		0.207	0.260	0.293	0.300	0.315	0.307	0.280	14.57	
24)	Nitrobenzene	0.217	0.250	0.305	0.330	0.329	0.342	0.331	0.300	15.99	
25)	Isophorone	0.694	0.662	0.683	0.645	0.628	0.654	0.623	0.656	4.02	
26) C	2-Nitrophenol	0.043	0.056	0.080	0.114	0.130	0.142	0.142	0.101	40.76#	
27)	2,4-Dimethylph...	0.292	0.280	0.297	0.285	0.282	0.286	0.274	0.285	2.65	
28)	bis(2-Chloroet...	0.431	0.411	0.424	0.385	0.377	0.386	0.363	0.397	6.40	
29) C	2,4-Dichloroph...	0.257	0.268	0.289	0.284	0.273	0.284	0.269	0.275	4.18	
30)	1,2,4-Trichlor...	0.312	0.297	0.296	0.284	0.275	0.281	0.263	0.287	5.67	
31)	Naphthalene	1.098	1.029	1.031	0.938	0.900	0.909	0.860	0.966	9.00	
32)	Benzoic acid		0.047	0.091	0.126	0.150	0.172	0.168	0.126	38.83	
33)	4-Chloroaniline	0.373	0.352	0.360	0.338	0.325	0.326	0.315	0.341	6.16	
34) C	Hexachlorobuta...	0.199	0.189	0.189	0.177	0.171	0.175	0.165	0.181	6.63	
35)	Caprolactam		0.071	0.078	0.078	0.079	0.083	0.078	0.078	4.87	
36) C	4-Chloro-3-met...	0.282	0.284	0.300	0.288	0.283	0.296	0.278	0.287	2.75	
37)	2-Methylnaphth...	0.727	0.685	0.684	0.615	0.586	0.605	0.565	0.638	9.46	
38)	1-Methylnaphth...	0.694	0.666	0.655	0.599	0.566	0.583	0.548	0.616	9.05	

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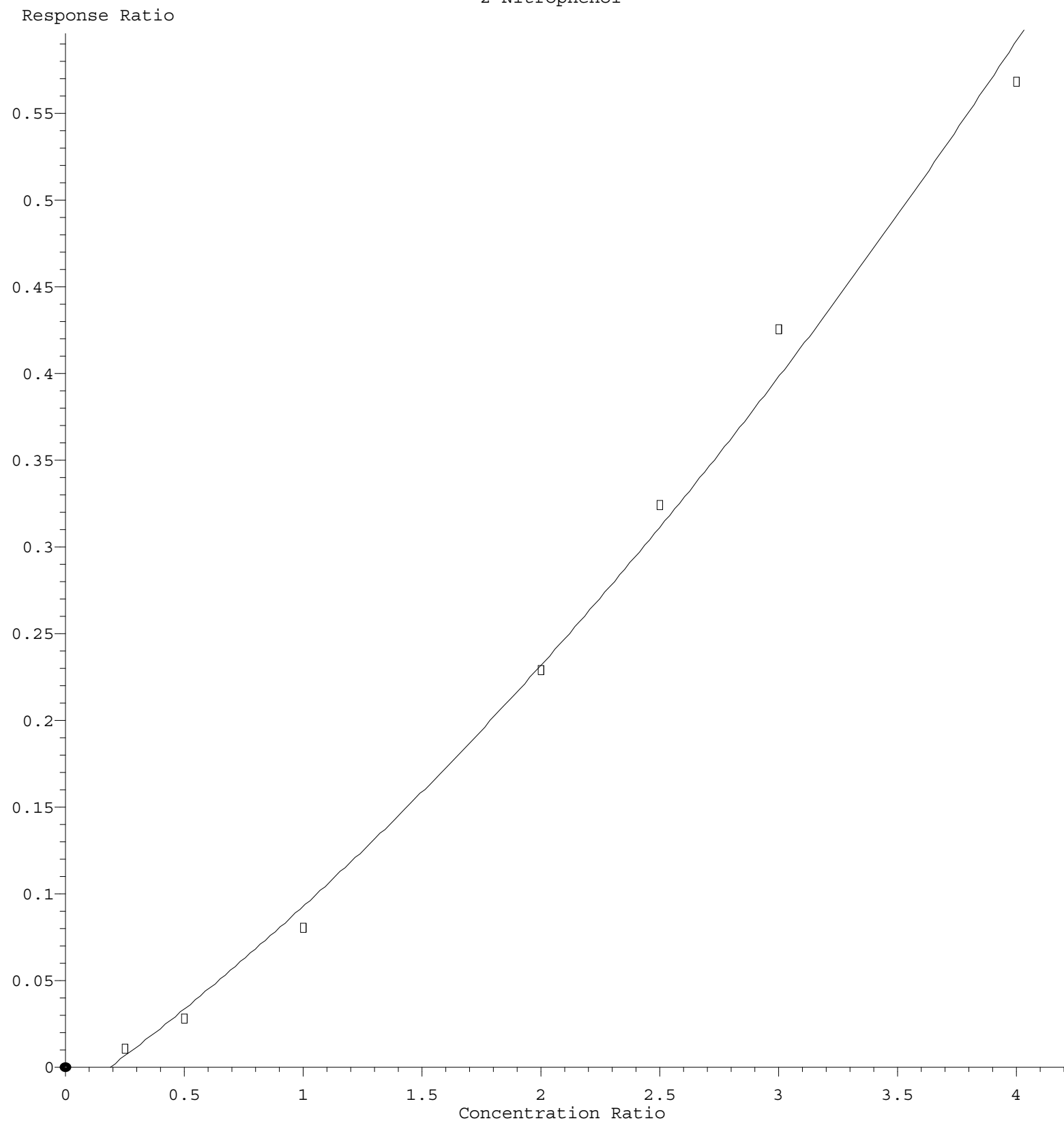
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.576	0.542	0.554	0.510	0.498	0.491	0.470	0.520	7.33	
41) P	Hexachlorocycl...	0.201	0.249	0.264	0.273	0.279	0.270	0.256		11.23	
42) S	2,4,6-Tribromo...	0.130	0.143	0.166	0.162	0.163	0.170	0.162	0.156	9.38	
43) C	2,4,6-Trichlor...	0.285	0.320	0.357	0.374	0.359	0.364	0.348	0.344	9.00	
44)	2,4,5-Trichlor...	0.317	0.321	0.360	0.353	0.356	0.368	0.358	0.347	5.74	
45) S	2-Fluorobiphenyl	1.404	1.290	1.276	1.120	1.041	1.056	1.001	1.170	13.11	
46)	1,1'-Biphenyl	1.588	1.493	1.480	1.358	1.282	1.287	1.226	1.388	9.67	
47)	2-Chloronaphth...	1.210	1.161	1.143	1.086	1.035	1.036	1.004	1.096	6.99	
48)	2-Nitroaniline	0.118	0.147	0.225	0.287	0.307	0.328	0.318	0.247	34.69	
49)	Acenaphthylene	1.772	1.673	1.711	1.557	1.489	1.511	1.451	1.595	7.74	
50)	Dimethylphthalate	1.309	1.266	1.306	1.199	1.180	1.204	1.147	1.230	5.18	
51)	2,6-Dinitrotol...	0.065	0.090	0.145	0.189	0.208	0.226	0.219	0.163	39.69	
52) C	Acenaphthene	1.169	1.103	1.115	1.014	0.969	0.992	0.953	1.045	7.97	
53)	3-Nitroaniline	0.092	0.127	0.194	0.233	0.246	0.262	0.251	0.201	33.23	
54) P	2,4-Dinitrophenol	0.020	0.032	0.050	0.066	0.077	0.081	0.054		45.09	
55)	Dibenzofuran	1.716	1.633	1.648	1.470	1.425	1.451	1.379	1.532	8.54	
56) P	4-Nitrophenol	0.114	0.161	0.189	0.201	0.218	0.209	0.182		21.33	
57)	2,4-Dinitrotol...	0.081	0.120	0.186	0.246	0.276	0.294	0.289	0.213	40.38	
58)	Fluorene	1.368	1.270	1.231	1.089	1.035	1.056	1.002	1.150	12.10	
59)	2,3,4,6-Tetrac...	0.190	0.224	0.273	0.271	0.277	0.287	0.275	0.257	13.91	
60)	Diethylphthalate	1.219	1.198	1.229	1.110	1.097	1.147	1.068	1.153	5.54	
61)	4-Chlorophenyl...	0.656	0.616	0.603	0.533	0.515	0.525	0.489	0.562	11.02	
62)	4-Nitroaniline	0.115	0.143	0.191	0.212	0.229	0.244	0.237	0.196	25.31	
63)	Azobenzene	1.269	1.227	1.262	1.128	1.111	1.126	1.058	1.169	7.11	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.020	0.035	0.058	0.071	0.080	0.080	0.057		42.94	
66) c	n-Nitrosodiphe...	0.694	0.664	0.662	0.632	0.598	0.610	0.593	0.636	6.02	
67)	4-Bromophenyl-...	0.223	0.219	0.228	0.219	0.208	0.211	0.206	0.216	3.74	
68)	Hexachlorobenzene	0.247	0.239	0.242	0.229	0.220	0.226	0.217	0.231	5.05	
69)	Atrazine	0.179	0.184	0.188	0.181	0.182	0.189	0.177	0.183	2.48	
70) C	Pentachlorophenol	0.101	0.126	0.139	0.140	0.145	0.141	0.132		12.49	
71)	Phenanthrene	1.223	1.162	1.127	1.040	0.995	0.994	0.955	1.071	9.38	
72)	Anthracene	1.223	1.168	1.151	1.041	0.998	1.004	0.969	1.079	9.22	
73)	Carbazole	1.078	1.019	0.991	0.892	0.855	0.865	0.830	0.933	10.23	
74)	Di-n-butylphth...	0.961	0.968	1.013	0.923	0.925	0.968	0.893	0.950	4.15	
75) C	Fluoranthene	1.176	1.101	1.065	0.897	0.862	0.901	0.842	0.978	13.62	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.598	0.654	0.538	0.357	0.222	0.394	0.460		35.65	
78)	Pyrene	1.722	1.768	1.810	1.609	1.687	1.613	1.507	1.674	6.25	
79) S	Terphenyl-d14	1.199	1.213	1.221	1.044	1.080	1.053	0.992	1.115	8.45	
80)	Butylbenzylphth...	0.211	0.276	0.386	0.456	0.455	0.513	0.490	0.398	28.68	
81)	Benzo(a)anthra...	1.365	1.276	1.288	1.257	1.216	1.220	1.186	1.258	4.73	
82)	3,3'-Dichlorob...	0.271	0.339	0.373	0.340	0.334	0.367	0.337		10.77	
83)	Chrysene	1.239	1.174	1.244	1.125	1.129	1.168	1.129	1.173	4.35	
84)	Bis(2-ethylhex...	0.285	0.397	0.529	0.632	0.580	0.637	0.632	0.528	25.91	
85) c	Di-n-octyl pht...	0.564	0.840	1.167	1.128	1.179	1.223	1.017		25.62	

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		-----ISTD-----								
86) I	Perylene-d12									
87)	Indeno(1,2,3-c...	1.127	1.316	1.462	1.429	1.401	1.430	1.359	1.361	8.36
88)	Benzo(b)fluora...	1.354	1.208	1.131	1.045	1.008	1.184	1.069	1.143	10.35
89)	Benzo(k)fluora...	1.169	1.128	1.165	1.061	1.028	0.982	0.947	1.068	8.28
90) C	Benzo(a)pyrene	1.007	0.994	1.034	1.032	0.989	1.030	0.982	1.010	2.20
91)	Dibenzo(a,h)an...	0.980	1.093	1.191	1.154	1.127	1.163	1.089	1.114	6.25
92)	Benzo(g,h,i)pe...	0.935	1.071	1.154	1.148	1.148	1.157	1.106	1.103	7.31

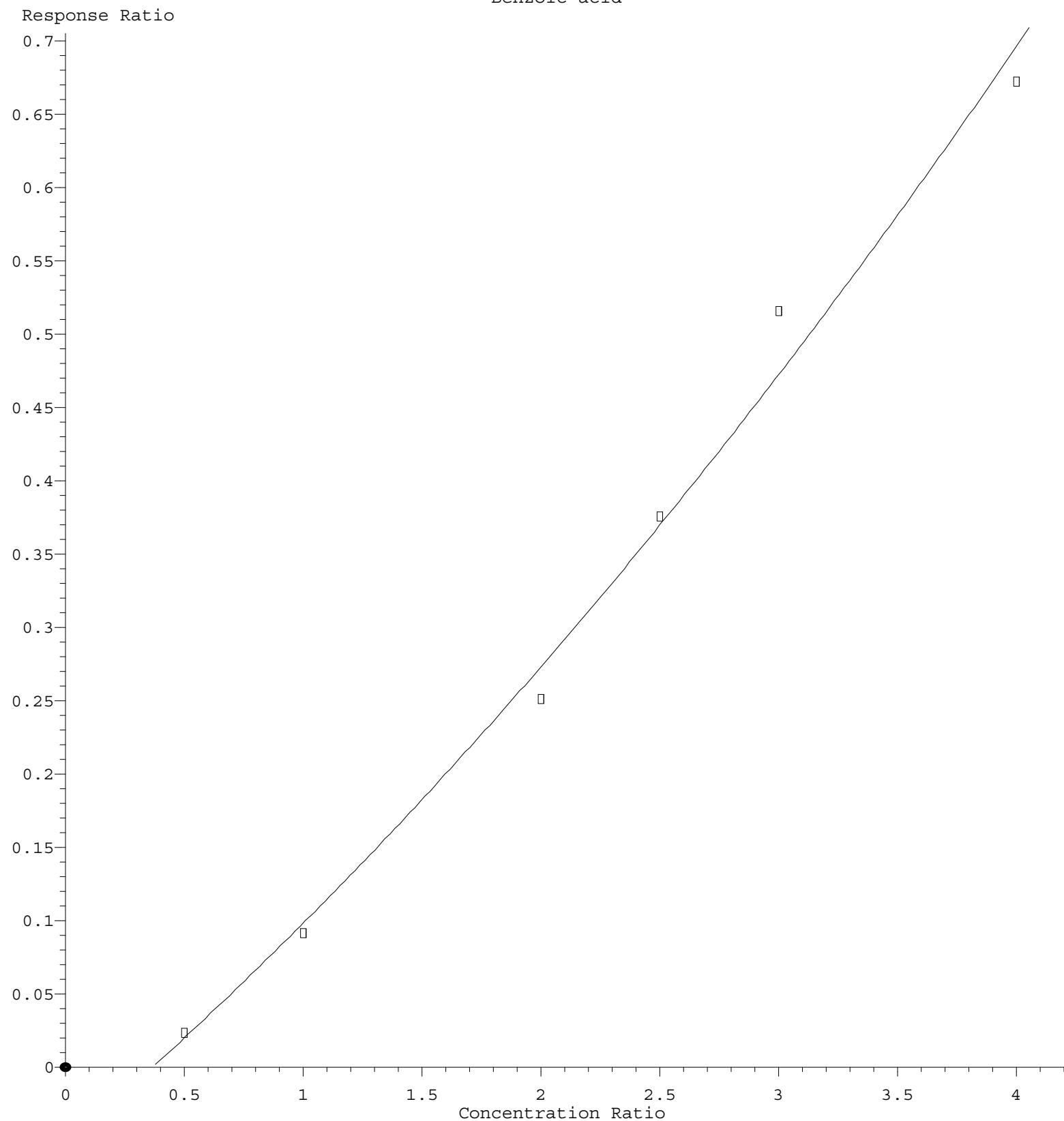
(#) = Out of Range

2-Nitrophenol



$R = 1.371e-002 A^2 + 9.780e-002 A - 1.872e-002$
 Coef of Det (r^2) = 0.995336 Curve Fit: Quadratic w(1/a)
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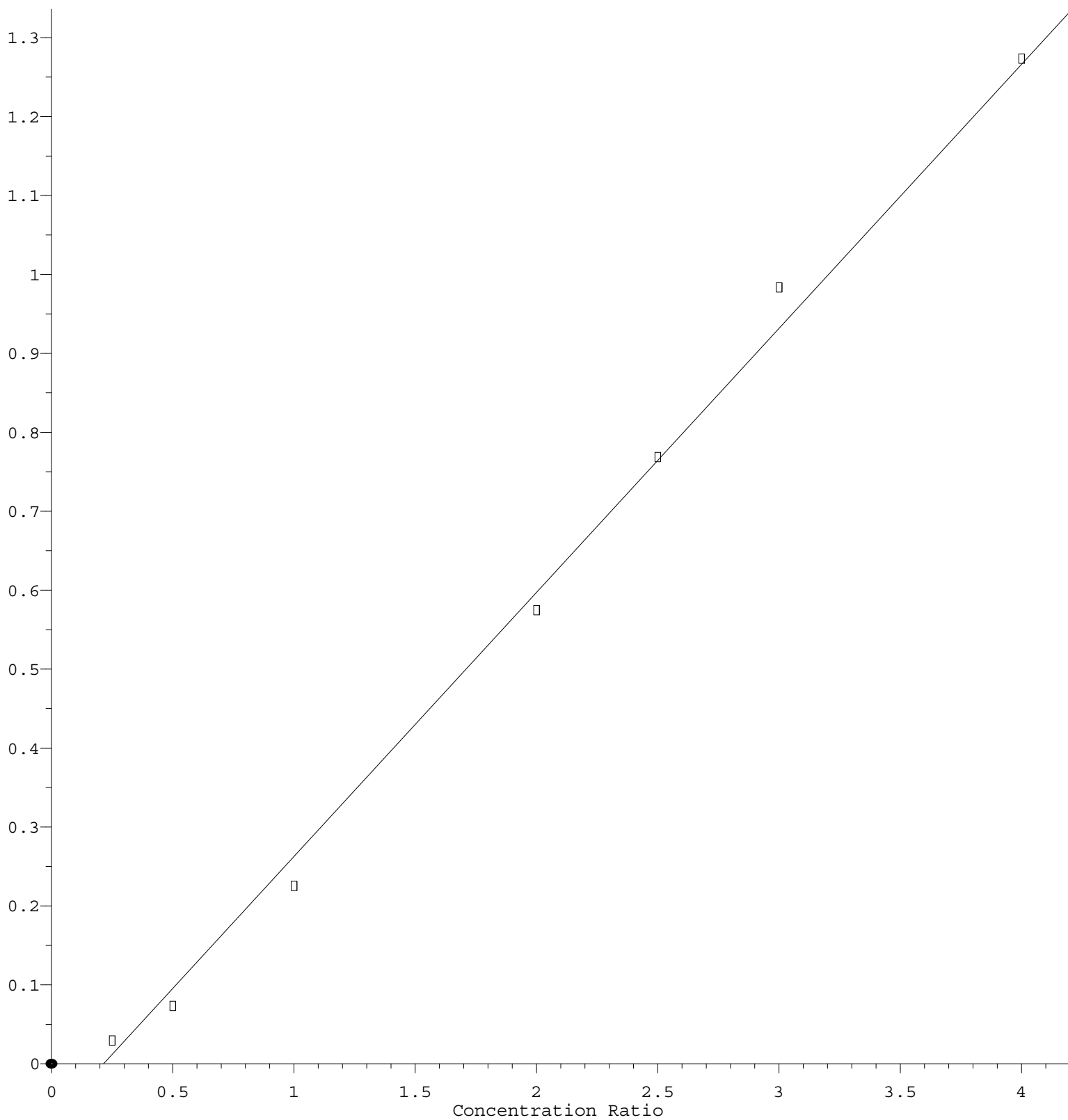
Benzoic acid



$R = 1.220e-002 A^2 + 1.383e-001 A - 5.221e-002$
 Coef of Det (r^2) = 0.993641 Curve Fit: Quadratic w(1/a)
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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.345\text{e-}001 * \text{Amt} - 7.200\text{e-}002$$

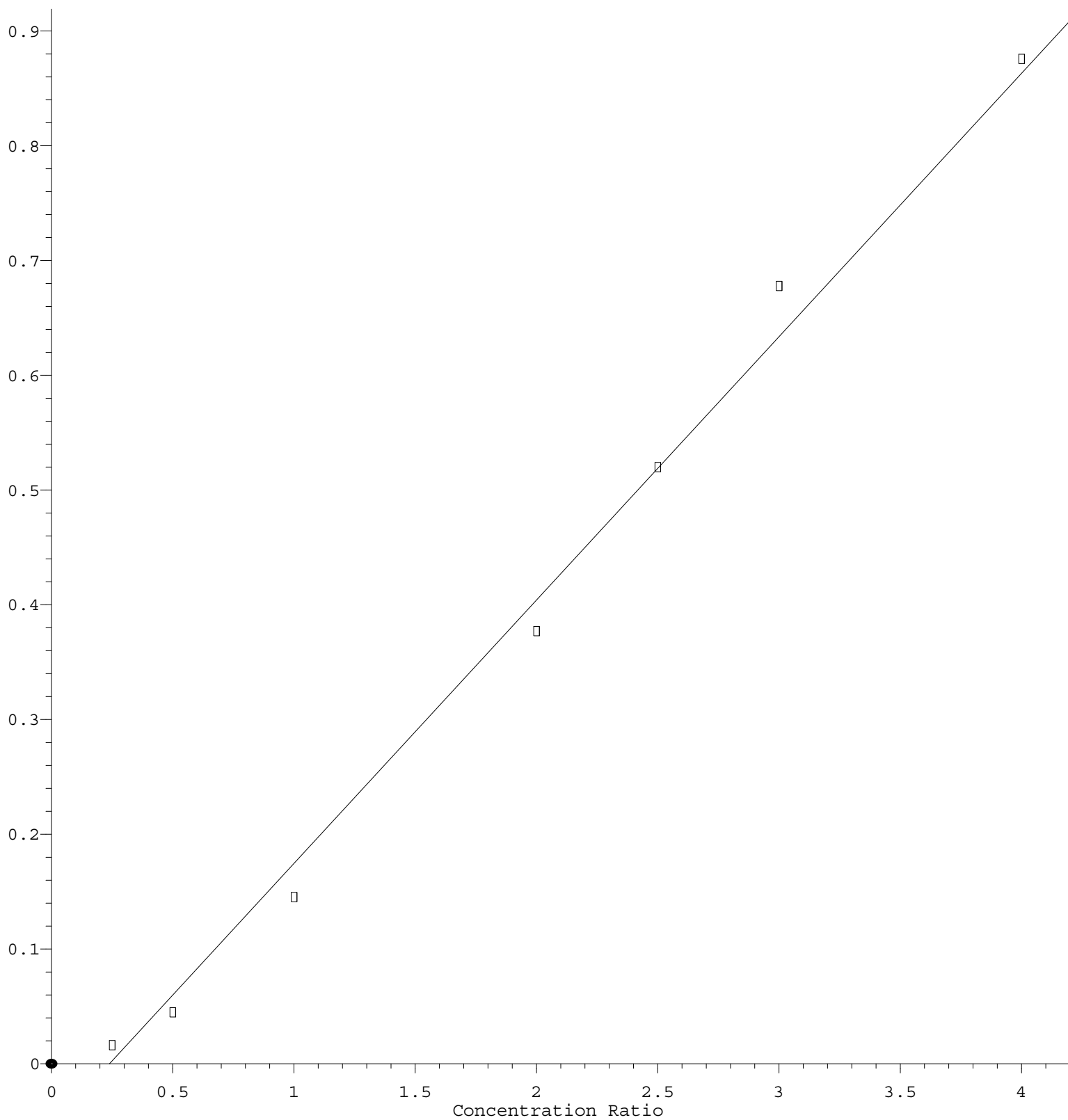
Coef of Det (r^2) = 0.994296 Curve Fit: wlr(1/a)

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.295\text{e-}001 * \text{Amt} - 5.486\text{e-}002$$

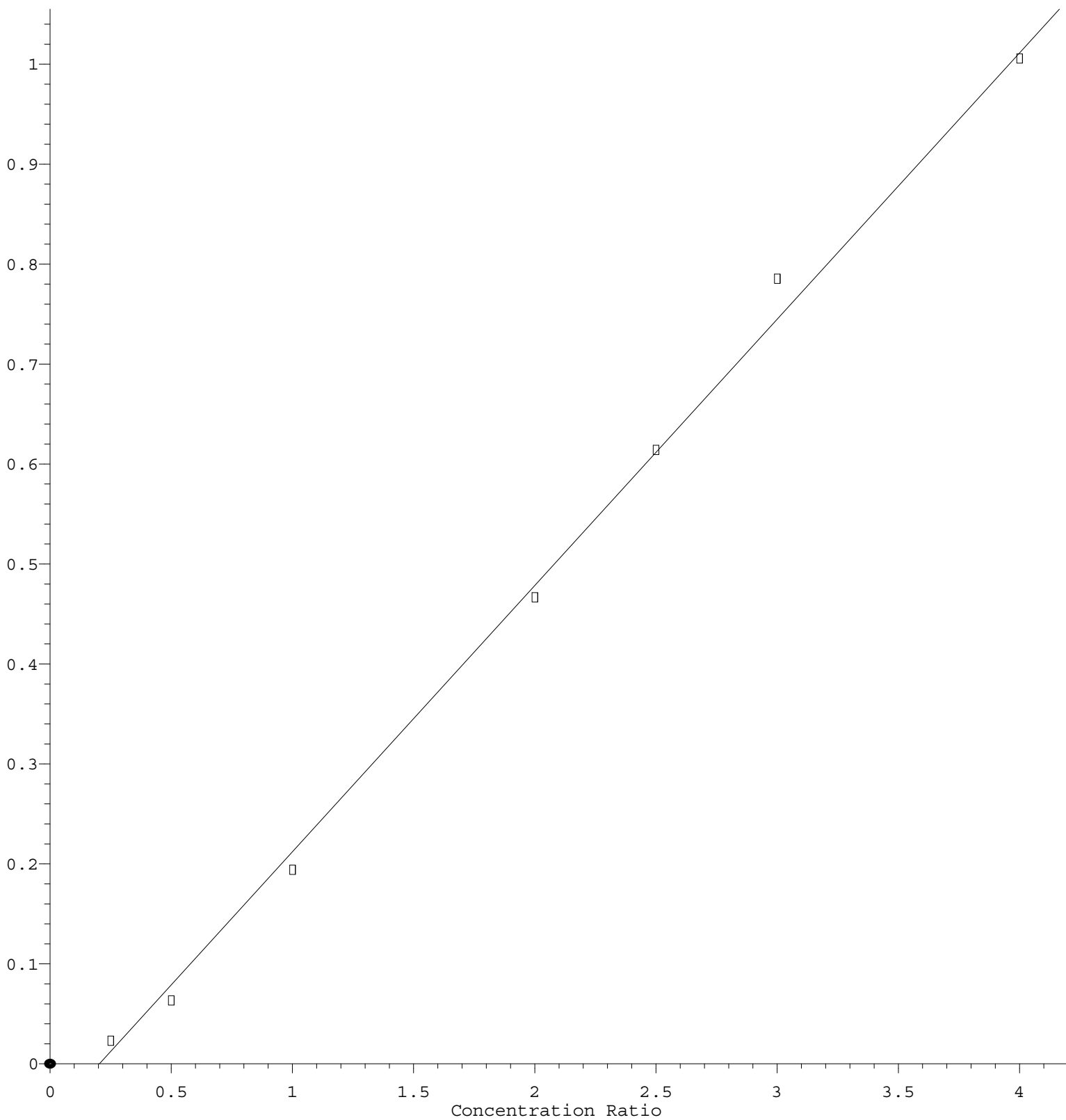
Coef of Det (r^2) = 0.992131 Curve Fit: wlr(1/a)

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3-Nitroaniline

Response Ratio



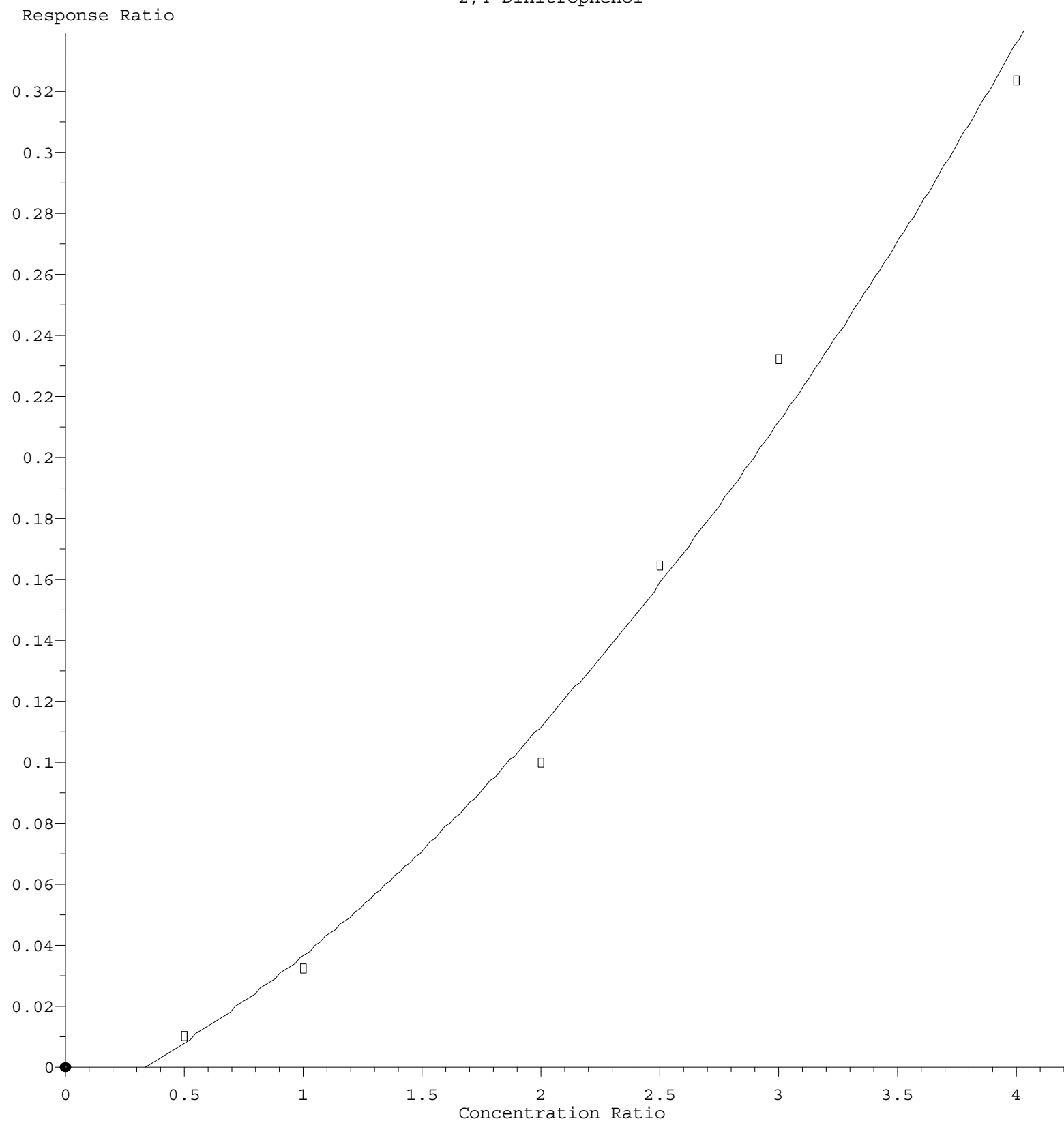
$$\text{Response} = 2.666\text{e-}001 * \text{Amt} - 5.439\text{e-}002$$

Coef of Det (r^2) = 0.996444 Curve Fit: wlr(1/a)

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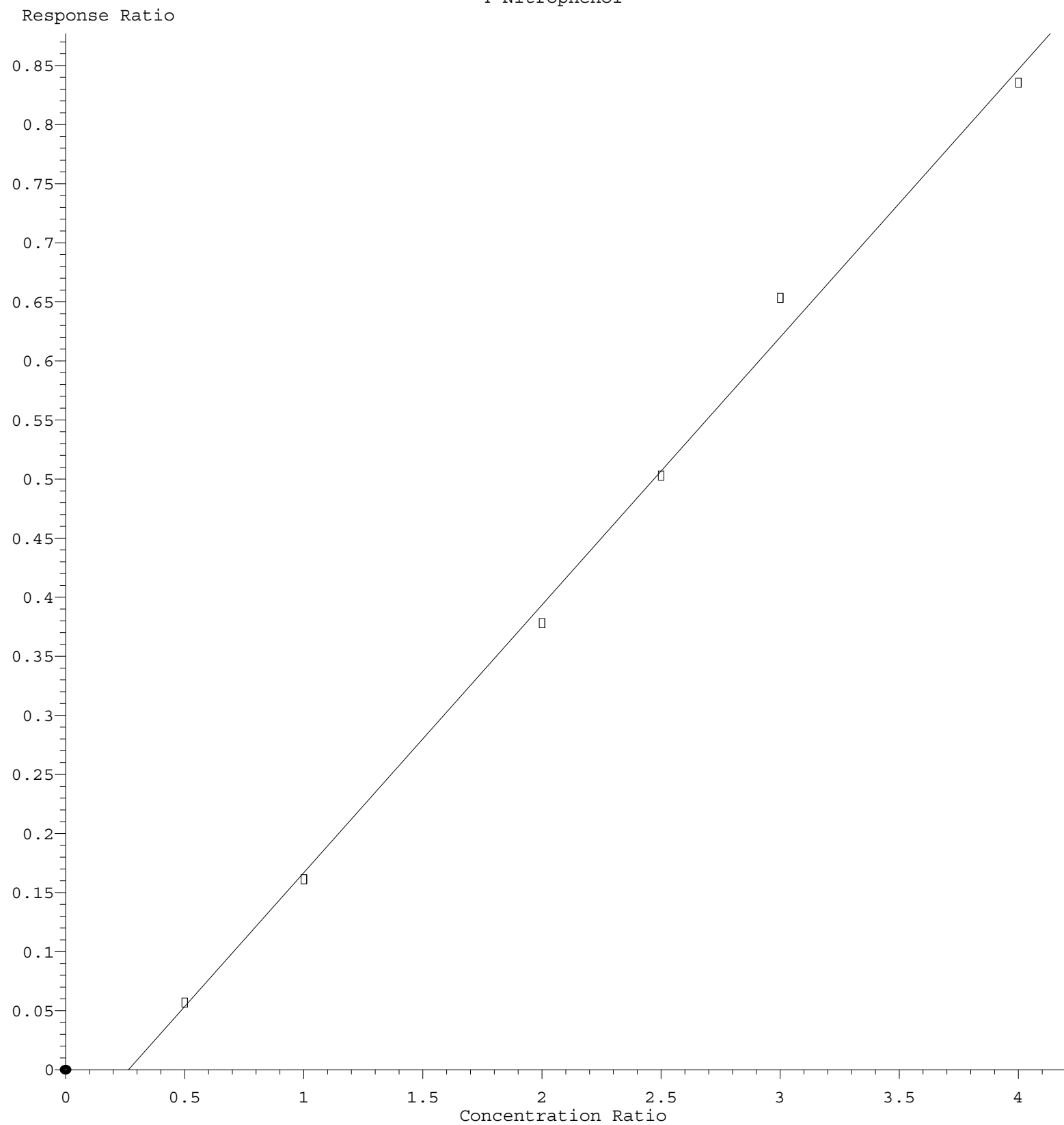
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2,4-Dinitrophenol



$R = 1.227e-002 A^2 + 3.842e-002 A - 1.408e-002$
 Coef of Det (r^2) = 0.992226 Curve Fit: Quadratic w(1/a)
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4-Nitrophenol



$$\text{Response} = 2.267\text{e-}001 * \text{Amt} - 5.992\text{e-}002$$

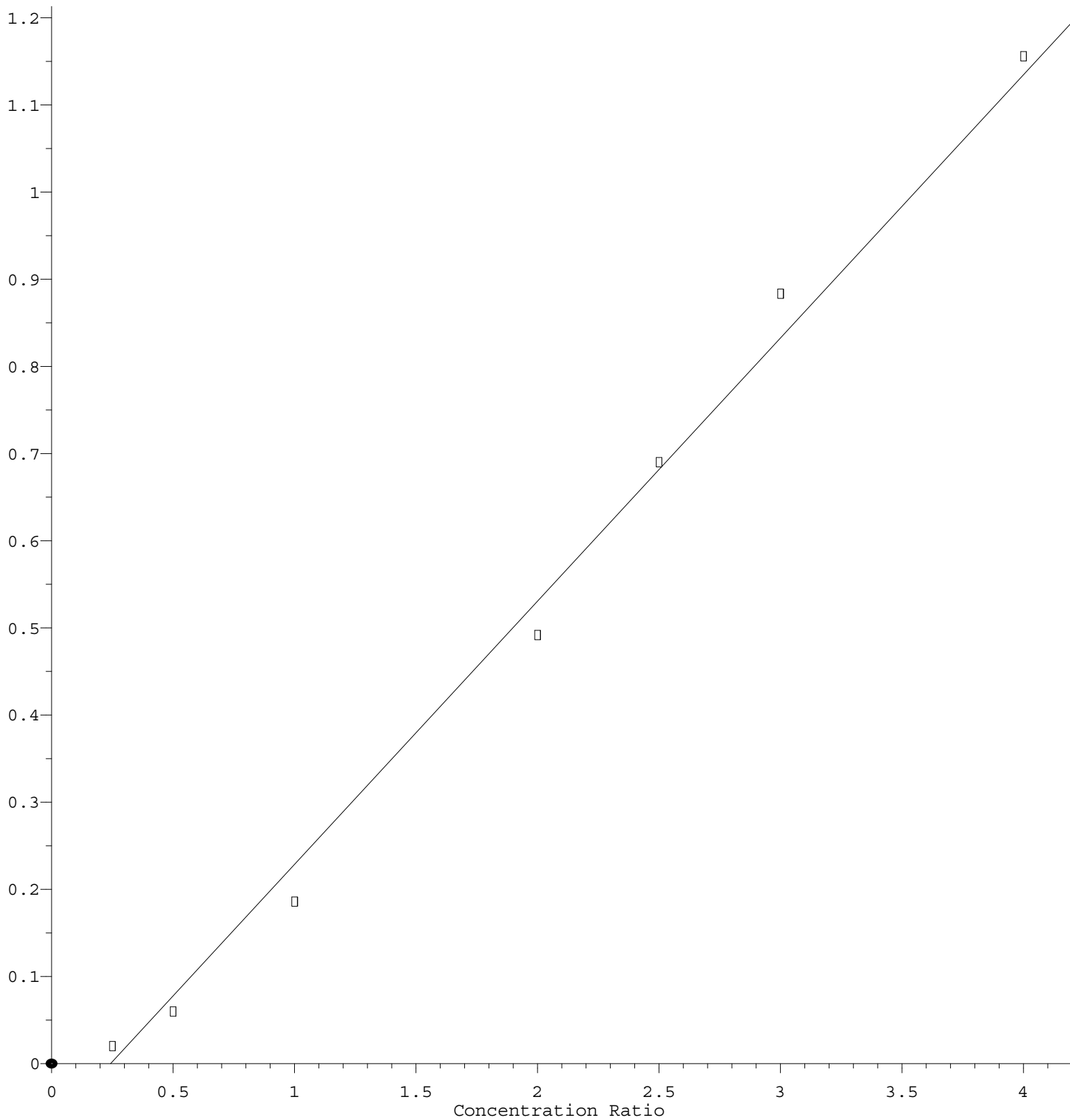
Coef of Det (r^2) = 0.997743 Curve Fit: wlr(1/a)

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.019\text{e-}001 * \text{Amt} - 7.327\text{e-}002$$

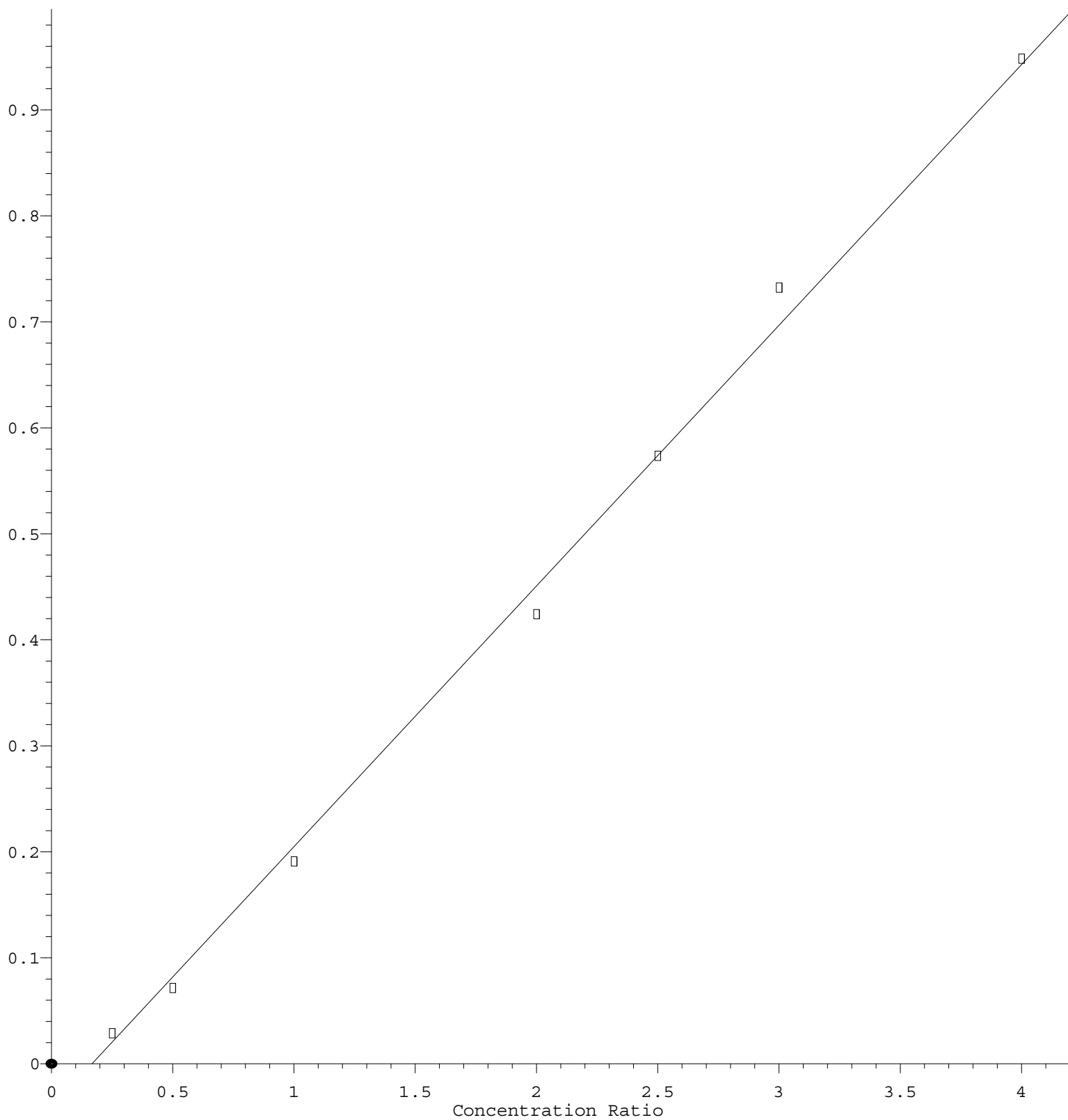
Coef of Det (r^2) = 0.991976 Curve Fit: wlr(1/a)

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4-Nitroaniline

Response Ratio



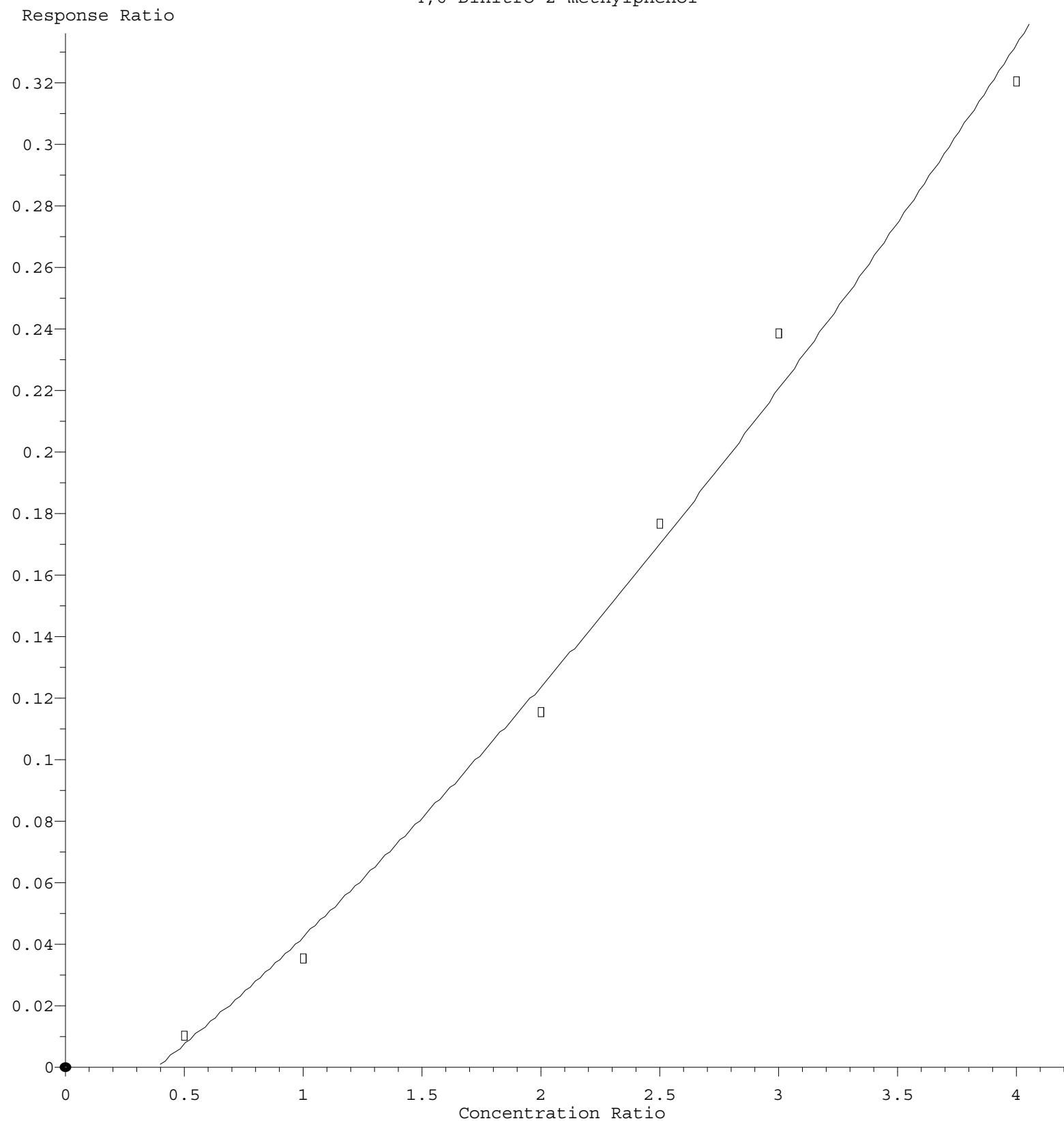
$$\text{Response} = 2.459\text{e-}001 * \text{Amt} - 4.118\text{e-}002$$

Coef of Det (r^2) = 0.996763 Curve Fit: wlr(1/a)

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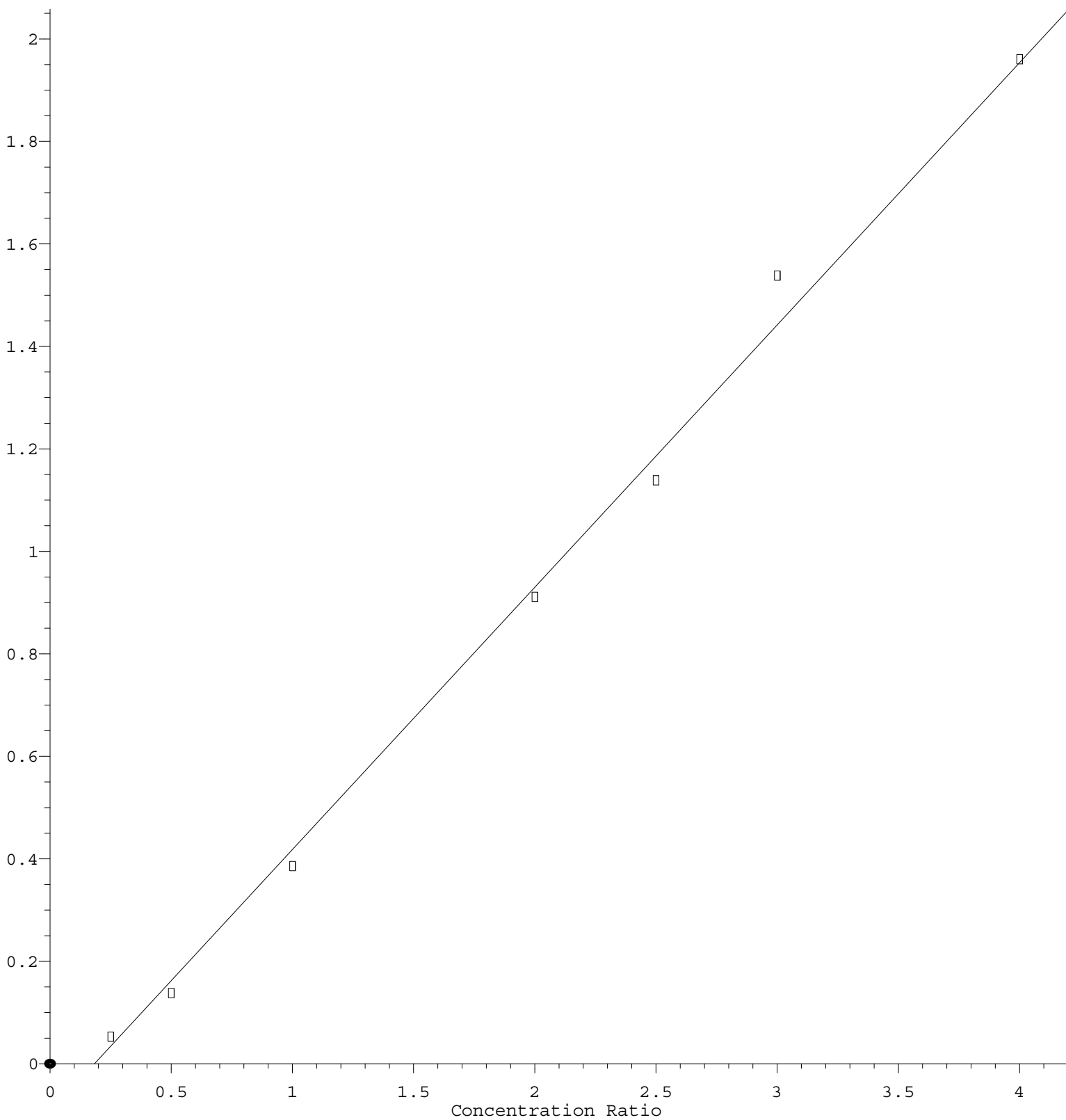
4,6-Dinitro-2-methylphenol



$R = 7.699e-003 A^2 + 5.823e-002 A - 2.355e-002$
 Coef of Det (r^2) = 0.993276 Curve Fit: Quadratic w(1/a)
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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.118\text{e-}001 * \text{Amt} - 9.385\text{e-}002$$

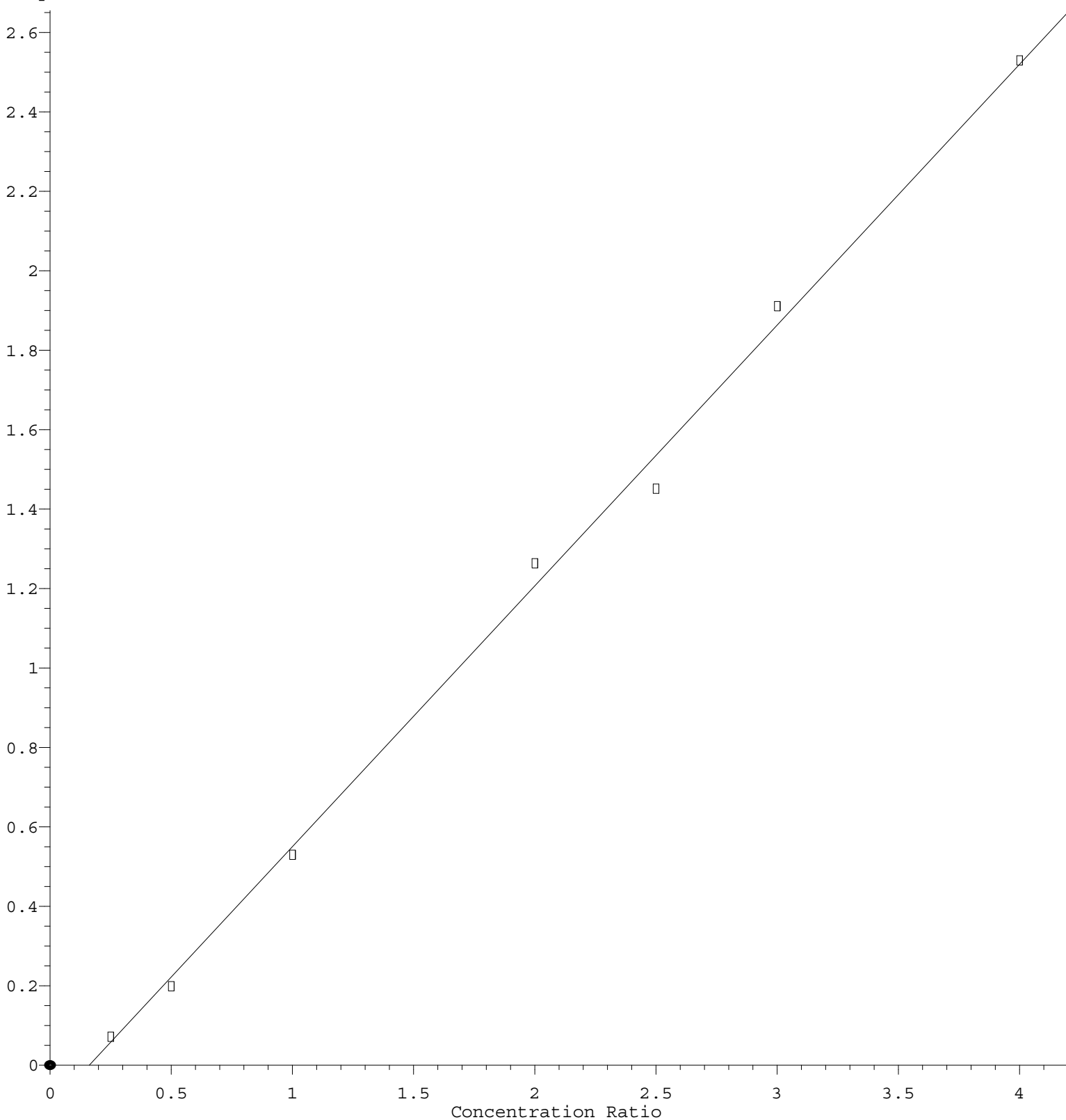
Coef of Det (r^2) = 0.996039 Curve Fit: wlr(1/a)

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 6.565\text{e-}001 * \text{Amt} - 1.063\text{e-}001$$

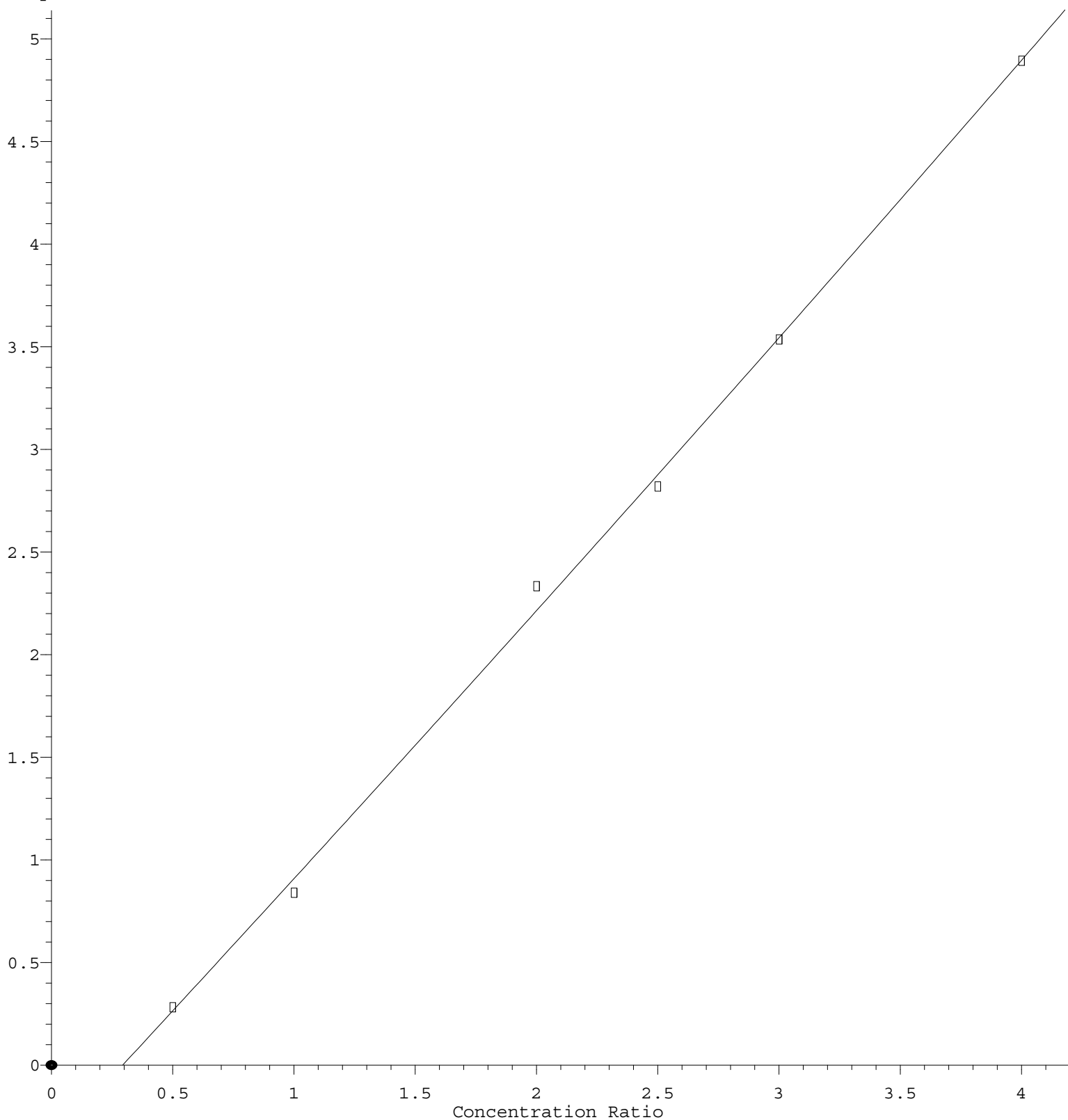
Coef of Det (r^2) = 0.997696 Curve Fit: wlr(1/a)

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Di-n-octyl phthalate

Response Ratio



$$R = 1.165e-002 A^2 + 1.271e+000 A - 3.738e-001$$

Coef of Det (r^2) = 0.998412 Curve Fit: Quadratic w(1/a)

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