

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF121225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Dec 12 15:57:03 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF144444.D 5 =BF144445.D 10 =BF144446.D 20 =BF144447.D 40 =BF144452.D 50 =BF144449.D 60 =BF144450.D 80 =BF144451.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.628	0.648	0.660	0.672	0.621	0.622	0.614	0.638		3.48
3)	Pyridine	1.716	1.713	1.793	1.867	1.728	1.739	1.721	1.754		3.24
4)	n-Nitrosodimet...	0.750	0.769	0.808	0.753	0.750	0.743	0.762			3.16
5) S	2-Fluorophenol	1.279	1.373	1.402	1.426	1.295	1.269	1.241	1.326		5.47
6)	Aniline	2.321	2.379	2.395	2.445	2.228	2.219	2.169	2.308		4.51
7) S	Phenol-d6	1.656	1.718	1.736	1.765	1.597	1.580	1.530	1.654		5.36
8)	2-Chlorophenol	1.278	1.383	1.469	1.581	1.430	1.417	1.396	1.422		6.46
9)	Benzaldehyde	1.115	1.004	1.452	1.431	1.311	1.458	1.295			14.92
10) C	Phenol	1.948	2.029	2.028	2.094	1.882	1.864	1.824	1.953		5.16
11)	bis(2-Chloroet...	1.461	1.486	1.494	1.510	1.367	1.360	1.313	1.427		5.51
12)	1,3-Dichlorobe...	1.583	1.595	1.604	1.644	1.472	1.446	1.411	1.536		5.92
13) C	1,4-Dichlorobe...	1.603	1.623	1.614	1.632	1.472	1.450	1.399	1.542		6.34
14)	1,2-Dichlorobe...	1.532	1.523	1.533	1.541	1.401	1.381	1.336	1.464		5.97
15)	Benzyl Alcohol	1.177	1.231	1.321	1.206	1.208	1.174	1.219			4.44
16)	2,2'-oxybis(1-...	2.489	2.557	2.525	2.501	2.327	2.278	2.184	2.409		5.99
17)	2-Methylphenol	1.154	1.216	1.237	1.293	1.175	1.171	1.145	1.199		4.42
18)	Hexachloroethane	0.490	0.526	0.545	0.595	0.535	0.534	0.525	0.536		5.86
19) P	n-Nitroso-di-n...	1.006	1.036	1.078	1.085	1.120	1.026	1.012	0.998	1.045	4.22
20)	3+4-Methylphenols	1.557	1.579	1.586	1.427	1.381	1.308	1.473			7.96
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.535	0.539	0.527	0.509	0.463	0.459	0.439	0.496		8.33
23) S	Nitrobenzene-d5	0.215	0.273	0.327	0.382	0.342	0.349	0.350	0.320		17.78
24)	Nitrobenzene	0.250	0.310	0.358	0.408	0.365	0.372	0.364	0.347		14.81
25)	Isophorone	0.706	0.743	0.747	0.752	0.703	0.704	0.694	0.721		3.45
26) C	2-Nitrophenol	0.057	0.080	0.108	0.170	0.145	0.155	0.163	0.126		35.20#
27)	2,4-Dimethylph...	0.327	0.352	0.358	0.368	0.337	0.337	0.331	0.344		4.43
28)	bis(2-Chloroet...	0.458	0.475	0.471	0.459	0.422	0.420	0.407	0.444		6.20
29) C	2,4-Dichloroph...	0.242	0.279	0.301	0.318	0.288	0.291	0.284	0.286		8.11
30)	1,2,4-Trichlor...	0.319	0.327	0.325	0.325	0.295	0.295	0.285	0.310		5.75
31)	Naphthalene	1.160	1.174	1.156	1.101	1.011	0.984	0.949	1.076		8.68
32)	Benzoic acid	0.091	0.133	0.224	0.201	0.213	0.233	0.183			31.31
33)	4-Chloroaniline	0.445	0.460	0.461	0.445	0.414	0.405	0.398	0.433		6.06
34) C	Hexachlorobuta...	0.191	0.201	0.203	0.201	0.185	0.182	0.179	0.192		5.31
35)	Caprolactam	0.080	0.096	0.102	0.097	0.096	0.095	0.094			7.85
36) C	4-Chloro-3-met...	0.279	0.313	0.323	0.333	0.310	0.310	0.305	0.310		5.37
37)	2-Methylnaphth...	0.751	0.782	0.757	0.727	0.665	0.653	0.623	0.708		8.62
38)	1-Methylnaphth...	0.743	0.760	0.734	0.711	0.645	0.632	0.603	0.690		8.97

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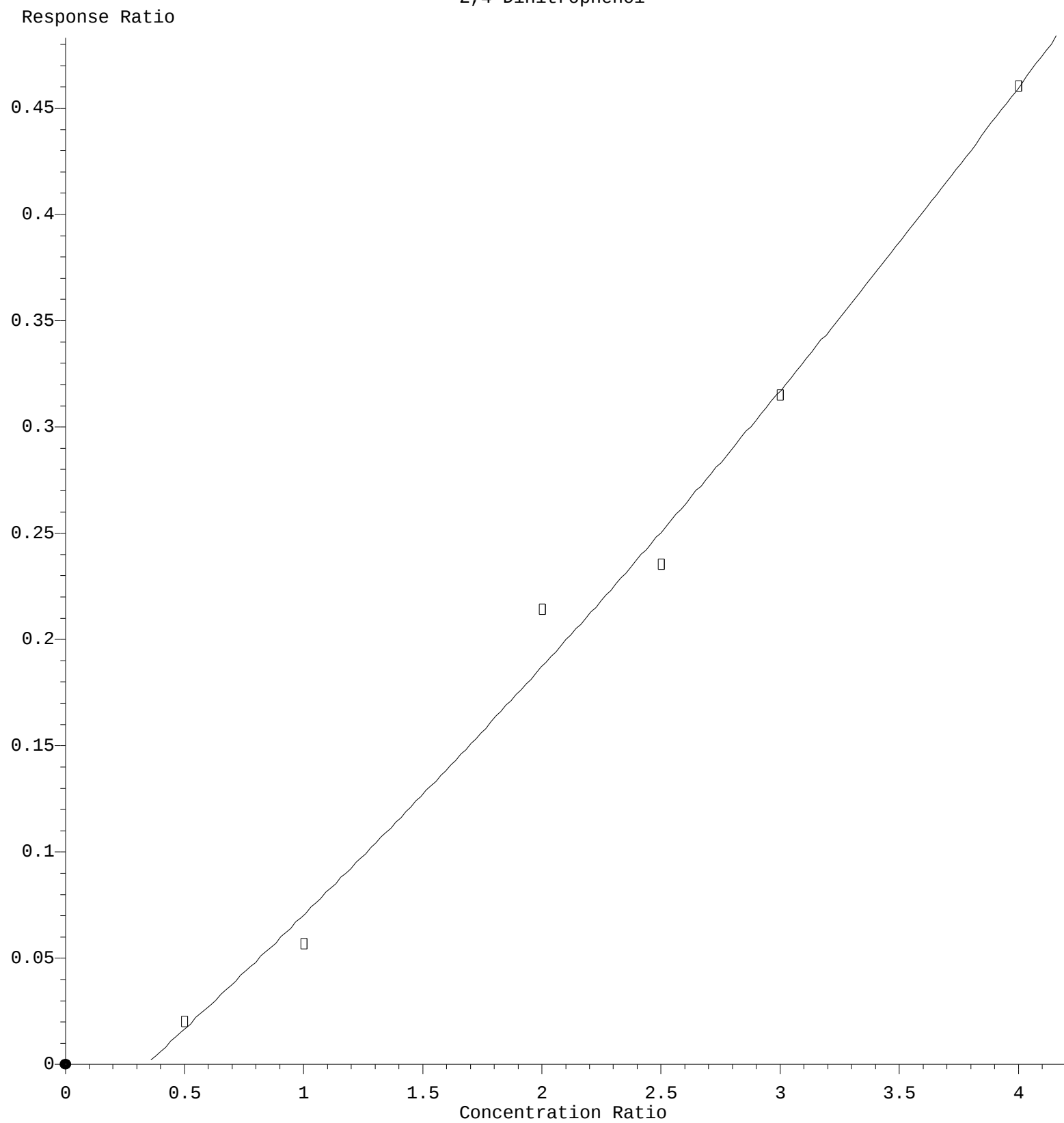
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.599	0.615	0.596	0.589	0.538	0.532	0.515	0.569	6.93	
41) P	Hexachlorocycl...	0.270	0.312	0.384	0.344	0.352	0.359	0.337	11.96		
42) S	2,4,6-Tribromo...	0.131	0.163	0.184	0.210	0.194	0.192	0.181	14.32		
43) C	2,4,6-Trichlor...	0.282	0.327	0.382	0.415	0.373	0.371	0.379	0.361	12.03	
44)	2,4,5-Trichlor...	0.313	0.369	0.376	0.426	0.387	0.405	0.380	0.379	9.29	
45) S	2-Fluorobiphenyl	1.501	1.501	1.406	1.324	1.175	1.148	1.072	1.304	13.40	
46)	1,1'-Biphenyl	1.692	1.708	1.662	1.613	1.463	1.443	1.359	1.563	8.90	
47)	2-Chloronaphth...	1.282	1.279	1.251	1.235	1.117	1.116	1.074	1.193	7.37	
48)	2-Nitroaniline	0.144	0.199	0.275	0.371	0.333	0.347	0.352	0.289	30.12	
49)	Acenaphthylene	1.957	2.018	2.006	1.977	1.809	1.779	1.686	1.890	6.91	
50)	Dimethylphthalate	1.319	1.412	1.407	1.420	1.319	1.309	1.271	1.351	4.46	
51)	2,6-Dinitrotol...	0.097	0.137	0.184	0.274	0.241	0.251	0.256	0.206	32.84	
52) C	Acenaphthene	1.235	1.273	1.227	1.236	1.114	1.105	1.061	1.179	7.03	
53)	3-Nitroaniline	0.146	0.204	0.260	0.328	0.302	0.304	0.305	0.264	25.00	
54) P	2,4-Dinitrophenol	0.040	0.057	0.107	0.094	0.105	0.115	0.086	35.39		
55)	Dibenzofuran	1.796	1.827	1.775	1.722	1.586	1.542	1.491	1.677	8.05	
56) P	4-Nitrophenol	0.163	0.208	0.265	0.251	0.247	0.247	0.230	16.58		
57)	2,4-Dinitrotol...	0.133	0.186	0.252	0.372	0.333	0.348	0.344	0.281	32.79	
58)	Fluorene	1.426	1.427	1.355	1.293	1.168	1.141	1.080	1.270	11.14	
59)	2,3,4,6-Tetrac...	0.199	0.260	0.293	0.339	0.306	0.312	0.307	0.288	15.92	
60)	Diethylphthalate	1.227	1.351	1.317	1.359	1.264	1.251	1.192	1.280	4.98	
61)	4-Chlorophenyl...	0.691	0.692	0.656	0.637	0.579	0.566	0.541	0.623	9.83	
62)	4-Nitroaniline	0.170	0.216	0.264	0.322	0.298	0.303	0.296	0.267	20.54	
63)	Azobenzene	1.394	1.447	1.407	1.406	1.315	1.282	1.222	1.353	6.02	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.037	0.055	0.099	0.085	0.094	0.101	0.079	33.55		
66) c	n-Nitrosodiphe...	0.693	0.729	0.729	0.719	0.641	0.652	0.635	0.685	6.11	
67)	4-Bromophenyl-...	0.225	0.240	0.244	0.246	0.225	0.228	0.226	0.233	4.14	
68)	Hexachlorobenzene	0.256	0.263	0.270	0.269	0.248	0.251	0.248	0.258	3.68	
69)	Atrazine	0.186	0.210	0.226	0.231	0.219	0.218	0.215	0.215	6.84	
70) C	Pentachlorophenol	0.113	0.140	0.166	0.151	0.157	0.155	0.147	12.78		
71)	Phenanthrene	1.245	1.262	1.235	1.179	1.075	1.060	1.015	1.153	8.77	
72)	Anthracene	1.233	1.265	1.258	1.200	1.088	1.088	1.037	1.167	8.04	
73)	Carbazole	1.078	1.100	1.082	1.044	0.950	0.935	0.902	1.013	8.07	
74)	Di-n-butylphth...	0.937	1.089	1.177	1.170	1.095	1.085	1.028	1.083	7.65	
75) C	Fluoranthene	1.226	1.245	1.252	1.153	1.079	1.040	0.974	1.139	9.63	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.780	0.757	0.776	0.771	0.675	0.514	0.712	14.70		
78)	Pyrene	1.678	1.831	1.896	2.026	1.766	1.814	1.816	1.832	5.92	
79) S	Terphenyl-d14	1.251	1.320	1.333	1.364	1.204	1.202	1.194	1.267	5.62	
80)	Butylbenzylphth...	0.287	0.382	0.513	0.630	0.606	0.617	0.619	0.522	26.16	
81)	Benzo(a)anthra...	1.408	1.465	1.463	1.445	1.368	1.365	1.345	1.408	3.56	
82)	3,3'-Dichlorob...	0.363	0.403	0.430	0.399	0.402	0.398	0.399	5.36		
83)	Chrysene	1.282	1.317	1.352	1.392	1.216	1.216	1.247	1.289	5.27	
84)	Bis(2-ethylhex...	0.365	0.485	0.607	0.733	0.720	0.704	0.717	0.619	23.10	
85) c	Di-n-octyl pht...	0.515	0.734	1.103	1.086	1.109	1.162	0.951	27.72		

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86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	0.988	1.218	1.395	1.747	1.499	1.612	1.590	1.436	18.11	
88)	Benzo(b)fluora...	1.330	1.392	1.343	1.368	1.267	1.218	1.272	1.313	4.74	
89)	Benzo(k)fluora...	1.223	1.343	1.424	1.252	1.209	1.198	1.042	1.241	9.69	
90) C	Benzo(a)pyrene	1.058	1.146	1.199	1.225	1.150	1.140	1.116	1.148	4.74	
91)	Dibenzo(a,h)an...	0.816	0.979	1.141	1.417	1.217	1.282	1.264	1.159	17.48	
92)	Benzo(g,h,i)pe...	0.802	1.004	1.167	1.424	1.238	1.309	1.307	1.179	17.98	

(#) = Out of Range

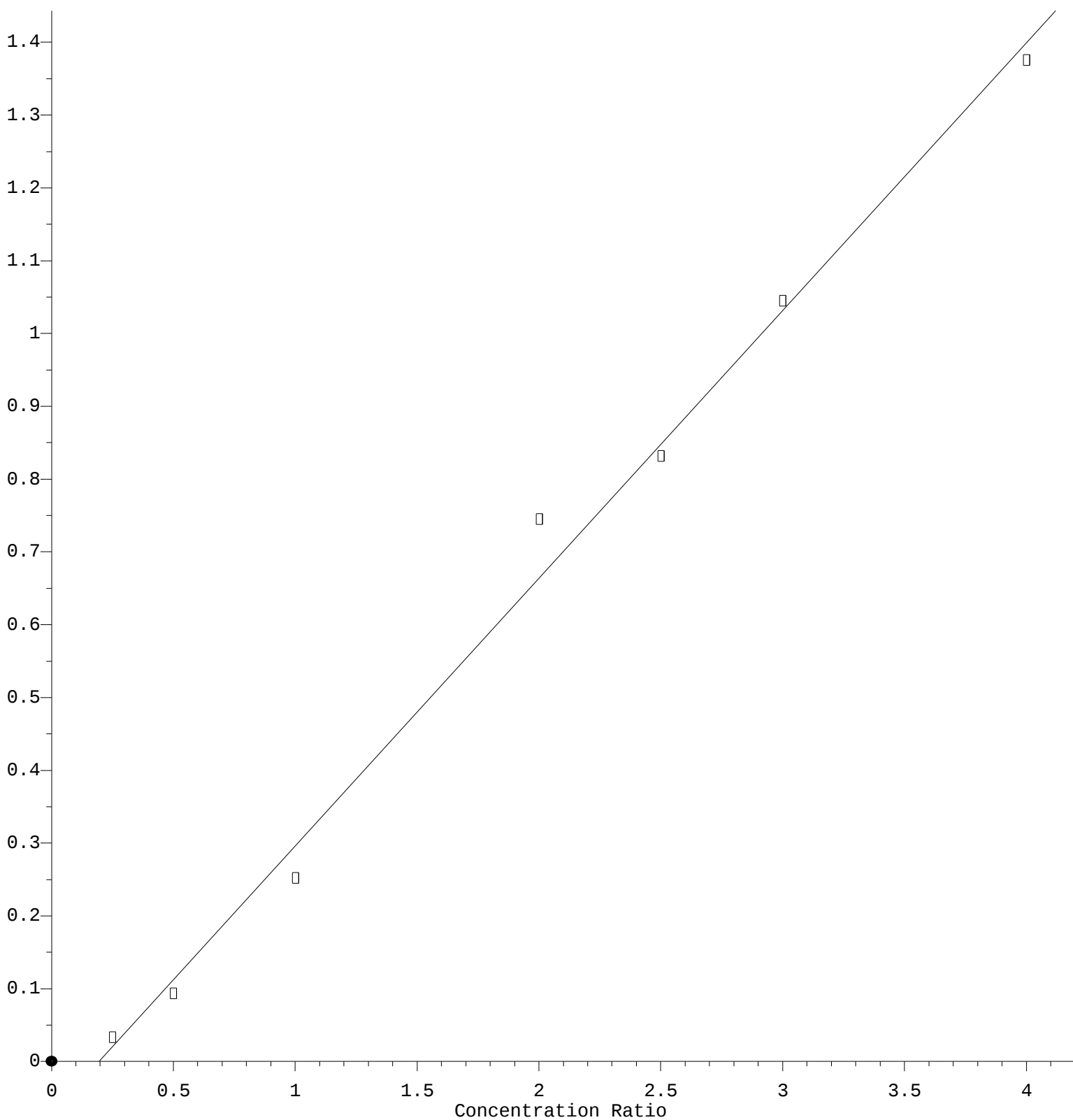
2,4-Dinitrophenol



$R = 6.461e-003 A^2 + 9.751e-002 A - 3.366e-002$
Coef of Det (r^2) = 0.991189 Curve Fit: Quadratic w(1/a)
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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.680\text{e-}001 * \text{Amt} - 7.153\text{e-}002$$

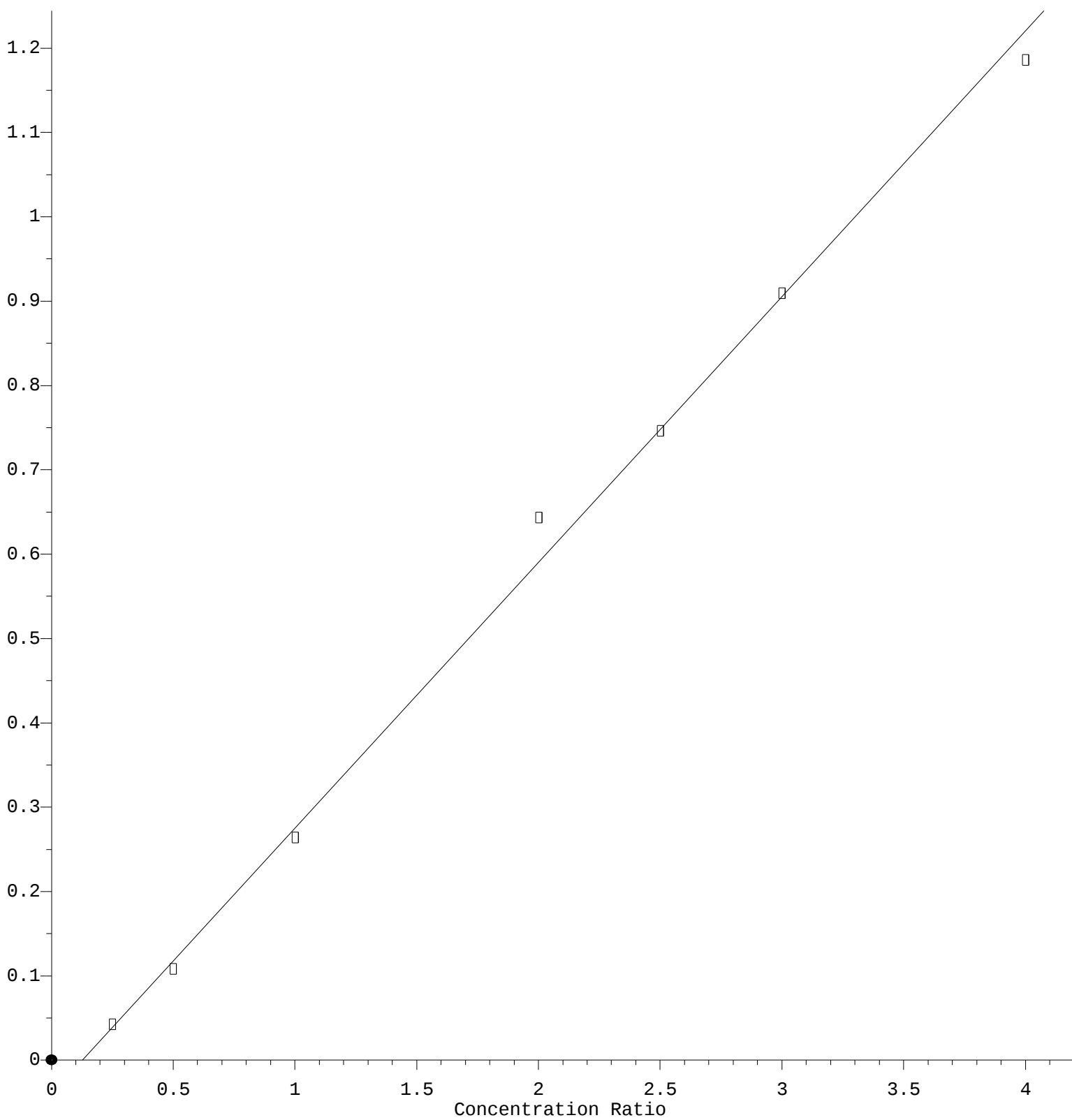
Coef of Det (r^2) = 0.993227 Curve Fit: wlr(1/a)

Method Name: Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121225.M

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4-Nitroaniline

Response Ratio



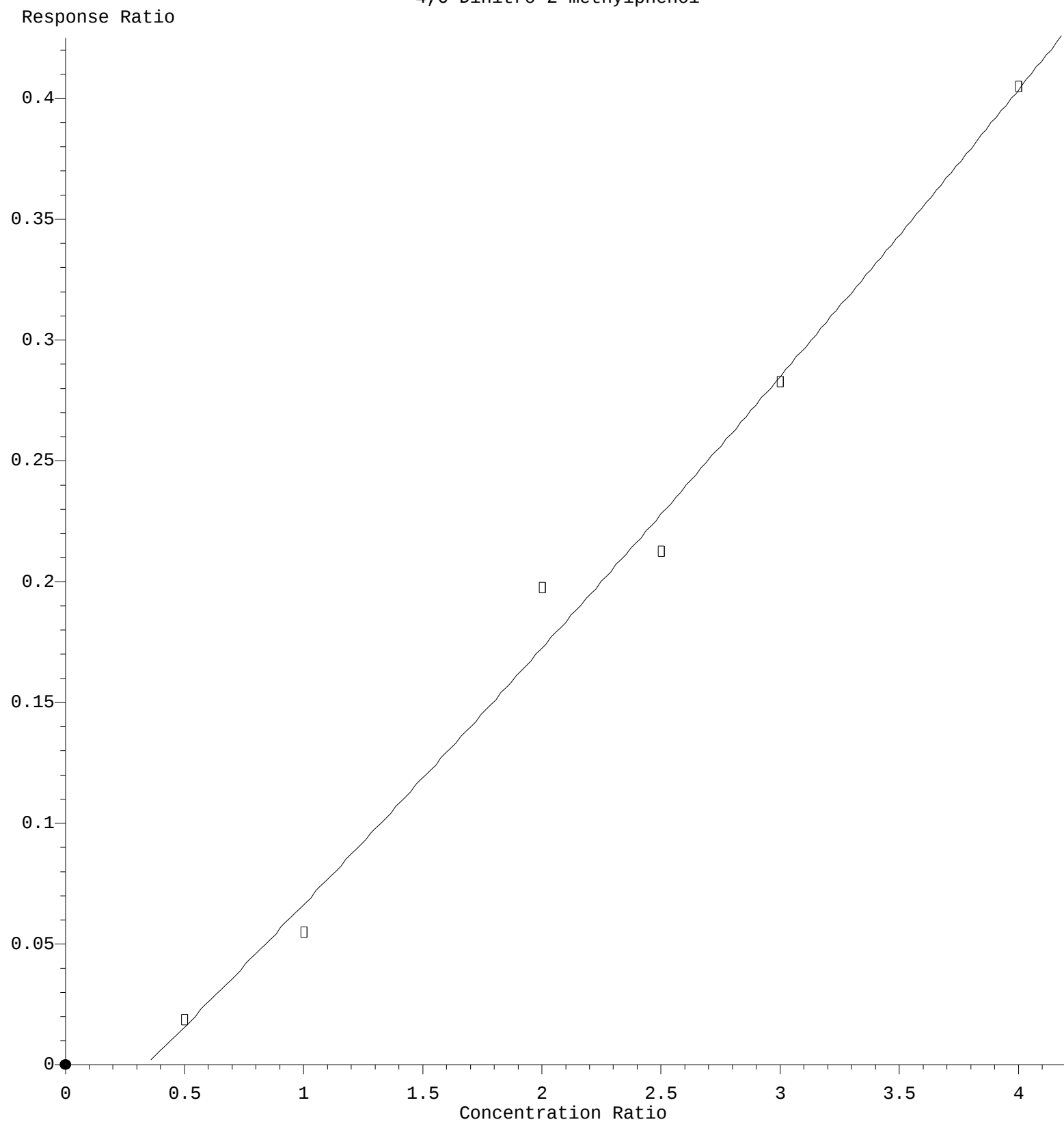
$$\text{Response} = 3.152\text{e-}001 * \text{Amt} - 3.961\text{e-}002$$

Coef of Det (r^2) = 0.997211 Curve Fit: wlr(1/a)

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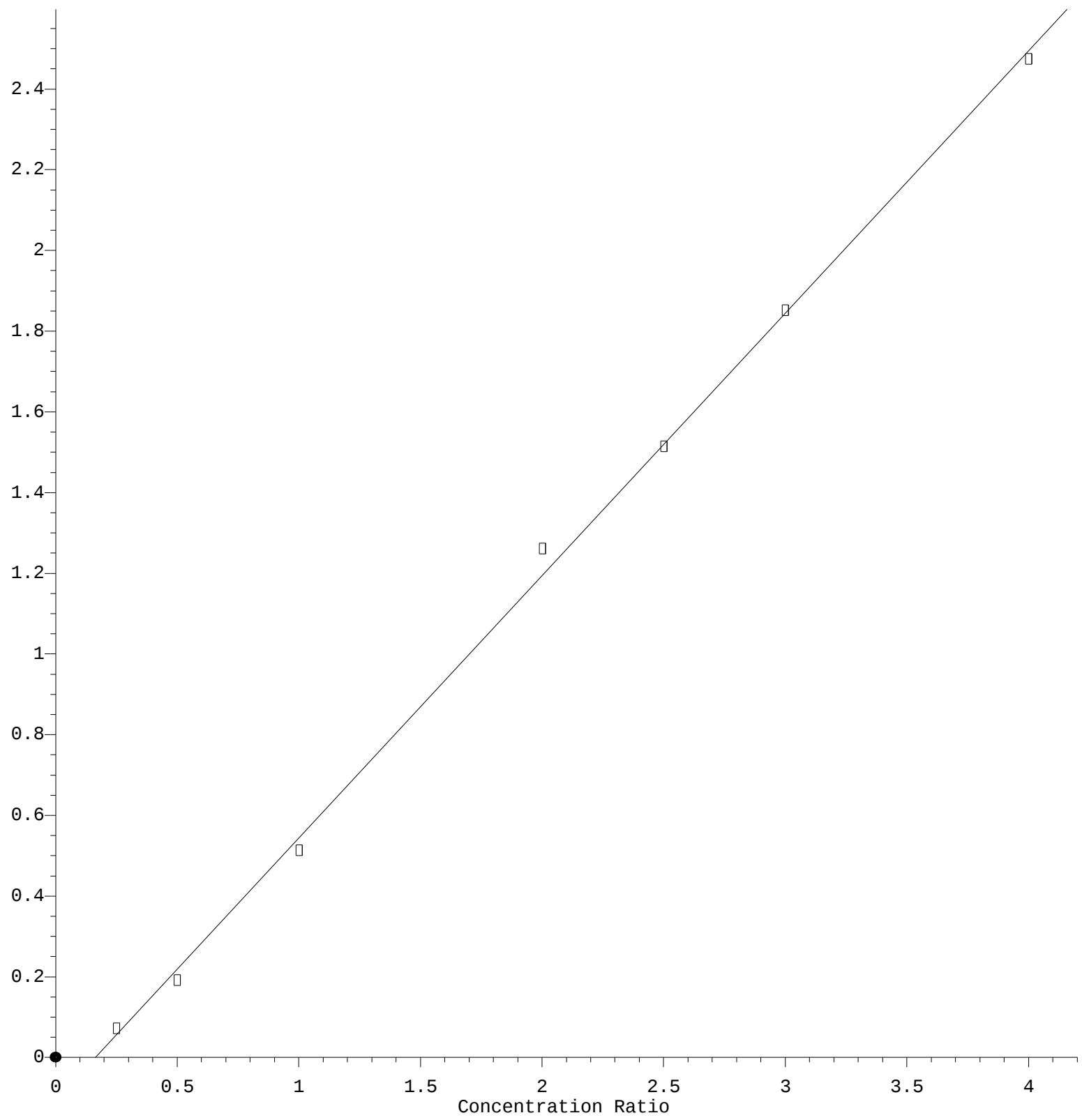
4,6-Dinitro-2-methylphenol



$R = 3.175e-003 A^2 + 9.650e-002 A - 3.321e-002$
Coef of Det (r^2) = 0.990601 Curve Fit: Quadratic w(1/a)
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Butylbenzylphthalate

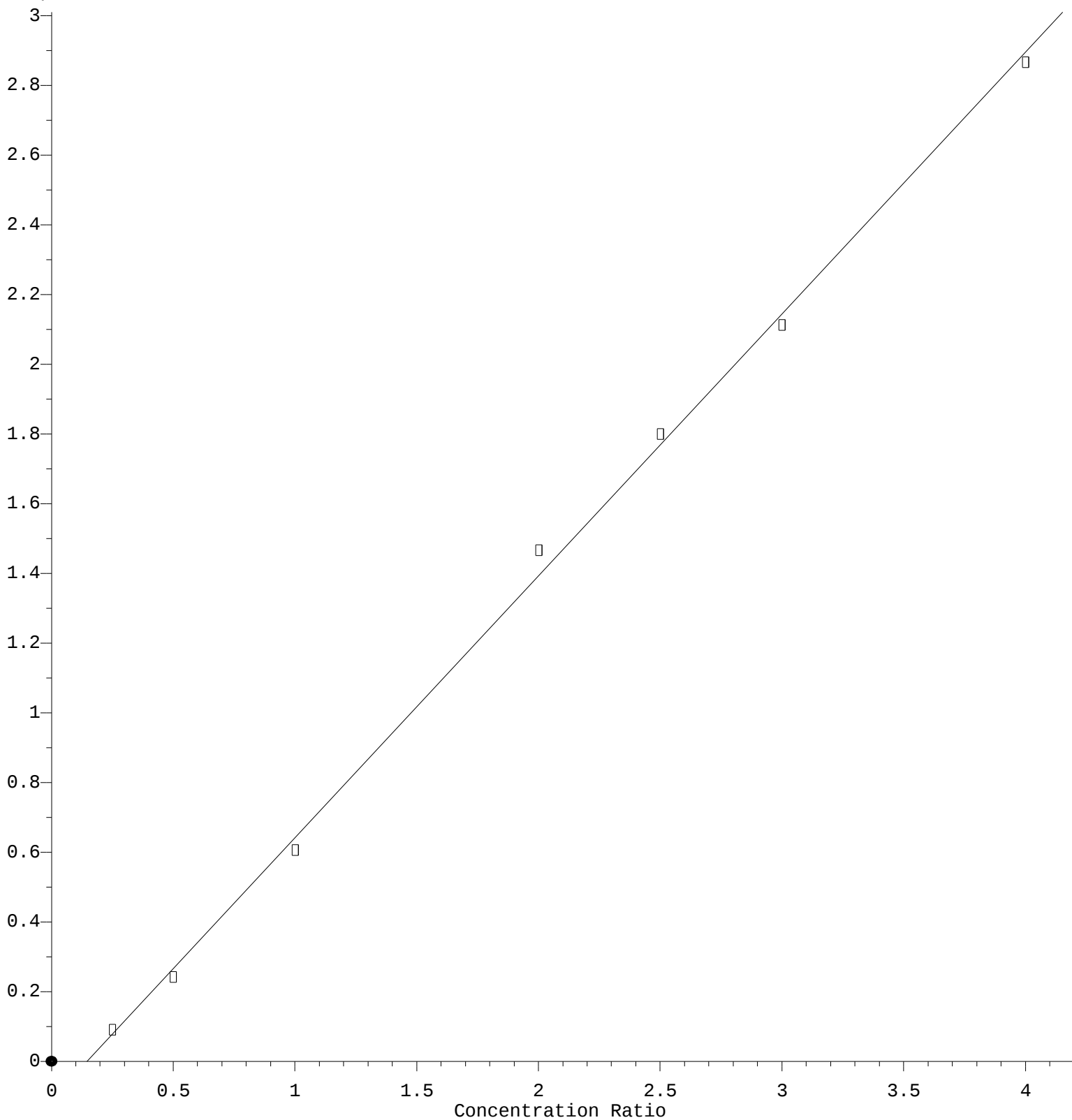
Response Ratio



Response = 6.505e-001 * Amt - 1.059e-001
Coef of Det (r^2)= 0.998168 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121225.M
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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 7.510\text{e-}001 * \text{Amt} - 1.091\text{e-}001$$

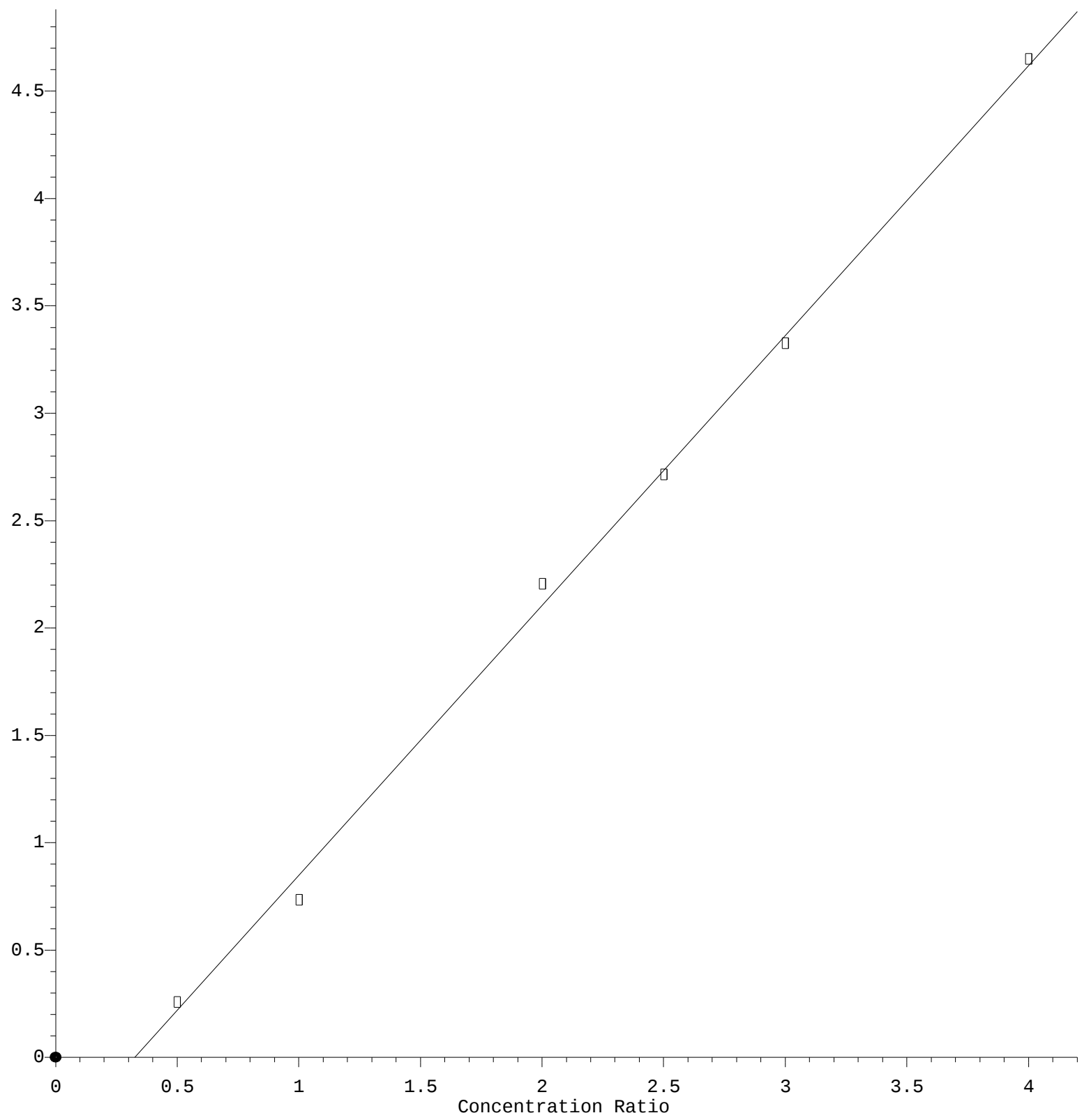
Coef of Det (r^2) = 0.998419 Curve Fit: wlr(1/a)

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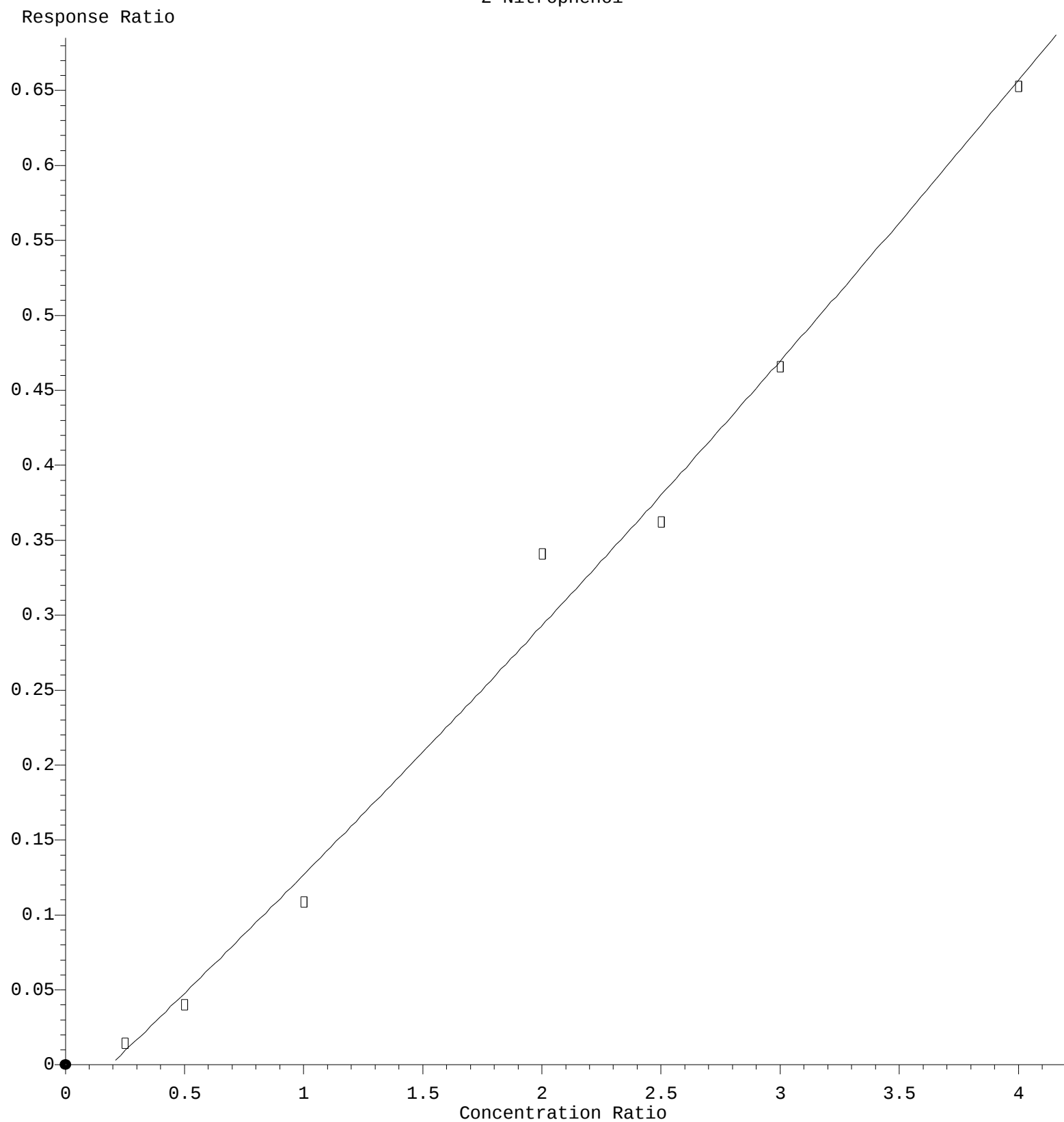
Di-n-octylphthalate

Response Ratio



Response = 1.257e+000 * Amt - 4.086e-001
Coef of Det (r^2)= 0.997250 Curve Fit: wlr(1/a)
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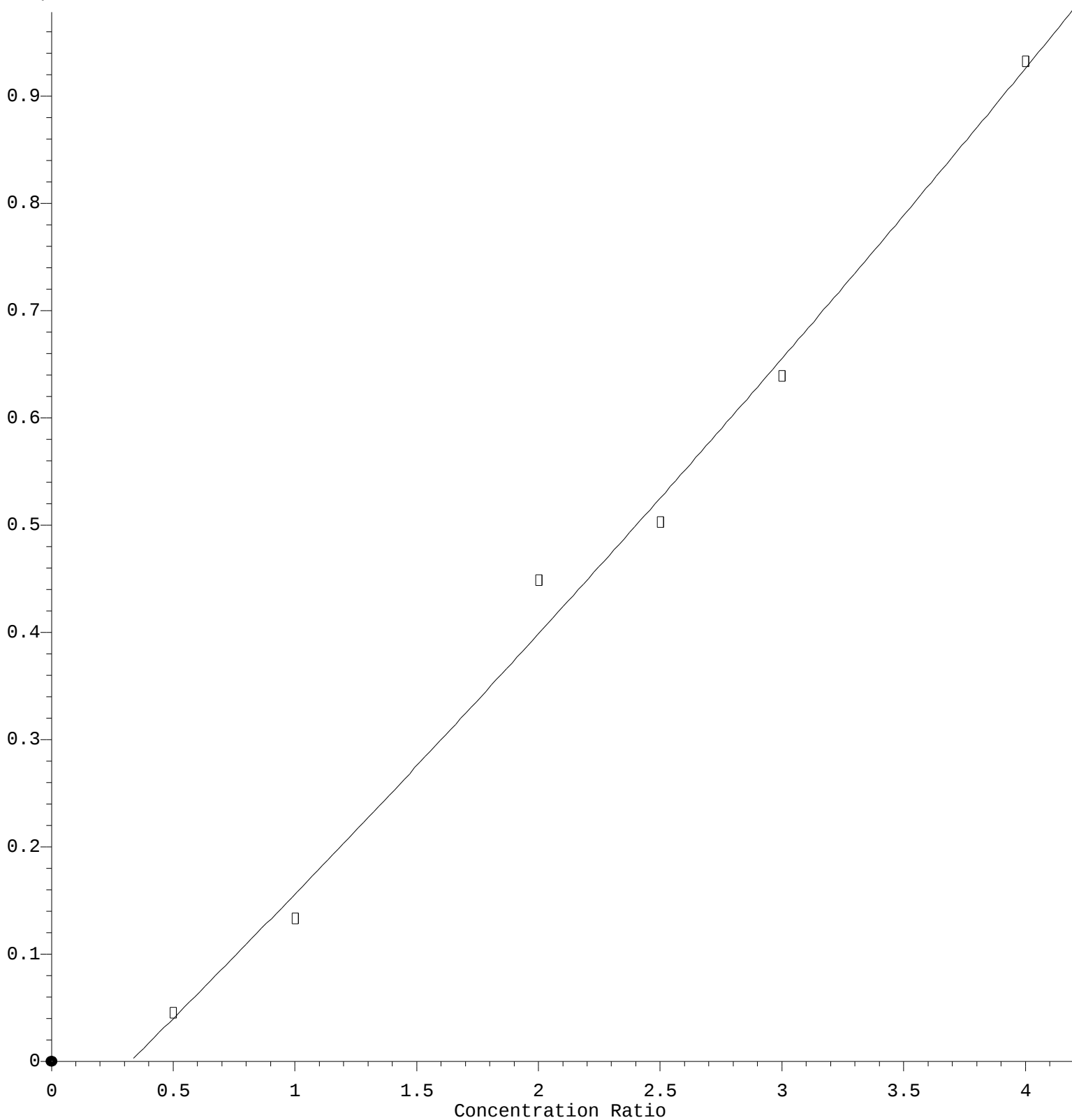
2-Nitrophenol



$R = 5.259e-003 A^2 + 1.503e-001 A - 2.863e-002$
 Coef of Det (r^2) = 0.991379 Curve Fit: Quadratic w(1/a)
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Benzoic acid

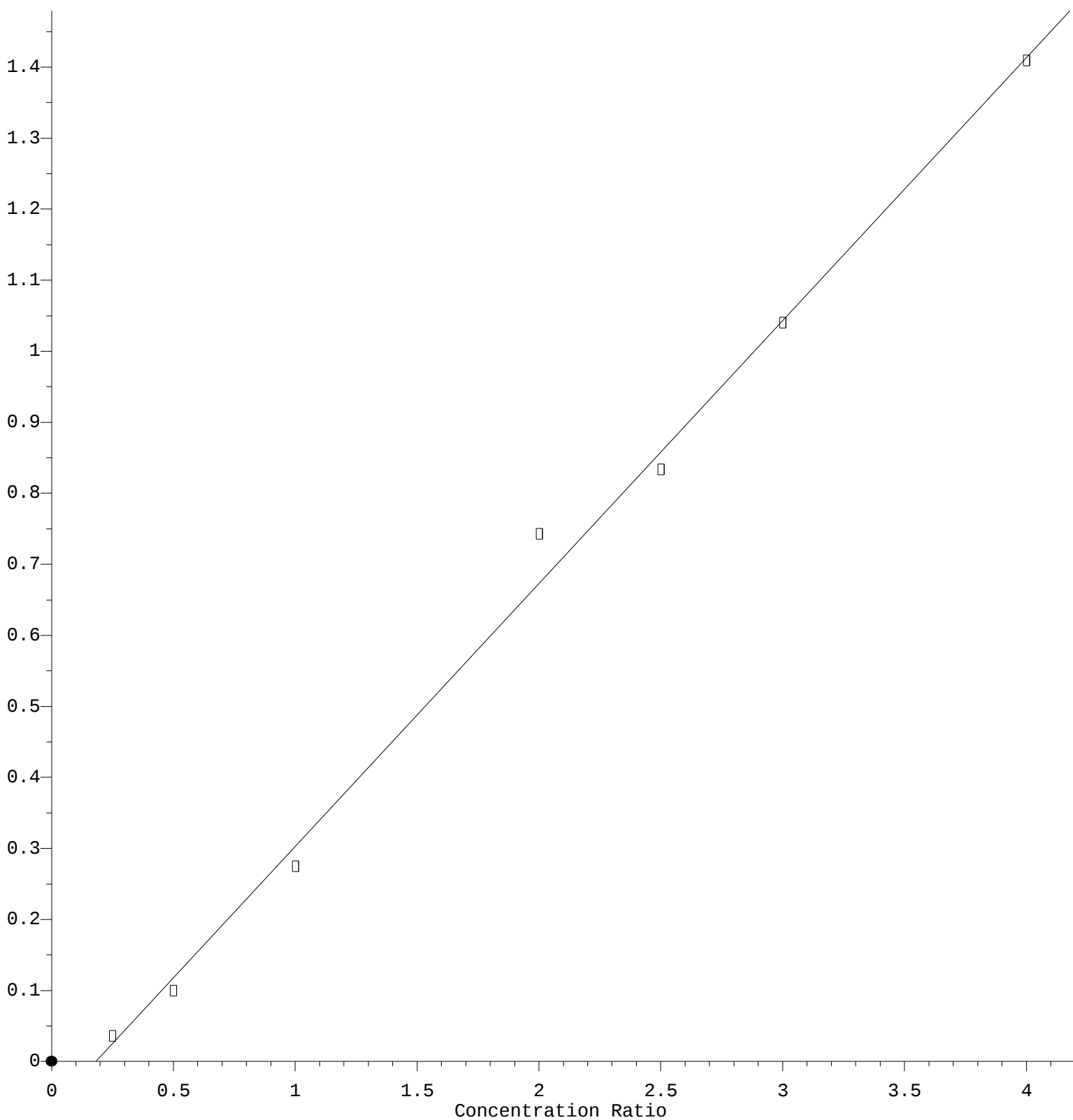
Response Ratio



$R = 7.003e-003 A^2 + 2.215e-001 A - 7.233e-002$
Coef of Det (r^2) = 0.993108 Curve Fit: Quadratic w(1/a)
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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.703\text{e-}001 * \text{Amt} - 6.726\text{e-}002$$

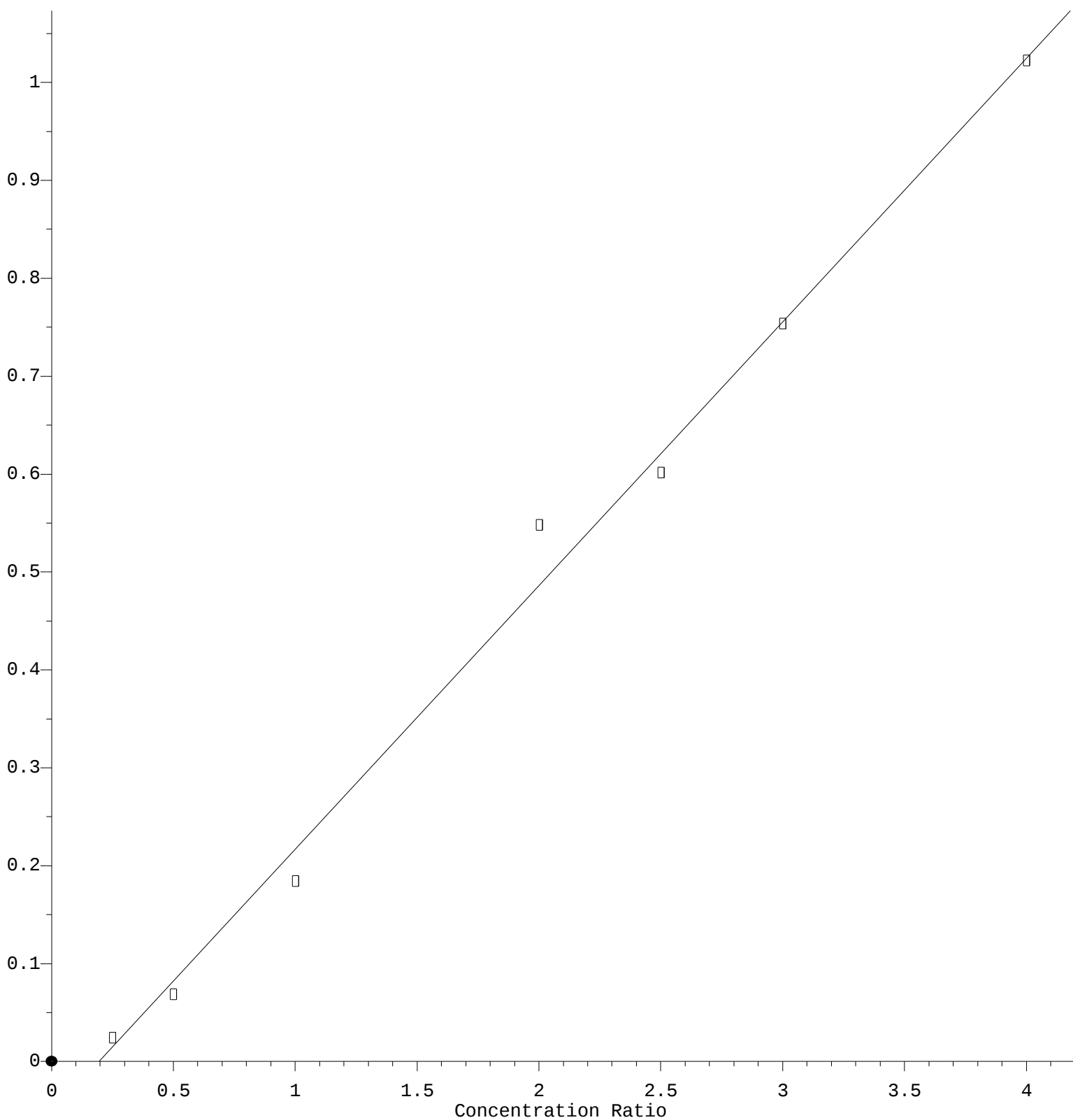
Coef of Det (r^2) = 0.995545 Curve Fit: wlr(1/a)

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.695\text{e-}001 * \text{Amt} - 5.267\text{e-}002$$

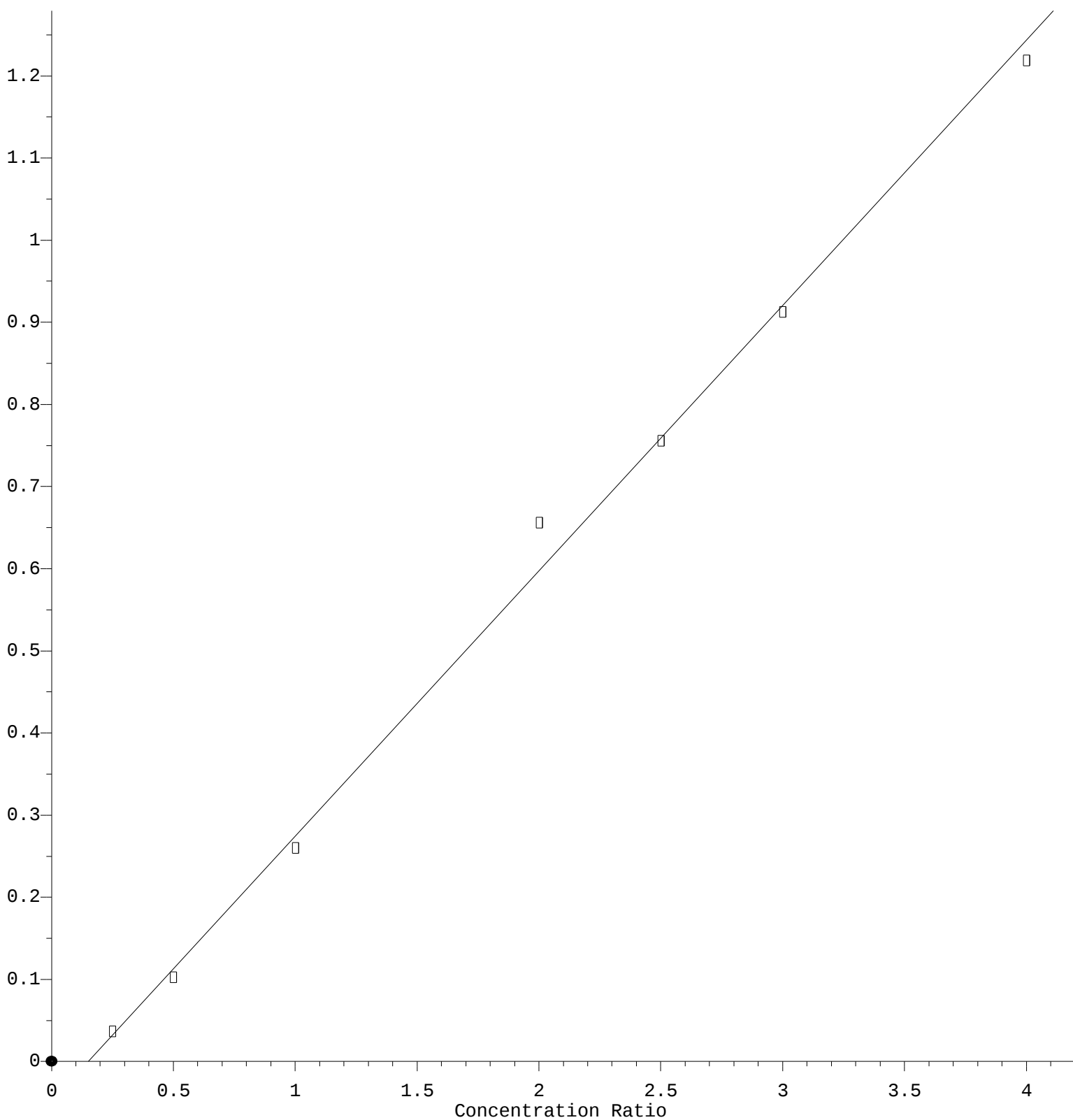
Coef of Det (r^2) = 0.992936 Curve Fit: wlr(1/a)

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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.231\text{e-}001 * \text{Amt} - 4.855\text{e-}002$$

Coef of Det (r^2) = 0.996902 Curve Fit: wlr(1/a)

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