

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF090325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 03 18:35:49 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF143624.D 5 =BF143625.D 10 =BF143626.D 20 =BF143627.D 40 =BF143628.D 50 =BF143629.D 60 =BF143630.D 80 =BF143631.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.541	0.532	0.549	0.545	0.517	0.523	0.522	0.533	2.38
3)	Pyridine		1.357	1.423	1.455	1.447	1.387	1.427	1.383	1.411	2.57
4)	n-Nitrosodimet...			0.571	0.583	0.598	0.581	0.602	0.582	0.586	1.97
5) S	2-Fluorophenol		1.117	1.130	1.172	1.157	1.089	1.137	1.101	1.129	2.61
6)	Aniline		2.005	2.010	2.007	1.984	1.843	1.935	1.868	1.950	3.59
7) S	Phenol-d6		1.455	1.417	1.445	1.428	1.321	1.391	1.351	1.401	3.55
8)	2-Chlorophenol		1.044	1.076	1.183	1.236	1.194	1.245	1.206	1.169	6.69
9)	Benzaldehyde			1.000	0.932	1.152	0.932	1.189		1.041	11.71
10) C	Phenol		1.516	1.530	1.600	1.589	1.462	1.530	1.526	1.536	3.01
11)	bis(2-Chloroet...		1.266	1.228	1.251	1.210	1.143	1.181	1.143	1.203	4.10
12)	1,3-Dichlorobe...		1.519	1.496	1.504	1.456	1.374	1.398	1.353	1.443	4.67
13) C	1,4-Dichlorobe...		1.566	1.490	1.487	1.449	1.368	1.415	1.355	1.447	5.15
14)	1,2-Dichlorobe...		1.447	1.417	1.419	1.391	1.296	1.331	1.287	1.370	4.70
15)	Benzyl Alcohol			1.017	1.071	1.096	1.043	1.096	1.066	1.065	2.90
16)	2,2'-oxybis(1-...		2.059	1.987	2.000	1.909	1.740	1.831	1.729	1.894	6.89
17)	2-Methylphenol		0.997	1.043	1.051	1.052	0.982	1.029	1.001	1.022	2.79
18)	Hexachloroethane		0.413	0.427	0.466	0.469	0.455	0.474	0.456	0.451	5.07
19) P	n-Nitroso-di-n...	0.887	0.913	0.892	0.908	0.918	0.855	0.892	0.873	0.892	2.38
20)	3+4-Methylphenols			1.307	1.375	1.343	1.204	1.266	1.226	1.287	5.21
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.495	0.467	0.467	0.455	0.423	0.440	0.418	0.452	6.05
23) S	Nitrobenzene-d5		0.213	0.235	0.285	0.308	0.311	0.324	0.315	0.285	15.24
24)	Nitrobenzene		0.235	0.268	0.305	0.333	0.324	0.337	0.327	0.304	12.67
25)	Isophorone		0.653	0.641	0.649	0.637	0.632	0.645	0.631	0.641	1.33
26) C	2-Nitrophenol		0.058	0.071	0.094	0.121	0.138	0.150	0.153	0.112	34.29#
27)	2,4-Dimethylph...		0.267	0.268	0.287	0.287	0.278	0.289	0.278	0.279	3.28
28)	bis(2-Chloroet...		0.420	0.391	0.408	0.392	0.376	0.385	0.372	0.392	4.38
29) C	2,4-Dichloroph...		0.239	0.253	0.281	0.289	0.283	0.291	0.281	0.274	7.21
30)	1,2,4-Trichlor...		0.314	0.297	0.307	0.304	0.288	0.297	0.283	0.299	3.61
31)	Naphthalene		1.082	0.996	1.021	0.972	0.927	0.947	0.903	0.978	6.20
32)	Benzoic acid			0.074	0.109	0.143	0.167	0.188	0.187	0.145	31.55
33)	4-Chloroaniline		0.349	0.344	0.354	0.340	0.328	0.335	0.321	0.339	3.48
34) C	Hexachlorobuta...		0.201	0.195	0.200	0.195	0.190	0.193	0.187	0.194	2.62
35)	Caprolactam			0.056	0.068	0.076	0.079	0.081	0.080	0.073	13.09
36) C	4-Chloro-3-met...		0.275	0.270	0.294	0.295	0.291	0.295	0.288	0.287	3.49
37)	2-Methylnaphth...		0.720	0.682	0.694	0.659	0.622	0.644	0.611	0.662	5.97
38)	1-Methylnaphth...		0.683	0.651	0.663	0.629	0.601	0.617	0.584	0.633	5.56

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.594	0.567	0.580	0.556	0.525	0.539	0.508	0.553	5.53	
41) P	Hexachlorocycl...	0.214	0.255	0.281	0.287	0.293	0.280	0.268		11.02	
42) S	2,4,6-Tribromo...	0.126	0.139	0.167	0.185	0.184	0.189	0.181	0.167	14.97	
43) C	2,4,6-Trichlor...	0.273	0.286	0.358	0.358	0.368	0.382	0.359	0.341	12.57	
44)	2,4,5-Trichlor...	0.296	0.322	0.351	0.382	0.366	0.376	0.368	0.352	8.93	
45) S	2-Fluorobiphenyl	1.442	1.342	1.330	1.239	1.140	1.177	1.092	1.252	10.01	
46)	1,1'-Biphenyl	1.561	1.481	1.504	1.425	1.341	1.363	1.282	1.422	7.00	
47)	2-Chloronaphth...	1.202	1.143	1.158	1.118	1.058	1.084	1.029	1.113	5.41	
48)	2-Nitroaniline	0.168	0.188	0.245	0.292	0.308	0.318	0.309	0.261	23.65	
49)	Acenaphthylene	1.735	1.648	1.682	1.621	1.523	1.546	1.474	1.604	5.82	
50)	Dimethylphthalate	1.289	1.263	1.304	1.288	1.247	1.252	1.223	1.266	2.24	
51)	2,6-Dinitrotol...	0.110	0.128	0.172	0.220	0.233	0.247	0.239	0.193	29.10	
52) C	Acenaphthene	1.157	1.103	1.108	1.076	1.025	1.050	0.993	1.073	5.16	
53)	3-Nitroaniline	0.143	0.168	0.207	0.254	0.260	0.264	0.261	0.223	22.53	
54) P	2,4-Dinitrophenol	0.033	0.048	0.071	0.089	0.098	0.105	0.074		39.25	
55)	Dibenzofuran	1.701	1.633	1.630	1.568	1.476	1.487	1.419	1.559	6.55	
56) P	4-Nitrophenol	0.124	0.165	0.202	0.209	0.215	0.212	0.188		19.40	
57)	2,4-Dinitrotol...	0.140	0.176	0.233	0.298	0.316	0.328	0.327	0.260	29.85	
58)	Fluorene	1.361	1.257	1.273	1.204	1.130	1.135	1.082	1.206	8.11	
59)	2,3,4,6-Tetrac...	0.194	0.219	0.260	0.300	0.298	0.303	0.296	0.267	16.54	
60)	Diethylphthalate	1.211	1.183	1.257	1.240	1.193	1.183	1.150	1.202	3.05	
61)	4-Chlorophenyl...	0.659	0.628	0.632	0.605	0.570	0.575	0.542	0.602	6.81	
62)	4-Nitroaniline	0.151	0.160	0.213	0.252	0.252	0.251	0.256	0.219	20.97	
63)	Azobenzene	1.223	1.141	1.176	1.150	1.096	1.095	1.052	1.133	5.04	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.029	0.049	0.072	0.084	0.091	0.096	0.070		37.53	
66) c	n-Nitrosodiphe...	0.680	0.644	0.676	0.660	0.619	0.627	0.612	0.646	4.26	
67)	4-Bromophenyl-...	0.236	0.229	0.240	0.238	0.224	0.233	0.225	0.232	2.70	
68)	Hexachlorobenzene	0.249	0.240	0.257	0.253	0.237	0.241	0.229	0.244	3.96	
69)	Atrazine	0.167	0.175	0.199	0.211	0.201	0.204	0.193	0.193	8.20	
70) C	Pentachlorophenol	0.097	0.124	0.146	0.150	0.154	0.150	0.137		16.36	
71)	Phenanthrene	1.190	1.107	1.145	1.091	1.012	1.043	0.983	1.081	6.82	
72)	Anthracene	1.167	1.089	1.166	1.111	1.023	1.044	0.993	1.085	6.30	
73)	Carbazole	0.976	0.905	0.967	0.950	0.868	0.886	0.849	0.914	5.49	
74)	Di-n-butylphth...	0.910	0.884	1.081	1.127	1.075	1.061	1.048	1.027	8.97	
75) C	Fluoranthene	1.102	0.989	1.058	1.030	0.934	0.940	0.899	0.993	7.41	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.594	0.630	0.492	0.363	0.311	0.356	0.458		29.40	
78)	Pyrene	1.716	1.703	1.685	1.701	1.614	1.578	1.554	1.650	4.05	
79) S	Terphenyl-d14	1.287	1.263	1.248	1.225	1.146	1.138	1.096	1.200	6.08	
80)	Butylbenzylpht...	0.279	0.314	0.428	0.524	0.531	0.545	0.541	0.452	25.13	
81)	Benzo(a)anthra...	1.399	1.291	1.349	1.275	1.242	1.300	1.211	1.295	4.89	
82)	3,3'-Dichlorob...	0.316	0.374	0.364	0.345	0.360	0.360	0.353		5.82	
83)	Chrysene	1.206	1.167	1.197	1.217	1.109	1.143	1.112	1.164	3.81	
84)	Bis(2-ethylhex...	0.413	0.507	0.632	0.715	0.729	0.780	0.758	0.648	21.47	
85) c	Di-n-octyl pht...	0.810	1.007	1.225	1.295	1.432	1.350	1.187		19.73	

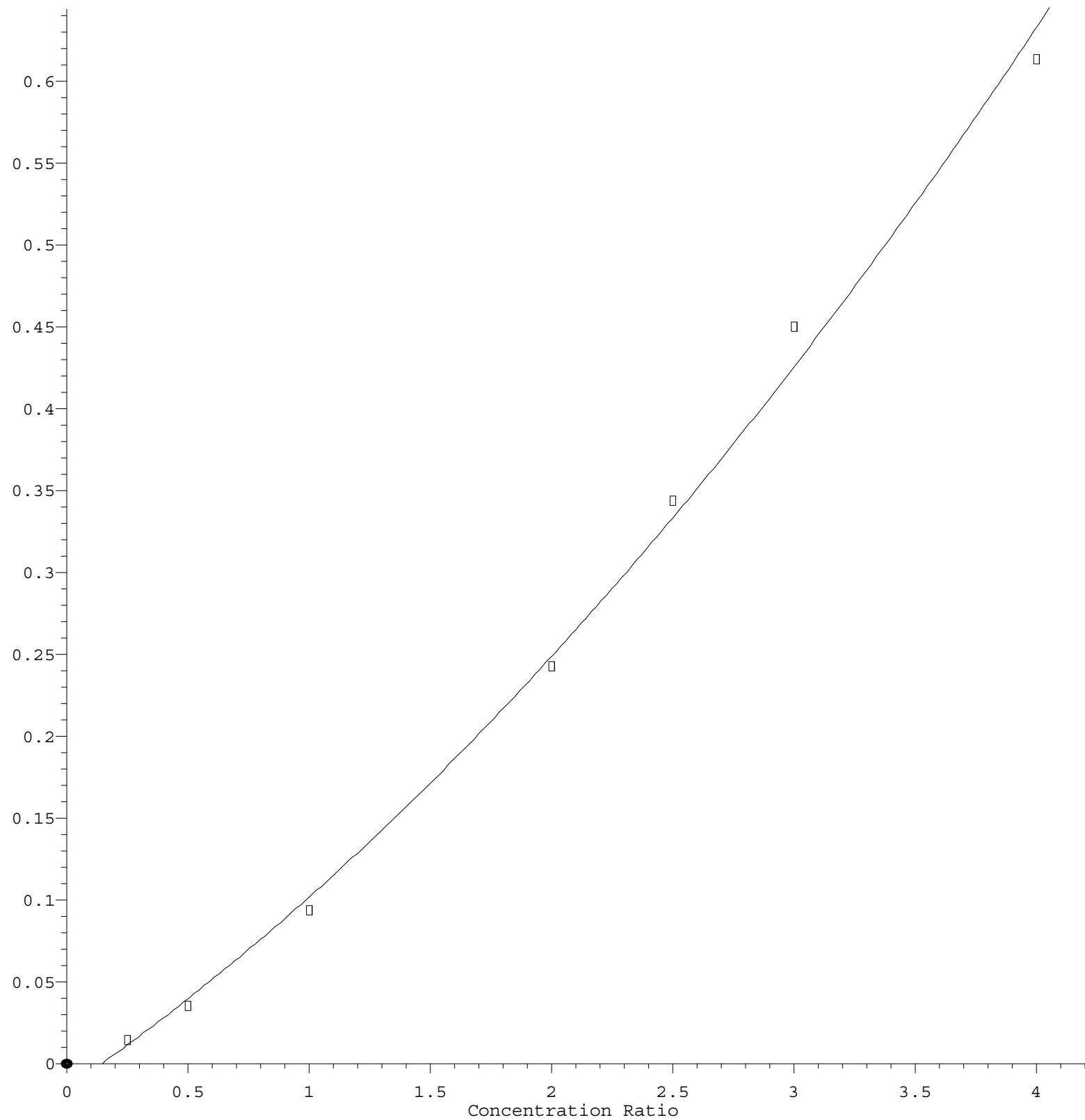
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.279	1.373	1.425	1.456	1.395	1.441	1.391	1.394	4.22
88)	Benzo(b)fluora...	1.274	1.166	1.256	1.301	1.135	1.118	1.184	1.205	5.97
89)	Benzo(k)fluora...	1.055	1.021	1.086	1.031	1.052	1.075	0.974	1.042	3.61
90) C	Benzo(a)pyrene	1.041	0.986	1.057	1.077	1.023	1.045	1.022	1.036	2.80
91)	Dibenzo(a,h)an...	1.035	1.151	1.180	1.201	1.148	1.181	1.132	1.147	4.77
92)	Benzo(g,h,i)pe...	1.033	1.092	1.139	1.141	1.100	1.126	1.102	1.105	3.38

(#) = Out of Range

2-Nitrophenol

Response Ratio



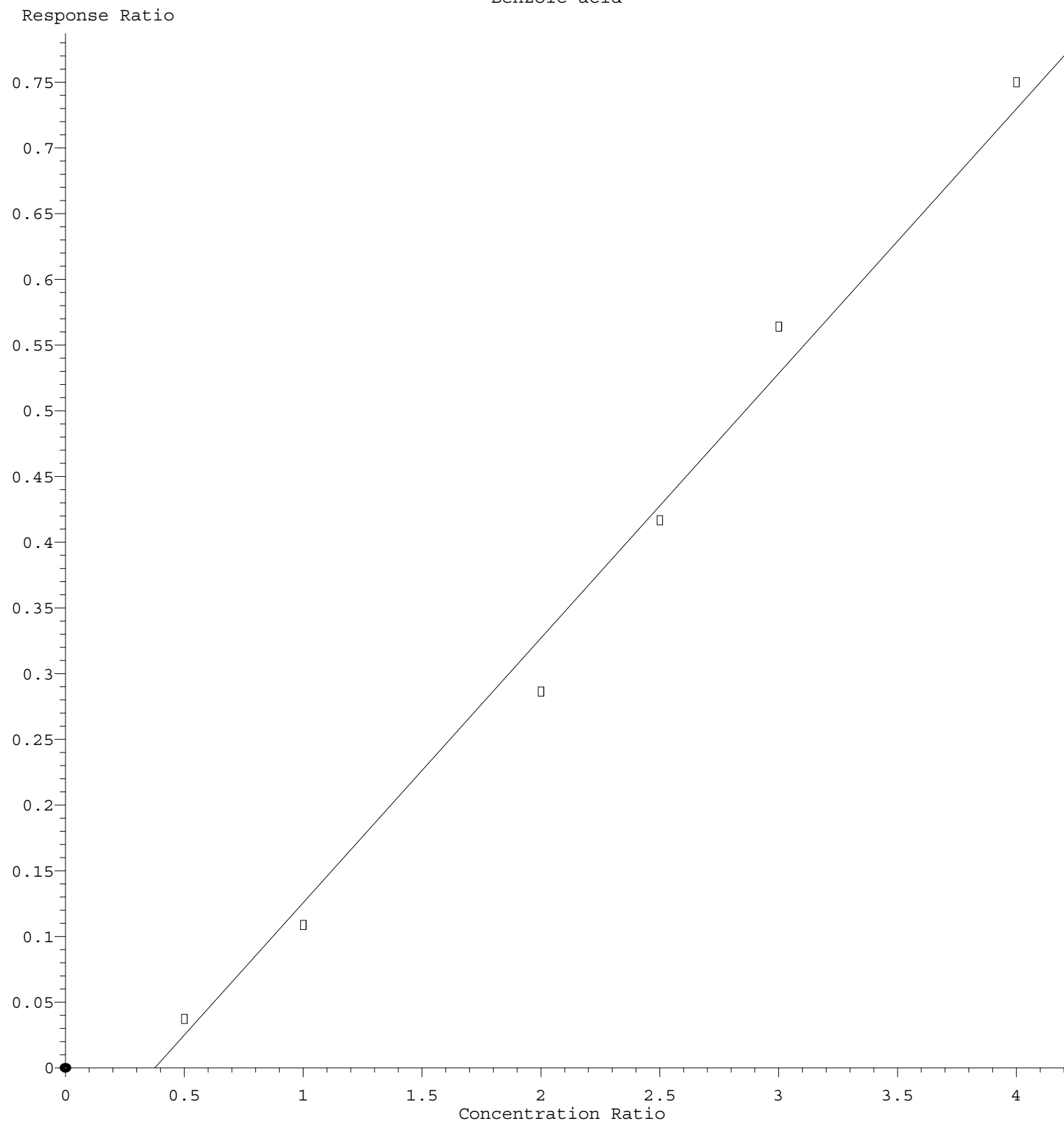
$$R = 1.504e-002 A^2 + 1.018e-001 A - 1.498e-002$$

Coef of Det (r^2) = 0.997225 Curve Fit: Quadratic w(1/a)

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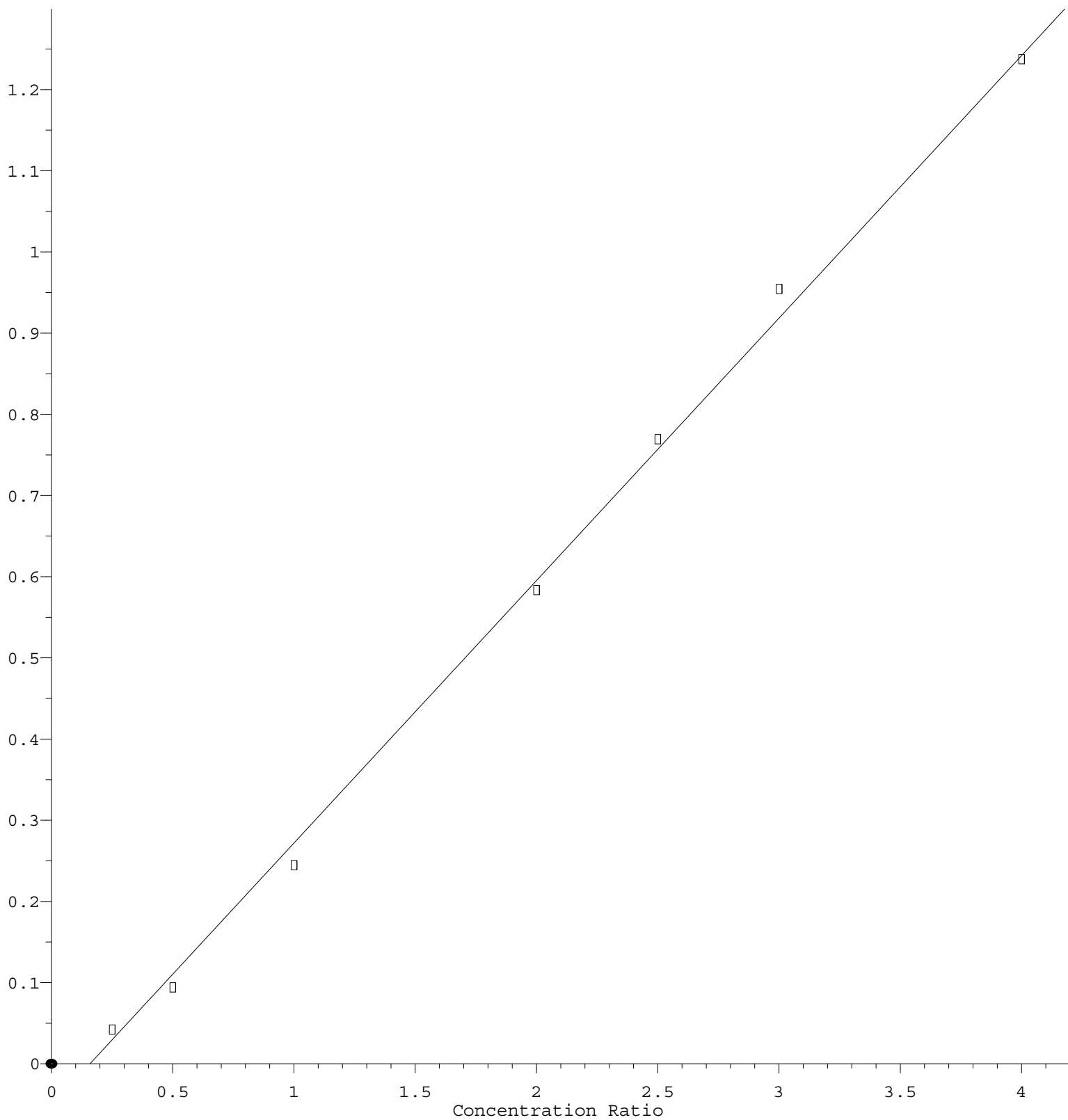
Benzoic acid



$\text{Response} = 2.013\text{e-}001 * \text{Amt} - 7.573\text{e-}002$
 Coef of Det (r^2) = 0.990236 Curve Fit: wlr(1/a)
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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.234\text{e-}001 * \text{Amt} - 5.134\text{e-}002$$

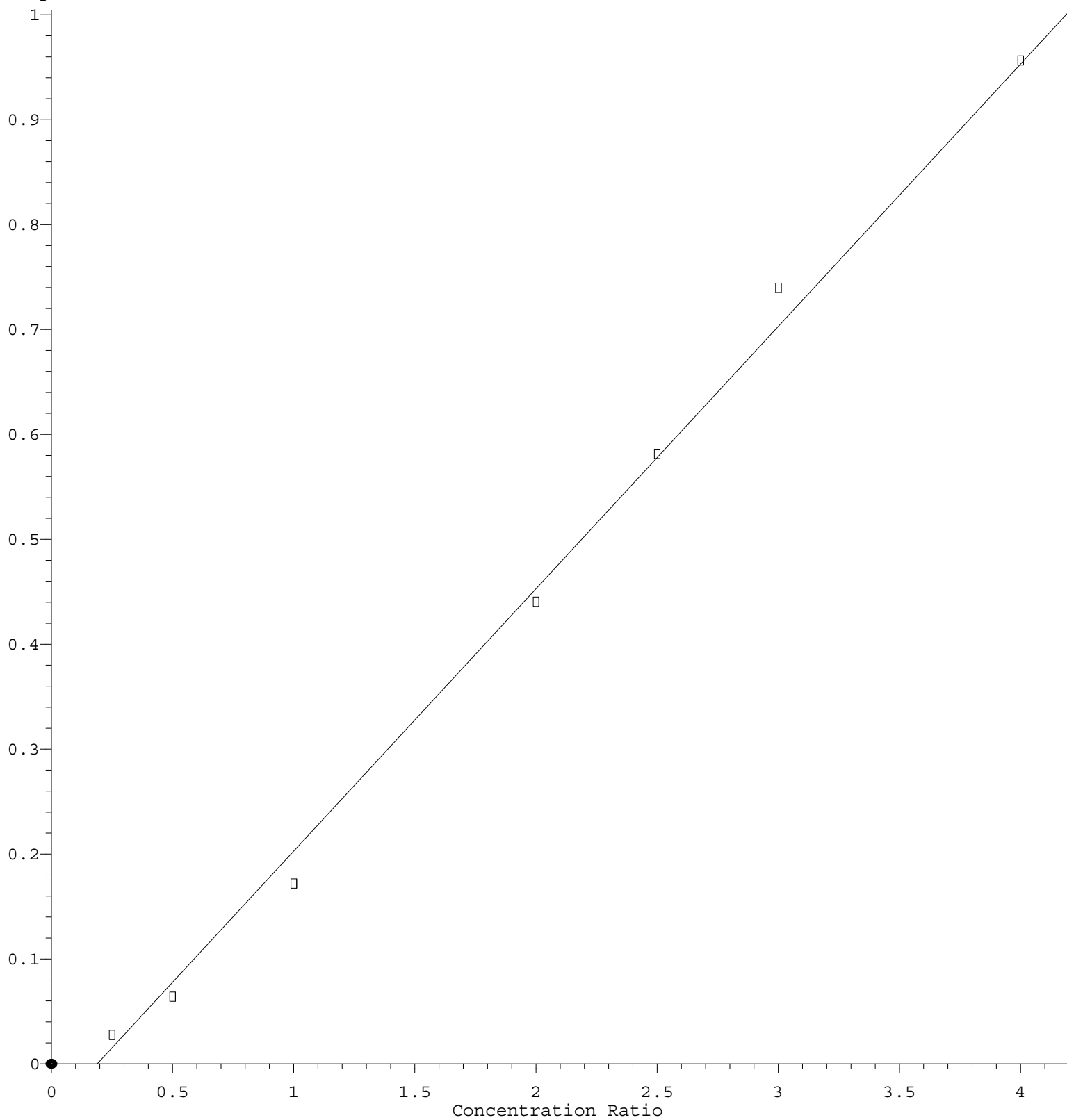
Coef of Det (r^2) = 0.996841 Curve Fit: wlr(1/a)

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 2.500\text{e-}001 * \text{Amt} - 4.737\text{e-}002$$

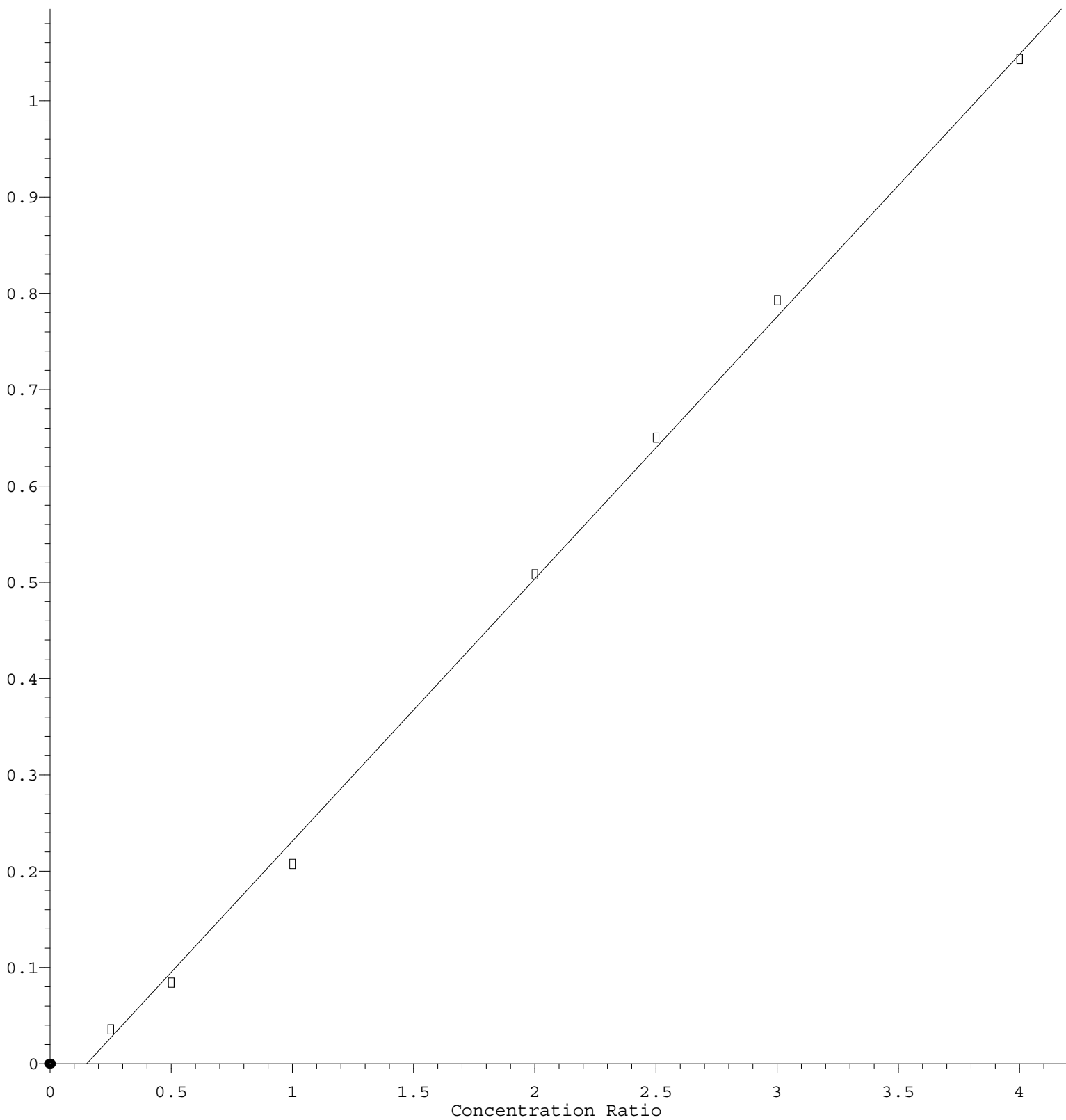
Coef of Det (r^2) = 0.994733 Curve Fit: wlr(1/a)

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3-Nitroaniline

Response Ratio



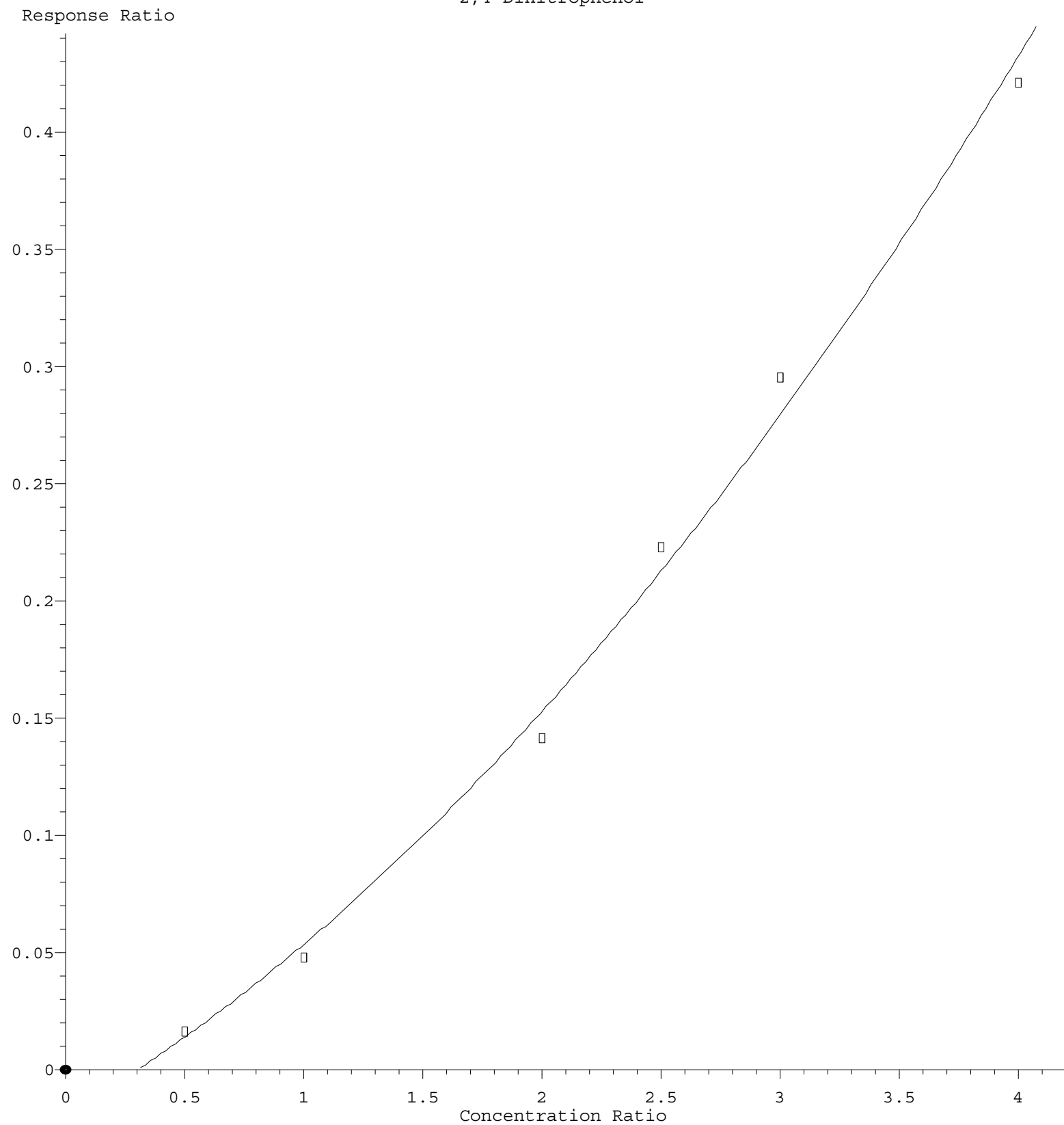
$$\text{Response} = 2.724\text{e-}001 * \text{Amt} - 4.113\text{e-}002$$

Coef of Det (r^2) = 0.997729 Curve Fit: wlr(1/a)

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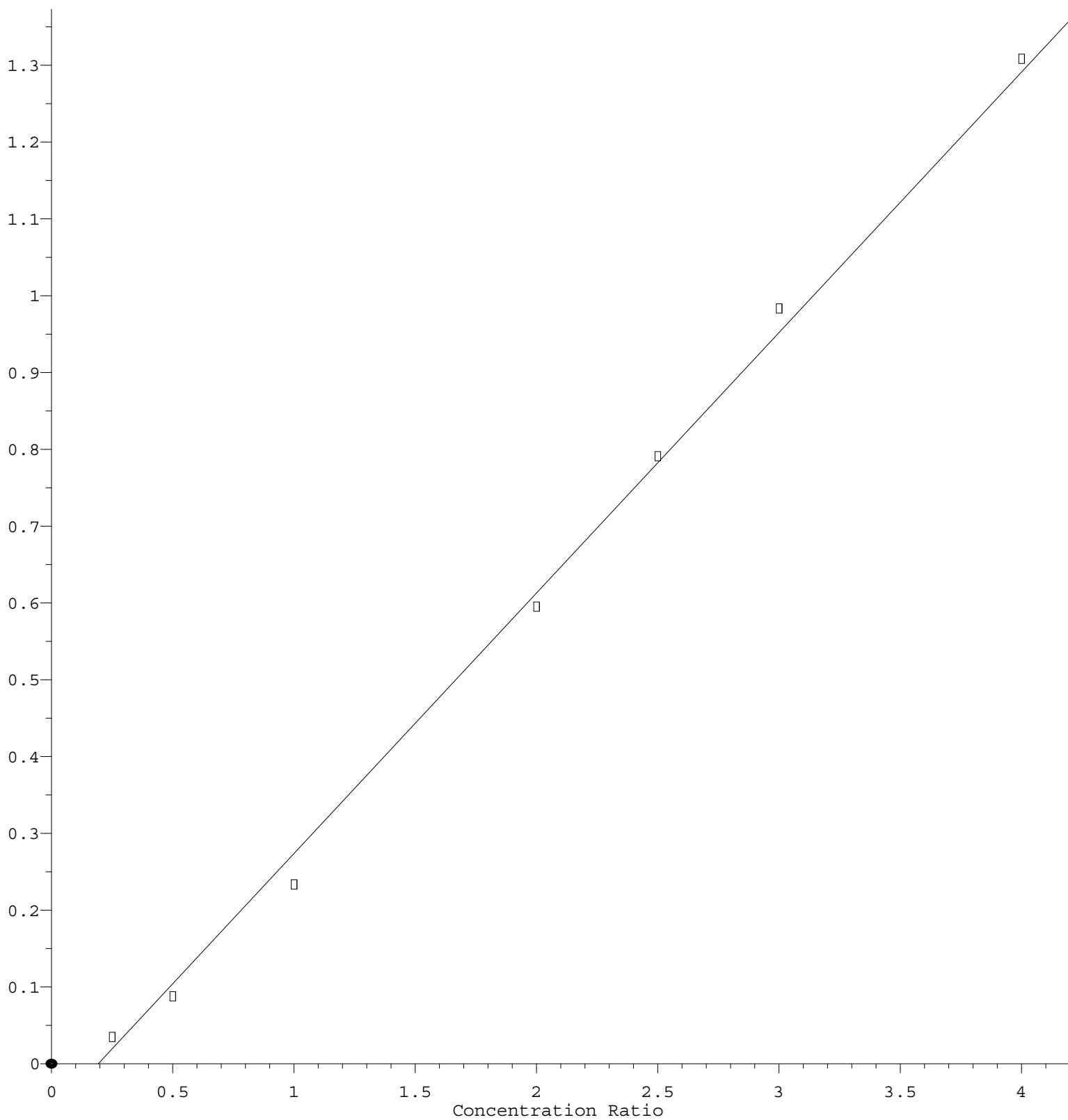
2,4-Dinitrophenol



$R = 1.348e-002 A^2 + 5.898e-002 A - 1.899e-002$
 Coef of Det (r^2) = 0.995670 Curve Fit: Quadratic w(1/a)
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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.391\text{e-}001 * \text{Amt} - 6.557\text{e-}002$$

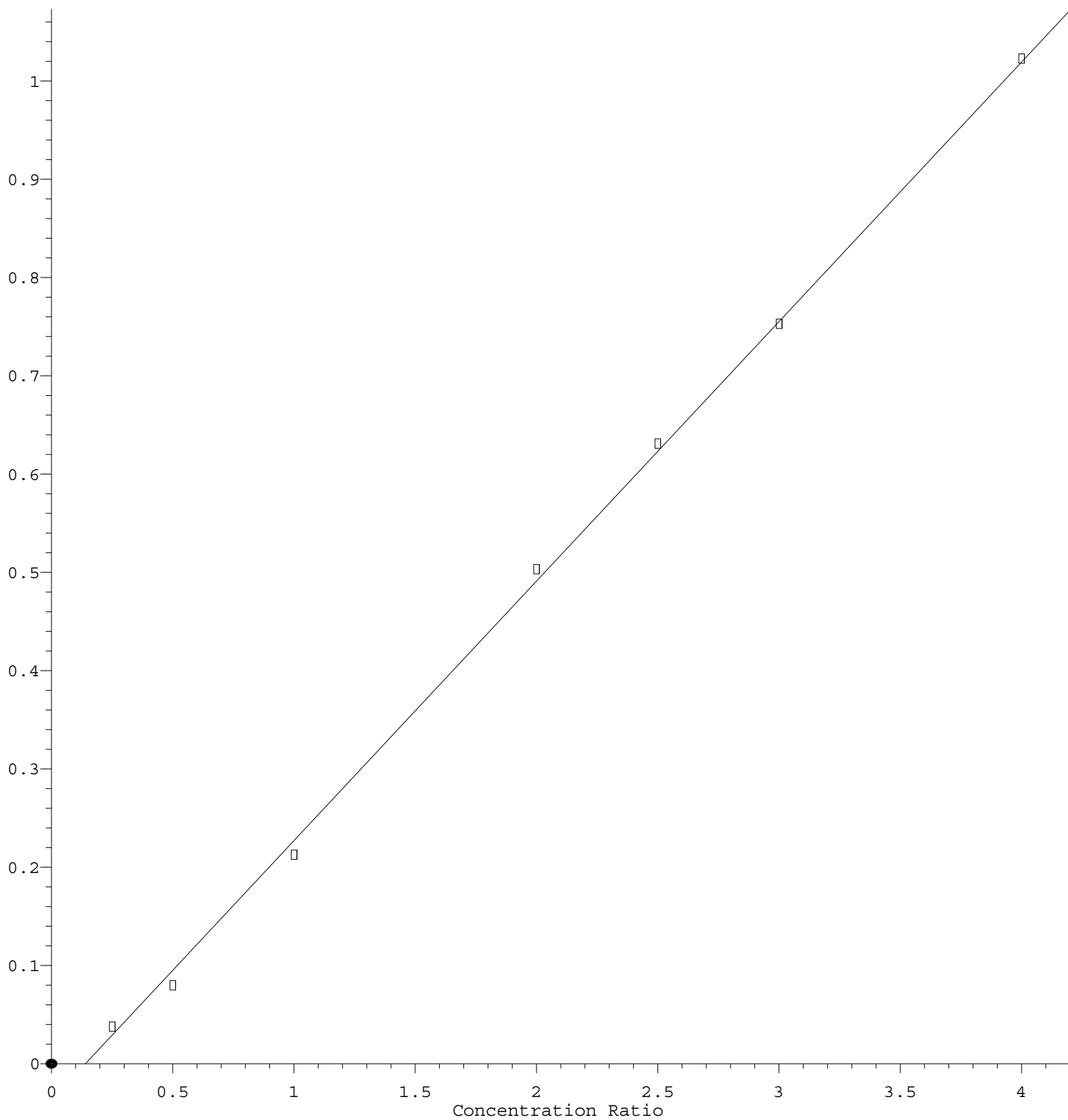
Coef of Det (r^2) = 0.995701 Curve Fit: wlr(1/a)

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4-Nitroaniline

Response Ratio



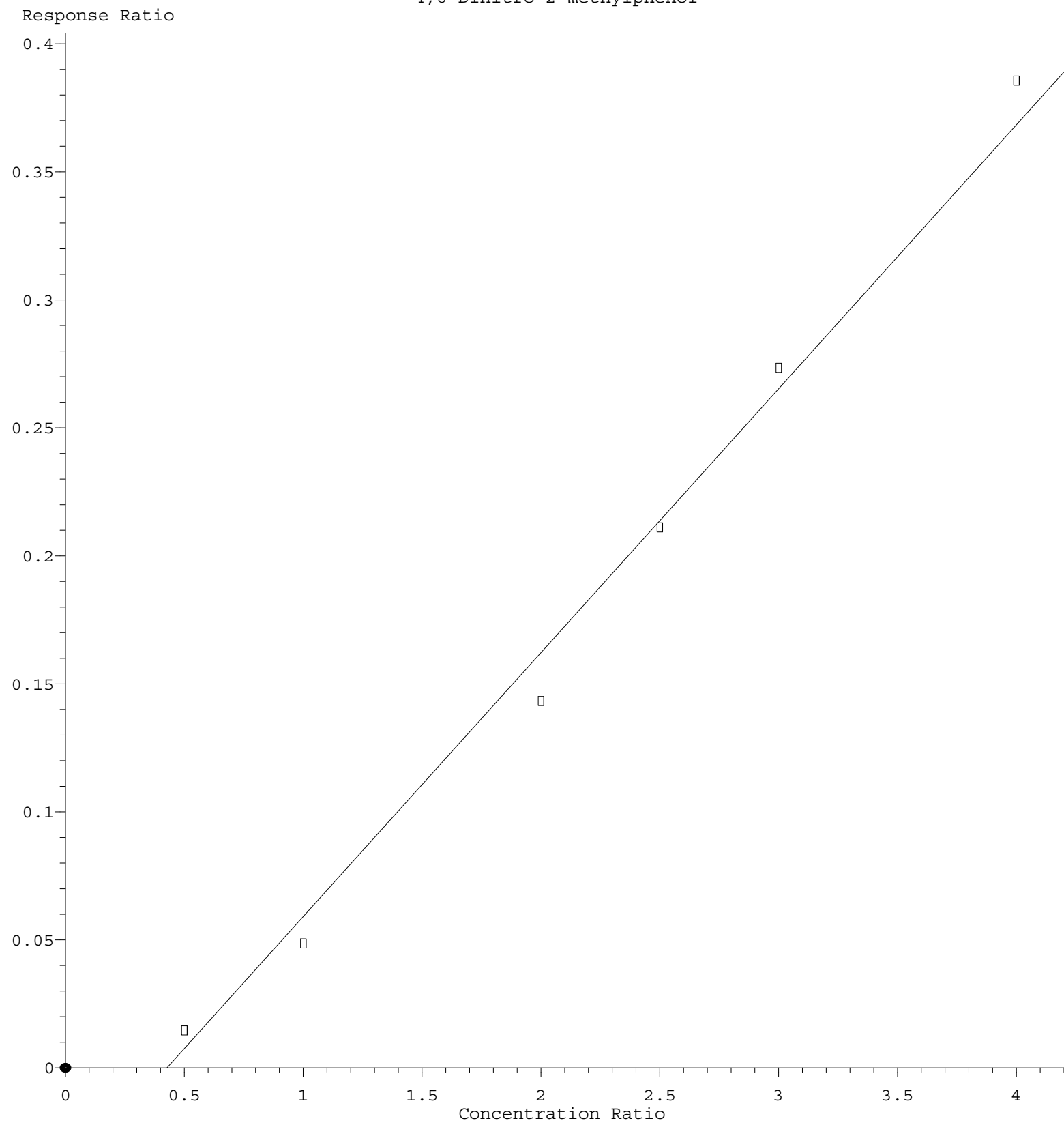
$$\text{Response} = 2.641\text{e-}001 * \text{Amt} - 3.707\text{e-}002$$

Coef of Det (r^2) = 0.997924 Curve Fit: wlr(1/a)

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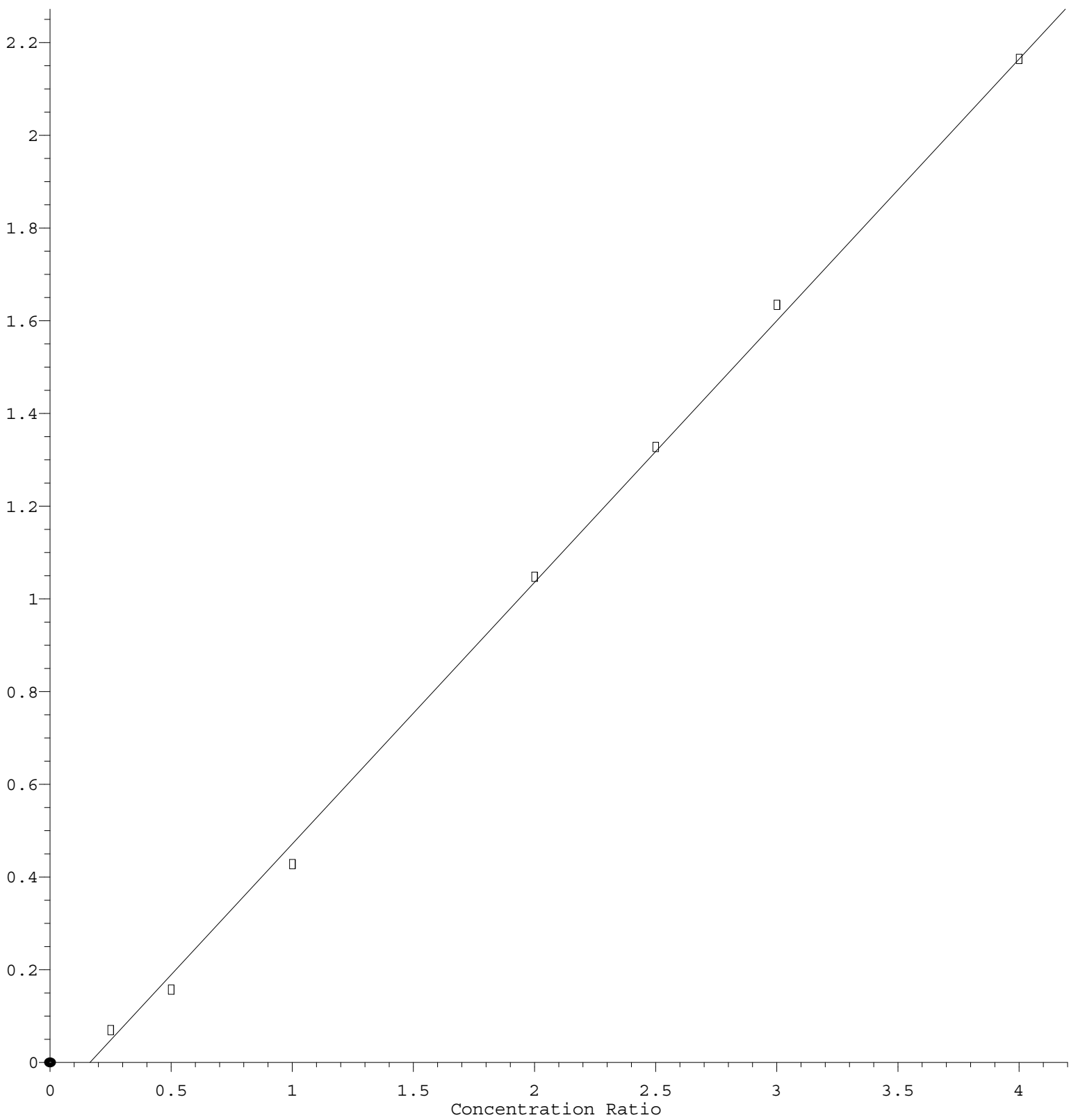
4,6-Dinitro-2-methylphenol



Response = $1.031e-001 * Amt - 4.401e-002$
 Coef of Det (r^2) = 0.990866 Curve Fit: wlr(1/a)
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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.646\text{e-}001 * \text{Amt} - 9.312\text{e-}002$$

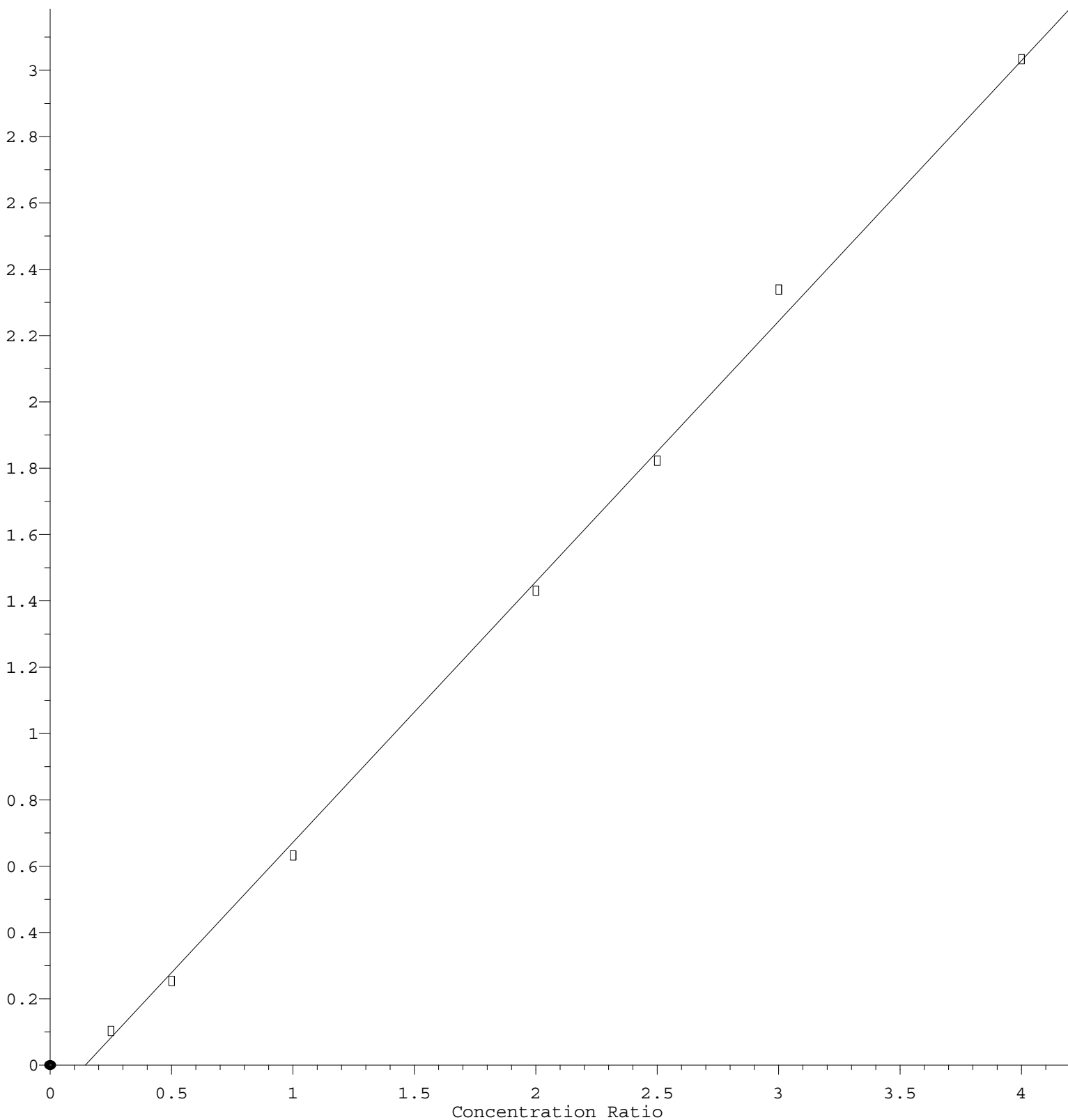
Coef of Det (r^2) = 0.997338 Curve Fit: wlr(1/a)

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 7.857\text{e-}001 * \text{Amt} - 1.139\text{e-}001$$

Coef of Det (r^2) = 0.998208 Curve Fit: wlr(1/a)

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