

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG030525.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Mar 05 15:39:19 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BG064045.D 5 =BG064046.D 10 =BG064047.D 20 =BG064048.D 40 =BG064049.D 50 =BG064050.D 60 =BG064051.D 80 =BG064052.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane		0.598	0.605	0.624	0.585	0.559	0.539	0.554	0.580	5.31
3)	Pyridine		1.450	1.445	1.452	1.573	1.338	1.376	1.248	1.412	7.30
4)	n-Nitrosodimet...		0.892	0.976	1.017	1.064	0.996	1.047	1.068	1.009	6.16
5) S	2-Fluorophenol		1.165	1.240	1.330	1.350	1.259	1.318	1.304	1.281	5.00
6)	Aniline		1.593	1.670	1.825	1.820	1.642	1.748	1.671	1.710	5.24
7) S	Phenol-d6		1.580	1.631	1.794	1.848	1.703	1.839	1.803	1.742	6.09
8)	2-Chlorophenol		1.262	1.337	1.412	1.446	1.333	1.420	1.420	1.376	4.80
9)	Benzaldehyde		1.111	1.122	1.133	1.003	0.860	0.850		1.013	12.94
10) C	Phenol		1.590	1.693	1.826	1.881	1.752	1.900	1.846	1.784	6.30
11)	bis(2-Chloroet...		1.375	1.444	1.424	1.415	1.322	1.418	1.394	1.399	2.88
12)	1,3-Dichlorobe...		1.523	1.539	1.501	1.546	1.438	1.519	1.508	1.511	2.36
13) C	1,4-Dichlorobe...		1.548	1.546	1.607	1.592	1.478	1.536	1.532	1.548	2.72
14)	1,2-Dichlorobe...		1.488	1.464	1.543	1.519	1.416	1.525	1.497	1.493	2.88
15)	Benzyl Alcohol		1.115	1.249	1.343	1.436	1.358	1.467	1.457	1.346	9.50
16)	2,2'-oxybis(1-...		3.064	3.024	3.209	3.282	2.996	3.218	3.222	3.145	3.61
17)	2-Methylphenol		1.015	1.116	1.177	1.268	1.171	1.269	1.271	1.184	8.11
18)	Hexachloroethane		0.489	0.519	0.520	0.577	0.526	0.581	0.580	0.542	6.88
19) P	n-Nitroso-di-n...	1.146	1.095	1.157	1.282	1.323	1.189	1.322	1.268	1.223	7.13
20)	3+4-Methylphenols		1.402	1.518	1.638	1.706	1.612	1.804	1.729	1.630	8.34
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone		0.522	0.525	0.580	0.563	0.546	0.561	0.543	0.548	3.82
23) S	Nitrobenzene-d5		0.290	0.300	0.360	0.385	0.390	0.400	0.409	0.362	13.32
24)	Nitrobenzene		0.298	0.320	0.390	0.397	0.396	0.409	0.409	0.374	12.20
25)	Isophorone		0.709	0.672	0.744	0.745	0.717	0.757	0.727	0.724	3.93
26) C	2-Nitrophenol		0.067	0.079	0.096	0.122	0.130	0.141	0.147	0.112	28.03
27)	2,4-Dimethylph...		0.194	0.187	0.221	0.228	0.221	0.239	0.229	0.217	8.82
28)	bis(2-Chloroet...		0.424	0.417	0.468	0.443	0.427	0.449	0.445	0.439	4.03
29) C	2,4-Dichloroph...		0.222	0.239	0.281	0.287	0.290	0.301	0.298	0.274	11.22
30)	1,2,4-Trichlor...		0.323	0.317	0.343	0.332	0.336	0.335	0.332	0.331	2.54
31)	Naphthalene		1.078	1.043	1.114	1.079	1.061	1.097	1.077	1.078	2.13
32)	Benzoic acid			0.078	0.139	0.172	0.191	0.217	0.220	0.170	31.75
33)	4-Chloroaniline		0.355	0.364	0.407	0.416	0.394	0.419	0.404	0.394	6.46
34) C	Hexachlorobuta...		0.208	0.213	0.225	0.219	0.216	0.220	0.218	0.217	2.55
35)	Caprolactam		0.086	0.091	0.112	0.110	0.113	0.112	0.111	0.105	10.78
36) C	4-Chloro-3-met...		0.293	0.330	0.379	0.373	0.373	0.390	0.376	0.359	9.67
37)	2-Methylnaphth...		0.775	0.727	0.788	0.763	0.746	0.779	0.751	0.761	2.80
38)	1-Methylnaphth...		0.745	0.728	0.771	0.753	0.724	0.768	0.733	0.746	2.53

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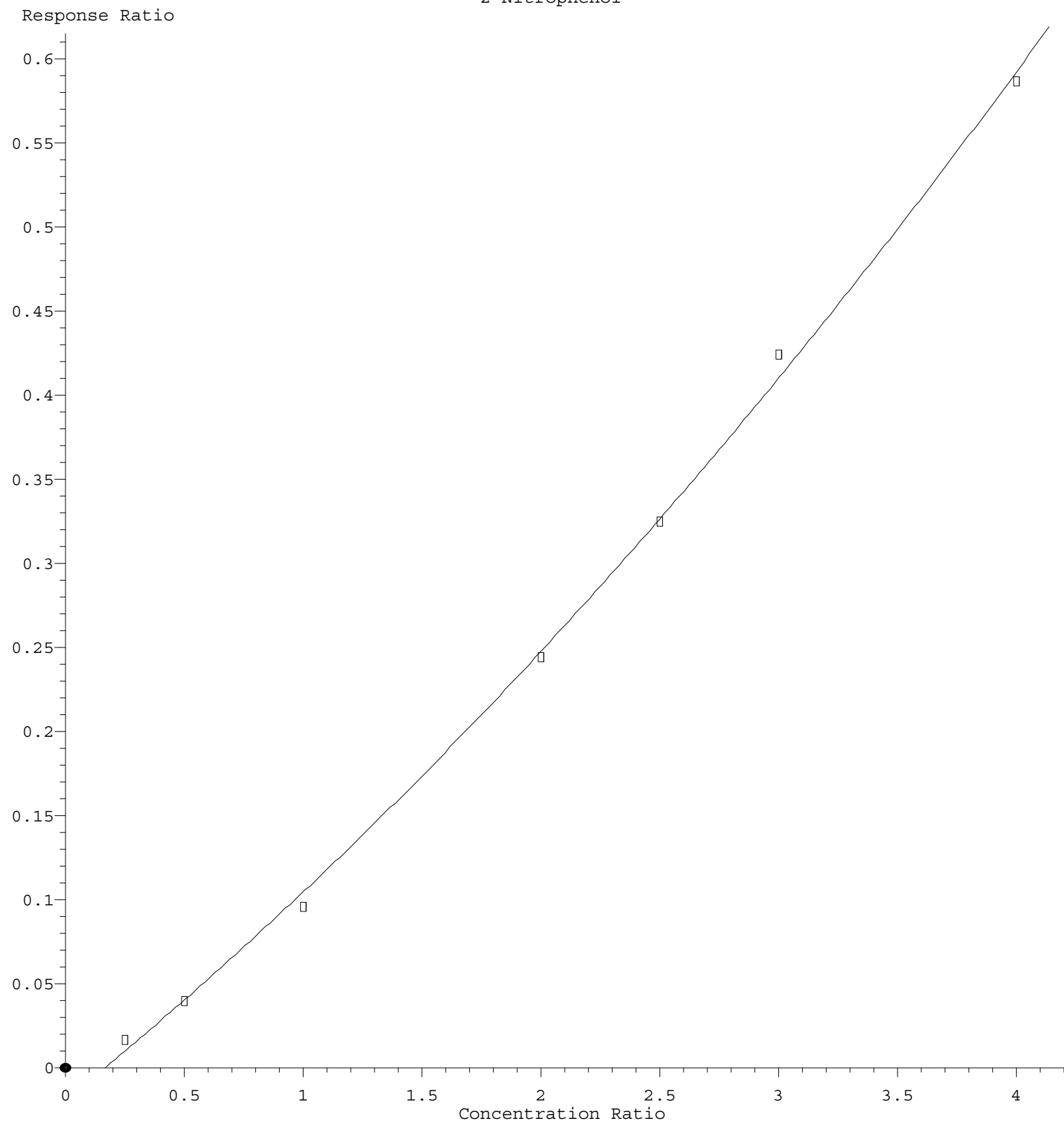
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.547	0.584	0.592	0.586	0.560	0.562	0.566	0.571	2.88	
41) P	Hexachlorocycl...	0.123	0.128	0.161	0.175	0.175	0.180	0.183	0.161	15.44	
42) S	2,4,6-Tribromo...	0.166	0.191	0.226	0.241	0.241	0.250	0.241	0.222	14.12	
43) C	2,4,6-Trichlor...	0.268	0.293	0.341	0.358	0.362	0.368	0.366	0.337	11.89	
44)	2,4,5-Trichlor...	0.284	0.330	0.381	0.406	0.396	0.407	0.413	0.374	12.98	
45) S	2-Fluorobiphenyl	1.369	1.310	1.359	1.368	1.283	1.284	1.251	1.318	3.62	
46)	1,1'-Biphenyl	1.506	1.499	1.572	1.538	1.475	1.512	1.475	1.511	2.29	
47)	2-Chloronaphth...	1.086	1.075	1.100	1.127	1.102	1.121	1.103	1.102	1.63	
48)	2-Nitroaniline	0.197	0.231	0.277	0.348	0.368	0.396	0.408	0.318	26.14	
49)	Acenaphthylene	1.714	1.677	1.793	1.789	1.735	1.777	1.717	1.743	2.53	
50)	Dimethylphthalate	1.432	1.401	1.559	1.520	1.463	1.508	1.452	1.476	3.73	
51)	2,6-Dinitrotol...	0.158	0.200	0.262	0.292	0.300	0.307	0.308	0.261	22.73	
52) C	Acenaphthene	1.165	1.148	1.231	1.187	1.159	1.171	1.128	1.170	2.77	
53)	3-Nitroaniline	0.190	0.228	0.298	0.316	0.313	0.329	0.323	0.285	18.96	
54) P	2,4-Dinitrophenol		0.066	0.084	0.100	0.111	0.121	0.129	0.102	23.25	
55)	Dibenzofuran	1.926	1.881	1.976	1.941	1.853	1.864	1.826	1.895	2.84	
56) P	4-Nitrophenol		0.164	0.200	0.257	0.280	0.270	0.265	0.239	19.47	
57)	2,4-Dinitrotol...	0.225	0.255	0.344	0.404	0.418	0.426	0.424	0.357	23.78	
58)	Fluorene	1.555	1.450	1.542	1.478	1.452	1.460	1.395	1.476	3.79	
59)	2,3,4,6-Tetrac...	0.262	0.326	0.388	0.395	0.385	0.402	0.393	0.365	14.21	
60)	Diethylphthalate	1.496	1.501	1.709	1.669	1.624	1.637	1.584	1.603	5.06	
61)	4-Chlorophenyl...	0.754	0.744	0.788	0.735	0.712	0.721	0.681	0.733	4.61	
62)	4-Nitroaniline	0.213	0.263	0.313	0.345	0.351	0.339	0.333	0.308	16.67	
63)	Azobenzene	1.734	1.645	1.785	1.758	1.700	1.705	1.644	1.710	3.13	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.050	0.059	0.075	0.082	0.092	0.096	0.076	24.31	
66) c	n-Nitrosodiphe...	0.558	0.551	0.582	0.578	0.558	0.571	0.565	0.566	2.06	
67)	4-Bromophenyl-...	0.186	0.195	0.212	0.210	0.200	0.217	0.213	0.205	5.61	
68)	Hexachlorobenzene	0.227	0.226	0.236	0.229	0.228	0.229	0.230	0.229	1.45	
69)	Atrazine	0.175	0.190	0.179	0.160	0.129			0.167	14.34	
70) C	Pentachlorophenol		0.105	0.128	0.149	0.151	0.159	0.163	0.142	15.58	
71)	Phenanthrene	1.084	1.034	1.110	1.080	1.054	1.059	1.047	1.067	2.44	
72)	Anthracene	1.024	1.041	1.104	1.085	1.055	1.065	1.051	1.061	2.55	
73)	Carbazole	0.949	0.988	1.020	1.027	1.007	0.986	0.956	0.990	3.02	
74)	Di-n-butylphth...	0.932	1.095	1.213	1.257	1.236	1.219	1.208	1.166	9.90	
75) C	Fluoranthene	1.272	1.315	1.336	1.318	1.298	1.243	1.221	1.286	3.31	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.221	0.400	0.238	0.313	0.195	0.299	0.271	0.277	24.80	
78)	Pyrene	1.251	1.287	1.350	1.310	1.254	1.290	1.282	1.289	2.63	
79) S	Terphenyl-d14	1.011	1.024	1.062	0.999	0.944	0.957	0.927	0.989	4.88	
80)	Butylbenzylpht...	0.285	0.331	0.405	0.465	0.473	0.503	0.502	0.423	20.44	
81)	Benzo(a)anthra...	1.217	1.268	1.310	1.303	1.275	1.309	1.286	1.281	2.54	
82)	3,3'-Dichlorob...	0.350	0.396	0.444	0.450	0.416	0.436	0.411	0.415	8.27	
83)	Chrysene	1.281	1.233	1.308	1.306	1.263	1.301	1.252	1.278	2.29	
84)	Bis(2-ethylhex...	0.504	0.582	0.685	0.757	0.751	0.789	0.782	0.693	15.90	
85) c	Di-n-octyl pht...		0.892	1.108	1.239	1.256	1.339	1.338	1.195	14.31	

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.223	1.232	1.408	1.376	1.354	1.381	1.394	1.338	5.80
88)	Benzo(b)fluora...	1.150	1.146	1.269	1.216	1.232	1.215	1.236	1.209	3.76
89)	Benzo(k)fluora...	1.111	1.189	1.281	1.255	1.205	1.234	1.215	1.213	4.49
90) C	Benzo(a)pyrene	0.993	1.022	1.124	1.107	1.106	1.092	1.093	1.077	4.57
91)	Dibenzo(a,h)an...	1.029	1.036	1.151	1.133	1.134	1.123	1.160	1.109	4.86
92)	Benzo(g,h,i)pe...	1.049	1.093	1.208	1.152	1.146	1.155	1.168	1.139	4.58

(#) = Out of Range

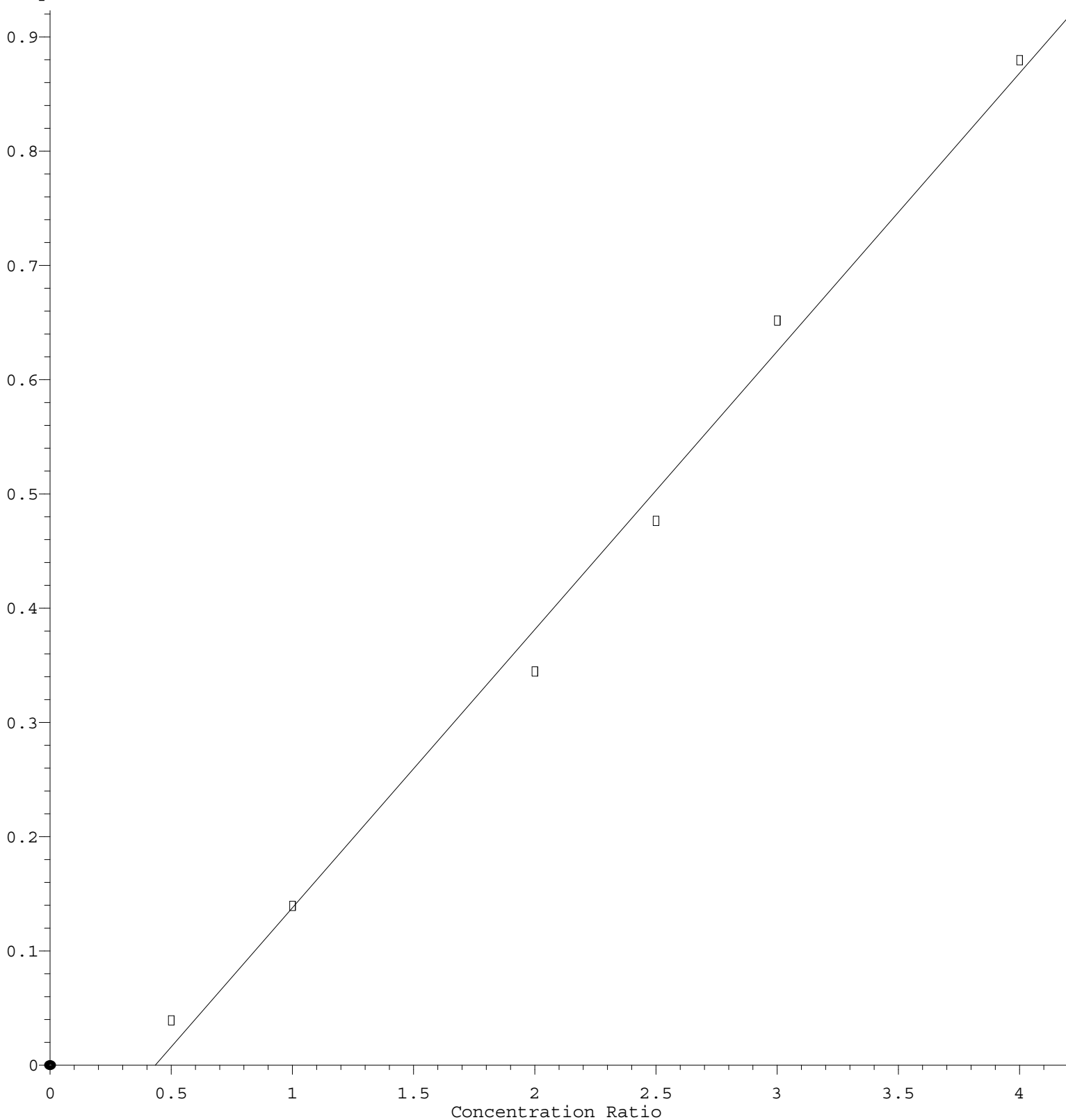
2-Nitrophenol



$R = 9.766e-003 A^2 + 1.137e-001 A - 1.893e-002$
 Coef of Det (r^2) = 0.998666 Curve Fit: Quadratic
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Benzoic acid

Response Ratio



$$\text{Response} = 2.435\text{e-}001 * \text{Amt} - 1.058\text{e-}001$$

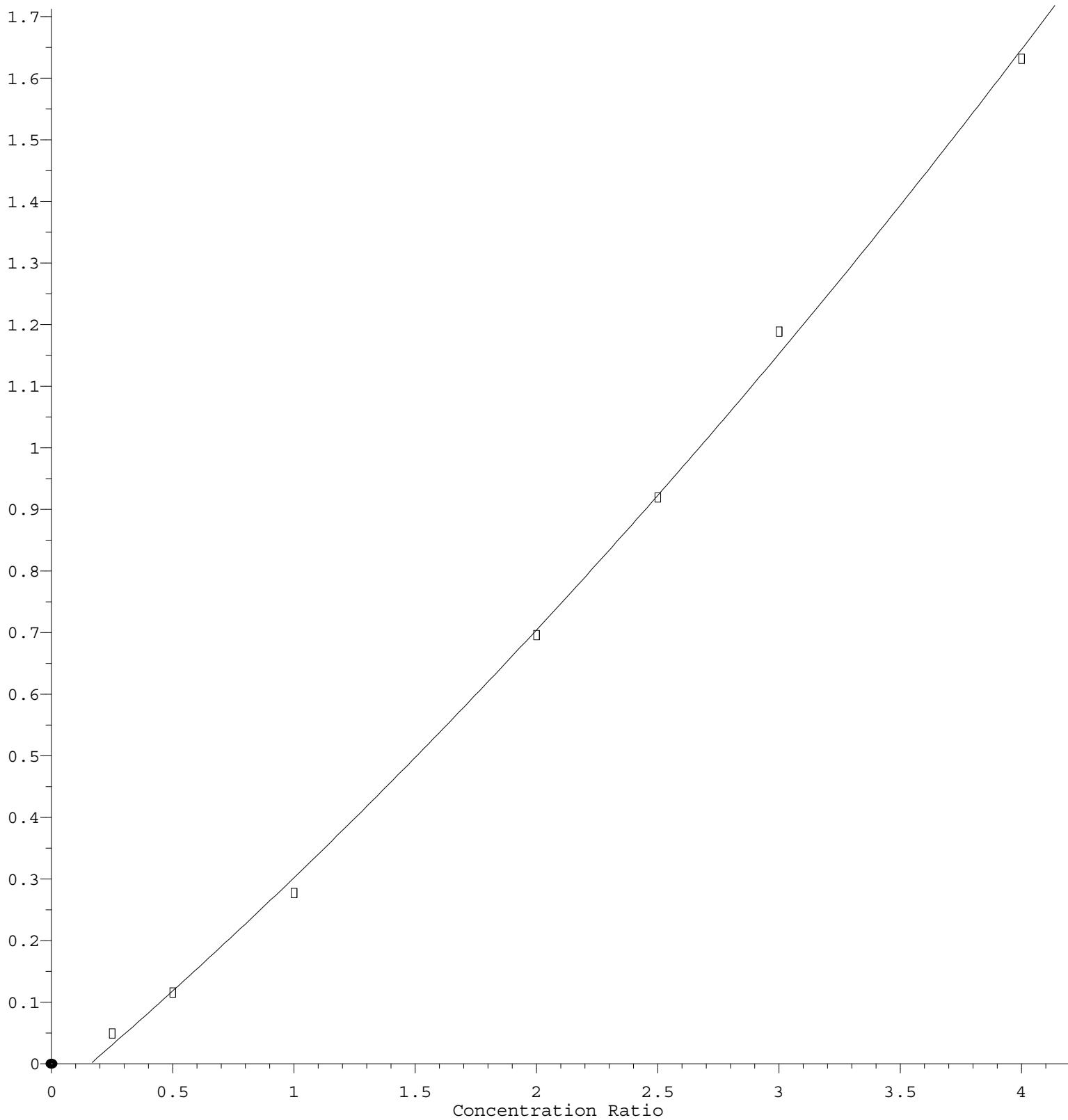
Coef of Det (r^2) = 0.993062 Curve Fit: Linear

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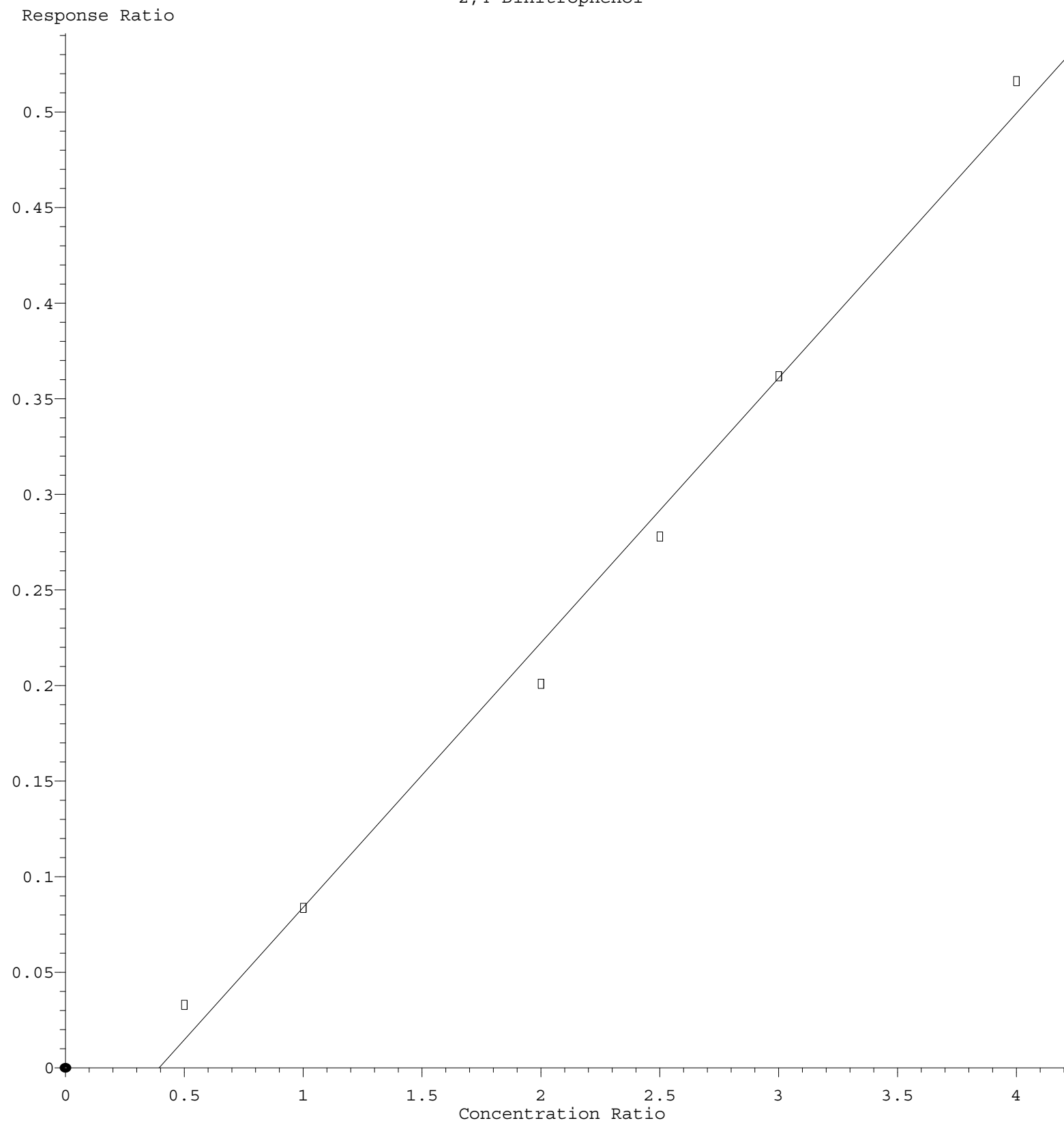
2-Nitroaniline

Response Ratio



$R = 2.299\text{e-}002 A^2 + 3.333\text{e-}001 A - 5.414\text{e-}002$
Coef of Det (r^2) = 0.998770 Curve Fit: Quadratic
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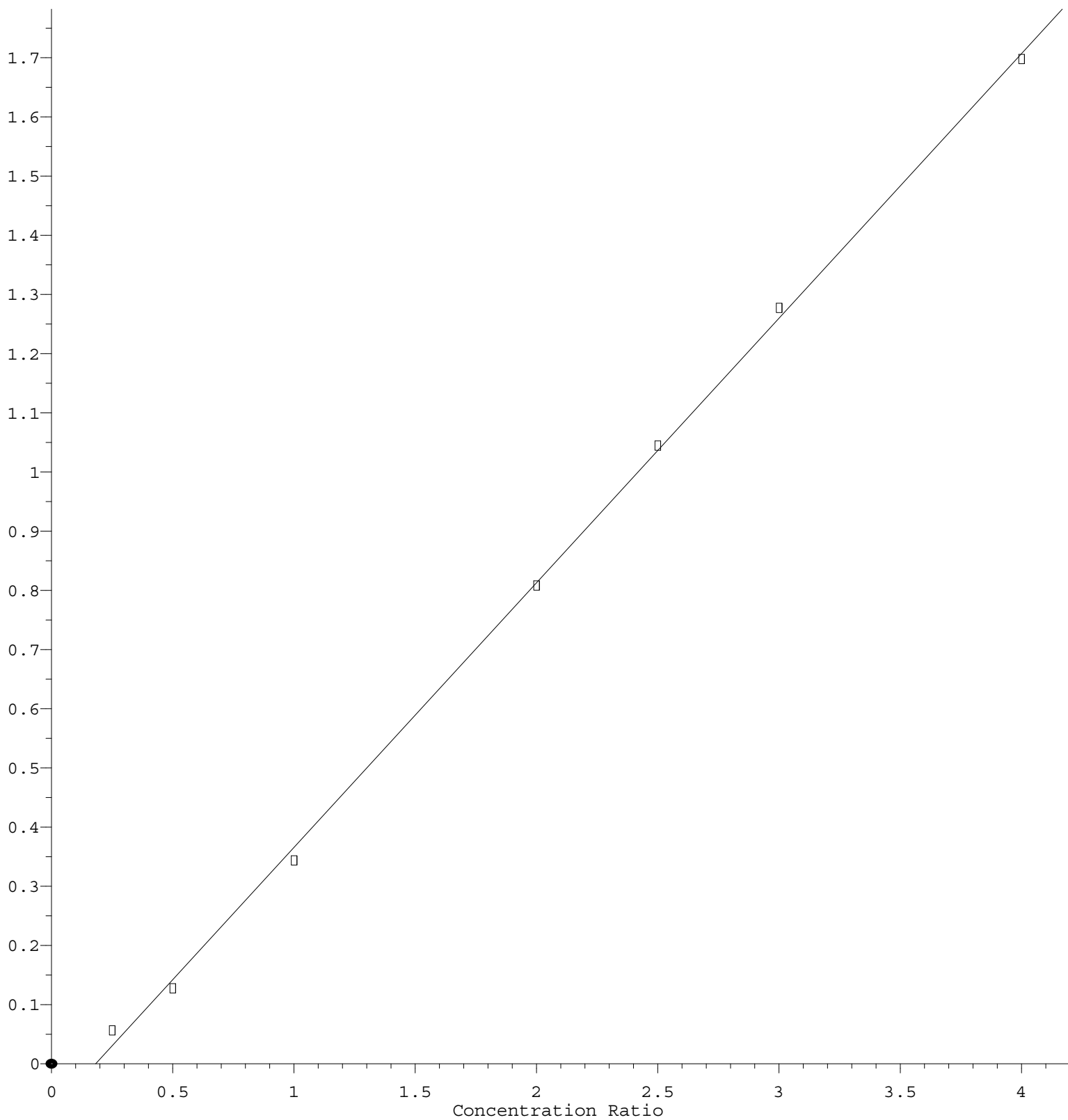
2,4-Dinitrophenol



Response = 1.385e-001 * Amt - 5.459e-002
 Coef of Det (r^2) = 0.992124 Curve Fit: Linear
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2,4-Dinitrotoluene

Response Ratio



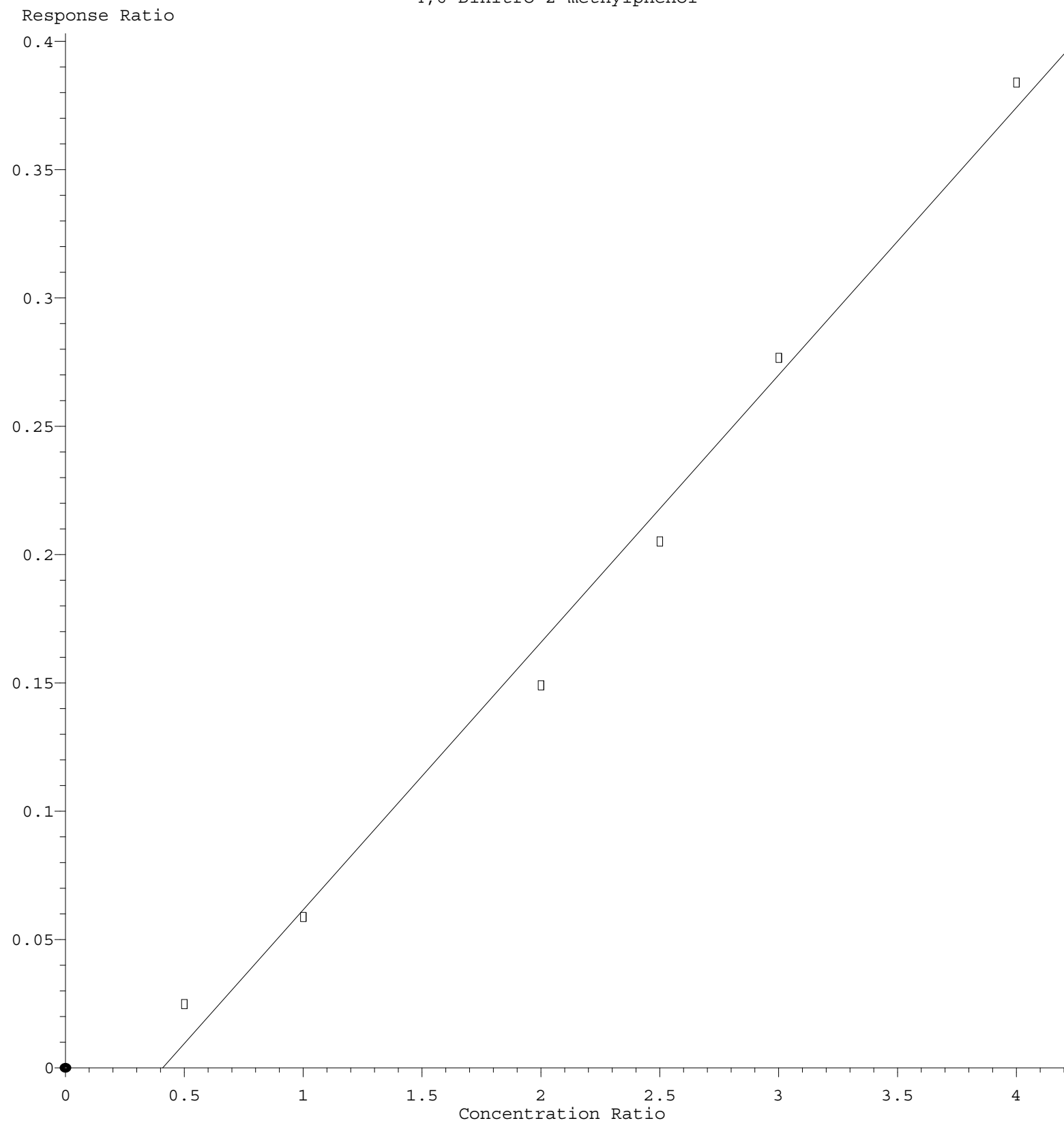
$$\text{Response} = 4.472\text{e-}001 * \text{Amt} - 8.152\text{e-}002$$

Coef of Det (r^2) = 0.999194 Curve Fit: Linear

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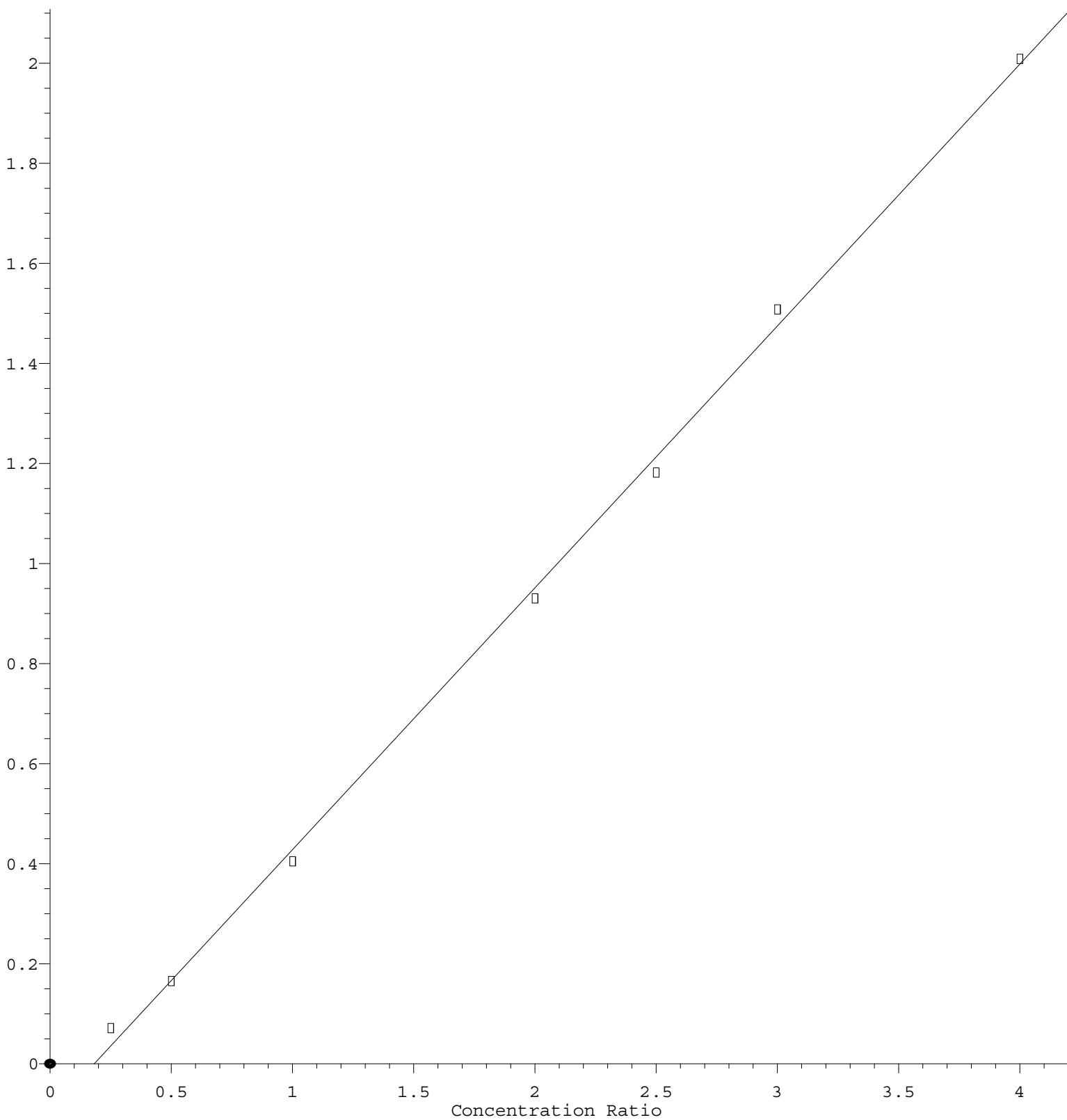
4,6-Dinitro-2-methylphenol



Response = $1.041e-001 * Amt - 4.259e-002$
 Coef of Det (r^2) = 0.990937 Curve Fit: Linear
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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.234\text{e-}001 * \text{Amt} - 9.520\text{e-}002$$

Coef of Det (r^2) = 0.998592 Curve Fit: Linear

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