

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM092722.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 28 01:39:14 2022
 Response Via : Initial Calibration

Calibration Files

5 =BM036781.D 10 =BM036782.D 20 =BM036783.D 40 =BM036784.D 50 =BM036785.D 60 =BM036786.D 80 =BM036787.D

	Compound	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.566	0.499	0.543	0.509	0.496	0.495	0.467	0.511	6.46
3)	Pyridine	1.332	1.382	1.499	1.515	1.491	1.556	1.496	1.467	5.41
4)	n-Nitrosodimet...	0.628	0.595	0.634	0.617	0.601	0.617	0.577	0.610	3.30
5) S	2-Fluorophenol	1.127	1.089	1.189	1.190	1.178	1.218	1.170	1.166	3.73
6)	Aniline	1.810	1.866	1.951	2.030	1.944	2.056	1.973	1.947	4.43
7) S	Phenol-d6	1.491	1.495	1.593	1.655	1.610	1.709	1.638	1.599	5.06
8)	2-Chlorophenol	1.296	1.288	1.380	1.385	1.331	1.386	1.324	1.342	3.14
9)	Benzaldehyde	1.114	1.082	1.064	0.965	0.899	0.882	0.753	0.965	13.50
10) C	Phenol	1.682	1.699	1.800	1.858	1.792	1.901	1.817	1.793	4.42
11)	bis(2-Chloroet...	1.387	1.377	1.408	1.437	1.362	1.434	1.377	1.398	2.12
12)	1,3-Dichlorobe...	1.481	1.437	1.531	1.503	1.438	1.475	1.412	1.468	2.85
13) C	1,4-Dichlorobe...	1.544	1.500	1.569	1.543	1.478	1.509	1.443	1.512	2.85
14)	1,2-Dichlorobe...	1.477	1.422	1.510	1.474	1.408	1.448	1.374	1.445	3.23
15)	Benzyl Alcohol	1.052	1.127	1.142	1.203	1.151	1.242	1.210	1.161	5.47
16)	2,2'-oxybis(1-...	1.809	1.858	1.811	1.800	1.665	1.750	1.639	1.762	4.64
17)	2-Methylphenol	1.086	1.124	1.170	1.186	1.132	1.209	1.159	1.152	3.60
18)	Hexachloroethane	0.536	0.524	0.543	0.546	0.527	0.541	0.519	0.534	2.00
19) P	n-Nitroso-di-n...	0.967	1.091	1.034	1.097	1.015	1.123	1.087	1.059	5.23
20)	3+4-Methylphenols	1.426	1.532	1.561	1.630	1.535	1.662	1.615	1.566	5.05
21) I	Naphthalene-d8	-----ISTD-----								
22)	Acetophenone	0.469	0.484	0.524	0.533	0.517	0.541	0.532	0.514	5.27
23) S	Nitrobenzene-d5	0.347	0.351	0.396	0.405	0.397	0.412	0.401	0.387	6.83
24)	Nitrobenzene	0.366	0.373	0.415	0.418	0.409	0.420	0.410	0.401	5.62
25)	Isophorone	0.534	0.603	0.628	0.672	0.643	0.708	0.714	0.643	9.81
26) C	2-Nitrophenol	0.103	0.116	0.137	0.155	0.155			0.133	17.49
27)	2,4-Dimethylph...	0.225	0.238	0.258	0.272	0.263	0.279	0.278	0.259	7.99
28)	bis(2-Chloroet...	0.371	0.388	0.397	0.409	0.393	0.417	0.413	0.398	4.05
29) C	2,4-Dichloroph...	0.228	0.248	0.276	0.293	0.287	0.305	0.306	0.277	10.61
30)	1,2,4-Trichlor...	0.296	0.283	0.308	0.313	0.308	0.320	0.316	0.306	4.18
31)	Naphthalene	1.065	1.047	1.116	1.120	1.082	1.126	1.100	1.094	2.72
32)	Benzoic acid		0.129	0.146	0.194	0.186	0.222	0.241	0.186	23.17
33)	4-Chloroaniline	0.393	0.406	0.424	0.440	0.419	0.452	0.459	0.428	5.61
34) C	Hexachlorobuta...	0.163	0.157	0.169	0.171	0.167	0.174	0.173	0.168	3.65
35)	Caprolactam		0.075	0.077	0.086	0.085	0.095	0.105	0.087	13.04
36) C	4-Chloro-3-met...	0.253	0.295	0.298	0.317	0.306	0.334	0.347	0.307	9.93
37)	2-Methylnaphth...	0.641	0.674	0.696	0.719	0.695	0.745	0.749	0.703	5.48
38)	1-Methylnaphth...	0.629	0.660	0.679	0.702	0.674	0.724	0.731	0.686	5.29

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39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.531	0.483	0.556	0.567	0.554	0.573	0.547	0.544	5.58
41) P	Hexachlorocycl...	0.223	0.218	0.262	0.283	0.281	0.294	0.274	0.262	11.49
42) S	2,4,6-Tribromo...	0.144	0.151	0.165	0.163	0.178	0.198	0.166		11.63
43) C	2,4,6-Trichlor...	0.290	0.310	0.353	0.382	0.378	0.400	0.398	0.359	12.07
44)	2,4,5-Trichlor...	0.330	0.352	0.391	0.420	0.413	0.441	0.439	0.398	10.77
45) S	2-Fluorobiphenyl	1.339	1.274	1.431	1.472	1.430	1.456	1.351	1.393	5.22
46)	1,1'-Biphenyl	1.497	1.431	1.573	1.589	1.535	1.591	1.519	1.534	3.75
47)	2-Chloronaphth...	1.132	1.086	1.238	1.231	1.197	1.240	1.194	1.188	4.94
48)	2-Nitroaniline	0.271	0.309	0.352	0.387	0.378	0.402	0.411	0.359	14.44
49)	Acenaphthylene	1.582	1.674	1.870	1.954	1.903	1.965	1.933	1.840	8.18
50)	Dimethylphthalate	1.257	1.309	1.357	1.372	1.335	1.409	1.472	1.359	5.10
51)	2,6-Dinitrotol...	0.202	0.251	0.268	0.288	0.286	0.301	0.317	0.273	13.87
52) C	Acenaphthene	1.105	1.093	1.175	1.183	1.154	1.206	1.181	1.157	3.66
53)	3-Nitroaniline	0.231	0.288	0.320	0.346	0.346	0.357		0.315	15.19
54) P	2,4-Dinitrophenol	0.094	0.107	0.130	0.134	0.149			0.123	18.07
55)	Dibenzofuran	1.719	1.679	1.798	1.782	1.731	1.790	1.783	1.755	2.59
56) P	4-Nitrophenol	0.223	0.250	0.268	0.273	0.280	0.309	0.267		10.74
57)	2,4-Dinitrotol...	0.231	0.300	0.327	0.361	0.365	0.385		0.328	17.15
58)	Fluorene	1.336	1.379	1.447	1.470	1.430	1.488	1.499	1.436	4.15
59)	2,3,4,6-Tetrac...	0.262	0.290	0.313	0.329	0.322	0.344	0.363	0.318	10.57
60)	Diethylphthalate	1.221	1.289	1.268	1.306	1.269	1.338	1.448	1.306	5.54
61)	4-Chlorophenyl...	0.585	0.600	0.616	0.643	0.619	0.656	0.665	0.626	4.69
62)	4-Nitroaniline	0.222	0.295	0.332	0.351	0.356	0.363		0.320	16.81
63)	Azobenzene	1.166	1.389	1.460	1.509	1.458	1.517	1.556	1.436	9.11
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.068	0.081	0.099	0.099	0.112			0.092	18.61
66) c	n-Nitrosodiphe...	0.560	0.571	0.633	0.675	0.639	0.688	0.643	0.630	7.67
67)	4-Bromophenyl-...	0.156	0.165	0.180	0.196	0.188	0.204	0.197	0.184	9.59
68)	Hexachlorobenzene	0.197	0.192	0.209	0.221	0.212	0.231	0.226	0.212	6.87
69)	Atrazine	0.139	0.152	0.162	0.174	0.165	0.175	0.178	0.163	8.58
70) C	Pentachlorophenol	0.099	0.114	0.131	0.128	0.141	0.149	0.127		14.30
71)	Phenanthrene	1.109	1.082	1.179	1.195	1.153	1.204	1.160	1.155	3.89
72)	Anthracene	0.945	0.989	1.085	1.149	1.101	1.150	1.125	1.078	7.44
73)	Carbazole	0.917	0.940	1.055	1.069	1.040	1.072	1.064	1.022	6.40
74)	Di-n-butylphth...	0.824	0.930	0.973	1.067	1.040	1.123	1.226	1.026	12.85
75) C	Fluoranthene	1.055	1.068	1.179	1.194	1.175	1.213	1.234	1.160	6.06
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.373	0.422	0.333	0.377	0.308	0.359	0.347	0.360	10.07
78)	Pyrene	1.251	1.391	1.371	1.501	1.413	1.555	1.625	1.444	8.70
79) S	Terphenyl-d14	0.868	0.958	0.924	1.019	0.955	1.040	1.042	0.972	6.68
80)	Butylbenzylpht...	0.339	0.411	0.423	0.493	0.485			0.430	14.58
81)	Benzo(a)anthra...	1.198	1.192	1.294	1.343	1.304	1.360	1.336	1.290	5.31
82)	3,3'-Dichlorob...	0.291	0.306	0.362	0.385	0.381	0.391	0.376	0.356	11.36
83)	Chrysene	1.229	1.165	1.270	1.294	1.258	1.290	1.281	1.255	3.64
84)	Bis(2-ethylhex...	0.449	0.503	0.570	0.658	0.653			0.567	16.18
85) c	Di-n-octyl pht...	0.674	0.885	0.997	1.014	1.088	1.118	0.963		16.96

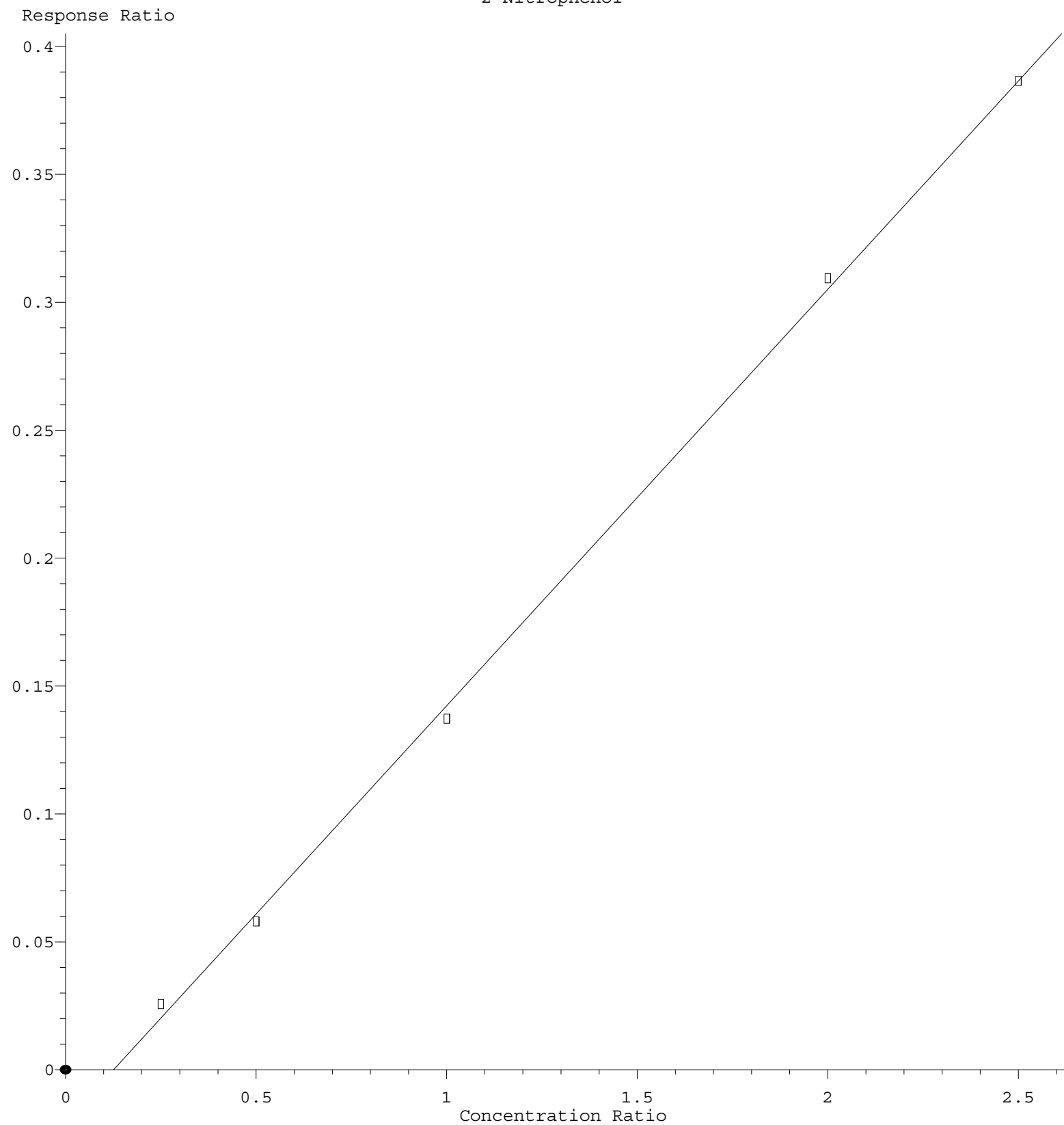
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	I	Perylene-d12	- - - - - ISTD - - - - -	
86)		Indeno(1,2,3-c...	1.371 1.194 1.483 1.566 1.529 1.589 1.499 1.462	9.41
88)		Benzo(b)fluora...	1.167 1.210 1.266 1.287 1.240 1.339 1.365 1.268	5.50
89)		Benzo(k)fluora...	1.115 1.186 1.261 1.372 1.308 1.309 1.341 1.270	7.16
90)	C	Benzo(a)pyrene	0.893 0.922 1.027 1.091 1.059 1.102 1.105 1.028	8.49
91)		Dibenzo(a,h)an...	1.136 0.987 1.231 1.287 1.264 1.316 1.256 1.211	9.41
92)		Benzo(g,h,i)pe...	1.136 0.978 1.230 1.292 1.255 1.311 1.225 1.204	9.53

(#) = Out of Range

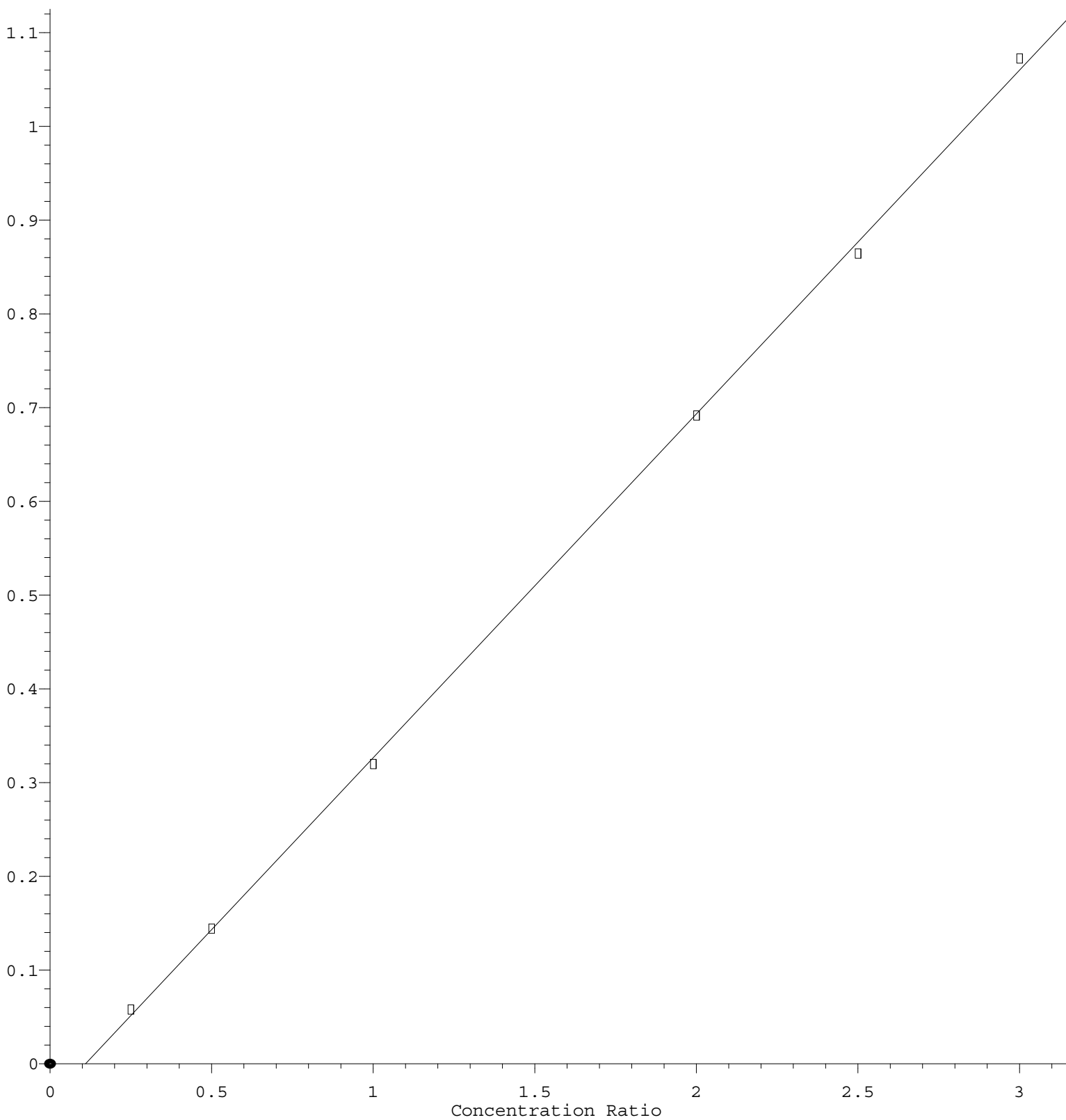
2-Nitrophenol



$\text{Response} = 1.631\text{e-}001 * \text{Amt} - 2.056\text{e-}002$
 Coef of Det (r^2) = 0.999183 Curve Fit: Linear
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.667\text{e-}001 * \text{Amt} - 4.036\text{e-}002$$

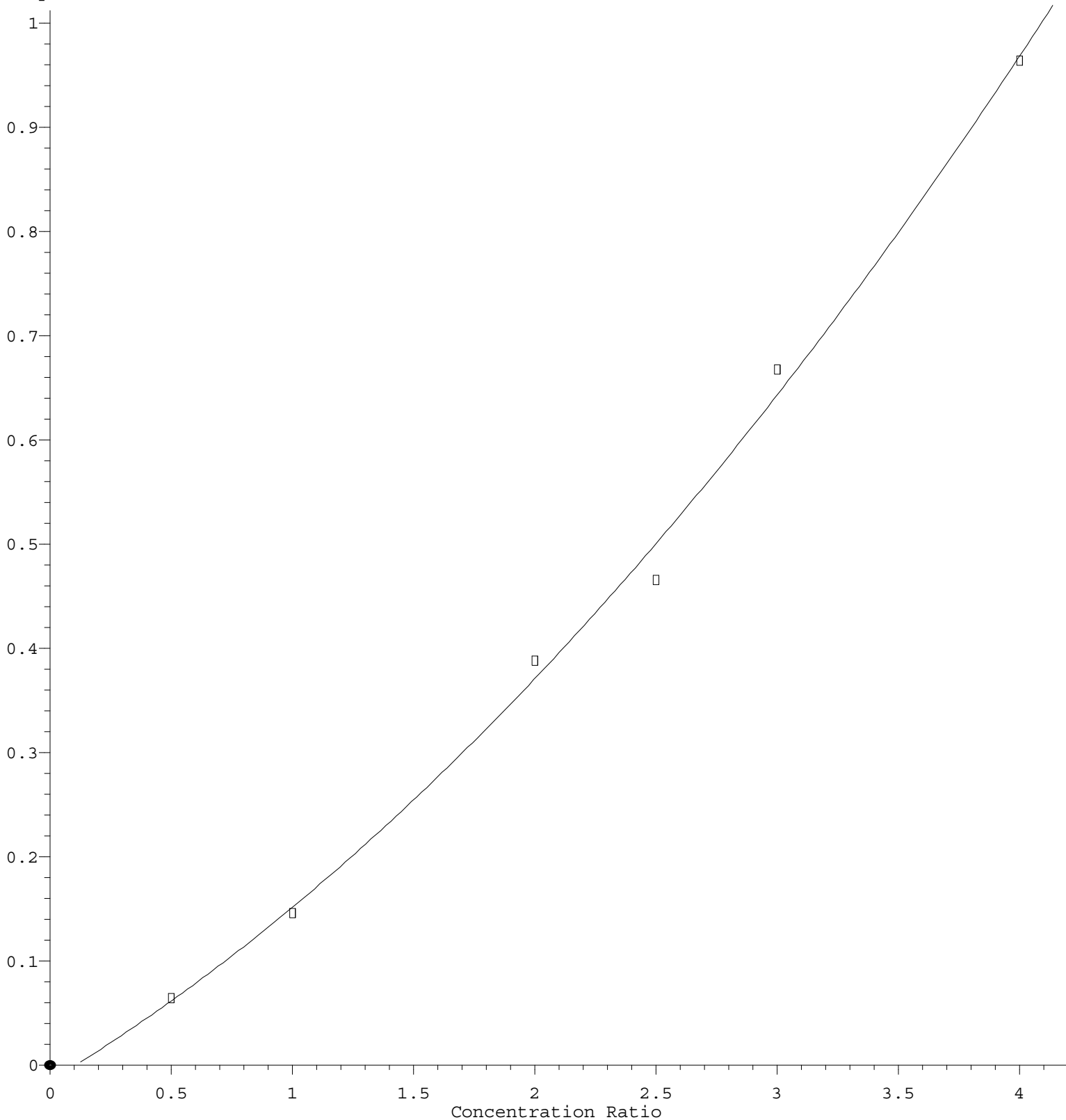
Coef of Det (r^2) = 0.999532 Curve Fit: Linear

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Benzoic acid

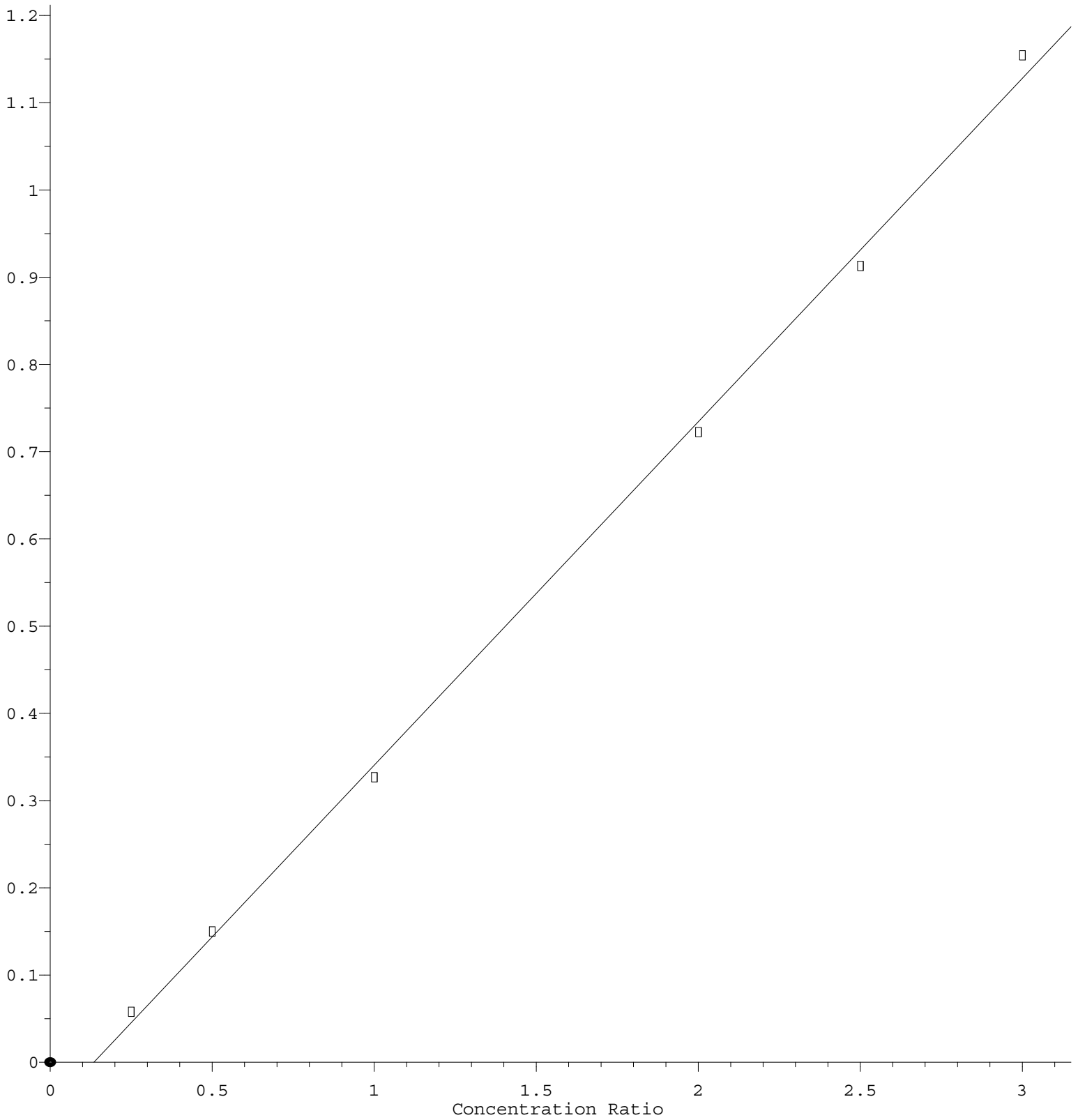
Response Ratio



$R = 2.639e-002 A^2 + 1.403e-001 A - 1.527e-002$
 Coef of Det (r^2) = 0.996115 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA M\Methods\8270-BM092722.M
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2,4-Dinitrotoluene

Response Ratio



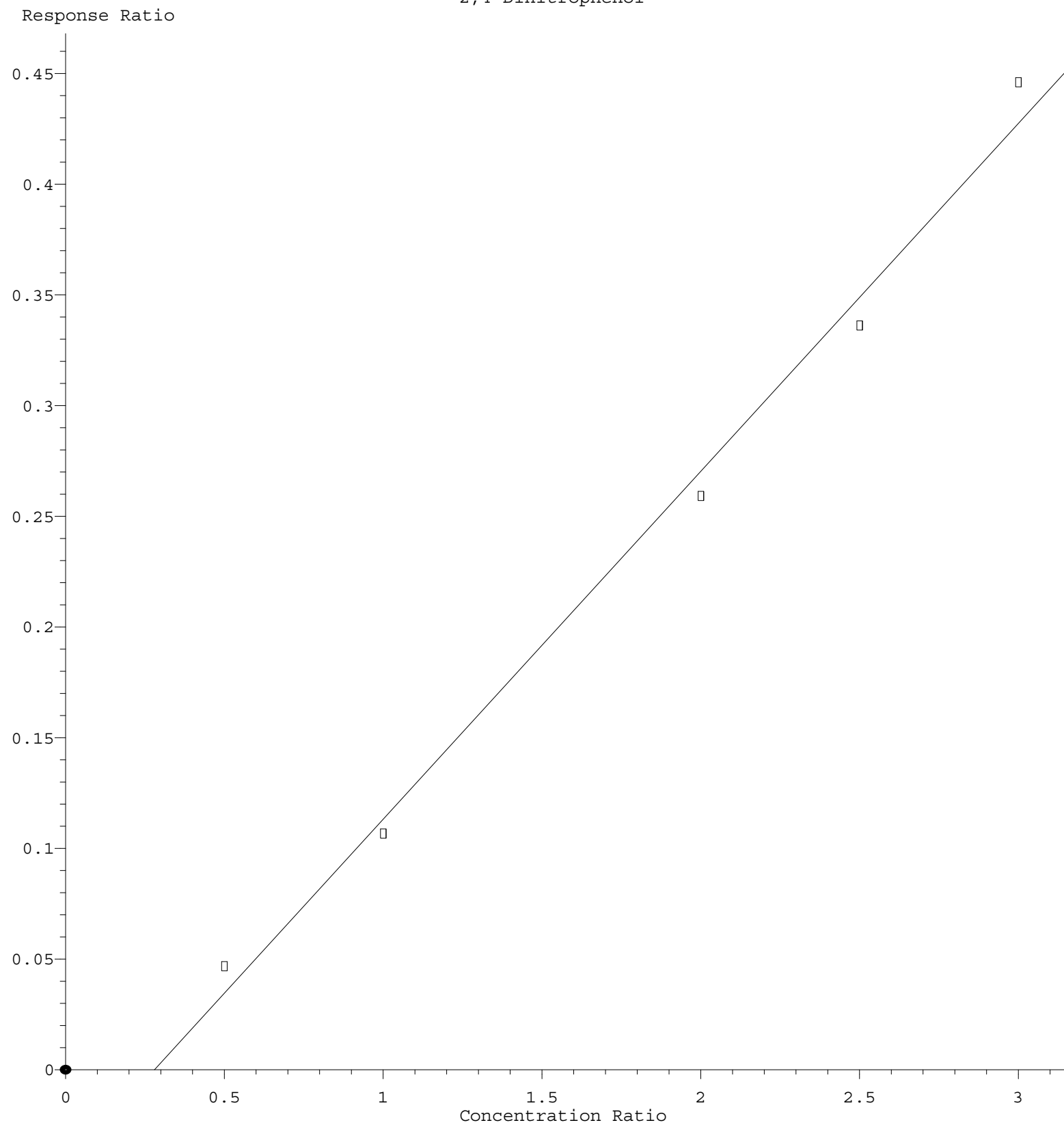
$$\text{Response} = 3.938\text{e-}001 * \text{Amt} - 5.306\text{e-}002$$

Coef of Det (r^2) = 0.998403 Curve Fit: Linear

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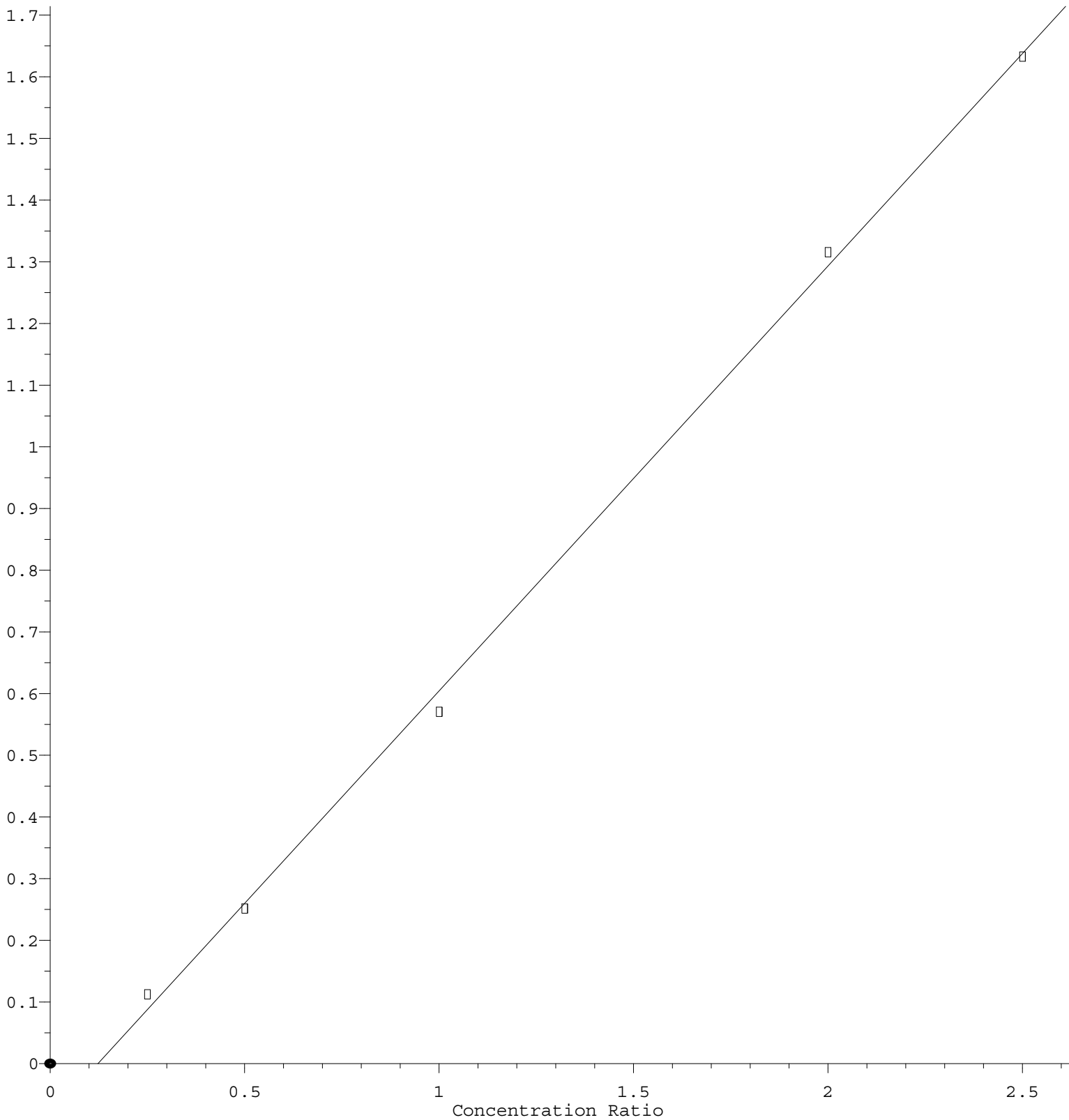
2,4-Dinitrophenol



Response = $1.572 \times 10^{-1} \times \text{Amt} - 4.408 \times 10^{-2}$
Coef of Det (r^2) = 0.992342 Curve Fit: Linear
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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 6.890\text{e-}001 * \text{Amt} - 8.483\text{e-}002$$

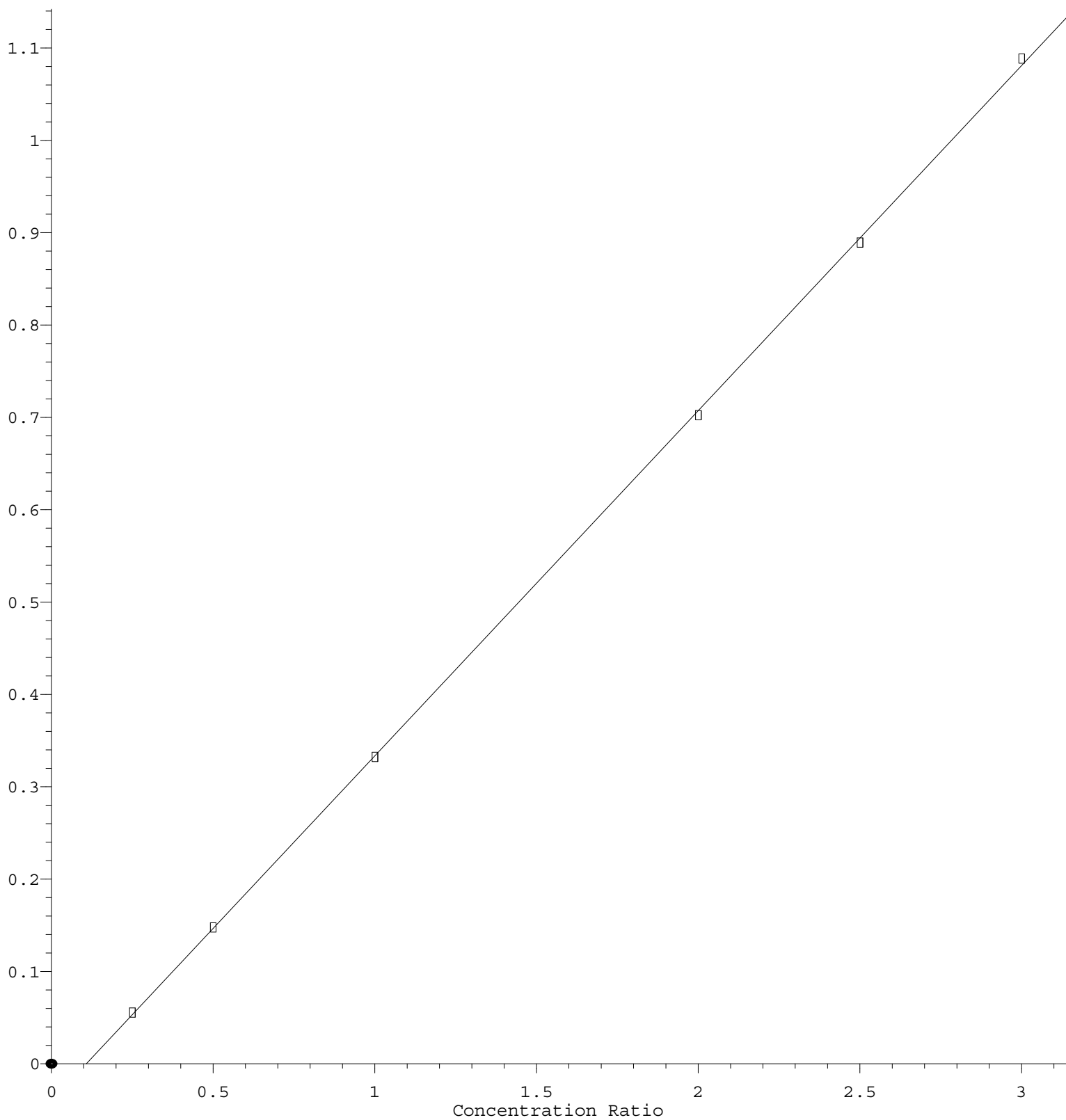
Coef of Det (r^2) = 0.998682 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



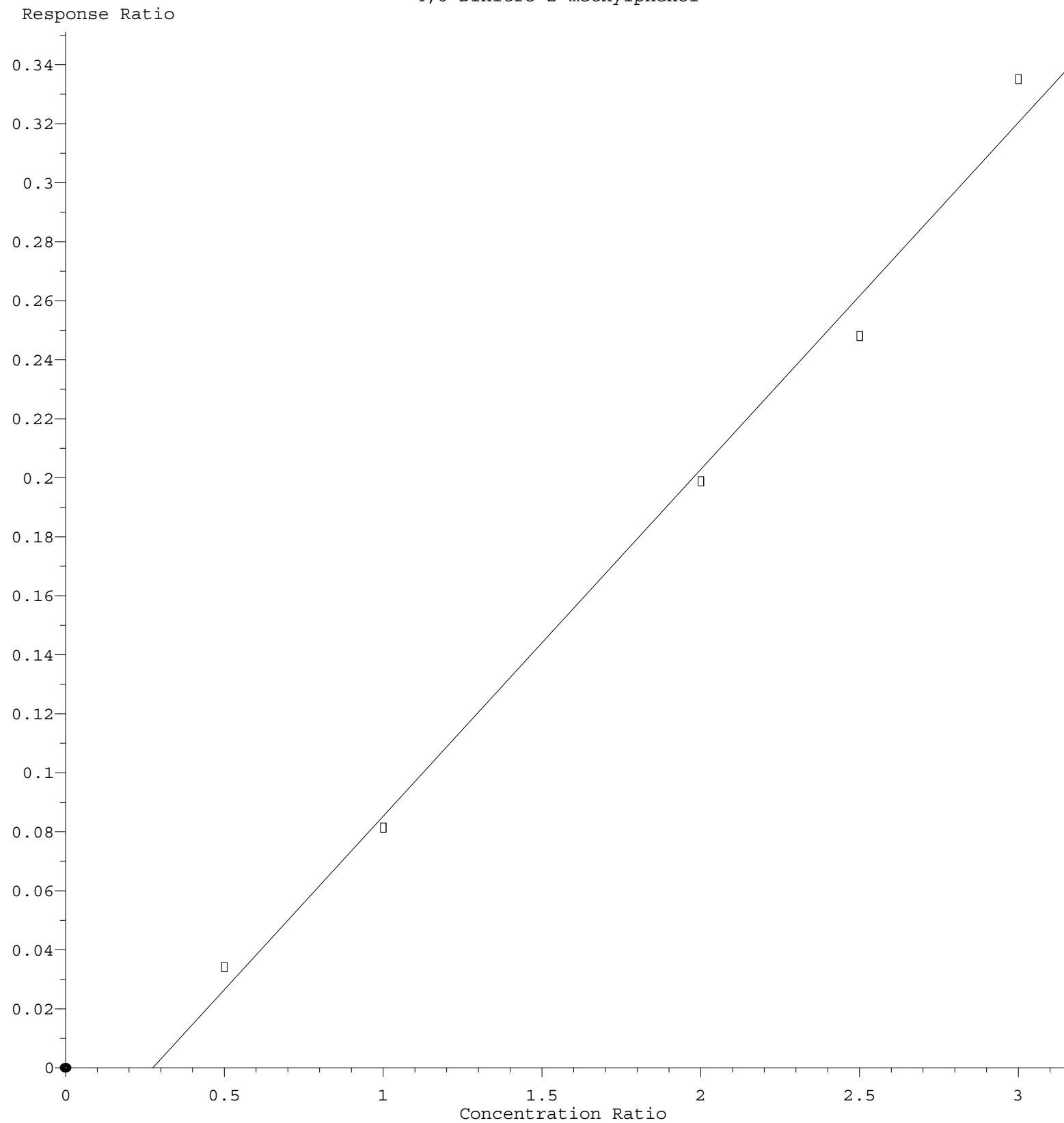
$$\text{Response} = 3.738\text{e-}001 * \text{Amt} - 4.044\text{e-}002$$

Coef of Det (r^2) = 0.999873 Curve Fit: Linear

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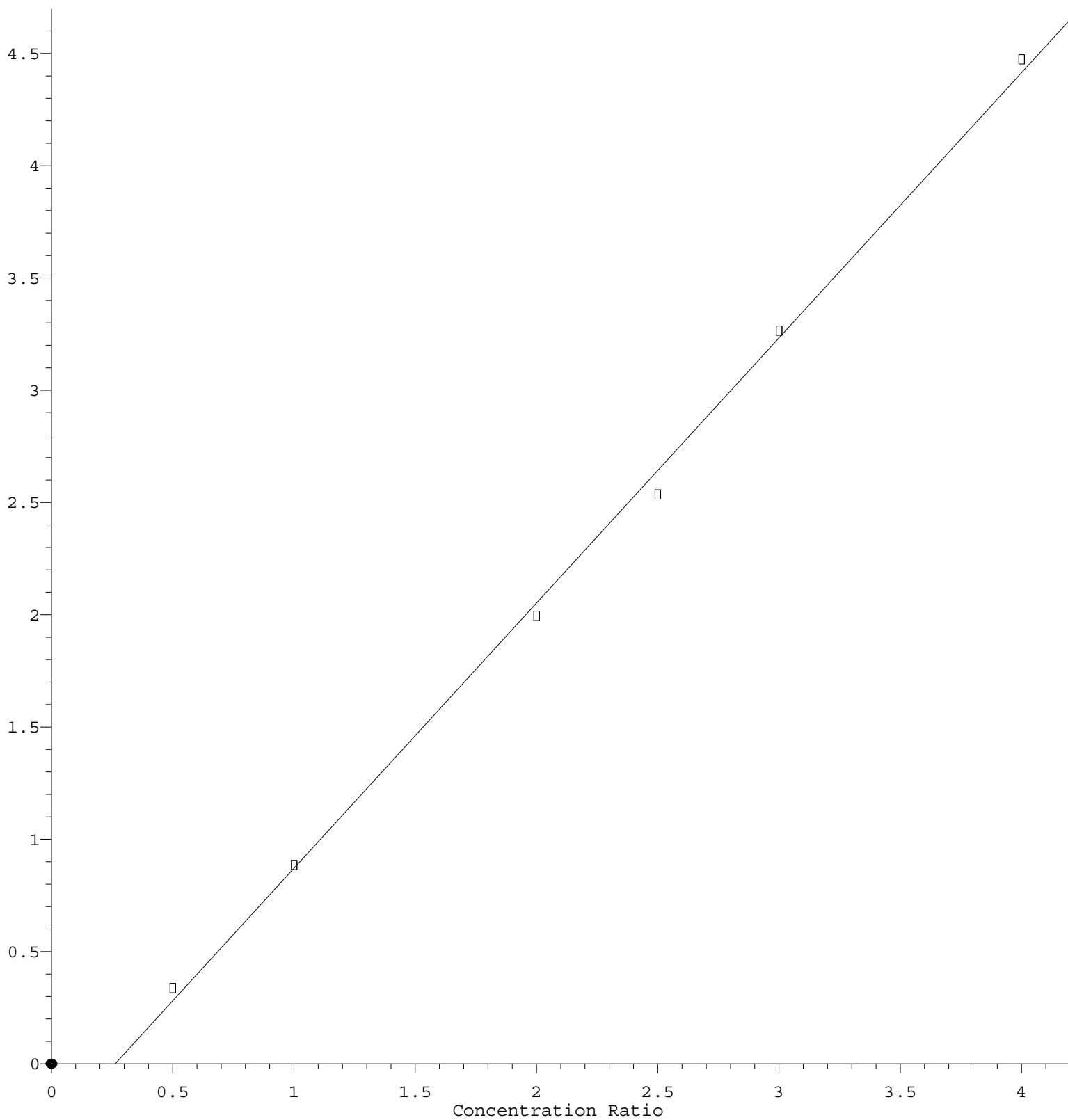
4,6-Dinitro-2-methylphenol



Response = 1.177e-001 * Amt - 3.234e-002
 Coef of Det (r^2) = 0.991842 Curve Fit: Linear
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Di-n-octyl phthalate

Response Ratio



$$\text{Response} = 1.181\text{e}+000 * \text{Amt} - 3.101\text{e}-001$$

Coef of Det (r^2) = 0.998051 Curve Fit: Linear

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