

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
 Method File : 8270-BM020123.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Feb 02 03:31:45 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BM038643.D 5 =BM038644.D 10 =BM038645.D 20 =BM038646.D 40 =BM038647.D 50 =BM038648.D 60 =BM038649.D 80 =BM038650.D

Compound		2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.513	0.491	0.497	0.442	0.411	0.412	0.385	0.450	11.17	
3)	Pyridine	0.942	1.046	1.214	1.150	1.047	1.070	1.022	1.070	8.26	
4)	n-Nitrosodimet...	0.435	0.462	0.542	0.515	0.474	0.490	0.464	0.483	7.44	
5) S	2-Fluorophenol	0.987	1.012	1.112	1.048	0.995	1.012	0.981	1.021	4.48	
6)	Aniline	1.364	1.419	1.574	1.542	1.404	1.457	1.409	1.453	5.33	
7) S	Phenol-d6	1.060	1.121	1.276	1.235	1.137	1.174	1.148	1.164	6.20	
8)	2-Chlorophenol	1.055	1.066	1.195	1.170	1.089	1.117	1.106	1.114	4.66	
9)	Benzaldehyde	0.570	0.632	0.533	0.497	0.461	0.466	0.434	0.513	13.59	
10) C	Phenol	1.103	1.140	1.286	1.245	1.145	1.174	1.141	1.176	5.55	
11)	bis(2-Chloroet...	0.935	0.912	1.046	0.998	0.925	0.938	0.914	0.953	5.30	
12)	1,3-Dichlorobe...	1.399	1.377	1.515	1.469	1.389	1.419	1.395	1.423	3.54	
13) C	1,4-Dichlorobe...	1.409	1.374	1.557	1.476	1.408	1.434	1.398	1.437	4.31	
14)	1,2-Dichlorobe...	1.304	1.320	1.482	1.416	1.357	1.383	1.372	1.376	4.36	
15)	Benzyl Alcohol	0.737	0.779	0.916	0.922	0.865	0.890	0.889	0.857	8.30	
16)	2,2'-oxybis(1-...	0.870	0.865	1.003	0.958	0.884	0.879	0.858	0.902	6.16	
17)	2-Methylphenol	0.805	0.842	0.990	0.961	0.889	0.914	0.915	0.902	7.12	
18)	Hexachloroethane	0.414	0.422	0.492	0.495	0.467	0.484	0.474	0.464	7.10	
19) P	n-Nitroso-di-n...	0.557	0.602	0.654	0.806	0.814	0.721	0.735	0.726	0.702	13.03
20)	3+4-Methylphenols	1.019	1.103	1.319	1.307	1.188	1.251	1.233	1.203	9.08	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.451	0.461	0.505	0.486	0.475	0.481	0.480	0.477	3.61	
23) S	Nitrobenzene-d5	0.306	0.324	0.373	0.369	0.363	0.369	0.361	0.352	7.47	
24)	Nitrobenzene	0.318	0.338	0.383	0.374	0.362	0.367	0.360	0.357	6.29	
25)	Isophorone	0.545	0.557	0.657	0.667	0.627	0.642	0.622	0.617	7.74	
26) C	2-Nitrophenol	0.161	0.172	0.206	0.213	0.208	0.217	0.215	0.199	11.46	
27)	2,4-Dimethylph...	0.249	0.270	0.307	0.306	0.288	0.297	0.292	0.287	7.28	
28)	bis(2-Chloroet...	0.334	0.350	0.407	0.399	0.384	0.389	0.375	0.377	7.01	
29) C	2,4-Dichloroph...	0.347	0.370	0.434	0.429	0.422	0.429	0.423	0.408	8.40	
30)	1,2,4-Trichlor...	0.400	0.399	0.460	0.448	0.438	0.449	0.441	0.434	5.60	
31)	Naphthalene	0.920	0.960	1.090	1.059	1.036	1.060	1.059	1.026	6.05	
32)	Benzoic acid		0.189	0.232	0.245	0.228	0.252	0.249	0.232	10.10	
33)	4-Chloroaniline	0.374	0.405	0.482	0.488	0.462	0.473	0.465	0.450	9.55	
34) C	Hexachlorobuta...	0.202	0.204	0.234	0.220	0.218	0.221	0.221	0.217	5.08	
35)	Caprolactam		0.076	0.089	0.095	0.087	0.091	0.089	0.088	7.33	
36) C	4-Chloro-3-met...	0.242	0.266	0.321	0.333	0.310	0.322	0.315	0.301	11.21	
37)	2-Methylnaphth...	0.731	0.741	0.877	0.885	0.847	0.858	0.868	0.829	7.85	
38)	1-Methylnaphth...	0.693	0.707	0.833	0.828	0.786	0.814	0.811	0.782	7.41	

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39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...		0.496	0.502	0.539	0.521	0.527	0.532	0.526	0.521	3.02
41) P	Hexachlorocycl...			0.251	0.312	0.324	0.339	0.352	0.359	0.323	12.16
42) S	2,4,6-Tribromo...		0.208	0.244	0.294	0.297	0.285	0.288	0.287	0.272	12.31
43) C	2,4,6-Trichlor...		0.335	0.368	0.433	0.431	0.424	0.437	0.433	0.409	9.86
44)	2,4,5-Trichlor...		0.417	0.440	0.501	0.502	0.500	0.503	0.505	0.481	7.62
45) S	2-Fluorobiphenyl		1.466	1.470	1.657	1.608	1.598	1.601	1.597	1.571	4.66
46)	1,1'-Biphenyl		1.443	1.464	1.635	1.624	1.630	1.637	1.657	1.584	5.71
47)	2-Chloronaphth...		1.140	1.136	1.284	1.284	1.283	1.291	1.308	1.247	5.99
48)	2-Nitroaniline		0.174	0.210	0.264	0.286	0.278	0.288	0.285	0.255	17.64
49)	Acenaphthylene		1.677	1.799	2.051	2.054	2.037	2.055	2.072	1.964	8.07
50)	Dimethylphthalate		1.486	1.518	1.694	1.698	1.674	1.690	1.664	1.632	5.51
51)	2,6-Dinitrotol...		0.263	0.293	0.345	0.356	0.351	0.362	0.352	0.332	11.45
52) C	Acenaphthene		1.024	1.096	1.220	1.224	1.187	1.226	1.230	1.172	6.90
53)	3-Nitroaniline		0.224	0.278	0.339	0.357	0.344	0.348	0.351	0.320	15.62
54) P	2,4-Dinitrophenol			0.163	0.213	0.232	0.226	0.230	0.232	0.216	12.47
55)	Dibenzofuran		1.853	1.955	2.126	2.079	2.034	2.053	2.033	2.019	4.44
56) P	4-Nitrophenol			0.202	0.272	0.285	0.277	0.280	0.280	0.266	11.87
57)	2,4-Dinitrotol...		0.321	0.388	0.481	0.495	0.487	0.496	0.493	0.452	15.37
58)	Fluorene		1.385	1.503	1.734	1.691	1.625	1.629	1.615	1.598	7.38
59)	2,3,4,6-Tetrac...		0.278	0.309	0.359	0.355	0.348	0.351	0.345	0.335	9.04
60)	Diethylphthalate		1.271	1.423	1.655	1.650	1.593	1.615	1.617	1.546	9.36
61)	4-Chlorophenyl...		0.612	0.646	0.721	0.705	0.680	0.688	0.693	0.678	5.50
62)	4-Nitroaniline		0.201	0.274	0.345	0.366	0.353	0.365	0.357	0.323	19.43
63)	Azobenzene		1.008	1.128	1.300	1.265	1.210	1.214	1.203	1.190	8.10
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...			0.094	0.129	0.133	0.130	0.134	0.136	0.126	12.47
66) c	n-Nitrosodiphe...		0.579	0.602	0.691	0.680	0.668	0.676	0.674	0.653	6.67
67)	4-Bromophenyl-...		0.172	0.173	0.206	0.203	0.197	0.202	0.199	0.193	7.44
68)	Hexachlorobenzene		0.211	0.218	0.251	0.247	0.242	0.243	0.240	0.236	6.39
69)	Atrazine		0.158	0.171	0.203	0.203	0.197	0.199	0.194	0.189	9.32
70) C	Pentachlorophenol			0.138	0.178	0.178	0.175	0.183	0.180	0.172	9.84
71)	Phenanthrene		1.091	1.108	1.259	1.239	1.208	1.223	1.185	1.188	5.44
72)	Anthracene		1.068	1.124	1.305	1.273	1.250	1.256	1.228	1.215	7.09
73)	Carbazole		0.970	1.051	1.217	1.201	1.171	1.182	1.138	1.133	7.96
74)	Di-n-butylphth...		0.987	1.108	1.357	1.400	1.381	1.376	1.351	1.280	12.75
75) C	Fluoranthene		1.103	1.179	1.346	1.312	1.277	1.282	1.229	1.247	6.70
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine			0.373	0.543	0.613	0.600	0.625	0.606	0.560	17.08
78)	Pyrene		1.281	1.362	1.631	1.629	1.609	1.665	1.602	1.540	9.88
79) S	Terphenyl-d14		0.920	0.963	1.140	1.164	1.195	1.268	1.283	1.133	12.47
80)	Butylbenzylphth...		0.485	0.552	0.714	0.779	0.776	0.798	0.759	0.695	17.95
81)	Benzo(a)anthra...		1.234	1.287	1.471	1.464	1.448	1.503	1.497	1.415	7.66
82)	3,3'-Dichlorob...		0.404	0.432	0.525	0.516	0.512	0.525	0.492	0.487	9.99
83)	Chrysene		1.239	1.253	1.395	1.403	1.388	1.434	1.430	1.363	6.02
84)	Bis(2-ethylhex...		0.747	0.830	1.068	1.135	1.143	1.157	1.096	1.025	16.19
85) c	Di-n-octyl pht...		1.405	1.516	1.887	1.996	1.977	2.006	1.901	1.812	13.62

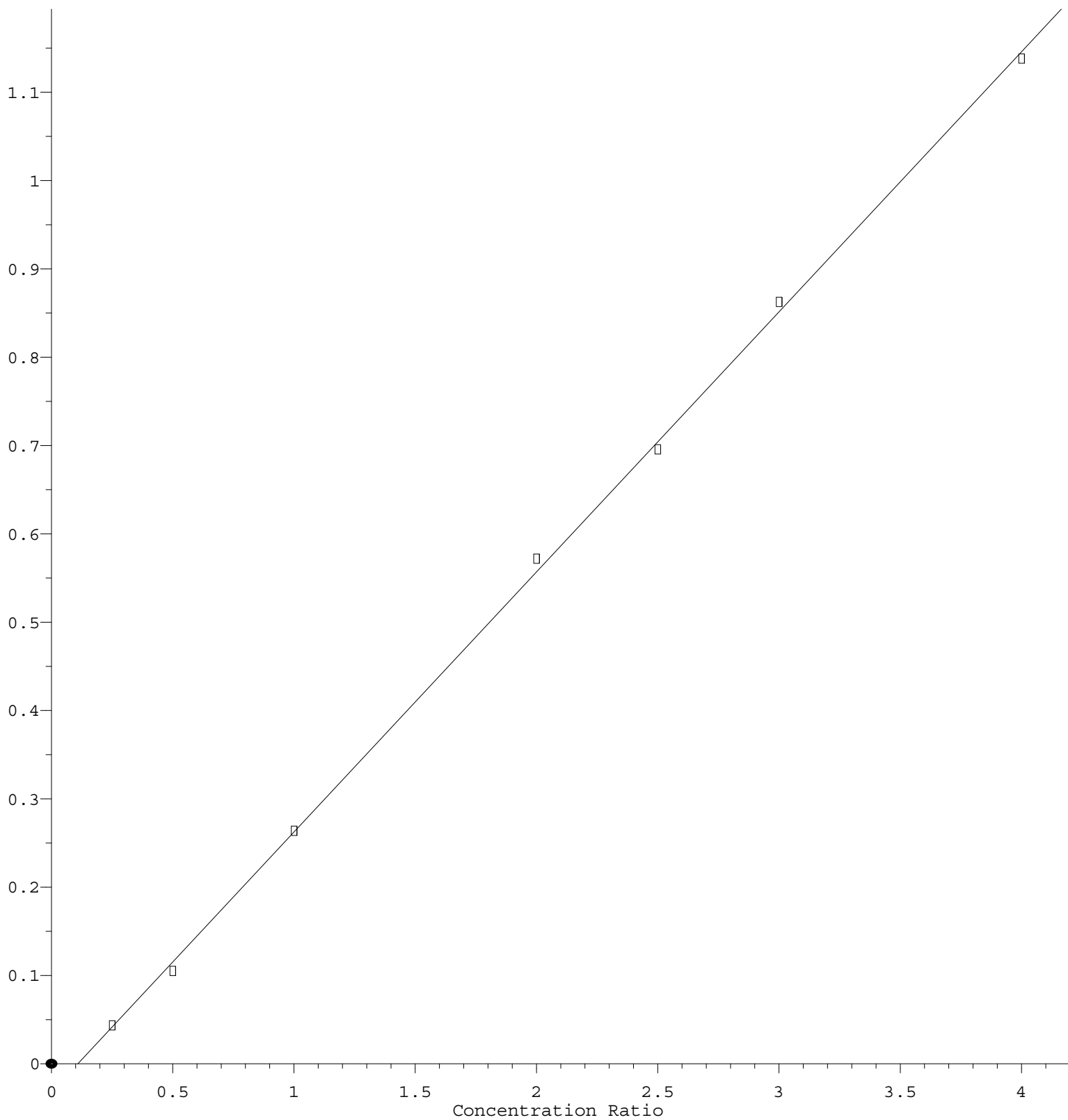
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.412	1.451	1.624	1.604	1.580	1.673	1.683	1.575	6.68
88)	Benzo(b)fluora...	1.034	1.062	1.251	1.224	1.237	1.270	1.307	1.198	8.86
89)	Benzo(k)fluora...	1.014	1.120	1.269	1.276	1.237	1.305	1.294	1.216	8.93
90) C	Benzo(a)pyrene	1.015	1.052	1.232	1.224	1.222	1.270	1.277	1.185	8.93
91)	Dibenzo(a,h)an...	1.164	1.198	1.356	1.361	1.329	1.428	1.442	1.325	8.08
92)	Benzo(g,h,i)pe...	1.207	1.240	1.380	1.356	1.350	1.427	1.418	1.340	6.35

(#) = Out of Range

2-Nitroaniline

Response Ratio



$$\text{Response} = 2.947\text{e-}001 * \text{Amt} - 3.198\text{e-}002$$

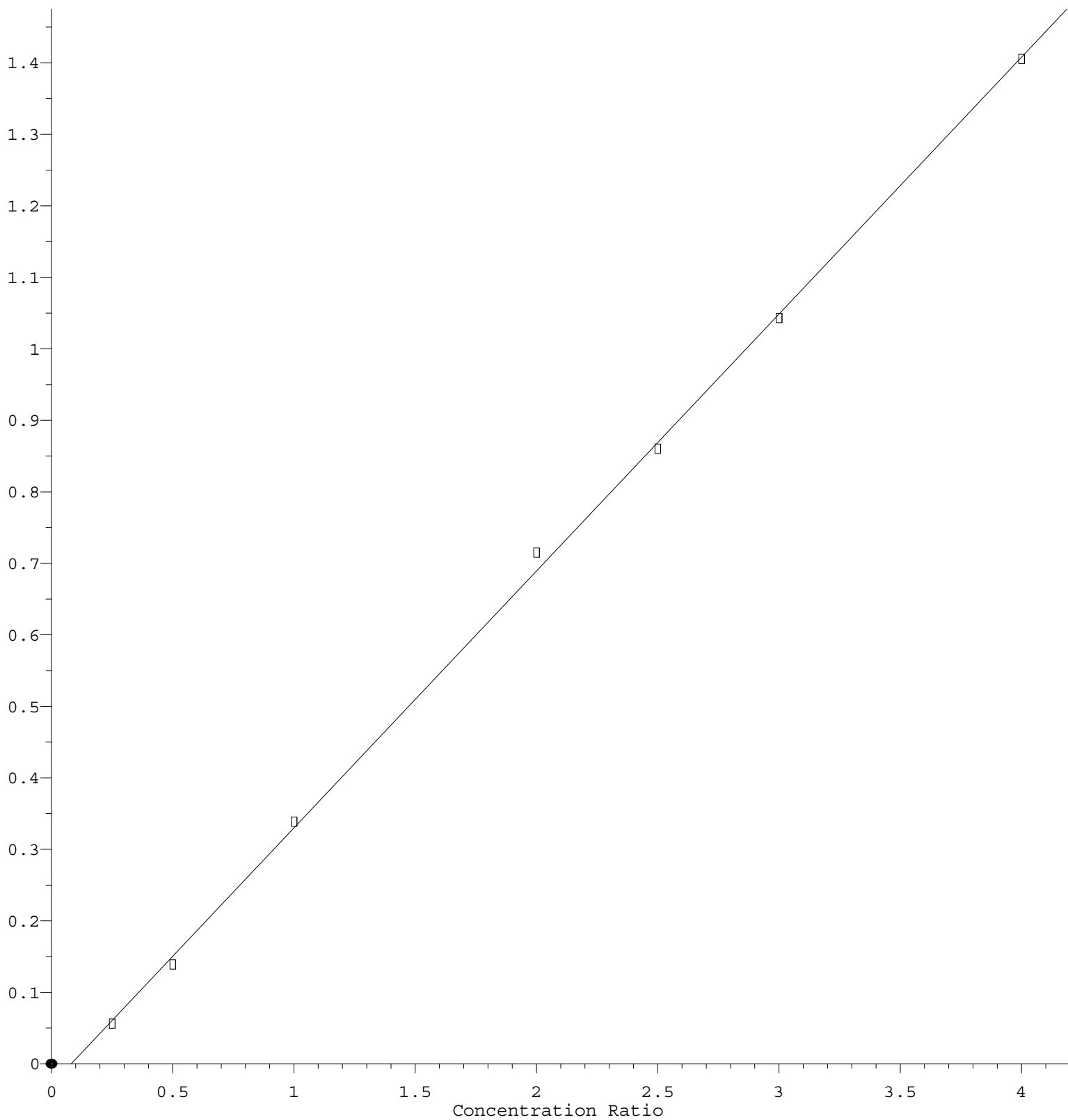
Coef of Det (r^2) = 0.999410 Curve Fit: Linear

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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.594\text{e-}001 * \text{Amt} - 2.930\text{e-}002$$

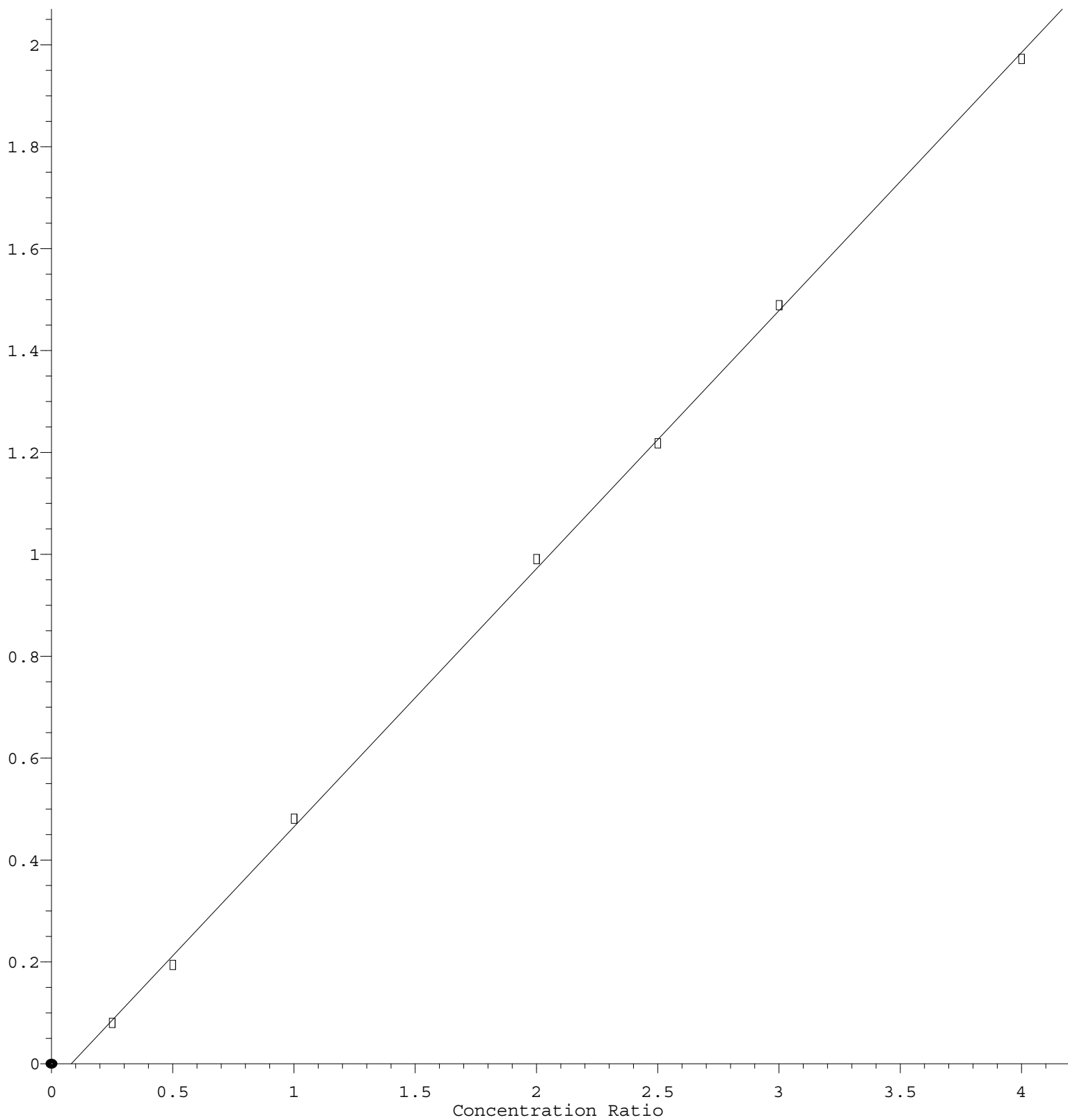
Coef of Det (r^2) = 0.999329 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 5.067\text{e-}001 * \text{Amt} - 4.136\text{e-}002$$

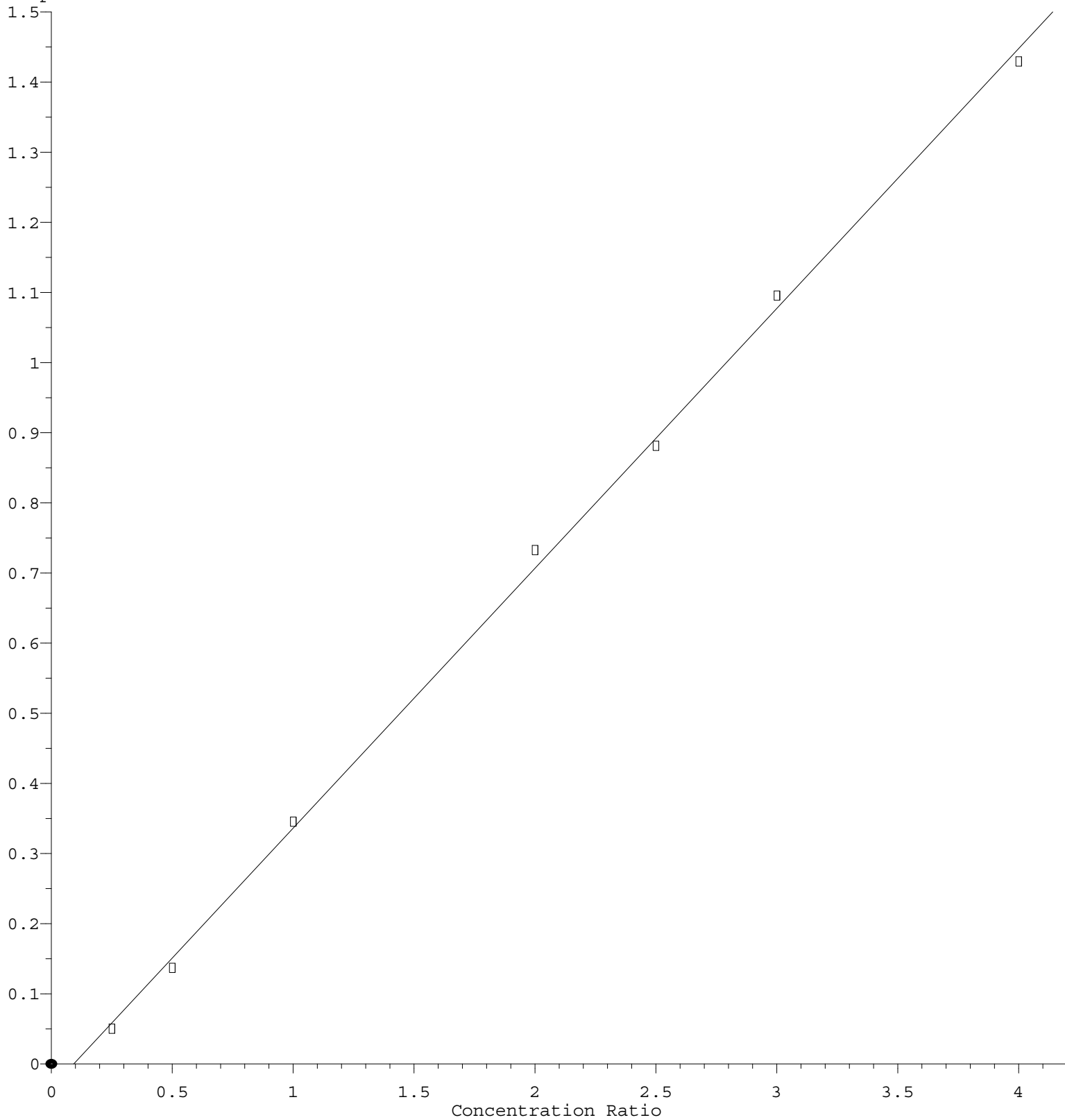
Coef of Det (r^2) = 0.999569 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.707\text{e-}001 * \text{Amt} - 3.441\text{e-}002$$

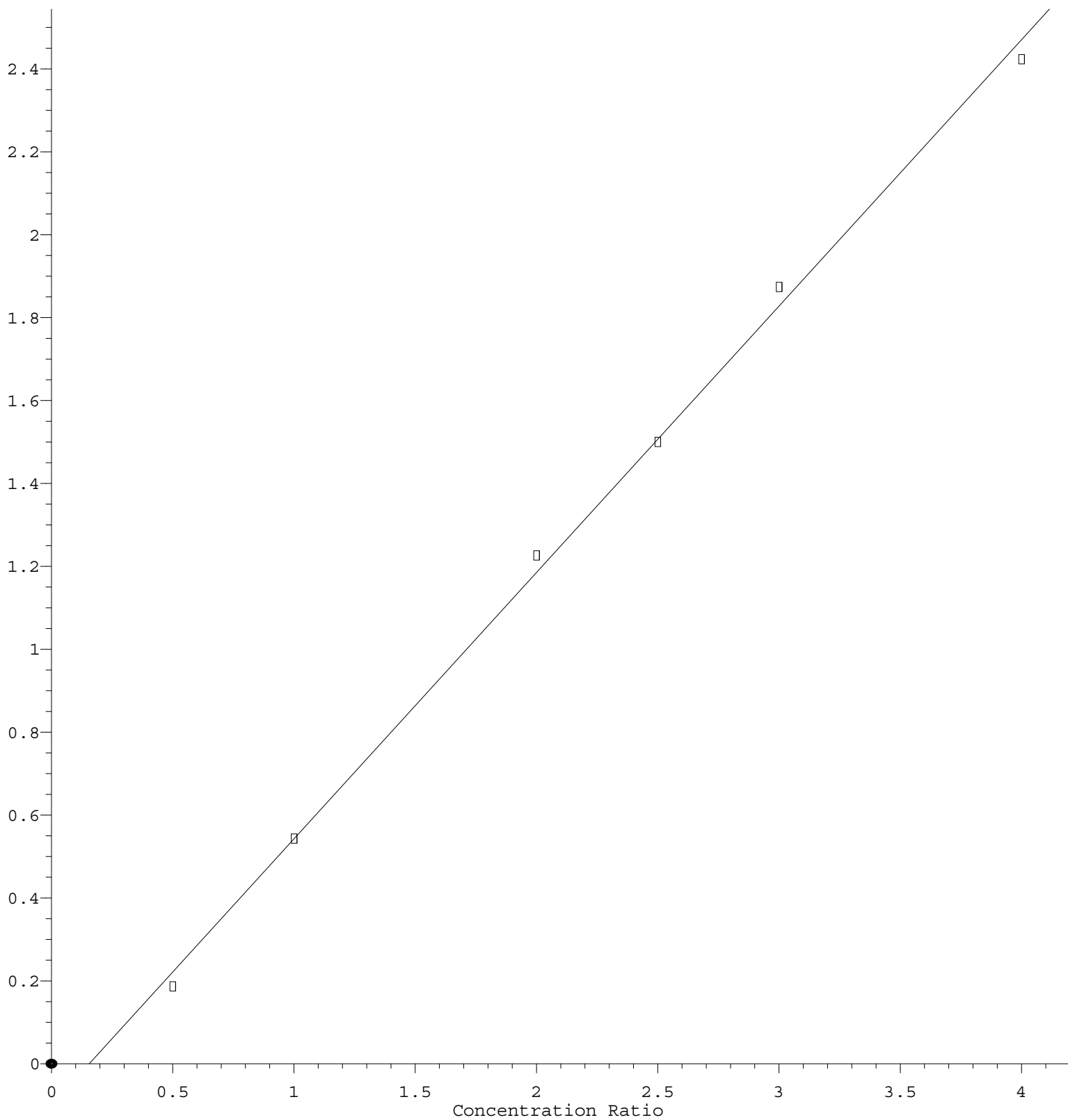
Coef of Det (r^2) = 0.998858 Curve Fit: Linear

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Benzidine

Response Ratio



$$\text{Response} = 6.426\text{e-}001 * \text{Amt} - 1.000\text{e-}001$$

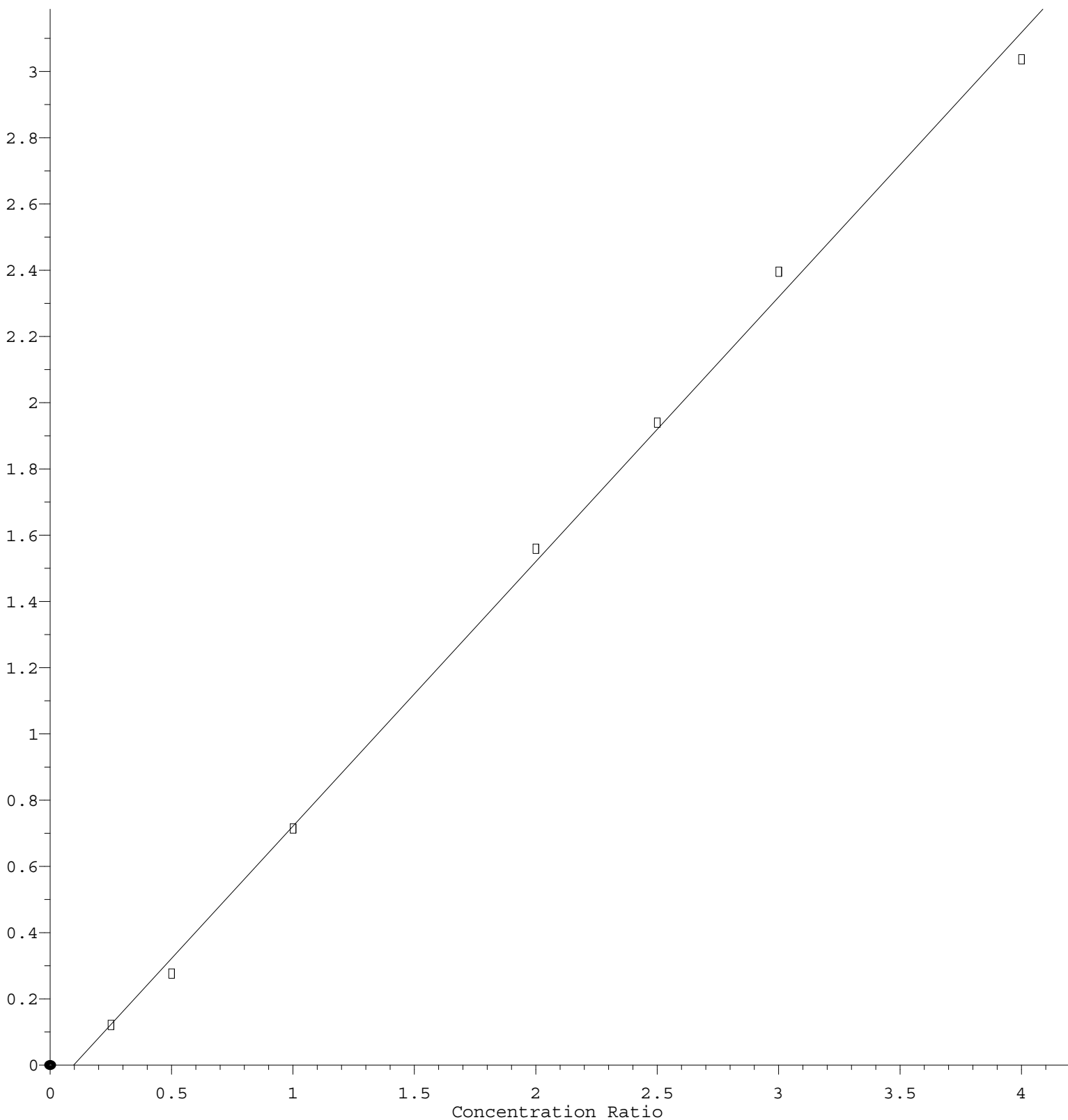
Coef of Det (r^2) = 0.997898 Curve Fit: Linear

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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 7.989\text{e-}001 * \text{Amt} - 7.768\text{e-}002$$

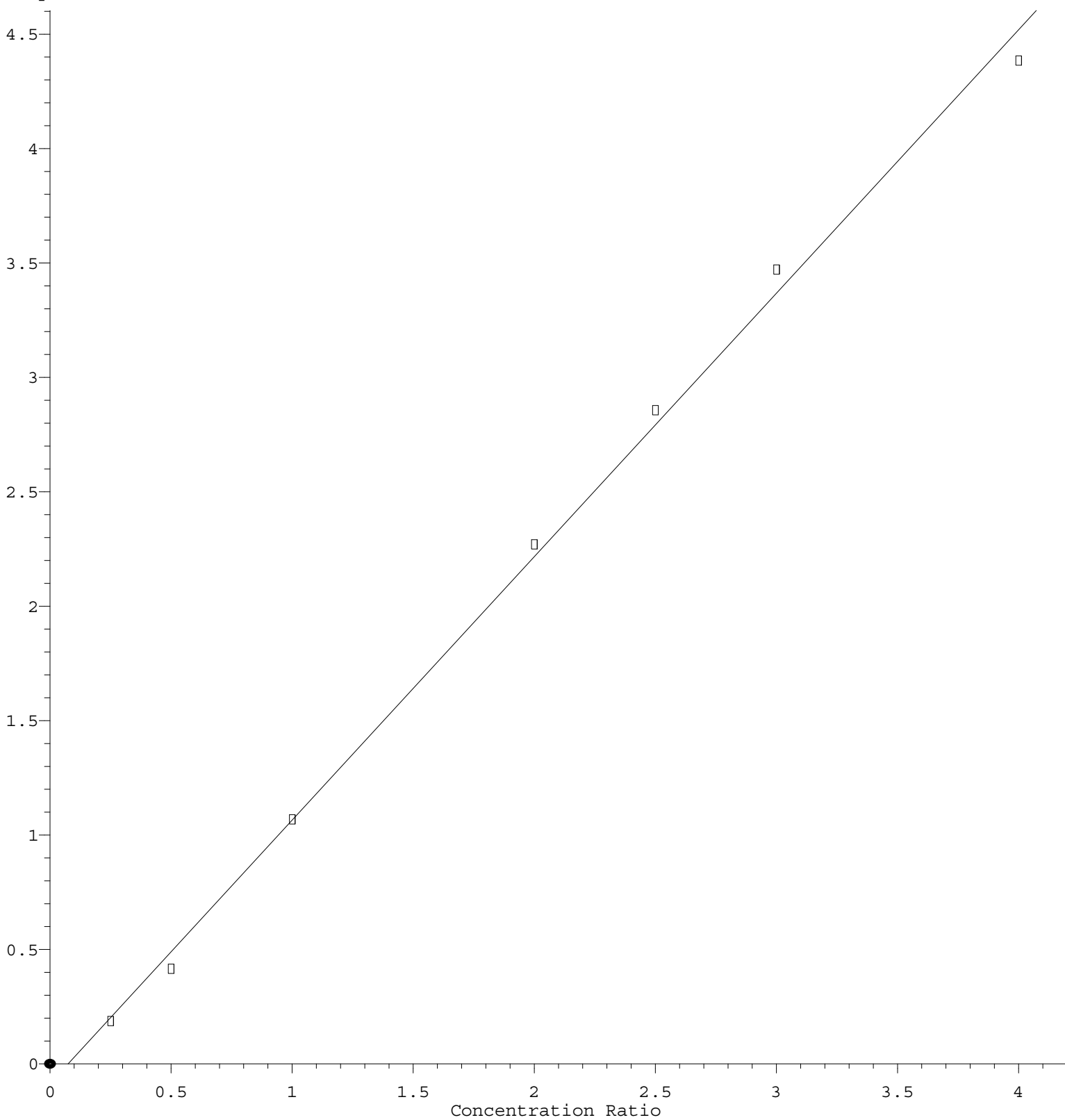
Coef of Det (r^2) = 0.997763 Curve Fit: Linear

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Bis(2-ethylhexyl)phthalate

Response Ratio



$$\text{Response} = 1.151\text{e}+000 * \text{Amt} - 8.610\text{e}-002$$

Coef of Det (r^2) = 0.997272 Curve Fit: Linear

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