

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG092822.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 28 15:43:39 2022
 Response Via : Initial Calibration

Calibration Files

5 =BG055029.D 10 =BG055030.D 20 =BG055031.D 40 =BG055032.D 50 =BG055033.D 60 =BG055034.D 80 =BG055035.D

Compound	5	10	20	40	50	60	80	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----								
2) 1,4-Dioxane	0.617	0.514	0.523	0.510	0.496	0.497	0.460	0.517	9.43
3) Pyridine	1.433	1.411	1.576	1.508	1.450	1.478	1.423	1.469	3.95
4) n-Nitrosodimet...	0.709	0.695	0.754	0.719	0.710	0.713	0.698	0.714	2.75
5) S 2-Fluorophenol	1.063	1.036	1.090	1.052	1.037	1.036	0.990	1.043	2.95
6) Aniline	1.870	1.789	1.979	1.849	1.771	1.767	1.741	1.824	4.53
7) S Phenol-d6	1.345	1.359	1.493	1.417	1.376	1.365	1.335	1.384	3.95
8) 2-Chlorophenol	1.177	1.140	1.258	1.174	1.145	1.146	1.114	1.165	3.98
9) Benzaldehyde		1.160	1.110	0.914	0.840	0.789	0.710	0.920	19.53
10) C Phenol	1.602	1.580	1.695	1.582	1.534	1.512	1.485	1.570	4.41
11) bis(2-Chloroet...	1.296	1.221	1.253	1.176	1.099	1.115	1.088	1.178	6.90
12) 1,3-Dichlorobe...	1.506	1.436	1.509	1.414	1.401	1.379	1.337	1.426	4.45
13) C 1,4-Dichlorobe...	1.502	1.456	1.554	1.440	1.430	1.393	1.350	1.446	4.65
14) 1,2-Dichlorobe...	1.488	1.358	1.491	1.346	1.314	1.308	1.261	1.367	6.54
15) Benzyl Alcohol	1.091	1.112	1.297	1.237	1.194	1.176	1.187	1.185	5.92
16) 2,2'-oxybis(1-...	2.104	2.065	2.146	1.983	1.870	1.841	1.792	1.972	7.06
17) 2-Methylphenol	1.118	1.079	1.188	1.120	1.059	1.058	1.054	1.097	4.47
18) Hexachloroethane	0.450	0.471	0.499	0.481	0.479	0.478	0.467	0.475	3.17
19) P n-Nitroso-di-n...	1.109	1.056	1.195	1.122	1.058	1.036	1.035	1.088	5.39
20) 3+4-Methylphenols	1.451	1.444	1.623	1.573	1.501	1.485	1.500	1.511	4.31
21) I Naphthalene-d8	-----ISTD-----								
22) Acetophenone	0.499	0.482	0.510	0.501	0.479	0.490	0.474	0.491	2.67
23) S Nitrobenzene-d5	0.259	0.269	0.300	0.328	0.326	0.347	0.342	0.310	11.31
24) Nitrobenzene	0.278	0.285	0.337	0.359	0.352	0.376	0.364	0.336	11.64
25) Isophorone	0.696	0.676	0.718	0.723	0.680	0.693	0.685	0.696	2.61
26) C 2-Nitrophenol	0.101	0.107	0.119	0.132	0.138	0.150	0.154	0.128	15.93
27) 2,4-Dimethylph...	0.258	0.252	0.279	0.278	0.277	0.281	0.280	0.272	4.40
28) bis(2-Chloroet...	0.357	0.366	0.372	0.372	0.354	0.366	0.355	0.363	2.17
29) C 2,4-Dichloroph...	0.263	0.269	0.306	0.322	0.314	0.329	0.323	0.304	8.75
30) 1,2,4-Trichlor...	0.350	0.342	0.367	0.360	0.355	0.366	0.357	0.357	2.45
31) Naphthalene	1.080	1.035	1.062	1.062	1.008	1.045	1.010	1.043	2.62
32) Benzoic acid		0.118	0.147	0.178	0.184	0.209	0.215	0.175	21.08
33) 4-Chloroaniline	0.405	0.396	0.442	0.447	0.418	0.431	0.431	0.424	4.44
34) C Hexachlorobuta...	0.229	0.225	0.234	0.237	0.232	0.241	0.232	0.233	2.21
35) Caprolactam	0.086	0.085	0.104	0.109	0.101	0.105	0.109	0.100	9.98
36) C 4-Chloro-3-met...	0.296	0.306	0.346	0.360	0.336	0.353	0.350	0.335	7.40
37) 2-Methylnaphth...	0.755	0.725	0.776	0.770	0.728	0.746	0.738	0.749	2.66
38) 1-Methylnaphth...	0.727	0.700	0.757	0.743	0.697	0.724	0.710	0.723	3.07

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39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.606	0.574	0.592	0.589	0.583	0.597	0.568	0.587	2.21
41) P	Hexachlorocycl...	0.270	0.264	0.289	0.305	0.312	0.326	0.314	0.297	7.90
42) S	2,4,6-Tribromo...	0.188	0.194	0.231	0.242	0.234	0.251	0.250	0.227	11.40
43) C	2,4,6-Trichlor...	0.311	0.326	0.374	0.398	0.397	0.410	0.402	0.374	10.60
44)	2,4,5-Trichlor...	0.372	0.380	0.431	0.451	0.438	0.461	0.443	0.425	8.20
45) S	2-Fluorobiphenyl	1.343	1.280	1.324	1.283	1.229	1.259	1.177	1.271	4.41
46)	1,1'-Biphenyl	1.433	1.334	1.401	1.384	1.345	1.372	1.308	1.368	3.10
47)	2-Chloronaphth...	1.157	1.081	1.137	1.118	1.077	1.106	1.064	1.106	3.06
48)	2-Nitroaniline	0.189	0.206	0.245	0.296	0.296	0.329	0.329	0.270	21.12
49)	Acenaphthylene	1.837	1.768	1.846	1.838	1.757	1.803	1.710	1.794	2.84
50)	Dimethylphthalate	1.498	1.422	1.546	1.548	1.476	1.512	1.461	1.495	3.04
51)	2,6-Dinitrotol...	0.177	0.188	0.244	0.272	0.273	0.290	0.296	0.249	19.36
52) C	Acenaphthene	1.108	1.070	1.146	1.141	1.101	1.134	1.096	1.114	2.49
53)	3-Nitroaniline	0.213	0.233	0.293	0.324	0.315	0.337	0.338	0.293	17.25
54) P	2,4-Dinitrophenol	0.108	0.107	0.122	0.129	0.129	0.141	0.146	0.126	12.01
55)	Dibenzofuran	1.862	1.778	1.874	1.841	1.747	1.784	1.715	1.800	3.35
56) P	4-Nitrophenol		0.182	0.223	0.256	0.253	0.267	0.270	0.242	13.92
57)	2,4-Dinitrotol...	0.233	0.246	0.320	0.367	0.369	0.399	0.409	0.335	21.25
58)	Fluorene	1.513	1.411	1.507	1.467	1.380	1.423	1.361	1.437	4.14
59)	2,3,4,6-Tetrac...	0.304	0.330	0.388	0.418	0.402	0.424	0.416	0.383	12.34
60)	Diethylphthalate	1.534	1.477	1.608	1.597	1.514	1.551	1.514	1.542	3.06
61)	4-Chlorophenyl...	0.768	0.756	0.795	0.788	0.749	0.774	0.753	0.769	2.28
62)	4-Nitroaniline	0.257	0.262	0.321	0.349	0.333	0.351	0.355	0.318	13.16
63)	Azobenzene	1.548	1.439	1.514	1.459	1.379	1.423	1.367	1.447	4.59
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.061	0.071	0.076	0.079	0.085	0.089	0.077		12.81
66) c	n-Nitrosodiphe...	0.552	0.536	0.560	0.542	0.524	0.540	0.515	0.538	2.89
67)	4-Bromophenyl-...	0.219	0.213	0.220	0.216	0.209	0.218	0.213	0.215	1.79
68)	Hexachlorobenzene	0.243	0.236	0.250	0.247	0.238	0.247	0.241	0.243	2.12
69)	Atrazine	0.206	0.197	0.211	0.208	0.194	0.194	0.188	0.200	4.24
70) C	Pentachlorophenol	0.108	0.113	0.135	0.146	0.147	0.155	0.155	0.137	14.15
71)	Phenanthrene	1.072	1.032	1.082	1.049	0.994	1.018	0.981	1.033	3.67
72)	Anthracene	1.064	1.028	1.071	1.026	0.978	0.998	0.964	1.018	4.00
73)	Carbazole	1.006	0.963	1.014	0.964	0.916	0.930	0.890	0.955	4.80
74)	Di-n-butylphth...	1.127	1.123	1.215	1.198	1.119	1.146	1.101	1.147	3.75
75) C	Fluoranthene	1.387	1.368	1.410	1.334	1.265	1.282	1.216	1.323	5.36
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.600	0.529	0.457	0.518	0.446	0.481	0.436	0.495	11.77
78)	Pyrene	1.252	1.243	1.355	1.320	1.244	1.297	1.247	1.280	3.50
79) S	Terphenyl-d14	1.003	0.959	1.025	0.977	0.919	0.948	0.884	0.959	5.02
80)	Butylbenzylpht...	0.359	0.399	0.470	0.504	0.488	0.517	0.499	0.462	12.94
81)	Benzo(a)anthra...	1.320	1.254	1.326	1.309	1.245	1.287	1.226	1.281	3.10
82)	3,3'-Dichlorob...	0.392	0.395	0.438	0.438	0.415	0.426	0.397	0.414	4.91
83)	Chrysene	1.230	1.186	1.240	1.230	1.173	1.221	1.166	1.207	2.53
84)	Bis(2-ethylhex...	0.576	0.608	0.703	0.736	0.713	0.744	0.710	0.684	9.56
85) c	Di-n-octyl pht...	0.953	0.996	1.154	1.238	1.211	1.266	1.221	1.148	10.80

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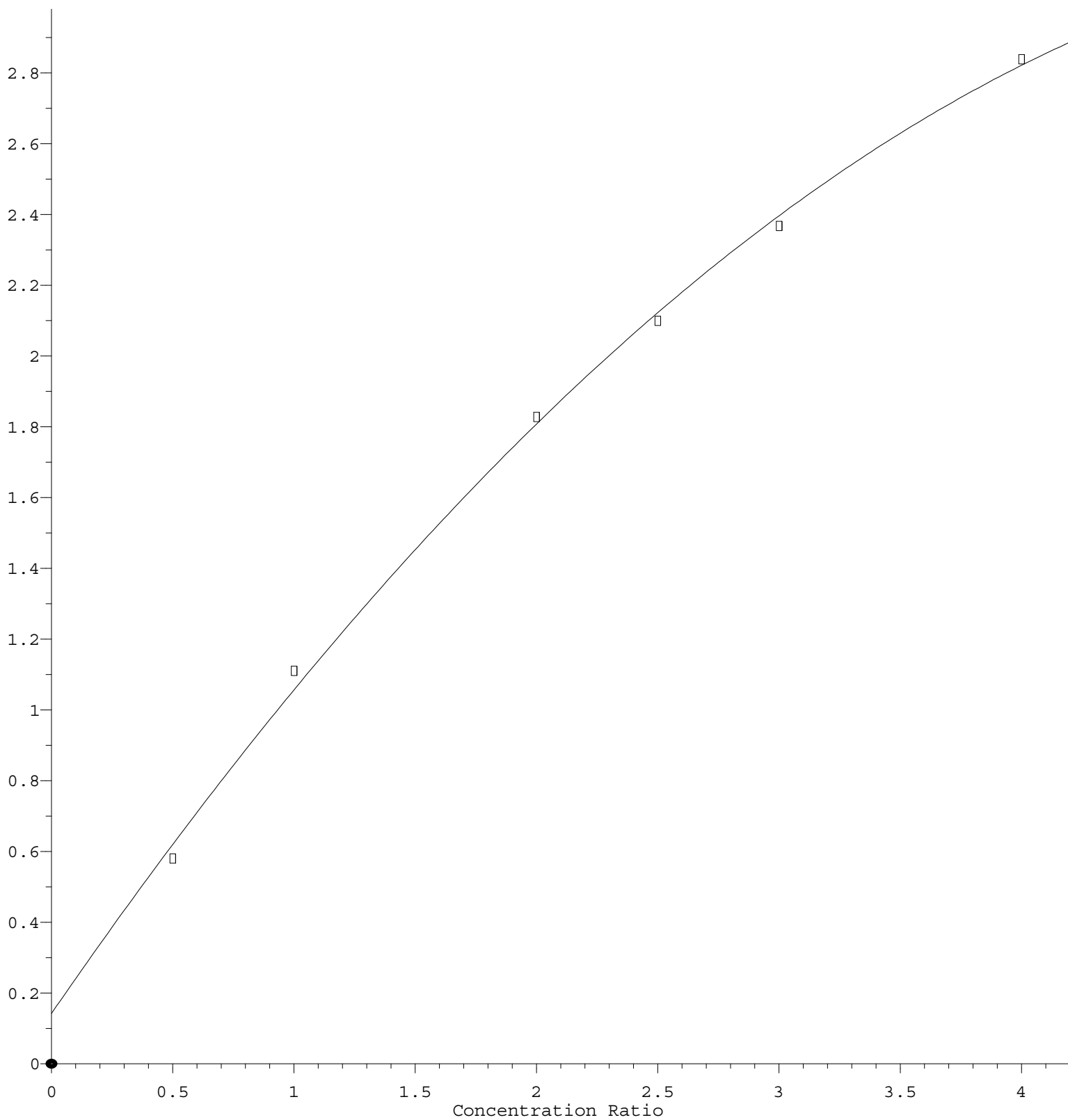
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86) I	Perylene-d12										
87)	Indeno(1,2,3-c...	1.408	1.407	1.488	1.511	1.445	1.505	1.464	1.461	2.96	
88)	Benzo(b)fluora...	1.181	1.176	1.213	1.228	1.184	1.205	1.150	1.191	2.19	
89)	Benzo(k)fluora...	1.210	1.171	1.232	1.209	1.125	1.169	1.130	1.178	3.49	
90) C	Benzo(a)pyrene	0.974	0.974	1.031	1.044	0.997	1.029	0.995	1.006	2.82	
91)	Dibenzo(a,h)an...	1.202	1.177	1.232	1.233	1.177	1.217	1.181	1.203	2.09	
92)	Benzo(g,h,i)pe...	1.148	1.140	1.206	1.219	1.169	1.214	1.187	1.183	2.70	

(#) = Out of Range

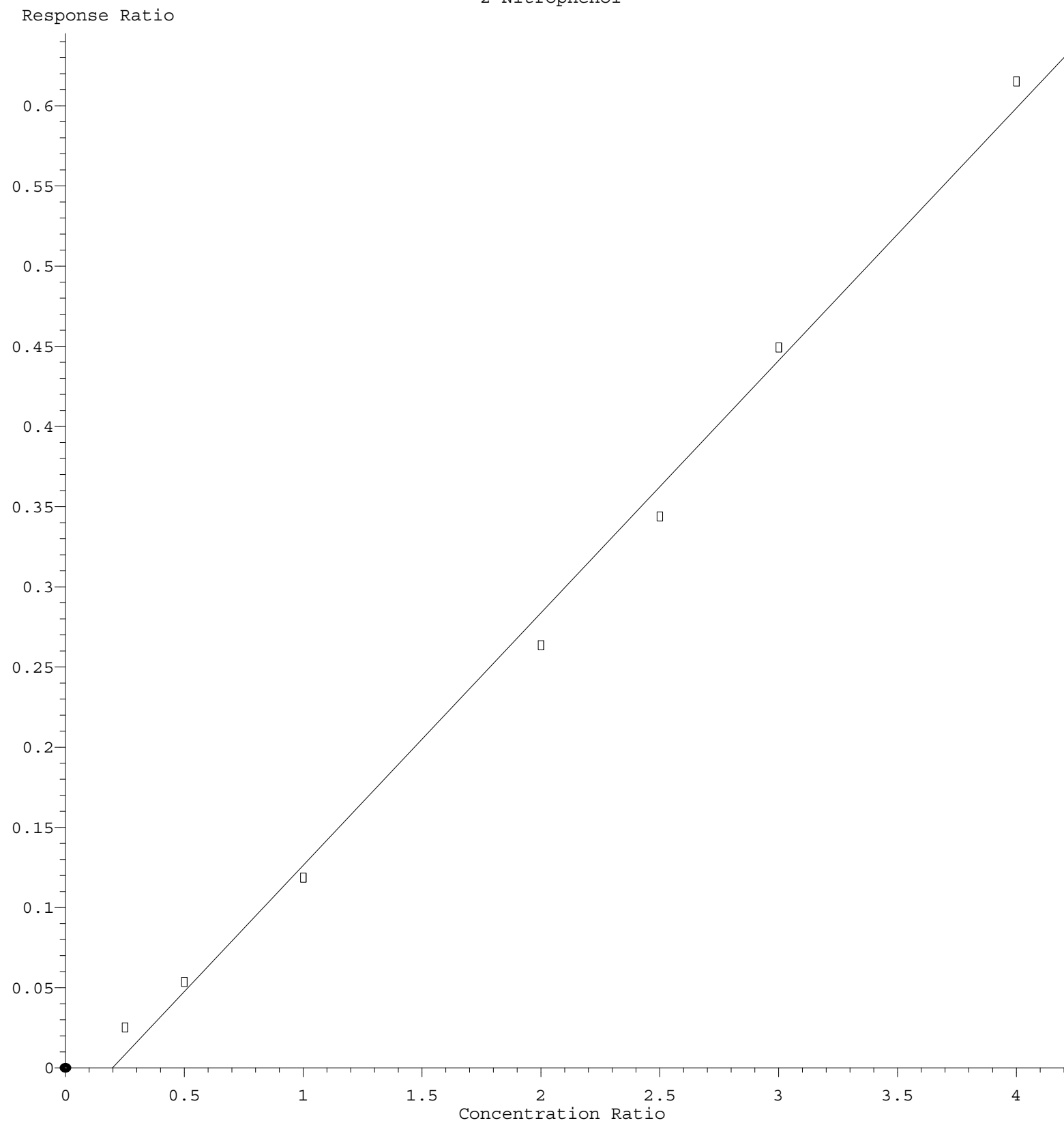
Benzaldehyde

Response Ratio



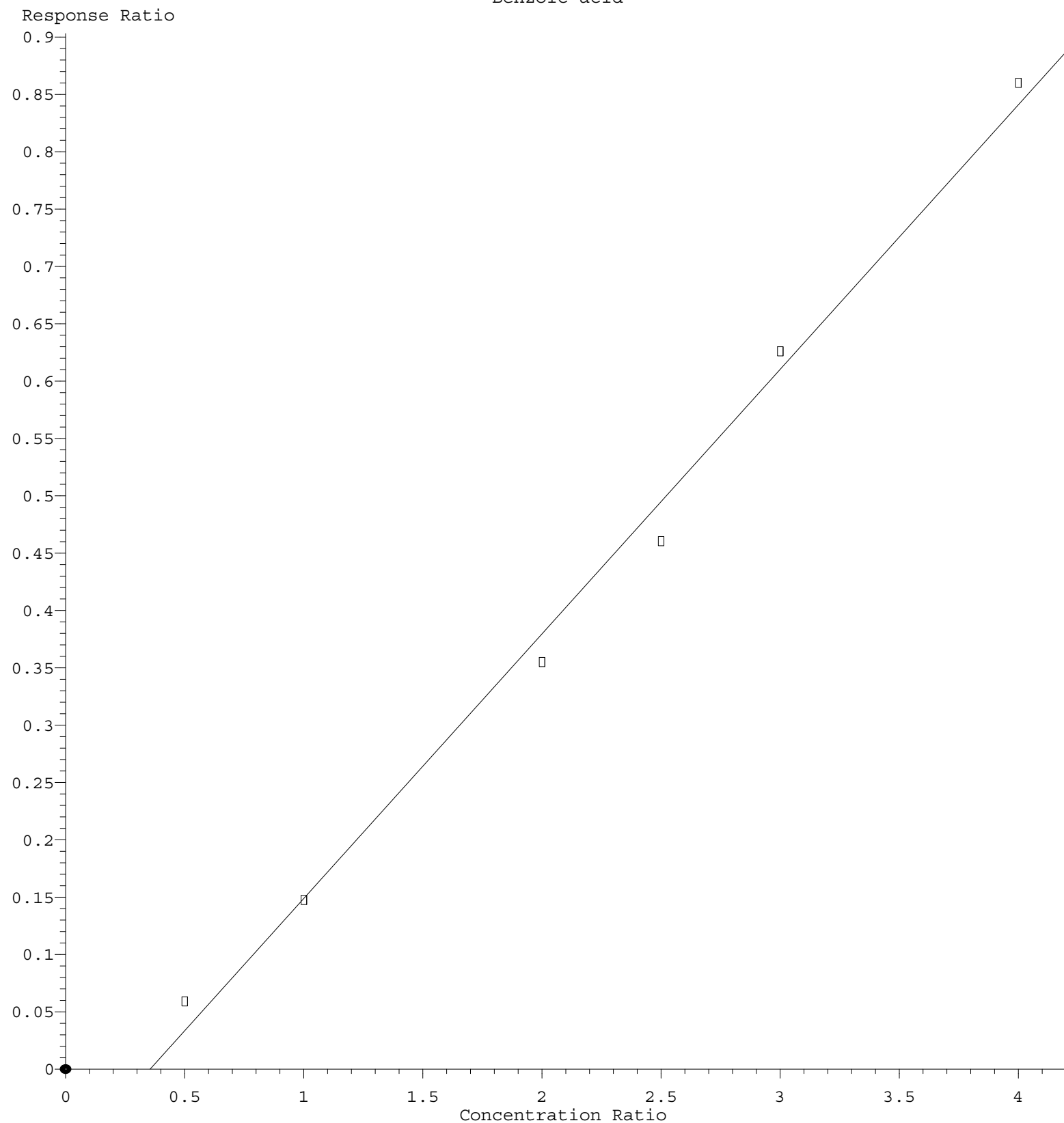
$R = -8.155e-002 A^2 + 9.961e-001 A + 1.417e-001$
Coef of Det (r^2) = 0.998118 Curve Fit: Quadratic
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2-Nitrophenol



Response = 1.575e-001 * Amt - 3.115e-002
 Coef of Det (r^2) = 0.994851 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG092822.M
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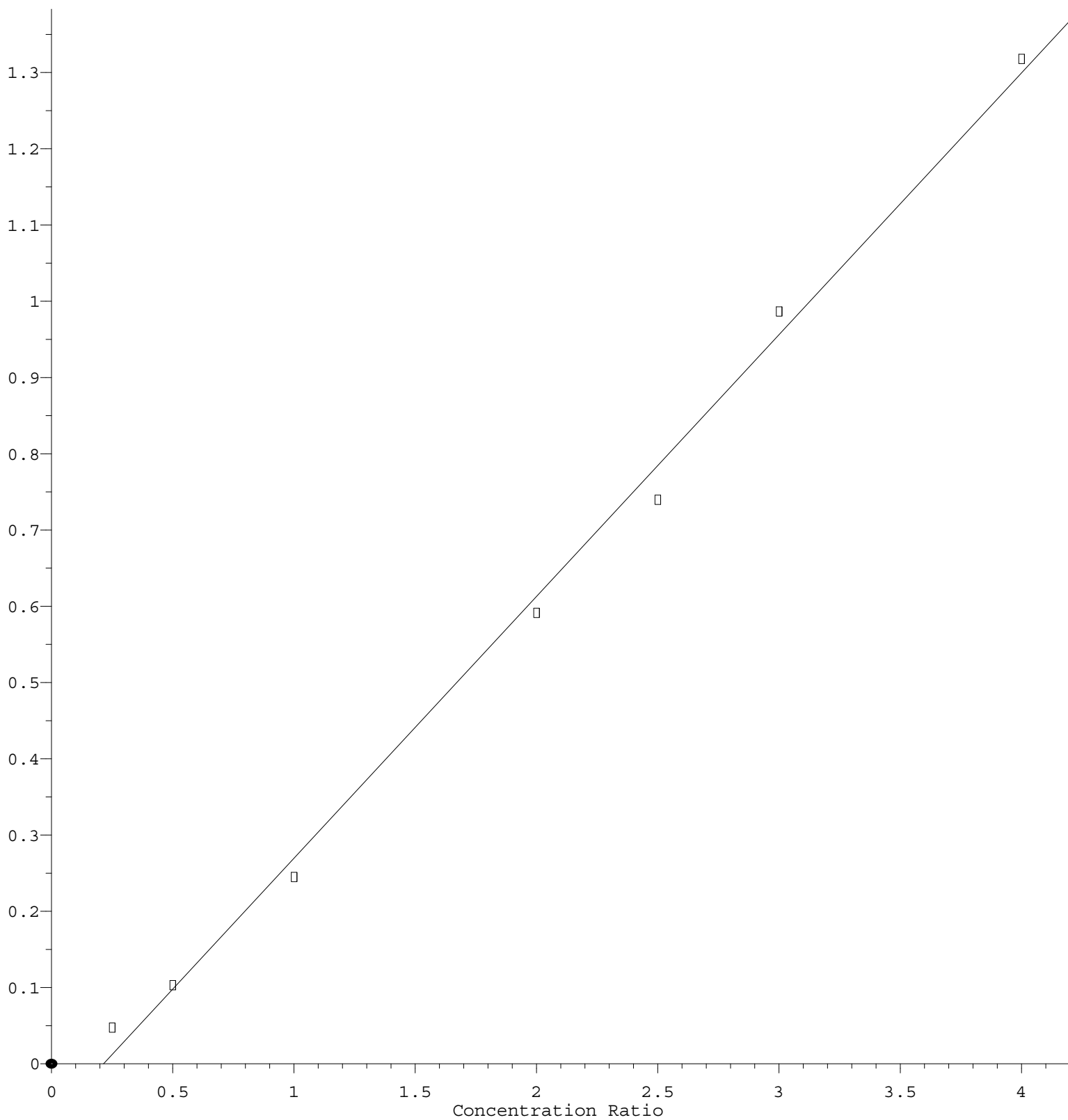
Benzoic acid



$\text{Response} = 2.307\text{e-}001 * \text{Amt} - 8.177\text{e-}002$
 Coef of Det (r^2) = 0.993155 Curve Fit: Linear
 Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG092822.M
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2-Nitroaniline

Response Ratio



$$\text{Response} = 3.433\text{e-}001 * \text{Amt} - 7.393\text{e-}002$$

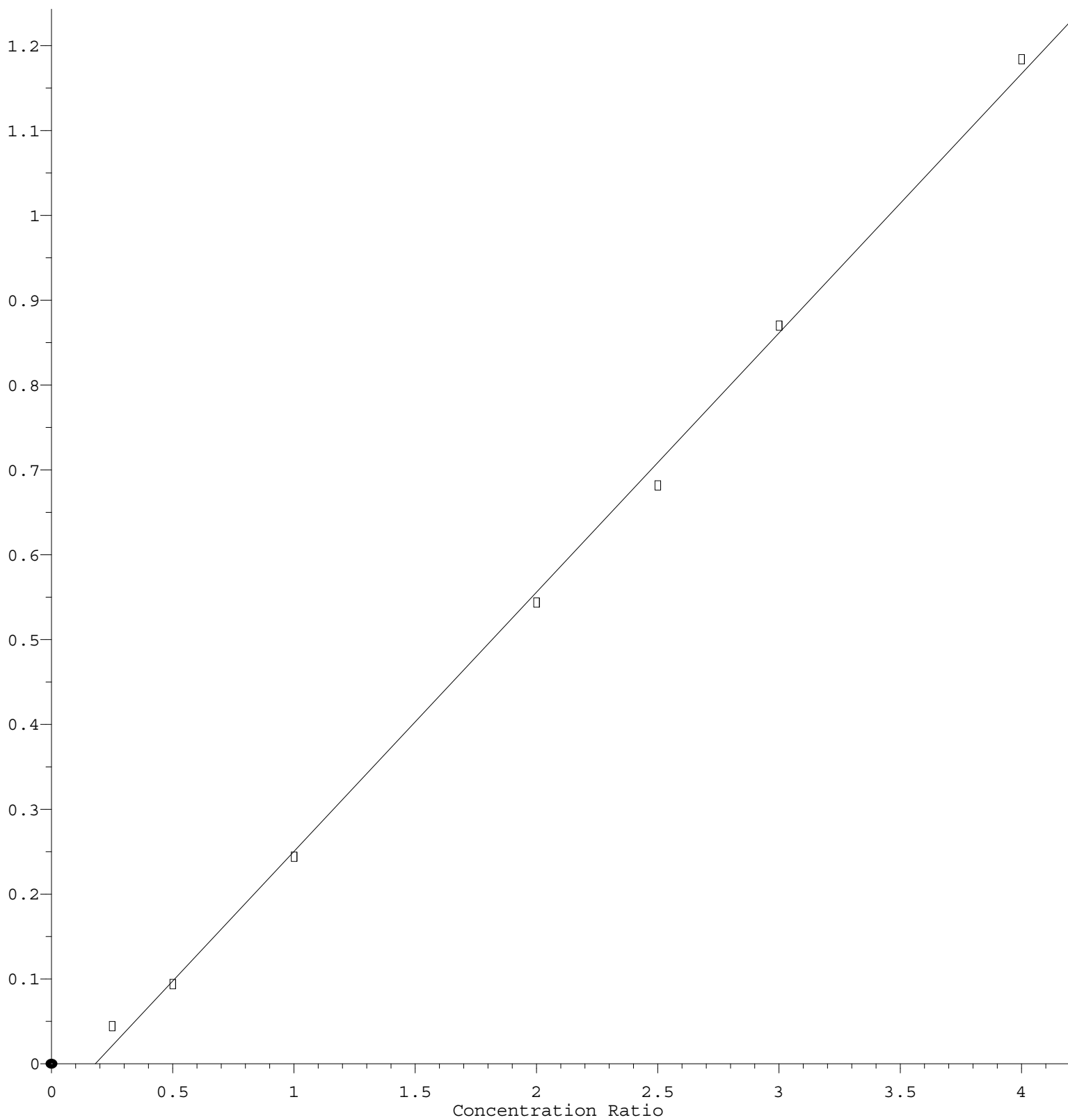
Coef of Det (r^2) = 0.995869 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.056 \times 10^{-1} \times \text{Amt} - 5.533 \times 10^{-2}$$

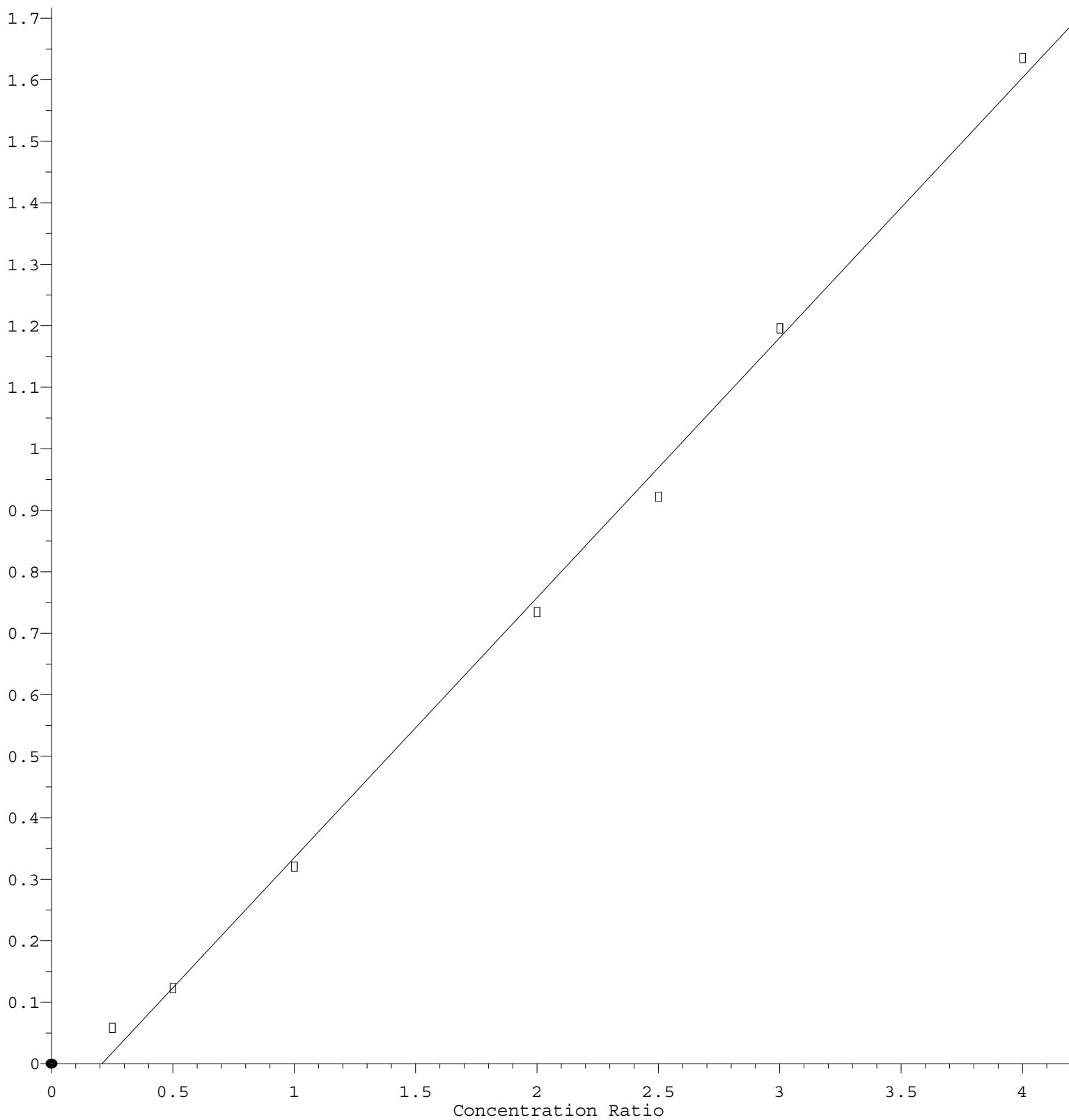
Coef of Det (r^2) = 0.998294 Curve Fit: Linear

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.229\text{e-}001 * \text{Amt} - 8.780\text{e-}002$$

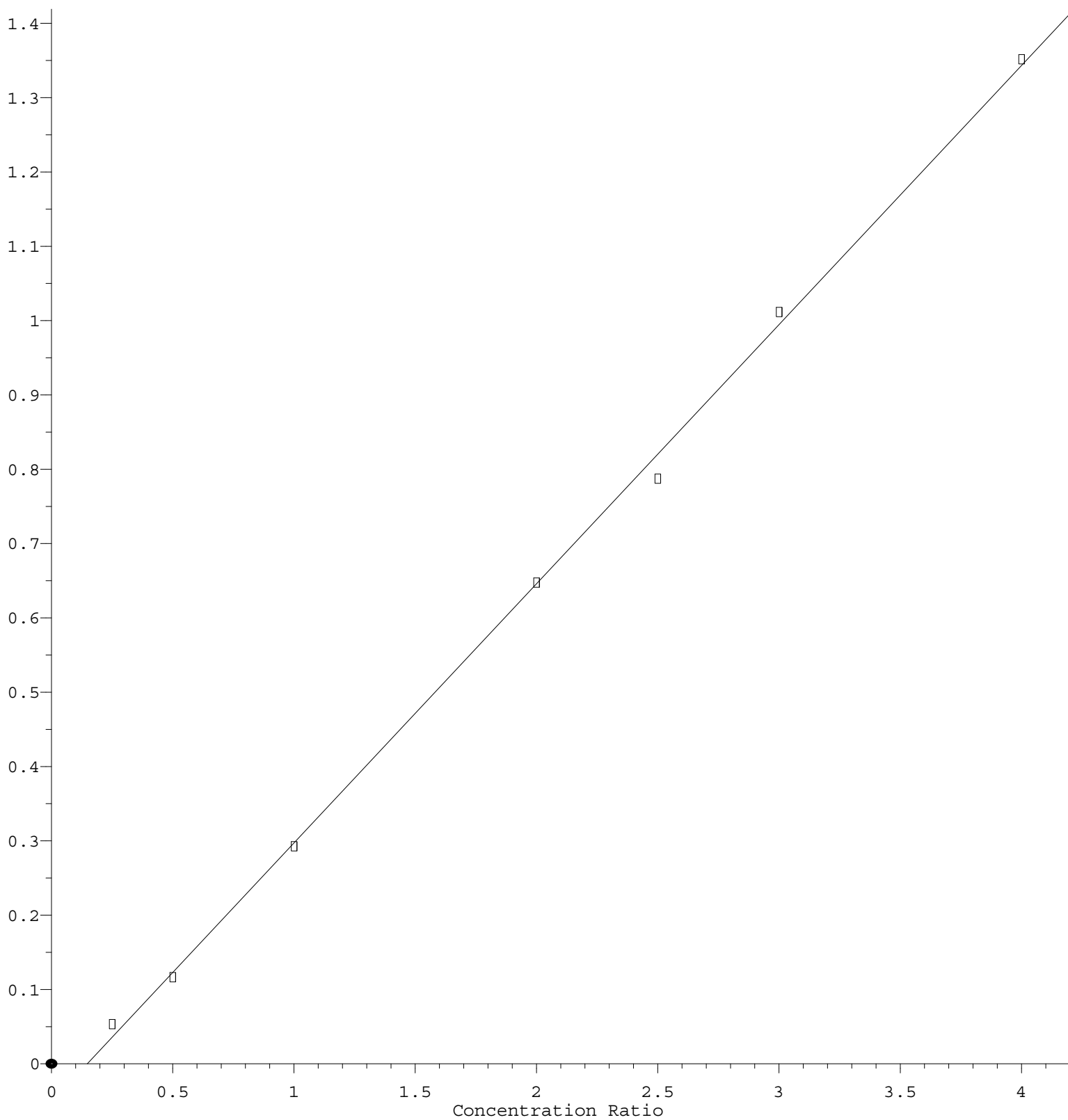
Coef of Det (r^2) = 0.997140 Curve Fit: Linear

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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.487\text{e-}001 * \text{Amt} - 5.145\text{e-}002$$

Coef of Det (r^2) = 0.998705 Curve Fit: Linear

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