

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG061323.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jun 14 03:52:08 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BG057690.D 5 =BG057691.D 10 =BG057692.D 20 =BG057693.D 40 =BG057694.D 50 =BG057695.D 60 =BG057696.D 80 =BG057697.D

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

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane	0.706	0.686	0.680	0.590	0.595	0.602	0.518	0.625	10.80	
3) Pyridine	1.581	1.814	1.888	1.814	1.783	1.844	1.668	1.770	6.08	
4) n-Nitrosodimet...	0.832	0.887	0.899	0.879	0.843	0.900	0.803	0.863	4.35	
5) S 2-Fluorophenol	1.153	1.206	1.303	1.238	1.233	1.287	1.179	1.228	4.42	
6) Aniline	2.366	2.578	2.667	2.449	2.378	2.549	2.343	2.476	5.01	
7) S Phenol-d6	1.723	1.942	2.014	1.891	1.860	1.953	1.824	1.887	5.08	
8) 2-Chlorophenol	0.976	1.158	1.252	1.167	1.214	1.286	1.192	1.178	8.49	
9) Benzaldehyde	1.348	1.370	1.336	1.124	1.074	1.021	0.869	1.163	16.58	
10) C Phenol	1.666	1.846	1.999	1.845	1.832	1.938	1.779	1.844	5.81	
11) bis(2-Chloroet...	1.388	1.555	1.553	1.433	1.368	1.471	1.347	1.445	5.89	
12) 1,3-Dichlorobe...	1.502	1.448	1.446	1.276	1.285	1.350	1.229	1.362	7.66	
13) C 1,4-Dichlorobe...	1.404	1.416	1.477	1.305	1.286	1.338	1.229	1.351	6.37	
14) 1,2-Dichlorobe...	1.279	1.456	1.424	1.274	1.240	1.314	1.200	1.312	7.19	
15) Benzyl Alcohol	1.221	1.431	1.518	1.474	1.443	1.565	1.463	1.445	7.53	
16) 2,2'-oxybis(1-...	3.251	3.370	3.375	3.081	2.964	3.129	2.856	3.147	6.29	
17) 2-Methylphenol	1.183	1.414	1.468	1.347	1.317	1.432	1.337	1.357	6.95	
18) Hexachloroethane	0.366	0.407	0.435	0.404	0.423	0.463	0.424	0.417	7.22	
19) P n-Nitroso-di-n...	1.360	1.306	1.419	1.486	1.364	1.295	1.388	1.296	1.364	4.90
20) 3+4-Methylphenols	1.542	1.864	1.955	1.883	1.857	1.997	1.889	1.855	7.95	
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone	0.598	0.614	0.612	0.571	0.559	0.569	0.543	0.581	4.71	
23) S Nitrobenzene-d5		0.189	0.241	0.288	0.323	0.352	0.358	0.292	22.81	
24) Nitrobenzene	0.170	0.209	0.280	0.324	0.352	0.379	0.383	0.300	27.97	
25) Isophorone	0.944	0.939	0.987	0.897	0.888	0.930	0.906	0.927	3.66	
26) C 2-Nitrophenol	0.041	0.046	0.054	0.070	0.085	0.101		0.066	35.59#	
27) 2,4-Dimethylph...	0.292	0.308	0.312	0.310	0.311	0.318	0.315	0.310	2.66	
28) bis(2-Chloroet...	0.482	0.487	0.498	0.476	0.475	0.484	0.471	0.482	1.86	
29) C 2,4-Dichloroph...	0.183	0.221	0.264	0.277	0.291	0.301	0.300	0.263	17.06	
30) 1,2,4-Trichlor...	0.349	0.345	0.357	0.336	0.333	0.341	0.328	0.341	2.91	
31) Naphthalene	1.130	1.098	1.129	1.048	1.037	1.062	1.022	1.075	4.09	
32) Benzoic acid	0.042	0.073	0.101	0.117	0.138	0.183	0.192	0.121	45.49	
33) 4-Chloroaniline	0.489	0.520	0.533	0.490	0.483	0.496	0.493	0.500	3.68	
34) C Hexachlorobuta...	0.223	0.226	0.222	0.207	0.208	0.213	0.204	0.215	4.18	
35) Caprolactam	0.078	0.100	0.110	0.114	0.110	0.124	0.124	0.108	14.48	
36) C 4-Chloro-3-met...	0.292	0.329	0.390	0.383	0.385	0.414	0.410	0.372	12.09	
37) 2-Methylnaphth...	0.824	0.826	0.830	0.776	0.761	0.785	0.766	0.795	3.80	
38) 1-Methylnaphth...	0.761	0.761	0.790	0.731	0.716	0.738	0.725	0.746	3.46	

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39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.576	0.586	0.592	0.557	0.553	0.568	0.531	0.566	3.73
41) P	Hexachlorocycl...	0.156	0.172	0.206	0.220	0.239	0.261	0.257	0.216	18.87
42) S	2,4,6-Tribromo...	0.164	0.205	0.223	0.236	0.257	0.253	0.223		15.58
43) C	2,4,6-Trichlor...	0.211	0.261	0.320	0.348	0.355	0.389	0.376	0.323	20.06
44)	2,4,5-Trichlor...	0.232	0.313	0.381	0.407	0.427	0.458	0.444	0.380	21.32
45) S	2-Fluorobiphenyl	1.445	1.432	1.433	1.307	1.276	1.285	1.214	1.342	6.95
46)	1,1'-Biphenyl	1.429	1.472	1.444	1.349	1.317	1.365	1.297	1.382	4.86
47)	2-Chloronaphth...	1.073	1.076	1.094	1.015	1.015	1.044	0.995	1.044	3.60
48)	2-Nitroaniline	0.108	0.130	0.181	0.244	0.279	0.333	0.350	0.232	41.24
49)	Acenaphthylene	1.826	1.907	1.925	1.771	1.727	1.802	1.722	1.811	4.45
50)	Dimethylphthalate	1.337	1.512	1.586	1.465	1.431	1.500	1.433	1.466	5.33
51)	2,6-Dinitrotol...	0.076	0.103	0.146	0.189	0.211	0.251	0.260	0.177	40.25
52) C	Acenaphthene	1.106	1.130	1.132	1.065	1.043	1.083	1.041	1.086	3.54
53)	3-Nitroaniline	0.107	0.134	0.188	0.230	0.247	0.287	0.292	0.212	34.10
54) P	2,4-Dinitrophenol	0.046	0.055	0.057	0.065	0.080	0.087	0.065		24.33
55)	Dibenzofuran	1.927	1.950	1.966	1.754	1.701	1.774	1.684	1.822	6.67
56) P	4-Nitrophenol	0.114	0.156	0.177	0.189	0.226	0.226	0.181		23.58
57)	2,4-Dinitrotol...	0.092	0.137	0.197	0.245	0.269	0.331	0.335	0.229	40.47
58)	Fluorene	1.542	1.625	1.585	1.381	1.339	1.382	1.307	1.452	8.86
59)	2,3,4,6-Tetrac...	0.195	0.261	0.332	0.340	0.347	0.382	0.372	0.318	21.00
60)	Diethylphthalate	1.355	1.570	1.636	1.516	1.469	1.577	1.473	1.514	6.08
61)	4-Chlorophenyl...	0.835	0.863	0.825	0.746	0.717	0.749	0.710	0.778	7.95
62)	4-Nitroaniline	0.127	0.174	0.239	0.251	0.265	0.296	0.294	0.235	26.79
63)	Azobenzene	1.688	1.763	1.743	1.565	1.516	1.593	1.526	1.628	6.31
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.026	0.032	0.038	0.045	0.055	0.060	0.043		31.02
66) c	n-Nitrosodiphe...	0.528	0.539	0.545	0.515	0.504	0.522	0.506	0.523	3.00
67)	4-Bromophenyl-...	0.201	0.202	0.212	0.197	0.200	0.210	0.203	0.204	2.61
68)	Hexachlorobenzene	0.210	0.220	0.224	0.210	0.206	0.214	0.205	0.213	3.27
69)	Atrazine	0.154	0.172	0.185	0.178	0.176	0.182	0.171	0.174	5.91
70) C	Pentachlorophenol	0.086	0.115	0.128	0.136	0.152	0.149	0.128		19.23
71)	Phenanthrene	1.032	1.041	1.037	0.945	0.923	0.949	0.904	0.976	6.04
72)	Anthracene	1.021	1.049	1.054	0.962	0.946	0.966	0.923	0.989	5.28
73)	Carbazole	0.964	0.992	0.980	0.887	0.860	0.889	0.839	0.916	6.72
74)	Di-n-butylphth...	0.800	0.964	1.083	1.068	1.058	1.100	1.030	1.015	10.30
75) C	Fluoranthene	1.260	1.269	1.270	1.128	1.101	1.140	1.062	1.176	7.52
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.475	0.491	0.472	0.514	0.474	0.478	0.434	0.477	5.02
78)	Pyrene	1.415	1.517	1.526	1.374	1.369	1.421	1.339	1.423	5.14
79) S	Terphenyl-d14	1.161	1.184	1.175	1.040	1.014	1.034	0.964	1.082	8.24
80)	Butylbenzylphth...	0.251	0.347	0.428	0.480	0.503	0.554	0.537	0.443	24.84
81)	Benzo(a)anthra...	1.404	1.454	1.450	1.347	1.330	1.374	1.309	1.381	4.15
82)	3,3'-Dichlorob...	0.393	0.446	0.489	0.467	0.454	0.464	0.437	0.450	6.68
83)	Chrysene	1.371	1.354	1.383	1.293	1.255	1.298	1.247	1.314	4.19
84)	Bis(2-ethylhex...	0.508	0.614	0.719	0.744	0.762	0.799	0.762	0.701	14.70
85) c	Di-n-octyl pht...	0.880	1.093	1.237	1.275	1.398	1.370	1.209		16.05

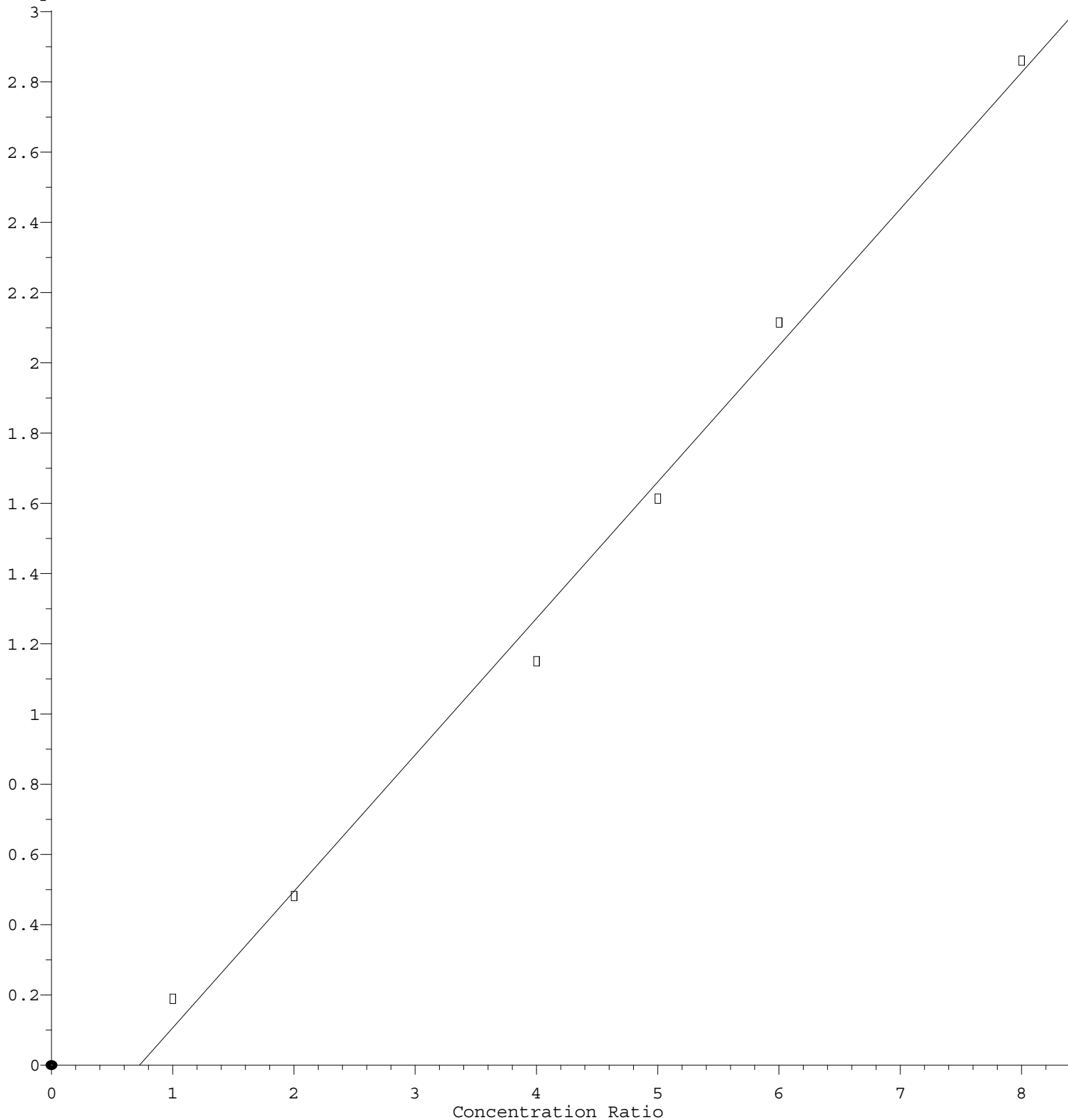
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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.241	1.300	1.331	1.259	1.282	1.342	1.303	1.294	2.81
88)	Benzo(b)fluora...	1.047	1.091	1.138	1.045	1.075	1.129	1.070	1.085	3.41
89)	Benzo(k)fluora...	1.153	1.174	1.166	1.095	1.084	1.127	1.078	1.125	3.56
90) C	Benzo(a)pyrene	1.013	1.086	1.108	1.045	1.054	1.103	1.057	1.067	3.20
91)	Dibenzo(a,h)an...	1.030	1.093	1.114	1.039	1.048	1.095	1.066	1.069	3.00
92)	Benzo(g,h,i)pe...	1.032	1.079	1.095	1.033	1.054	1.103	1.075	1.067	2.68

(#) = Out of Range

Nitrobenzene-d5

Response Ratio



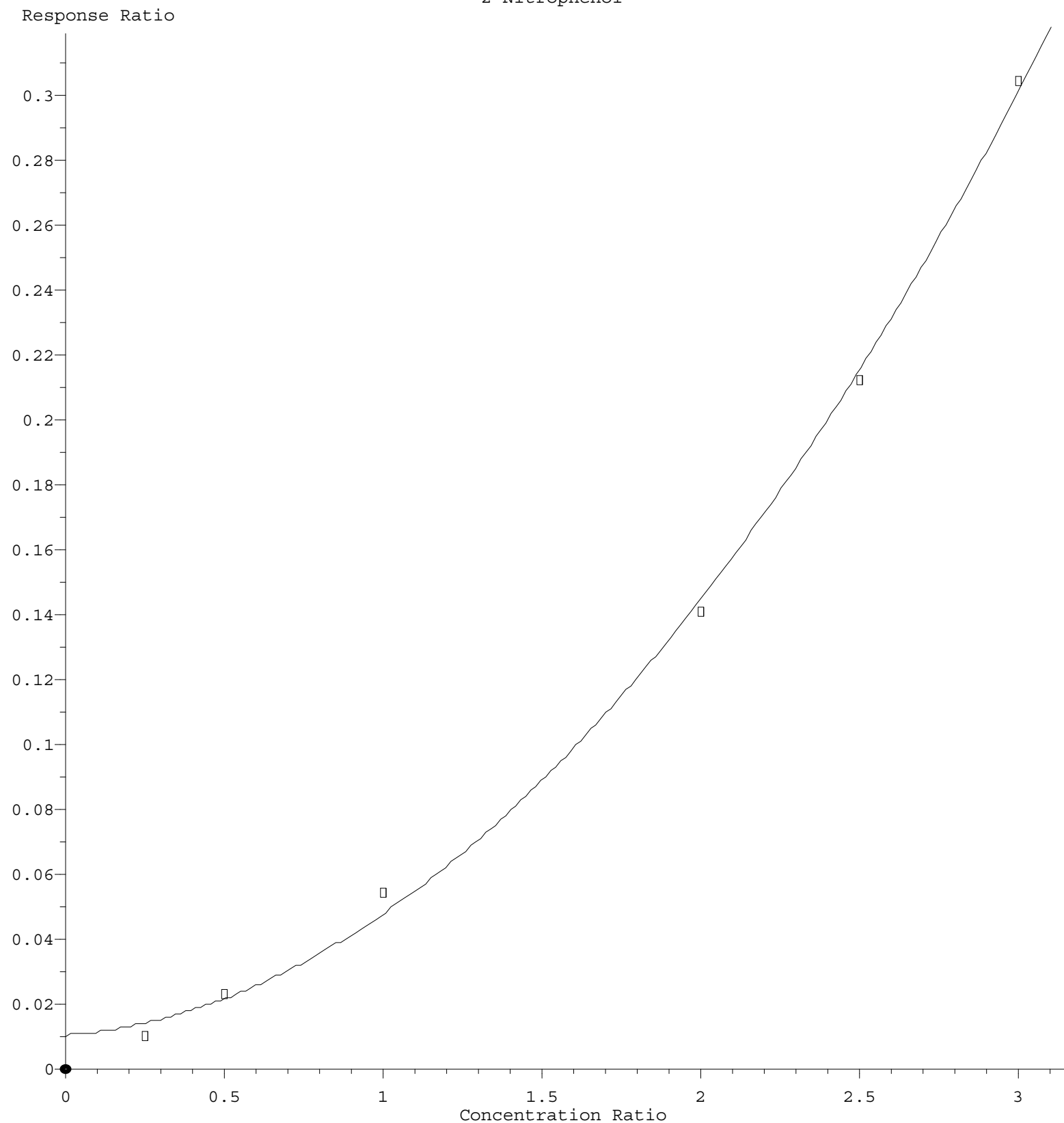
$$\text{Response} = 3.885\text{e-}001 * \text{Amt} - 2.821\text{e-}001$$

Coef of Det (r^2) = 0.994158 Curve Fit: Linear

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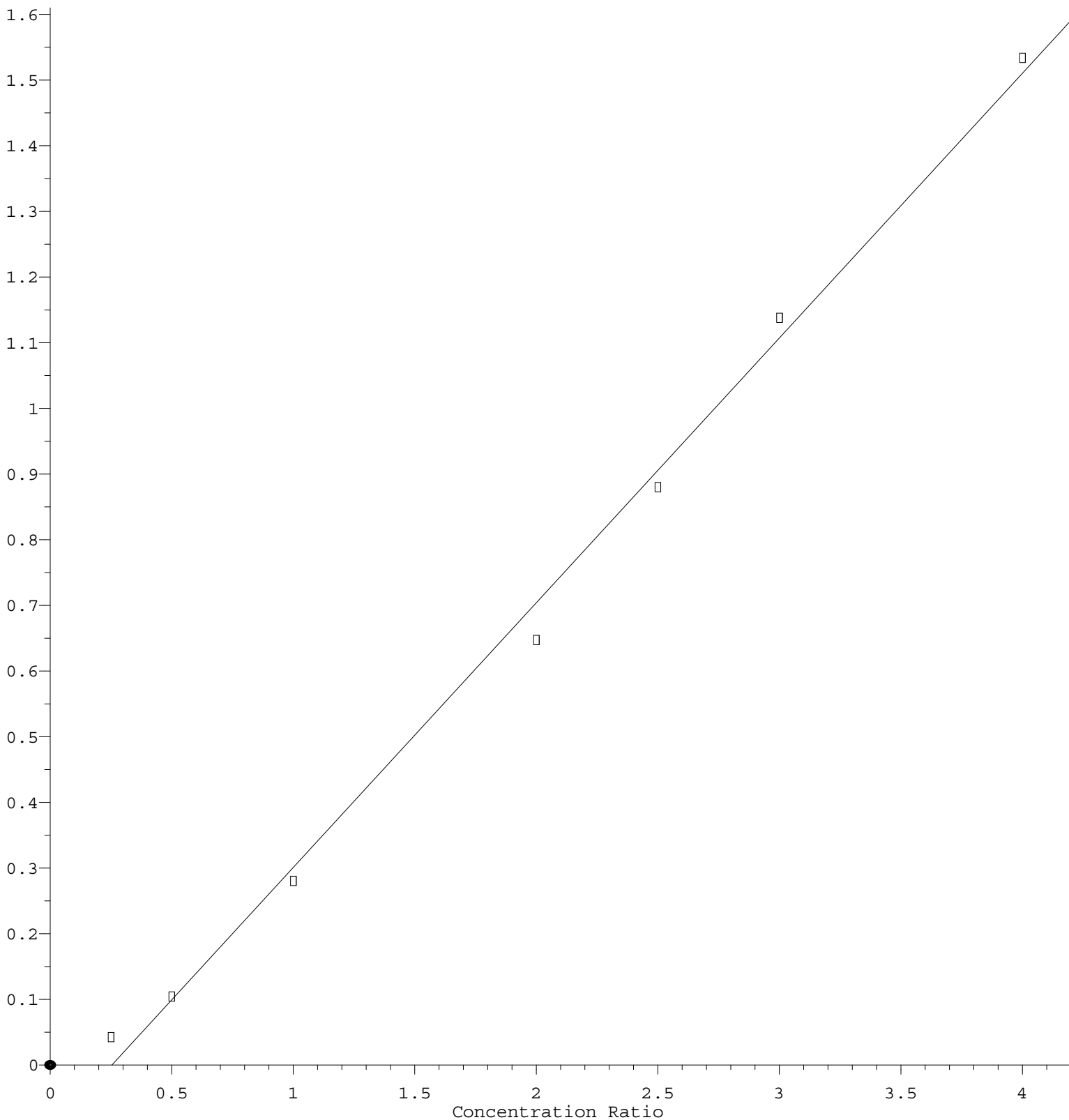
2-Nitrophenol



$R = 2.969e-002 A^2 + 7.826e-003 A + 1.037e-002$
 Coef of Det (r^2) = 0.998597 Curve Fit: Quadratic
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Nitrobenzene

Response Ratio



$$\text{Response} = 4.032\text{e-}001 * \text{Amt} - 1.024\text{e-}001$$

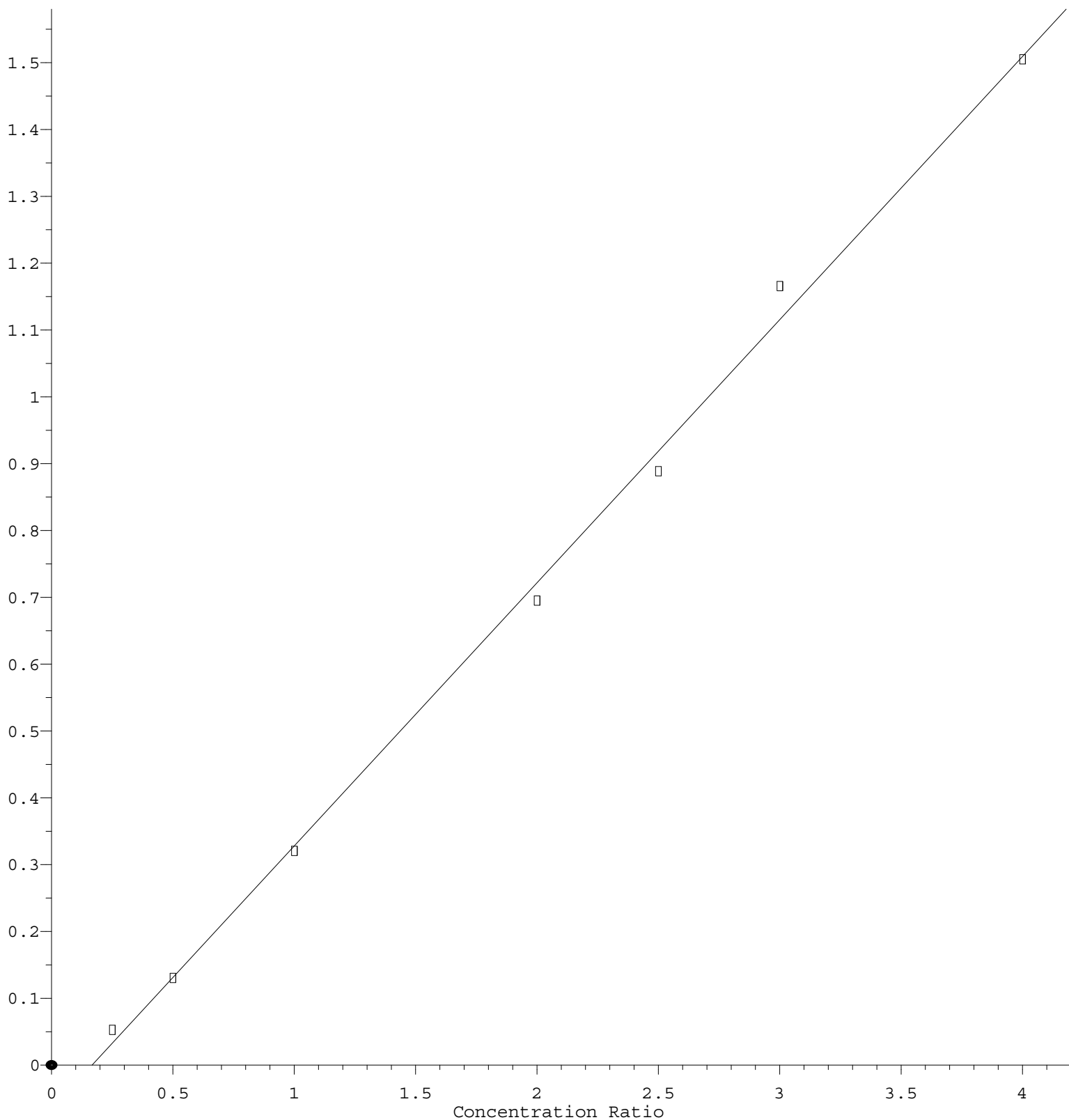
Coef of Det (r^2) = 0.995871 Curve Fit: Linear

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2,4,6-Trichlorophenol

Response Ratio



$$\text{Response} = 3.938\text{e-}001 * \text{Amt} - 6.563\text{e-}002$$

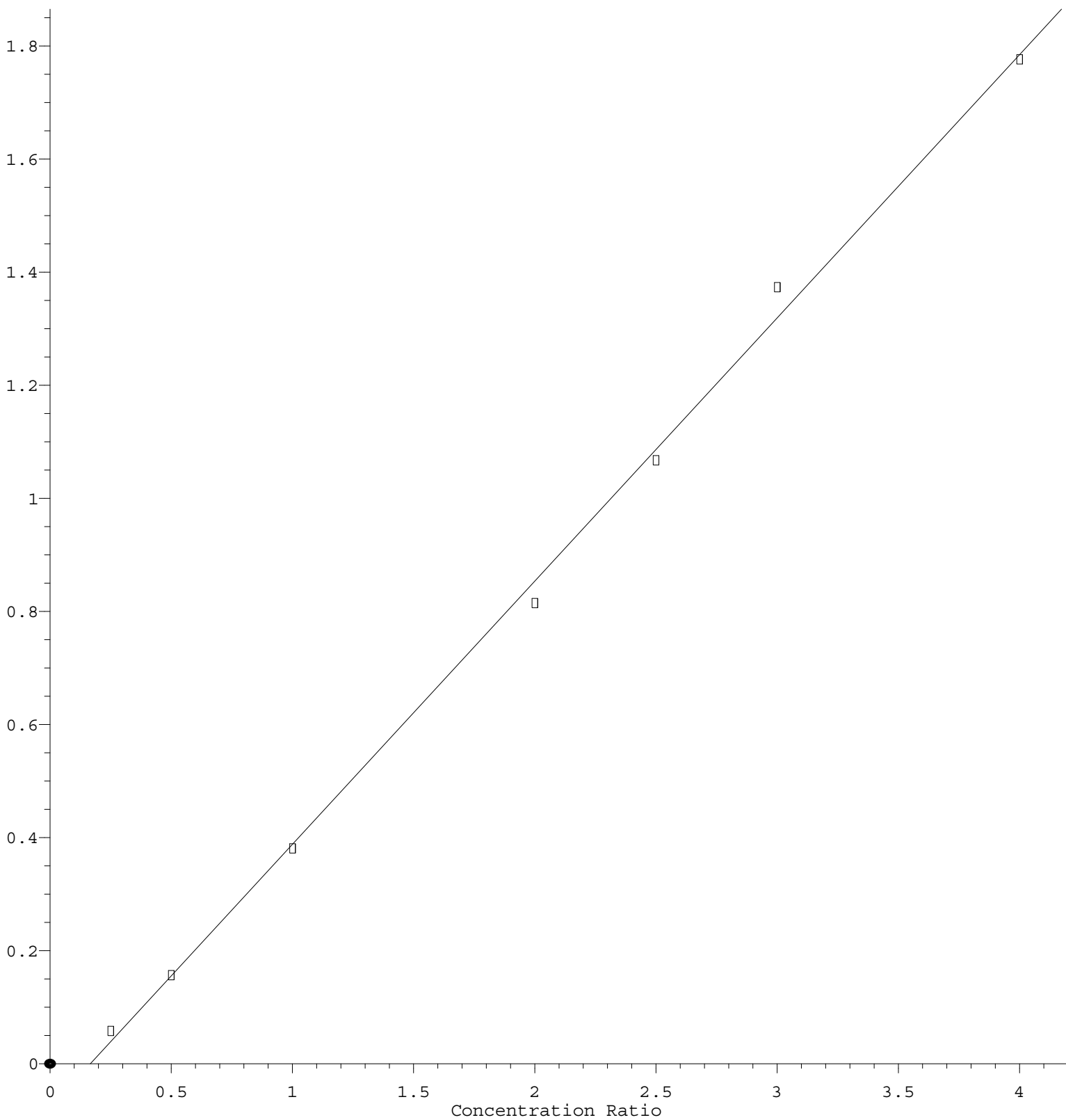
Coef of Det (r^2) = 0.997419 Curve Fit: Linear

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2,4,5-Trichlorophenol

Response Ratio



$$\text{Response} = 4.655\text{e-}001 * \text{Amt} - 7.727\text{e-}002$$

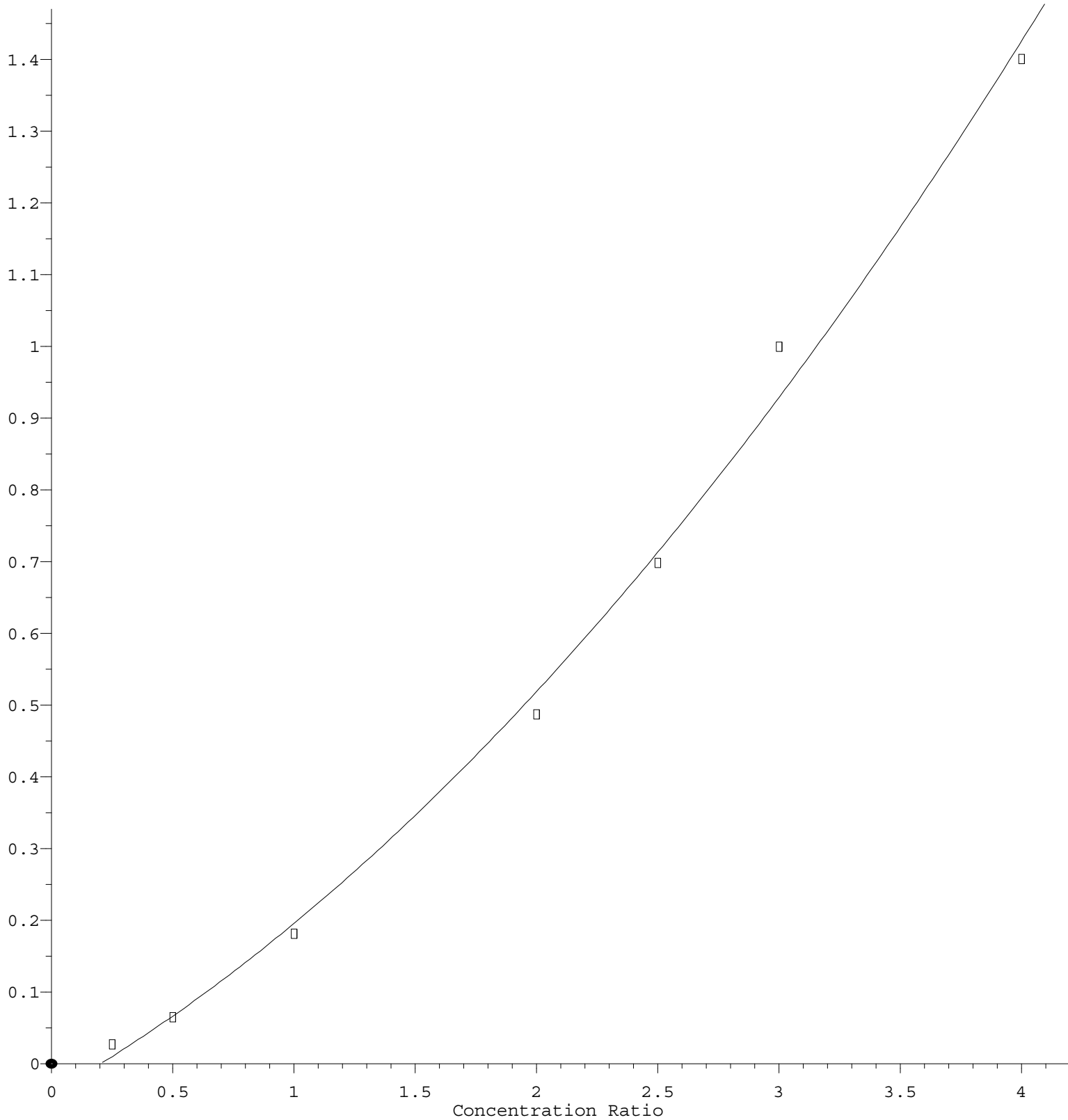
Coef of Det (r^2) = 0.997874 Curve Fit: Linear

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2-Nitroaniline

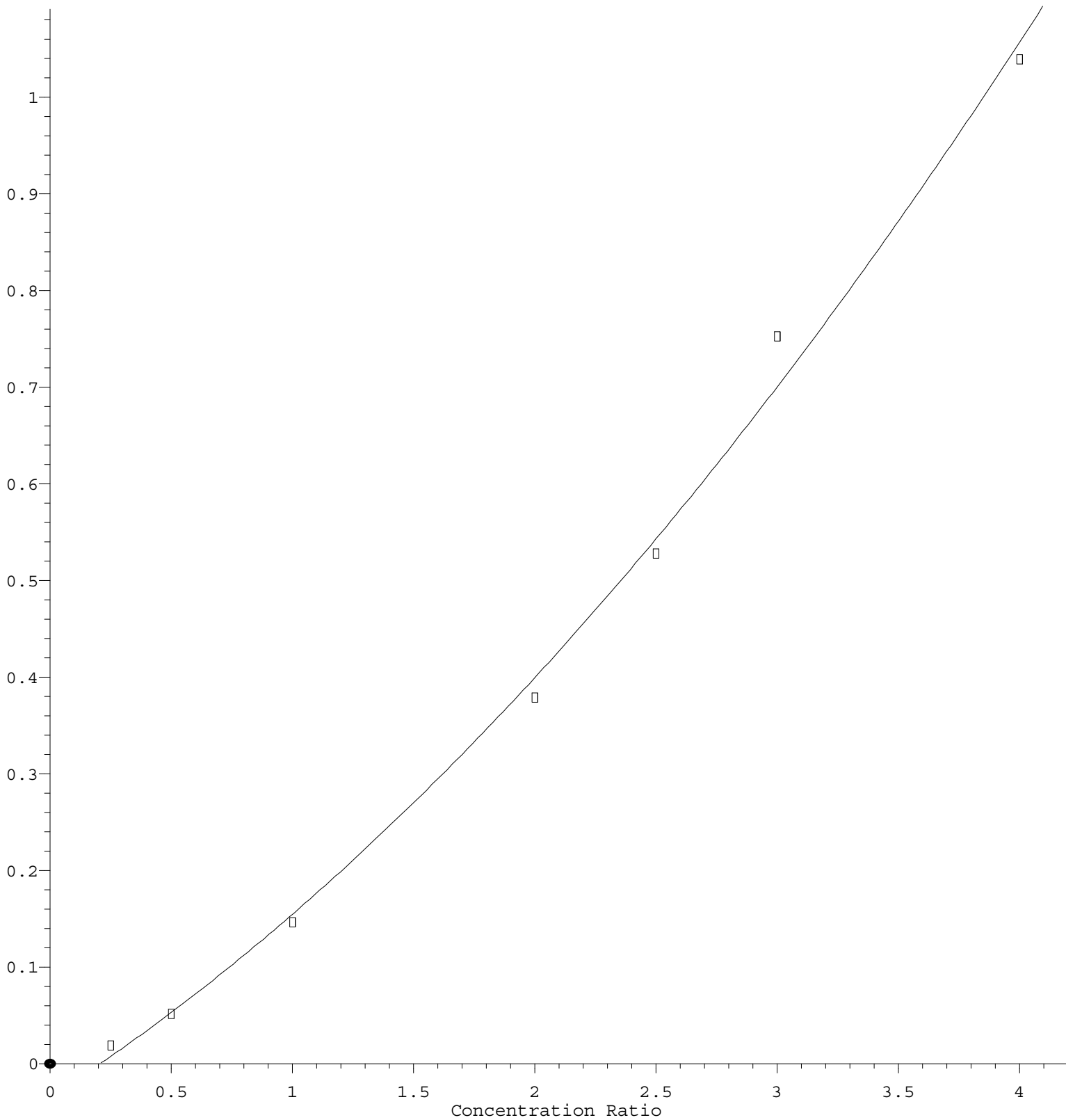
Response Ratio



$R = 4.340e-002 A^2 + 1.930e-001 A - 4.090e-002$
Coef of Det (r^2) = 0.995399 Curve Fit: Quadratic
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2,6-Dinitrotoluene

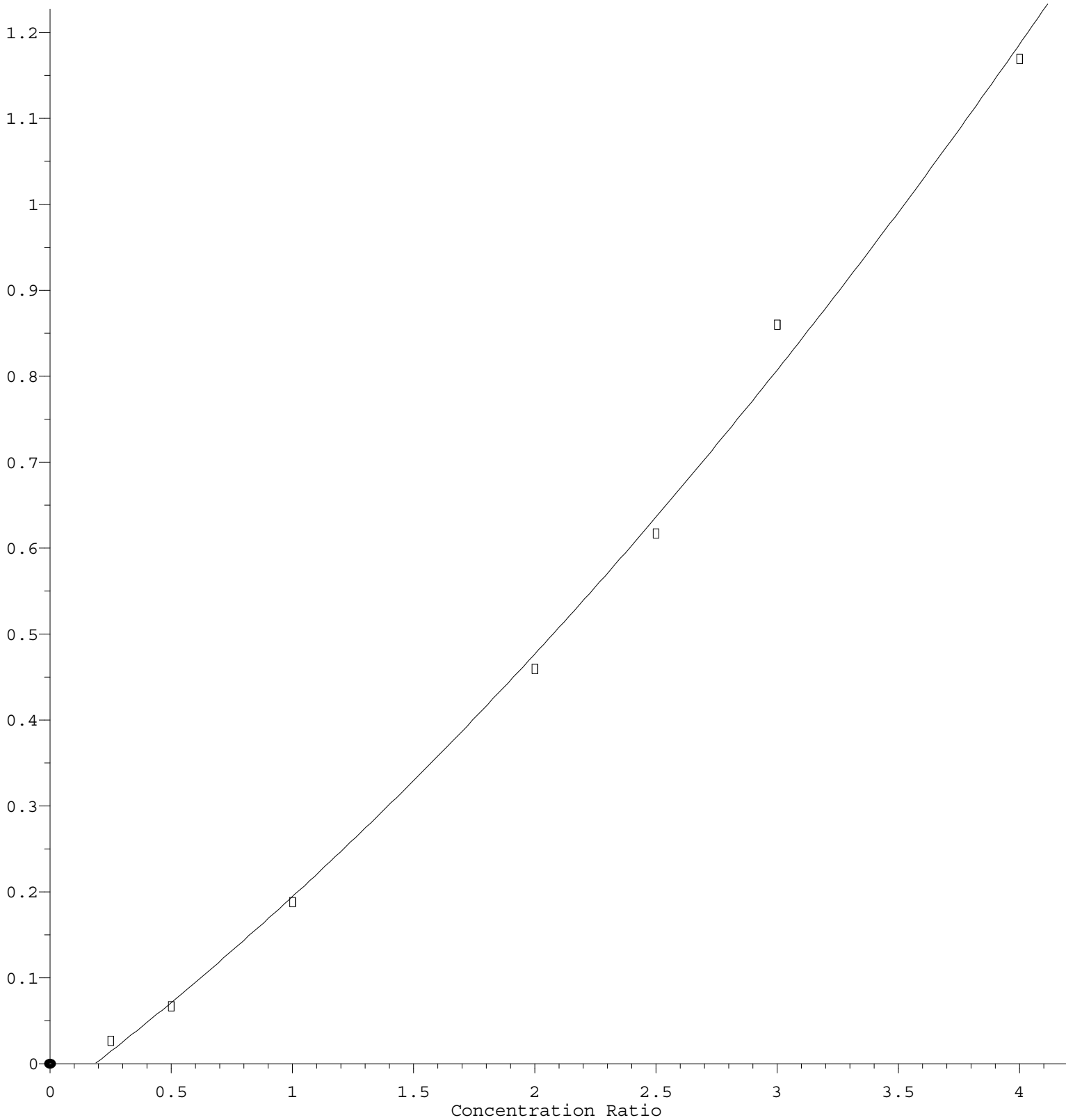
Response Ratio



$R = 2.791e-002 A^2 + 1.612e-001 A - 3.445e-002$
 Coef of Det (r^2) = 0.995570 Curve Fit: Quadratic
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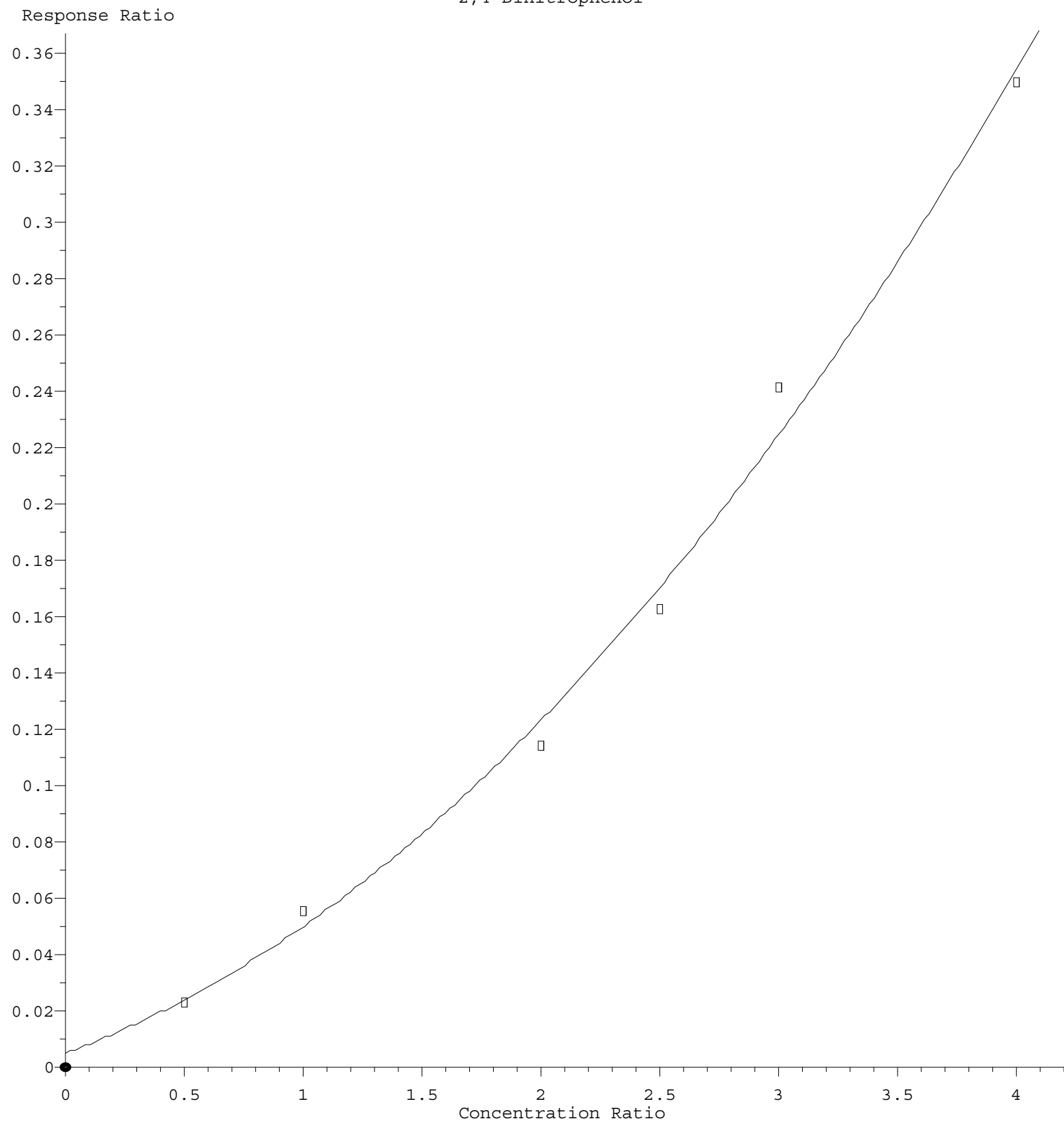
3-Nitroaniline

Response Ratio



$R = 2.410e-002 A^2 + 2.101e-001 A - 3.970e-002$
 Coef of Det (r^2) = 0.996422 Curve Fit: Quadratic
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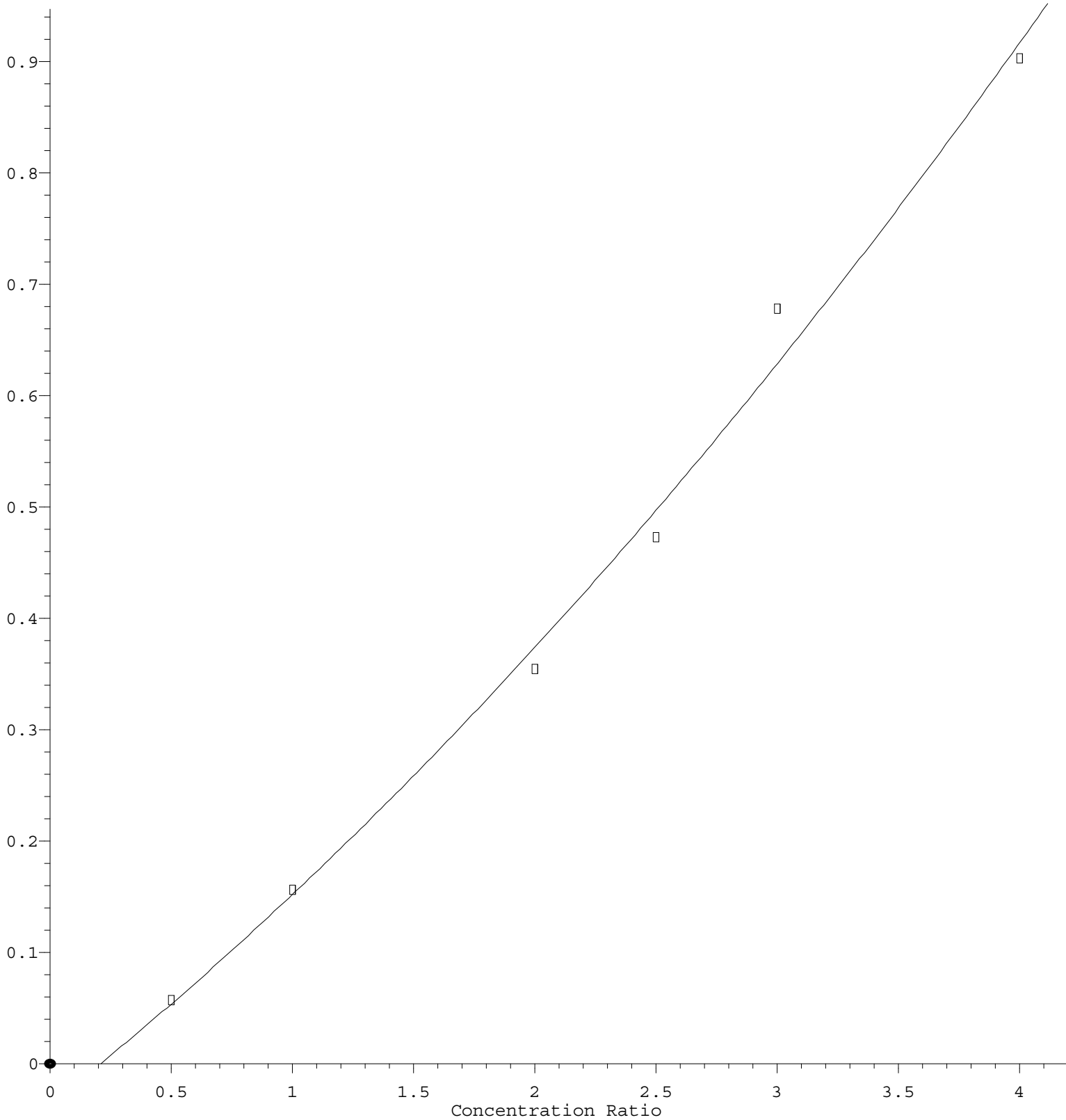
2,4-Dinitrophenol



$R = 1.411e-002 A^2 + 3.085e-002 A + 5.030e-003$
 Coef of Det (r^2) = 0.993640 Curve Fit: Quadratic
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4-Nitrophenol

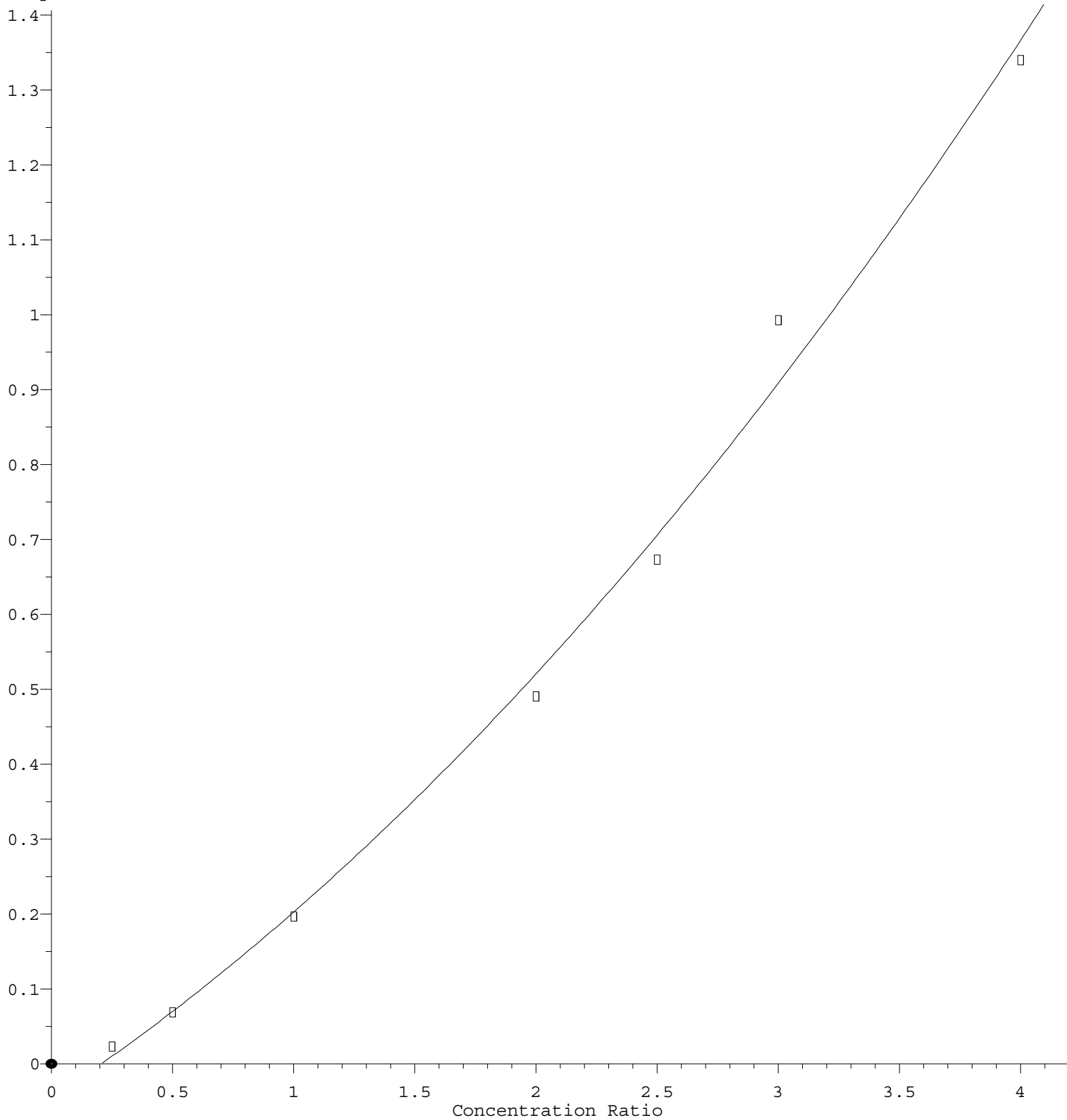
Response Ratio



$R = 1.661e-002 A^2 + 1.718e-001 A - 3.643e-002$
 Coef of Det (r^2) = 0.992840 Curve Fit: Quadratic
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2,4-Dinitrotoluene

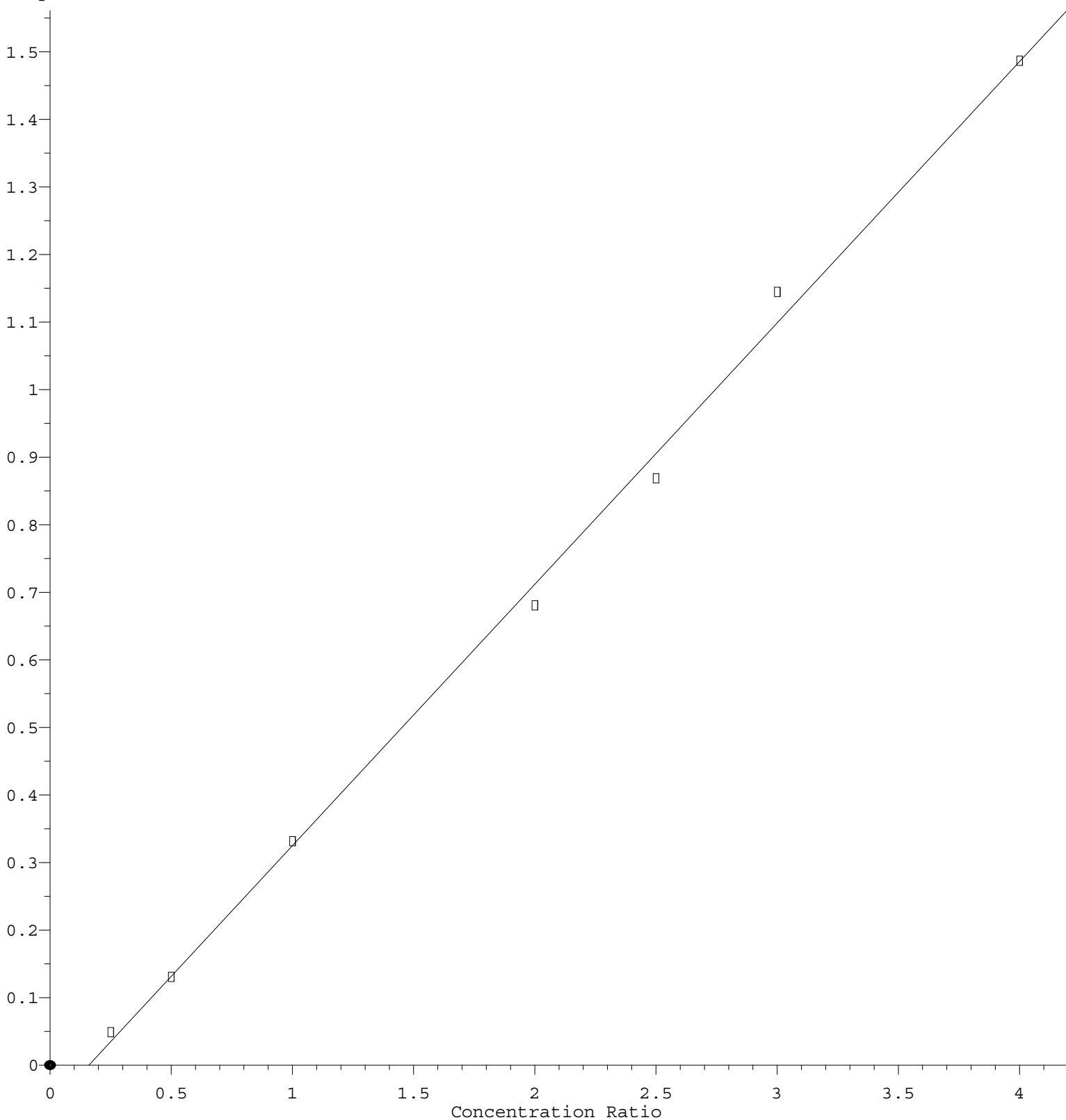
Response Ratio



$R = 3.499\text{e-}002 A^2 + 2.130\text{e-}001 A - 4.528\text{e-}002$
Coef of Det (r^2) = 0.993235 Curve Fit: Quadratic
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2,3,4,6-Tetrachlorophenol

Response Ratio



$$\text{Response} = 3.869\text{e-}001 * \text{Amt} - 6.209\text{e-}002$$

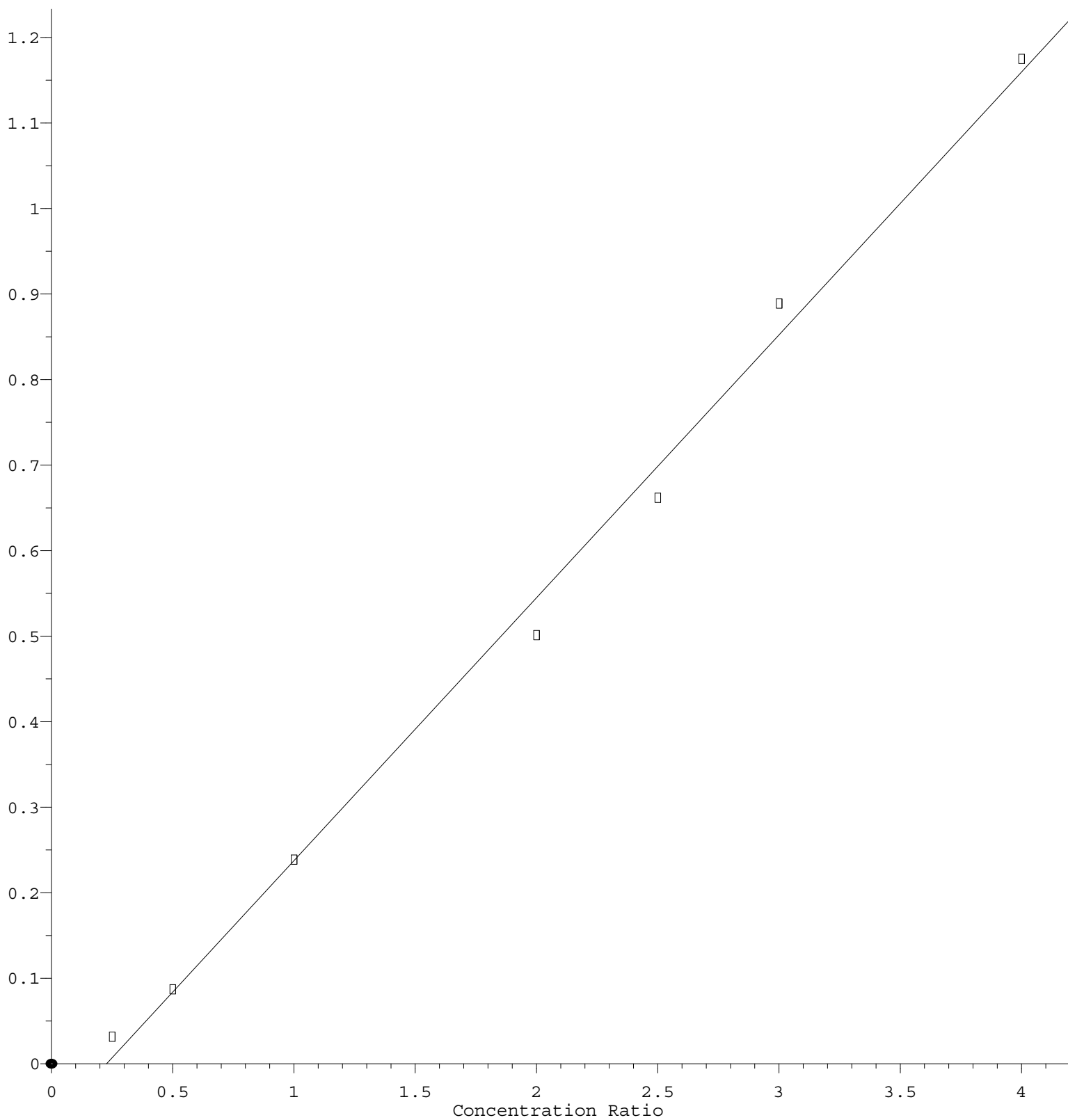
Coef of Det (r^2) = 0.997298 Curve Fit: Linear

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4-Nitroaniline

Response Ratio



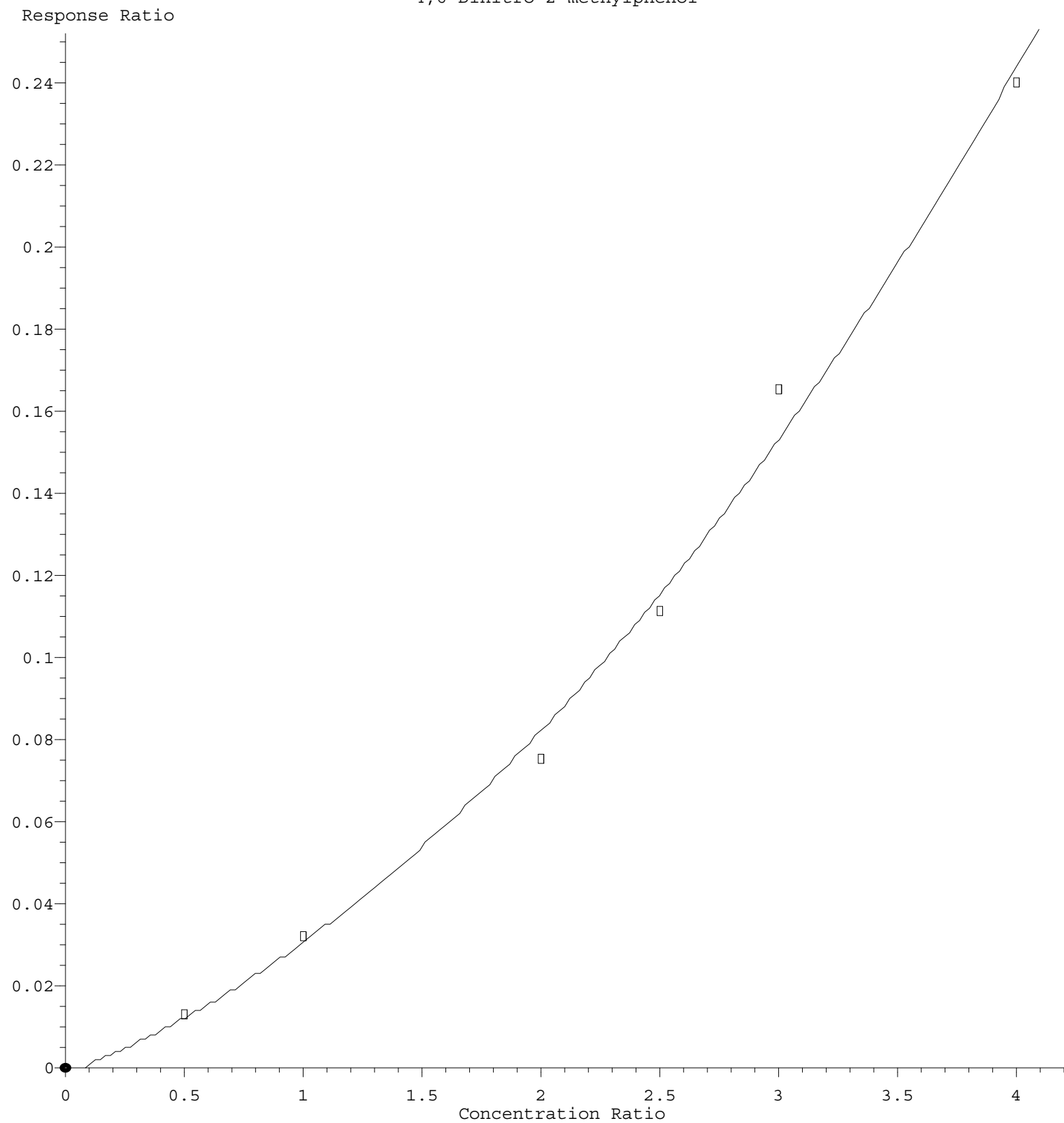
$$\text{Response} = 3.073\text{e-}001 * \text{Amt} - 6.972\text{e-}002$$

Coef of Det (r^2) = 0.994981 Curve Fit: Linear

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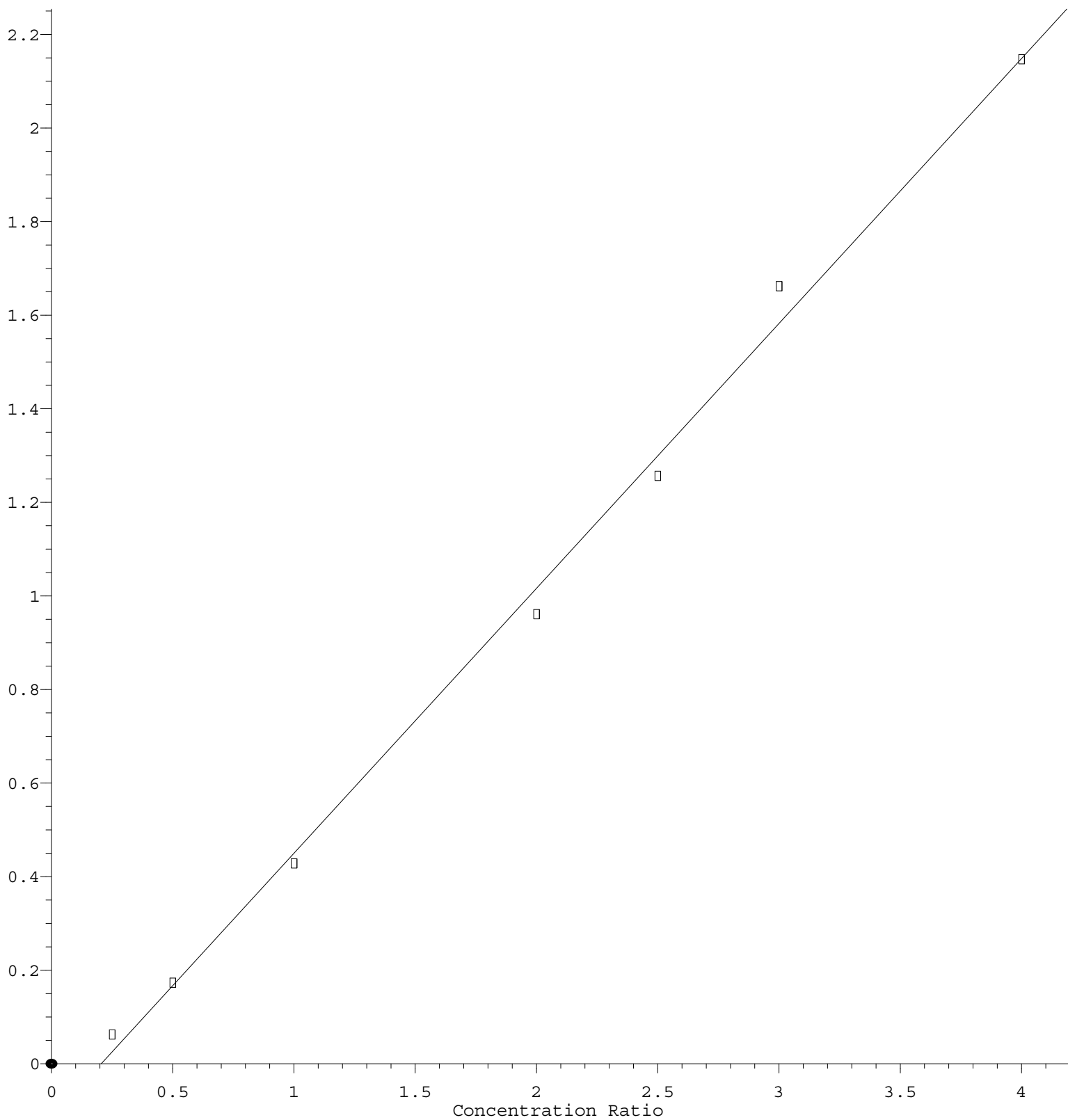
4,6-Dinitro-2-methylphenol



$R = 9.743e-003 A^2 + 2.233e-002 A - 1.468e-003$
 Coef of Det (r^2) = 0.993823 Curve Fit: Quadratic
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Butylbenzylphthalate

Response Ratio



$$\text{Response} = 5.664\text{e-}001 * \text{Amt} - 1.163\text{e-}001$$

Coef of Det (r^2) = 0.996444 Curve Fit: Linear

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