

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG020624.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Feb 07 01:26:35 2024
 Response Via : Initial Calibration

Calibration Files

2.5 =BG060553.D 5 =BG060554.D 10 =BG060555.D 20 =BG060556.D 40 =BG060557.D 50 =BG060558.D 60 =BG060559.D 80 =BG060560.D

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

1) I 1,4-Dichlorobenzen...	-----ISTD-----									
2) 1,4-Dioxane		0.622	0.561	0.427	0.481	0.546	0.431	0.486	0.508	14.12
3) Pyridine		1.384	1.434	1.170	1.344	1.504	1.256	1.352	1.349	8.18
4) n-Nitrosodimet...		0.919	0.922	0.709	0.807	0.904	0.743	0.815	0.831	10.40
5) S 2-Fluorophenol		1.389	1.420	1.283	1.369	1.249	1.303	1.259	1.324	5.11
6) Aniline		1.638	1.673	1.662	1.593	1.635	1.760	1.737	1.671	3.53
7) S Phenol-d6		1.853	1.859	1.830	1.696	1.684	1.805	1.739	1.781	4.14
8) 2-Chlorophenol		1.401	1.418	1.397	1.357	1.321	1.391	1.393	1.383	2.36
9) Benzaldehyde		1.321	1.281	1.151	1.012	0.972	0.989	0.927	1.093	14.47
10) C Phenol		1.918	1.933	1.809	1.709	1.706	1.812	1.747	1.805	5.14
11) bis(2-Chloroet...		1.508	1.552	1.464	1.342	1.364	1.439	1.419	1.441	5.19
12) 1,3-Dichlorobe...		1.731	1.703	1.611	1.584	1.617	1.628	1.643	1.645	3.21
13) C 1,4-Dichlorobe...		1.736	1.739	1.669	1.641	1.660	1.671	1.631	1.678	2.56
14) 1,2-Dichlorobe...		1.714	1.619	1.607	1.618	1.605	1.603	1.579	1.621	2.66
15) Benzyl Alcohol		1.257	1.298	1.260	1.296	1.270	1.290	1.312	1.283	1.63
16) 2,2'-oxybis(1-...		3.414	3.370	3.282	3.343	3.346	3.353	3.326	3.348	1.21
17) 2-Methylphenol		1.302	1.205	1.232	1.240	1.201	1.239	1.213	1.233	2.78
18) Hexachloroethane		0.570	0.585	0.549	0.608	0.576	0.626	0.598	0.587	4.33
19) P n-Nitroso-di-n...	1.216	1.193	1.214	1.145	1.207	1.180	1.252	1.199	1.201	2.57
20) 3+4-Methylphenols		1.647	1.606	1.580	1.679	1.651	1.747	1.684	1.656	3.32
21) I Naphthalene-d8	-----ISTD-----									
22) Acetophenone		0.580	0.558	0.559	0.534	0.538	0.550	0.533	0.550	3.11
23) S Nitrobenzene-d5			0.288	0.325	0.353	0.375	0.393	0.398	0.356	11.99
24) Nitrobenzene		0.283	0.325	0.357	0.377	0.400	0.413	0.415	0.367	13.36
25) Isophorone		0.771	0.761	0.769	0.757	0.774	0.791	0.784	0.772	1.53
26) C 2-Nitrophenol		0.083	0.083	0.098	0.115	0.133	0.144		0.109	23.52
27) 2,4-Dimethylph...		0.281	0.251	0.252	0.244	0.254	0.259	0.251	0.256	4.73
28) bis(2-Chloroet...		0.465	0.460	0.464	0.453	0.453	0.469	0.460	0.461	1.29
29) C 2,4-Dichloroph...		0.275	0.298	0.314	0.310	0.310	0.323	0.323	0.308	5.42
30) 1,2,4-Trichlor...		0.384	0.381	0.371	0.359	0.375	0.380	0.375	0.375	2.24
31) Naphthalene		1.169	1.156	1.136	1.106	1.133	1.151	1.115	1.138	1.97
32) Benzoic acid			0.075	0.115	0.156	0.174	0.193	0.206	0.153	32.59
33) 4-Chloroaniline		0.369	0.393	0.414	0.407	0.416	0.428	0.422	0.407	4.92
34) C Hexachlorobuta...		0.259	0.248	0.259	0.250	0.254	0.265	0.259	0.256	2.28
35) Caprolactam		0.102	0.098	0.104	0.103	0.104	0.112	0.109	0.105	4.37
36) C 4-Chloro-3-met...		0.341	0.345	0.354	0.354	0.356	0.375	0.363	0.356	3.15
37) 2-Methylnaphth...		0.788	0.738	0.754	0.751	0.749	0.787	0.751	0.760	2.59
38) 1-Methylnaphth...		0.764	0.741	0.743	0.731	0.745	0.774	0.745	0.749	1.98

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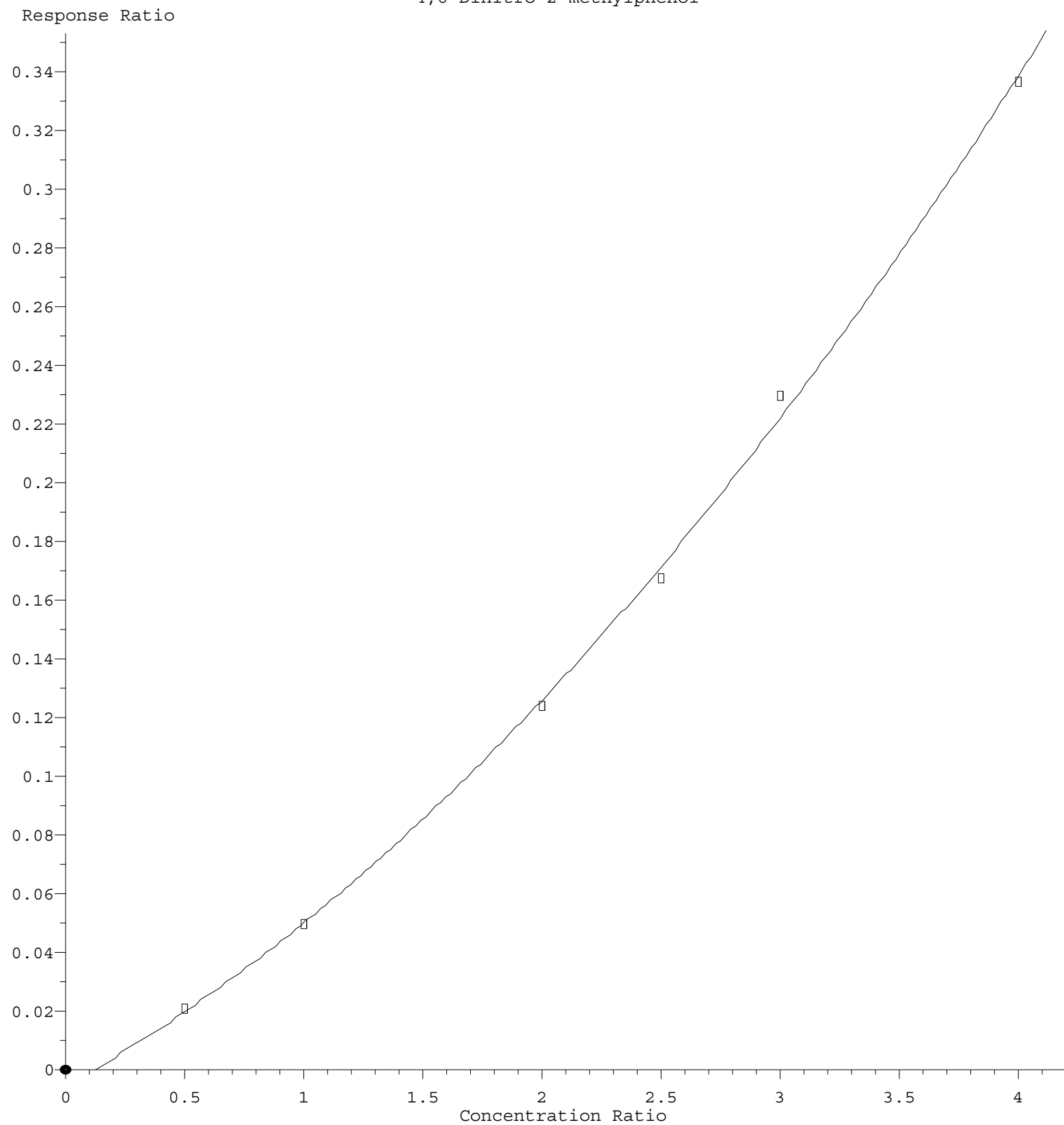
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.672	0.614	0.660	0.664	0.636	0.664	0.645	0.651	3.12	
41) P	Hexachlorocycl...	0.191	0.178	0.224	0.239	0.241	0.252	0.248	0.225	13.01	
42) S	2,4,6-Tribromo...	0.208	0.202	0.238	0.245	0.240	0.251	0.256	0.234	8.91	
43) C	2,4,6-Trichlor...	0.360	0.357	0.385	0.401	0.394	0.413	0.403	0.388	5.58	
44)	2,4,5-Trichlor...	0.420	0.403	0.437	0.462	0.431	0.458	0.444	0.436	4.78	
45) S	2-Fluorobiphenyl	1.541	1.467	1.554	1.502	1.448	1.477	1.435	1.489	3.04	
46)	1,1'-Biphenyl	1.670	1.574	1.647	1.624	1.566	1.611	1.578	1.610	2.47	
47)	2-Chloronaphth...	1.347	1.303	1.331	1.308	1.263	1.302	1.284	1.305	2.15	
48)	2-Nitroaniline	0.194	0.236	0.275	0.331	0.340	0.384	0.395	0.308	24.52	
49)	Acenaphthylene	1.853	1.908	1.876	1.867	1.810	1.874	1.845	1.862	1.64	
50)	Dimethylphthalate	1.571	1.545	1.579	1.547	1.494	1.543	1.529	1.544	1.81	
51)	2,6-Dinitrotol...	0.134	0.174	0.222	0.267	0.282	0.304	0.317	0.243	28.26	
52) C	Acenaphthene	1.215	1.258	1.241	1.181	1.143	1.197	1.186	1.203	3.22	
53)	3-Nitroaniline	0.164	0.192	0.240	0.270	0.276	0.302	0.309	0.250	21.88	
54) P	2,4-Dinitrophenol		0.054	0.065	0.086	0.093	0.106	0.118	0.087	28.11	
55)	Dibenzofuran	1.943	1.811	1.921	1.890	1.833	1.909	1.882	1.884	2.51	
56) P	4-Nitrophenol		0.156	0.200	0.233	0.251	0.266	0.279	0.231	19.85	
57)	2,4-Dinitrotol...	0.177	0.198	0.268	0.336	0.353	0.386	0.410	0.304	30.06	
58)	Fluorene	1.575	1.454	1.523	1.514	1.458	1.508	1.504	1.505	2.72	
59)	2,3,4,6-Tetrac...	0.346	0.350	0.370	0.388	0.380	0.394	0.402	0.376	5.71	
60)	Diethylphthalate	1.617	1.497	1.593	1.596	1.554	1.602	1.596	1.580	2.60	
61)	4-Chlorophenyl...	0.796	0.728	0.777	0.778	0.743	0.767	0.765	0.765	2.99	
62)	4-Nitroaniline	0.202	0.190	0.262	0.304	0.304	0.328	0.331	0.274	21.28	
63)	Azobenzene	1.559	1.482	1.585	1.548	1.504	1.543	1.550	1.539	2.25	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.042	0.050	0.062	0.067	0.077	0.084	0.063	25.21	
66) c	n-Nitrosodiphe...	0.592	0.604	0.600	0.588	0.583	0.614	0.598	0.597	1.70	
67)	4-Bromophenyl-...	0.225	0.221	0.226	0.221	0.220	0.229	0.226	0.224	1.48	
68)	Hexachlorobenzene	0.251	0.248	0.260	0.248	0.251	0.262	0.257	0.254	2.24	
69)	Atrazine	0.203	0.208	0.203	0.190	0.173	0.172	0.152	0.186	11.28	
70) C	Pentachlorophenol	0.118	0.134	0.147	0.152	0.154	0.163	0.165	0.147	11.20	
71)	Phenanthrene	1.116	1.095	1.091	1.057	1.059	1.093	1.063	1.082	2.06	
72)	Anthracene	1.080	1.110	1.086	1.048	1.062	1.093	1.064	1.078	1.93	
73)	Carbazole	1.036	1.008	1.027	0.968	0.970	0.996	0.968	0.996	2.87	
74)	Di-n-butylphth...	1.221	1.245	1.255	1.202	1.223	1.238	1.204	1.227	1.62	
75) C	Fluoranthene	1.371	1.327	1.349	1.280	1.273	1.295	1.275	1.310	2.99	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.111	0.097	0.148	0.589	0.383	0.371	0.356	0.294	61.91	
78)	Pyrene	1.413	1.438	1.440	1.422	1.401	1.447	1.397	1.423	1.40	
79) S	Terphenyl-d14	1.226	1.221	1.224	1.164	1.116	1.153	1.086	1.170	4.81	
80)	Butylbenzylpht...	0.440	0.491	0.525	0.543	0.540	0.564	0.555	0.523	8.27	
81)	Benzo(a)anthra...	1.436	1.418	1.438	1.414	1.390	1.437	1.414	1.421	1.24	
82)	3,3'-Dichlorob...	0.465	0.443	0.448	0.487	0.475	0.488	0.480	0.469	3.82	
83)	Chrysene	1.366	1.367	1.387	1.348	1.330	1.381	1.355	1.362	1.43	
84)	Bis(2-ethylhex...	0.768	0.785	0.810	0.811	0.808	0.844	0.818	0.806	3.00	
85) c	Di-n-octyl pht...	1.229	1.256	1.354	1.377	1.377	1.447	1.415	1.351	5.93	

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.384	1.395	1.468	1.458	1.462	1.526	1.513	1.458	3.66
88)	Benzo(b)fluora...	1.268	1.266	1.323	1.286	1.273	1.335	1.307	1.294	2.15
89)	Benzo(k)fluora...	1.214	1.208	1.267	1.250	1.246	1.278	1.253	1.245	2.06
90) C	Benzo(a)pyrene	1.095	1.100	1.150	1.126	1.126	1.178	1.159	1.134	2.69
91)	Dibenzo(a,h)an...	1.135	1.115	1.222	1.208	1.220	1.268	1.255	1.203	4.79
92)	Benzo(g,h,i)pe...	1.150	1.163	1.209	1.192	1.199	1.264	1.249	1.204	3.47

(#) = Out of Range

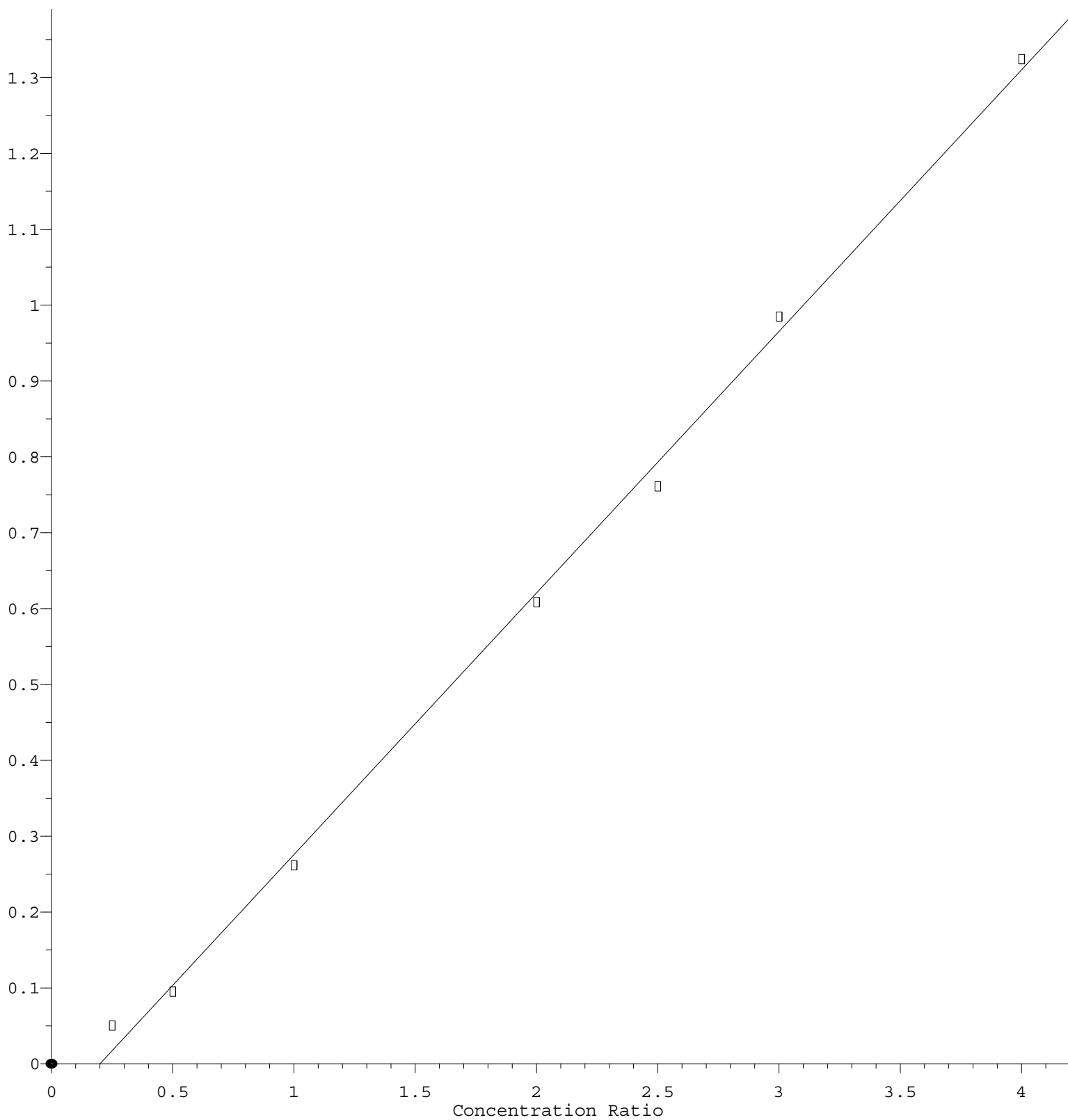
4,6-Dinitro-2-methylphenol



$R = 1.017e-002 A^2 + 4.536e-002 A - 5.490e-003$
Coef of Det (r^2) = 0.998813 Curve Fit: Quadratic
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4-Nitroaniline

Response Ratio



$$\text{Response} = 3.448\text{e-}001 * \text{Amt} - 6.902\text{e-}002$$

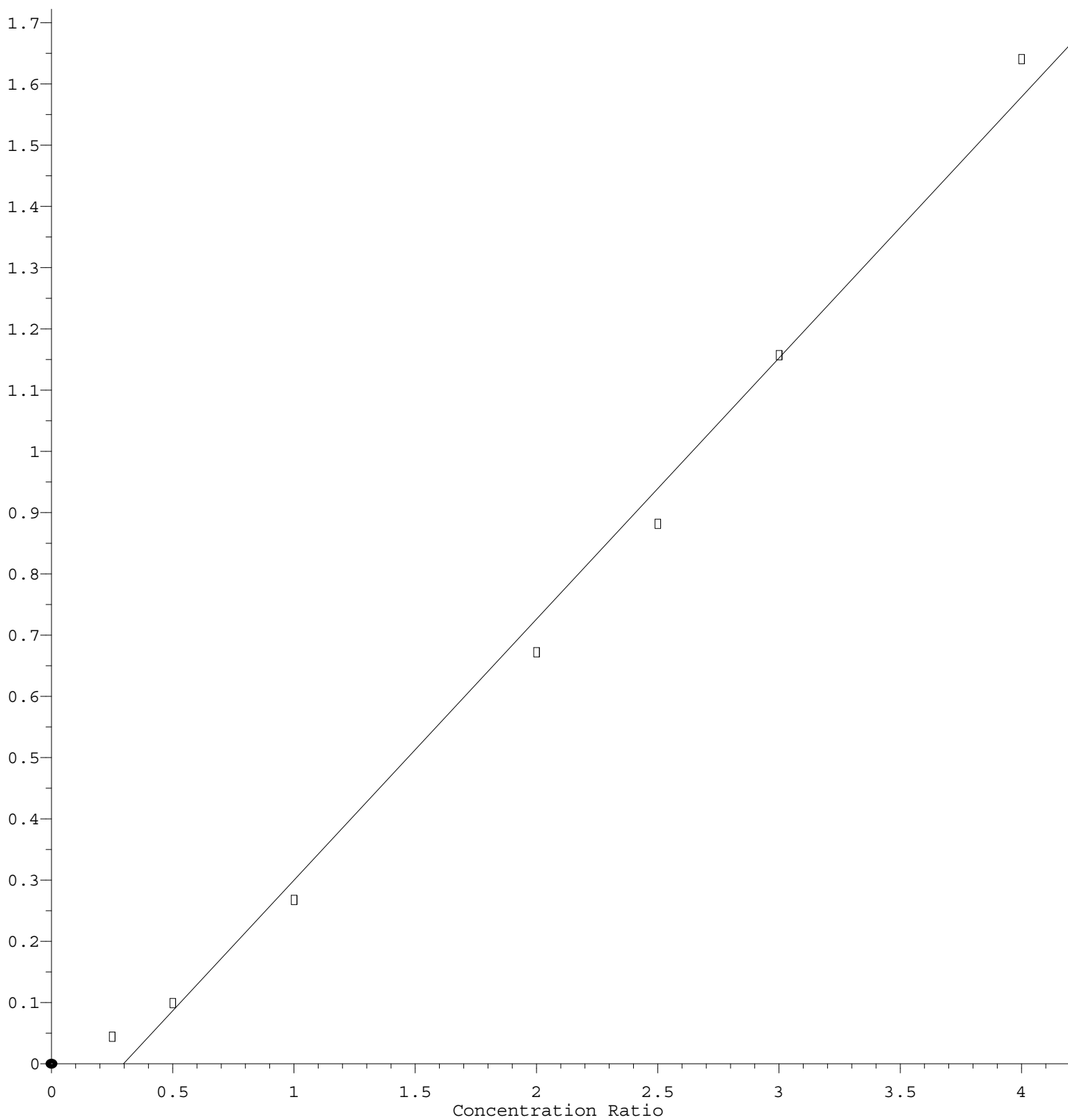
Coef of Det (r^2) = 0.997722 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020624.M

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2,4-Dinitrotoluene

Response Ratio



$$\text{Response} = 4.263\text{e-}001 * \text{Amt} - 1.268\text{e-}001$$

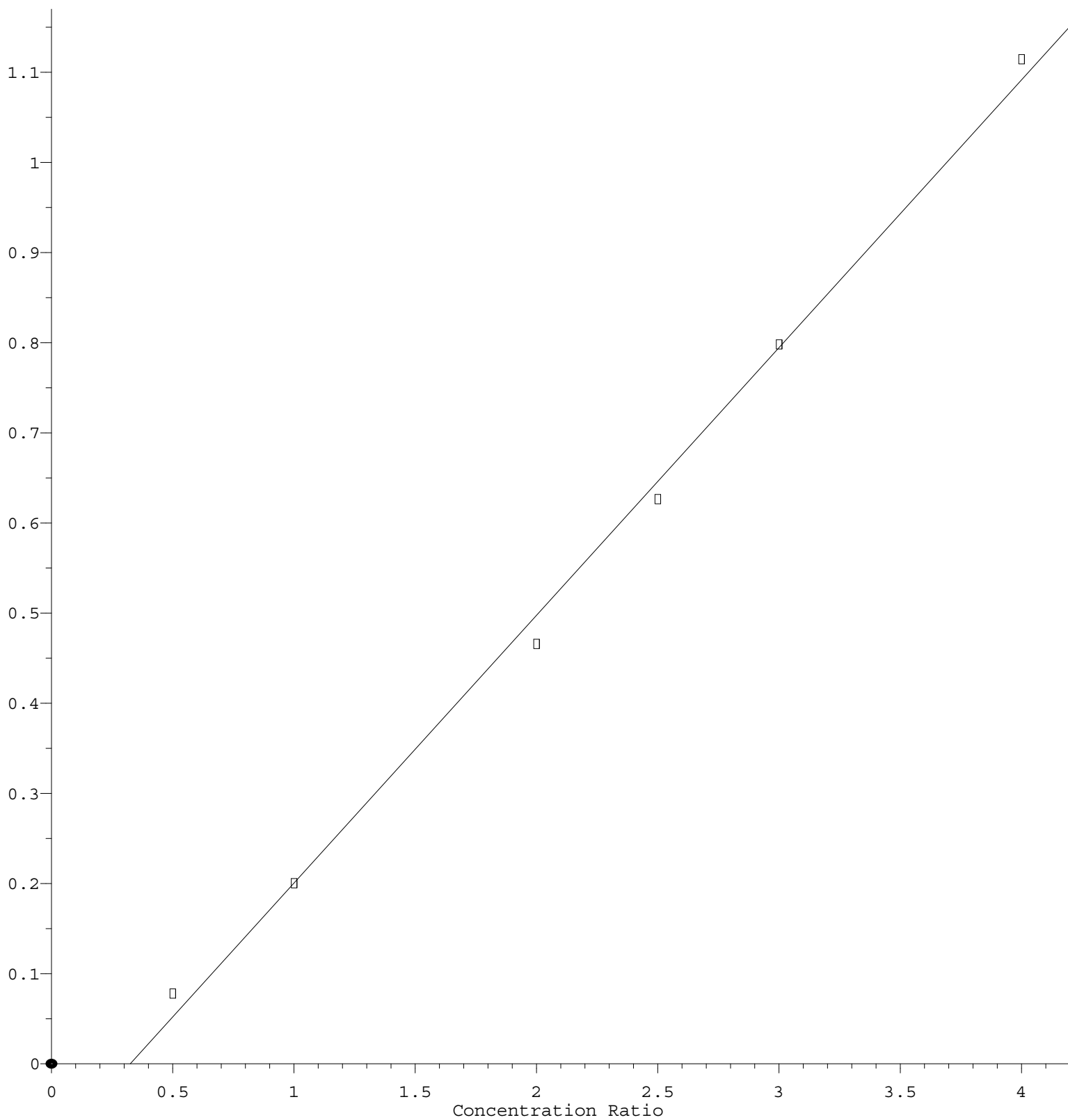
Coef of Det (r^2) = 0.992673 Curve Fit: Linear

Method Name: Z:\svoasrv\HPCHEM1\BNA G\Methods\8270-BG020624.M

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4-Nitrophenol

Response Ratio



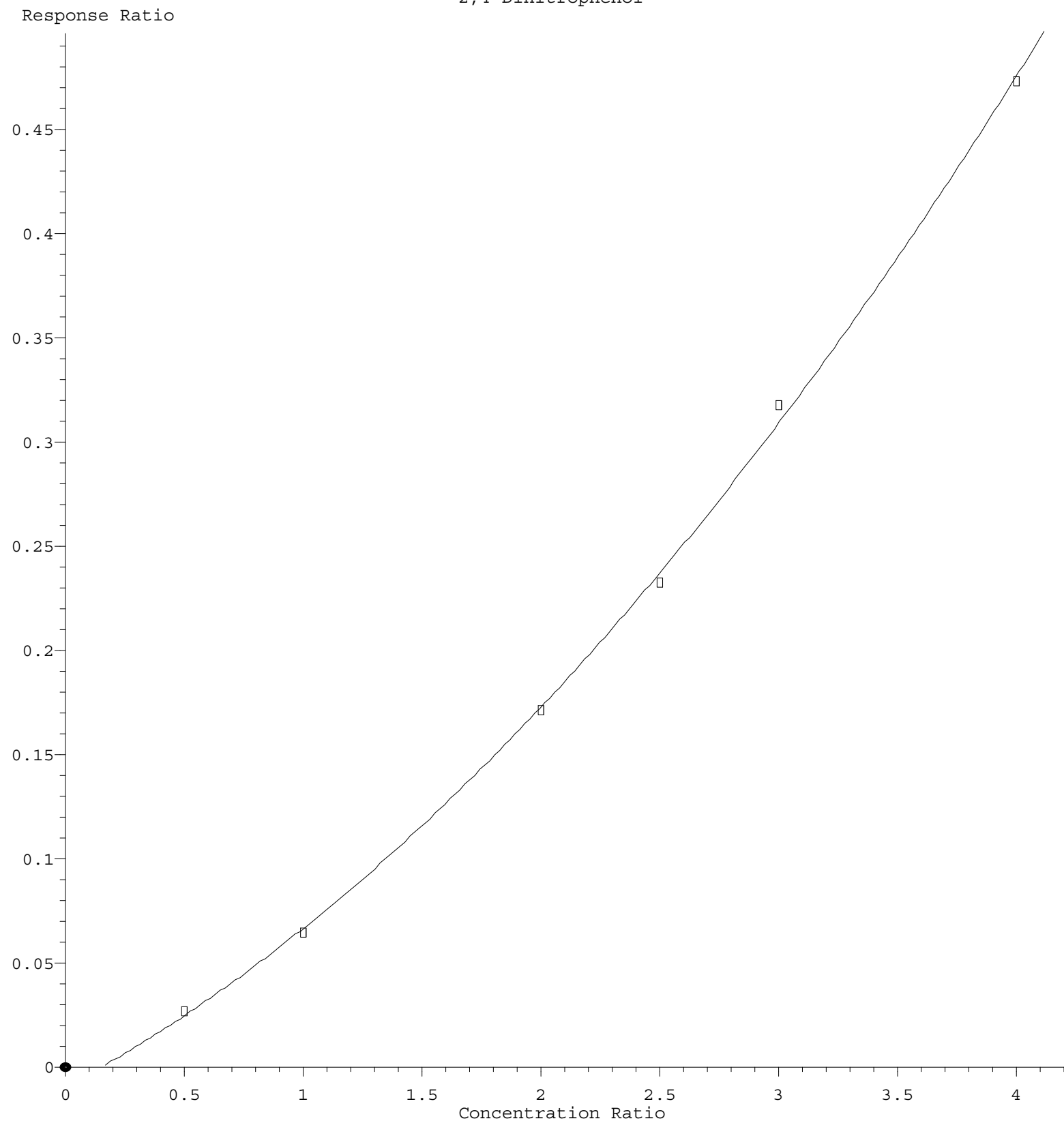
$$\text{Response} = 2.971\text{e-}001 * \text{Amt} - 9.657\text{e-}002$$

Coef of Det (r^2) = 0.996483 Curve Fit: Linear

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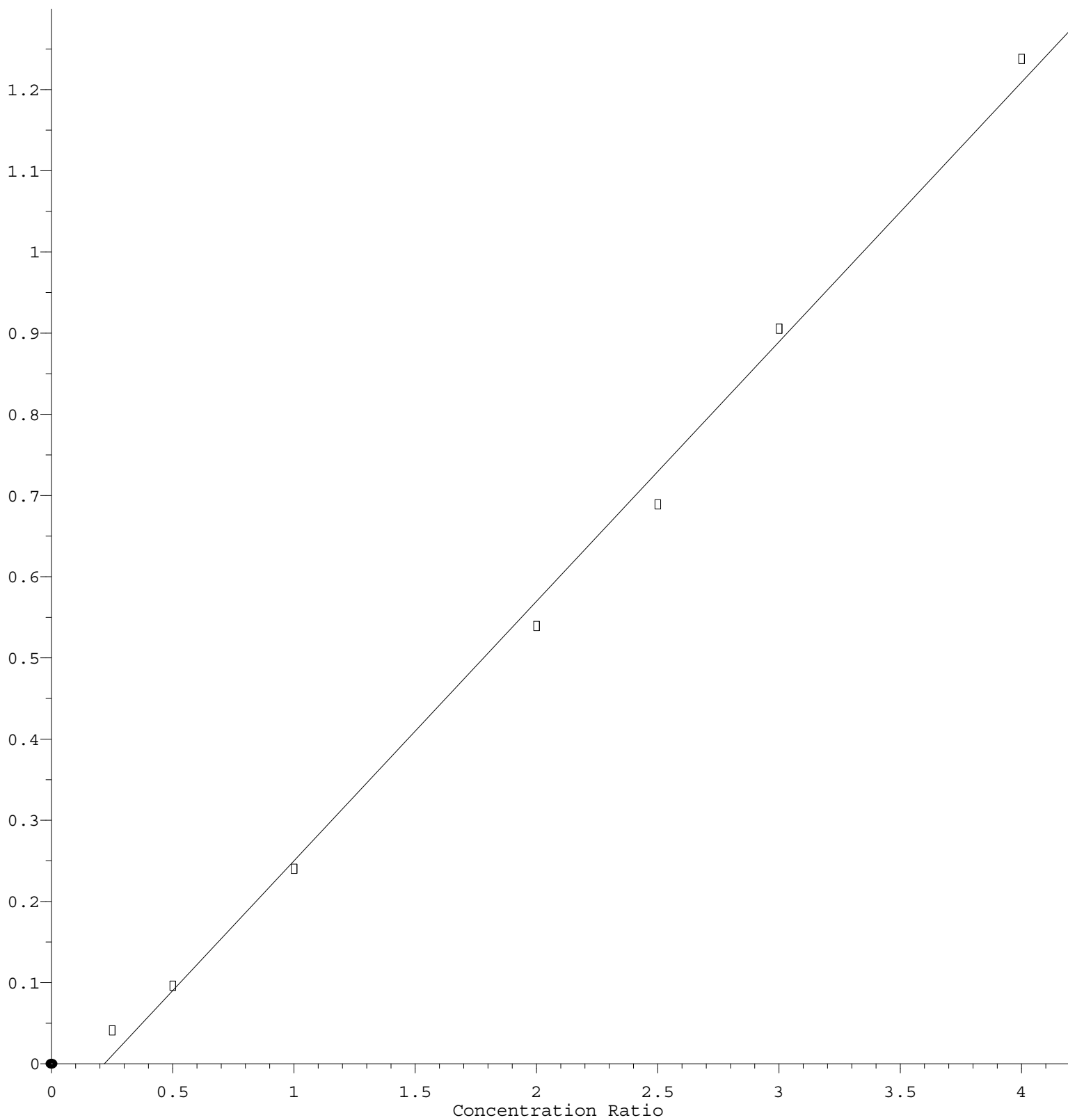
2,4-Dinitrophenol



$R = 1.506e-002 A^2 + 6.103e-002 A - 9.506e-003$
 Coef of Det (r^2) = 0.999188 Curve Fit: Quadratic
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3-Nitroaniline

Response Ratio



$$\text{Response} = 3.197\text{e-}001 * \text{Amt} - 6.961\text{e-}002$$

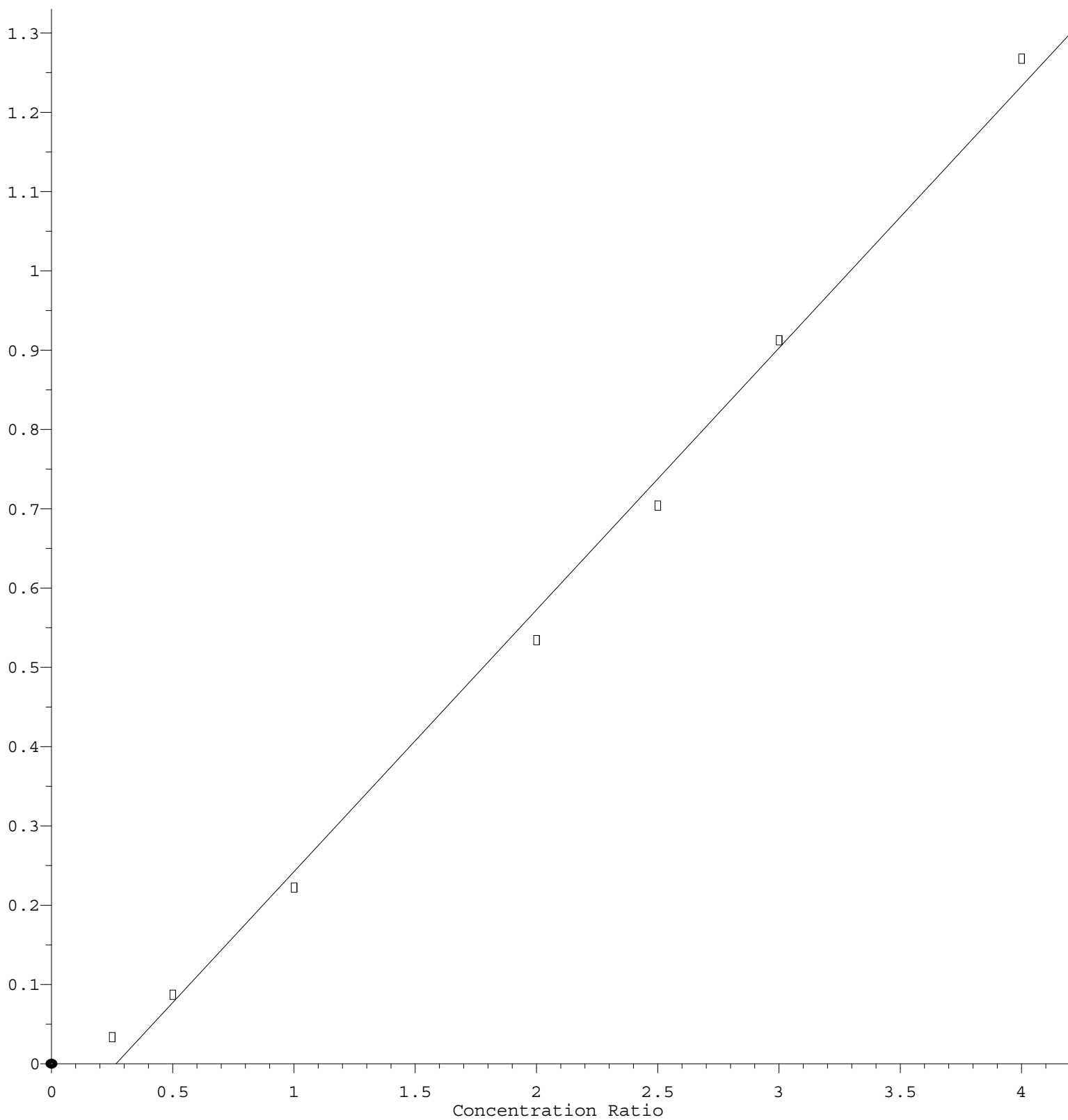
Coef of Det (r^2) = 0.995978 Curve Fit: Linear

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2,6-Dinitrotoluene

Response Ratio



$$\text{Response} = 3.302\text{e-}001 * \text{Amt} - 8.768\text{e-}002$$

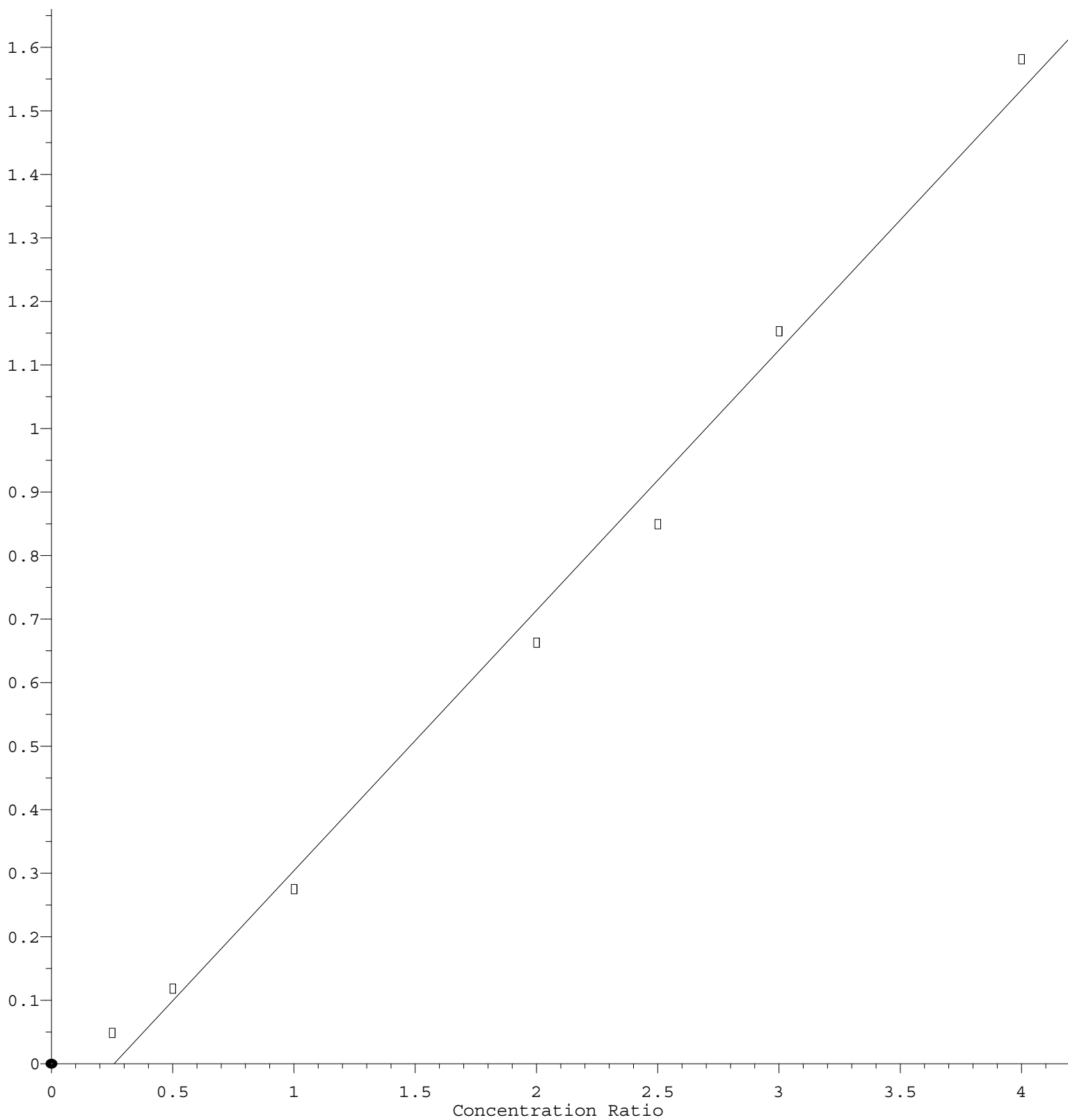
Coef of Det (r^2) = 0.995302 Curve Fit: Linear

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2-Nitroaniline

Response Ratio



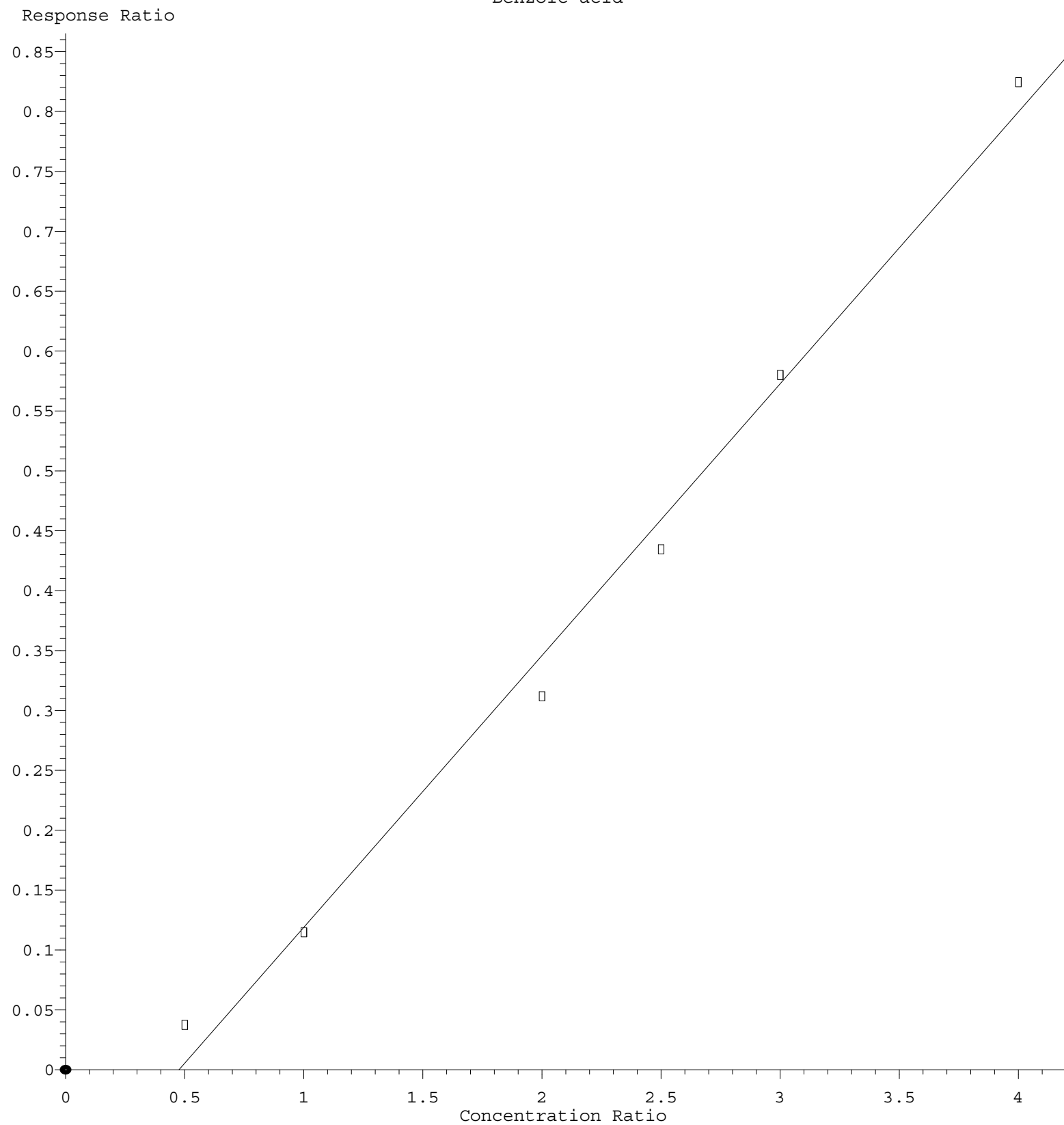
$$\text{Response} = 4.098\text{e-}001 * \text{Amt} - 1.059\text{e-}001$$

Coef of Det (r^2) = 0.992567 Curve Fit: Linear

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Benzoic acid



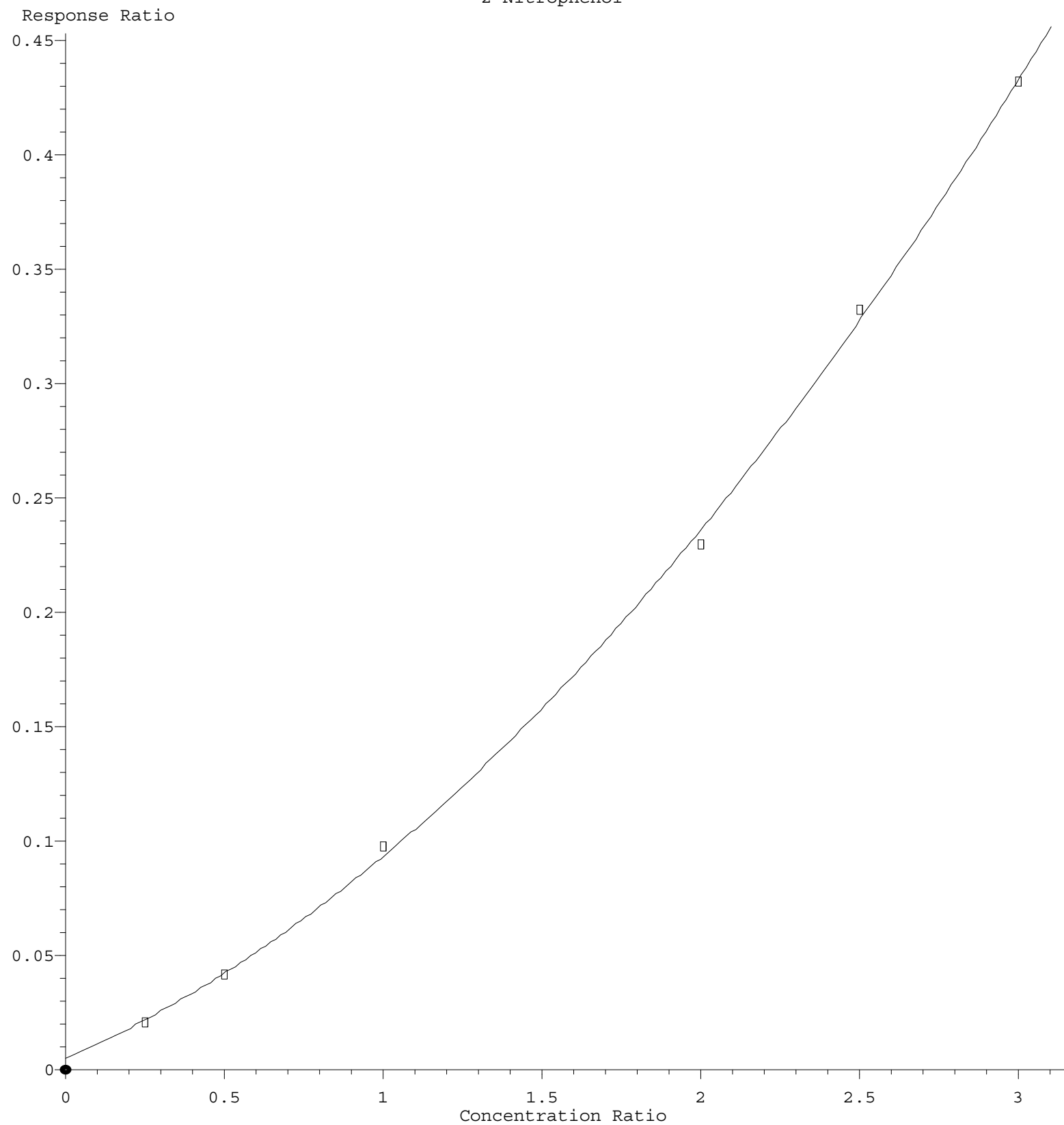
$$\text{Response} = 2.270\text{e-}001 * \text{Amt} - 1.080\text{e-}001$$

Coef of Det (r^2) = 0.991945 Curve Fit: Linear

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2-Nitrophenol



$R = 2.701e-002 A^2 + 6.167e-002 A + 4.673e-003$
 Coef of Det (r^2) = 0.999413 Curve Fit: Quadratic
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