

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
 Method File : 8270-BG081823.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Aug 21 01:40:57 2023
 Response Via : Initial Calibration

Calibration Files

2.5 =BG058770.D 5 =BG058771.D 10 =BG058772.D 20 =BG058773.D 40 =BG058774.D 50 =BG058775.D 60 =BG058776.D 80 =BG058777.D
 77.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.625	0.627	0.652	0.555	0.539	0.574	0.517	0.584		8.75
3)	Pyridine	1.413	1.597	1.637	1.584	1.487	1.605	1.486	1.544		5.33
4)	n-Nitrosodimet...	0.942	0.842	0.883	0.830	0.765	0.840	0.775	0.839		7.22
5) S	2-Fluorophenol	1.211	1.335	1.322	1.250	1.188	1.233	1.161	1.243		5.25
6)	Aniline	2.095	2.199	2.347	2.162	2.016	2.102	2.001	2.132		5.56
7) S	Phenol-d6	1.687	1.831	1.879	1.768	1.655	1.761	1.625	1.744		5.34
8)	2-Chlorophenol	1.259	1.323	1.356	1.282	1.181	1.241	1.154	1.257		5.76
9)	Benzaldehyde	1.133	1.100	1.054	0.943	0.868	0.932	0.816	0.978		12.28
10) C	Phenol	1.614	1.760	1.806	1.725	1.599	1.697	1.568	1.681		5.33
11)	bis(2-Chloroet...	1.428	1.361	1.393	1.314	1.202	1.289	1.197	1.312		6.83
12)	1,3-Dichlorobe...	1.420	1.389	1.450	1.312	1.251	1.309	1.212	1.335		6.64
13) C	1,4-Dichlorobe...	1.400	1.470	1.432	1.338	1.256	1.322	1.230	1.350		6.61
14)	1,2-Dichlorobe...	1.398	1.407	1.414	1.290	1.192	1.255	1.175	1.305		7.88
15)	Benzyl Alcohol	1.035	1.238	1.326	1.310	1.253	1.309	1.255	1.247		7.97
16)	2,2'-oxybis(1-...	2.842	2.963	3.021	2.790	2.634	2.740	2.583	2.796		5.76
17)	2-Methylphenol	1.195	1.282	1.326	1.273	1.177	1.219	1.173	1.235		4.78
18)	Hexachloroethane	0.485	0.523	0.522	0.486	0.472	0.493	0.463	0.492		4.64
19) P	n-Nitroso-di-n...	1.194	1.052	1.187	1.193	1.150	1.056	1.124	1.060	1.127	5.62
20)	3+4-Methylphenols	1.533	1.658	1.795	1.745	1.615	1.689	1.588	1.660		5.49
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.507	0.567	0.567	0.559	0.522	0.547	0.520	0.541		4.56
23) S	Nitrobenzene-d5	0.392	0.413	0.437	0.430	0.408	0.421	0.409	0.416		3.63
24)	Nitrobenzene	0.383	0.411	0.434	0.429	0.407	0.425	0.407	0.414		4.17
25)	Isophorone	0.787	0.830	0.871	0.854	0.804	0.832	0.813	0.827		3.51
26) C	2-Nitrophenol	0.127	0.164	0.181	0.187	0.182	0.186	0.184	0.173		12.58
27)	2,4-Dimethylph...	0.260	0.299	0.304	0.312	0.290	0.292	0.296	0.293		5.56
28)	bis(2-Chloroet...	0.416	0.442	0.455	0.454	0.427	0.446	0.426	0.438		3.47
29) C	2,4-Dichloroph...	0.249	0.291	0.321	0.323	0.304	0.313	0.308	0.301		8.53
30)	1,2,4-Trichlor...	0.355	0.372	0.382	0.369	0.356	0.361	0.353	0.364		2.94
31)	Naphthalene	1.072	1.069	1.101	1.071	1.002	1.033	1.002	1.050		3.64
32)	Benzoic acid		0.109	0.134	0.181	0.171	0.188	0.191	0.162		20.32
33)	4-Chloroaniline	0.379	0.426	0.465	0.468	0.446	0.462	0.454	0.443		7.15
34) C	Hexachlorobuta...	0.240	0.250	0.258	0.247	0.237	0.247	0.240	0.246		2.89
35)	Caprolactam	0.089	0.108	0.110	0.116	0.109	0.114	0.110	0.108		8.29
36) C	4-Chloro-3-met...	0.350	0.366	0.386	0.396	0.365	0.386	0.374	0.375		4.18
37)	2-Methylnaphth...	0.751	0.771	0.786	0.775	0.728	0.744	0.724	0.754		3.16
38)	1-Methylnaphth...	0.736	0.738	0.750	0.726	0.682	0.702	0.677	0.716		4.03

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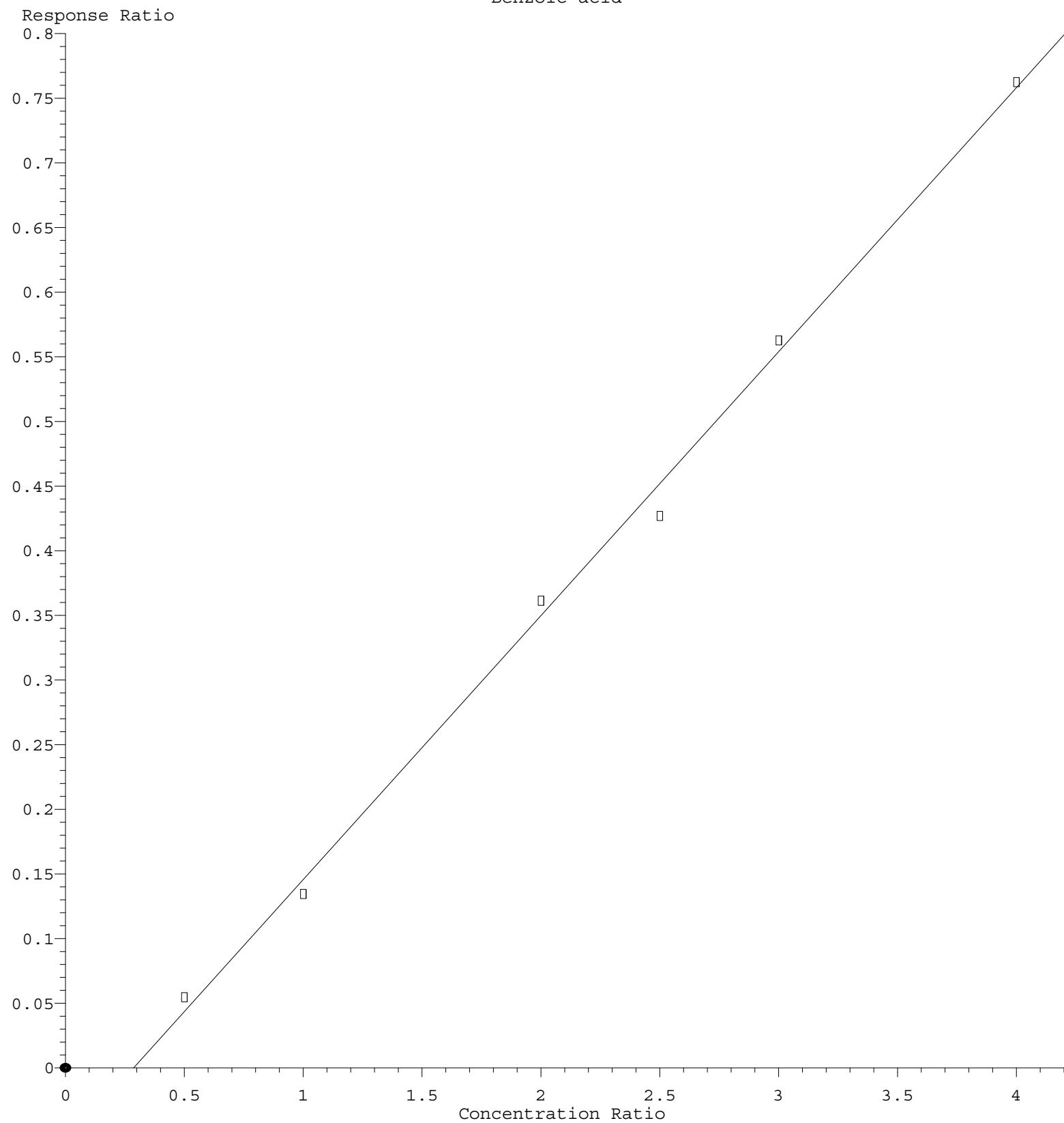
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.631	0.622	0.642	0.612	0.605	0.611	0.593	0.617	2.70	
41) P	Hexachlorocycl...		0.087	0.144	0.211	0.216	0.221	0.252	0.189	32.39	
42) S	2,4,6-Tribromo...	0.288	0.320	0.329	0.322	0.313	0.315	0.308	0.314	4.18	
43) C	2,4,6-Trichlor...	0.332	0.375	0.417	0.419	0.397	0.406	0.401	0.392	7.74	
44)	2,4,5-Trichlor...	0.438	0.459	0.473	0.492	0.476	0.481	0.469	0.470	3.66	
45) S	2-Fluorobiphenyl	1.506	1.456	1.471	1.347	1.301	1.320	1.226	1.375	7.54	
46)	1,1'-Biphenyl	1.436	1.415	1.447	1.382	1.319	1.355	1.290	1.378	4.33	
47)	2-Chloronaphth...	1.084	1.095	1.135	1.077	1.041	1.064	1.020	1.074	3.47	
48)	2-Nitroaniline	0.348	0.381	0.428	0.425	0.424	0.427	0.421	0.408	7.62	
49)	Acenaphthylene	1.859	1.804	1.882	1.784	1.730	1.733	1.672	1.781	4.19	
50)	Dimethylphthalate	1.633	1.594	1.626	1.541	1.486	1.504	1.456	1.549	4.54	
51)	2,6-Dinitrotol...	0.279	0.316	0.353	0.341	0.330	0.332	0.326	0.325	7.20	
52) C	Acenaphthene	1.116	1.072	1.074	1.039	1.003	1.006	0.974	1.041	4.78	
53)	3-Nitroaniline	0.254	0.298	0.320	0.334	0.330	0.333	0.327	0.314	9.28	
54) P	2,4-Dinitrophenol		0.077	0.132	0.163	0.164	0.178	0.184	0.150	26.58	
55)	Dibenzofuran	1.913	1.889	1.893	1.790	1.703	1.725	1.650	1.795	5.89	
56) P	4-Nitrophenol		0.118	0.188	0.221	0.214	0.227	0.225	0.199	21.23	
57)	2,4-Dinitrotol...	0.380	0.443	0.476	0.480	0.468	0.475	0.454	0.454	7.74	
58)	Fluorene	1.525	1.504	1.519	1.413	1.362	1.371	1.304	1.428	6.17	
59)	2,3,4,6-Tetrac...	0.359	0.351	0.407	0.393	0.390	0.394	0.389	0.383	5.32	
60)	Diethylphthalate	1.695	1.644	1.688	1.610	1.525	1.541	1.473	1.597	5.35	
61)	4-Chlorophenyl...	0.815	0.828	0.841	0.797	0.760	0.767	0.732	0.792	5.03	
62)	4-Nitroaniline	0.233	0.308	0.343	0.347	0.331	0.342	0.326	0.318	12.61	
63)	Azobenzene	1.493	1.510	1.566	1.482	1.409	1.425	1.378	1.466	4.46	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...		0.085	0.111	0.118	0.119	0.124	0.120	0.113	12.61	
66) c	n-Nitrosodiphe...	0.523	0.518	0.536	0.527	0.504	0.512	0.489	0.515	3.04	
67)	4-Bromophenyl-...	0.212	0.222	0.228	0.225	0.213	0.221	0.214	0.219	2.81	
68)	Hexachlorobenzene	0.240	0.240	0.248	0.237	0.227	0.237	0.226	0.236	3.22	
69)	Atrazine	0.205	0.203	0.192	0.168	0.143			0.182	14.41	
70) C	Pentachlorophenol		0.097	0.115	0.133	0.129	0.133	0.135	0.124	12.02	
71)	Phenanthrene	1.042	1.007	1.001	0.955	0.910	0.928	0.879	0.960	6.11	
72)	Anthracene	0.967	1.014	1.006	0.979	0.929	0.944	0.901	0.963	4.27	
73)	Carbazole	0.916	0.917	0.948	0.891	0.840	0.854	0.807	0.882	5.66	
74)	Di-n-butylphth...	1.169	1.141	1.201	1.125	1.061	1.082	1.009	1.112	5.95	
75) C	Fluoranthene	1.314	1.263	1.270	1.186	1.109	1.131	1.062	1.191	7.94	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.404	0.376	0.345	0.382	0.286			0.358	12.81	
78)	Pyrene	1.404	1.462	1.461	1.398	1.340	1.390	1.299	1.394	4.25	
79) S	Terphenyl-d14	1.181	1.233	1.194	1.099	1.037	1.066	0.986	1.114	8.19	
80)	Butylbenzylphth...	0.531	0.540	0.590	0.589	0.563	0.582	0.562	0.565	4.12	
81)	Benzo(a)anthra...	1.403	1.436	1.450	1.417	1.338	1.386	1.316	1.392	3.55	
82)	3,3'-Dichlorob...	0.459	0.485	0.507	0.505	0.469	0.480	0.459	0.481	4.16	
83)	Chrysene	1.434	1.358	1.387	1.356	1.266	1.335	1.257	1.342	4.71	
84)	Bis(2-ethylhex...	0.798	0.830	0.847	0.862	0.819	0.845	0.802	0.829	2.90	
85) c	Di-n-octyl pht...	1.310	1.395	1.483	1.487	1.425	1.476	1.405	1.426	4.47	

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86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.362	1.359	1.391	1.360	1.307	1.375	1.319	1.353	2.20
88)	Benzo(b)fluora...	1.102	1.106	1.151	1.137	1.062	1.134	1.075	1.110	2.99
89)	Benzo(k)fluora...	1.208	1.202	1.201	1.136	1.080	1.123	1.060	1.144	5.32
90) C	Benzo(a)pyrene	1.084	1.102	1.131	1.116	1.058	1.104	1.053	1.093	2.67
91)	Dibenzo(a,h)an...	1.097	1.115	1.157	1.128	1.078	1.133	1.076	1.112	2.69
92)	Benzo(g,h,i)pe...	1.106	1.098	1.148	1.127	1.085	1.129	1.089	1.112	2.12

(#) = Out of Range

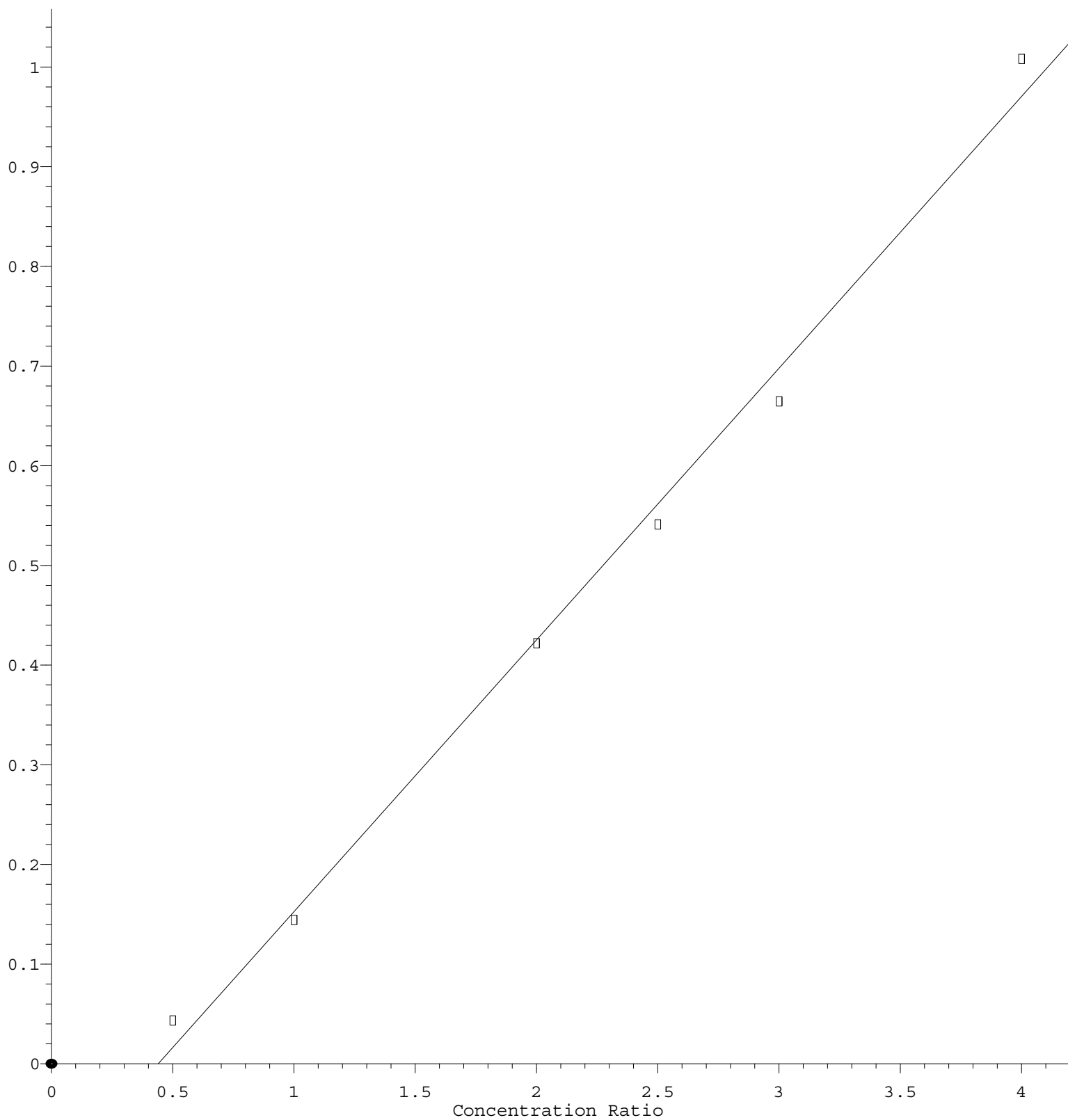
Benzoic acid



Response = $2.041e-001 * Amt - 5.849e-002$
 Coef of Det (r^2) = 0.996851 Curve Fit: Linear
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Hexachlorocyclopentadiene

Response Ratio



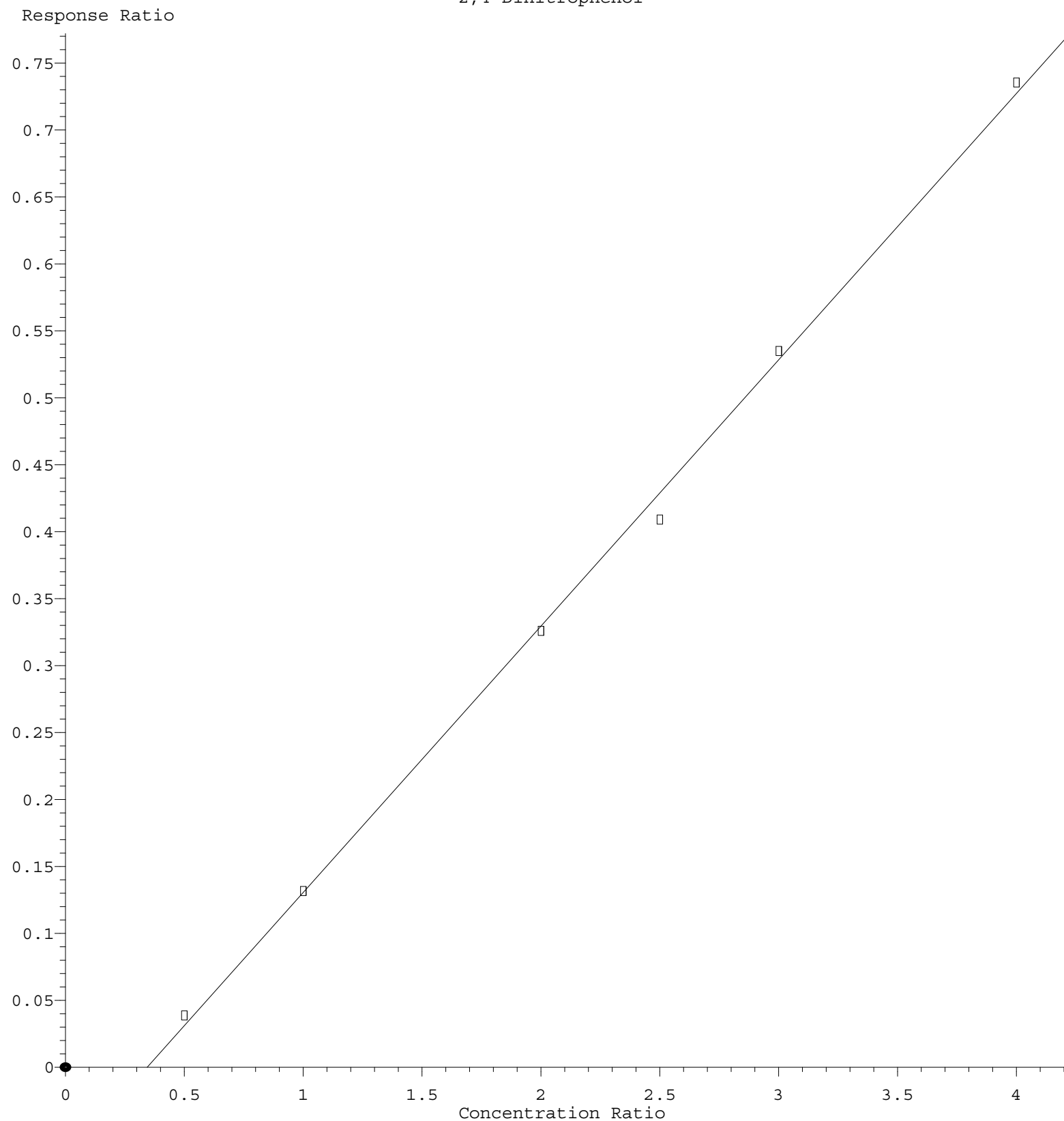
$$\text{Response} = 2.725\text{e-}001 * \text{Amt} - 1.199\text{e-}001$$

Coef of Det (r^2) = 0.993953 Curve Fit: Linear

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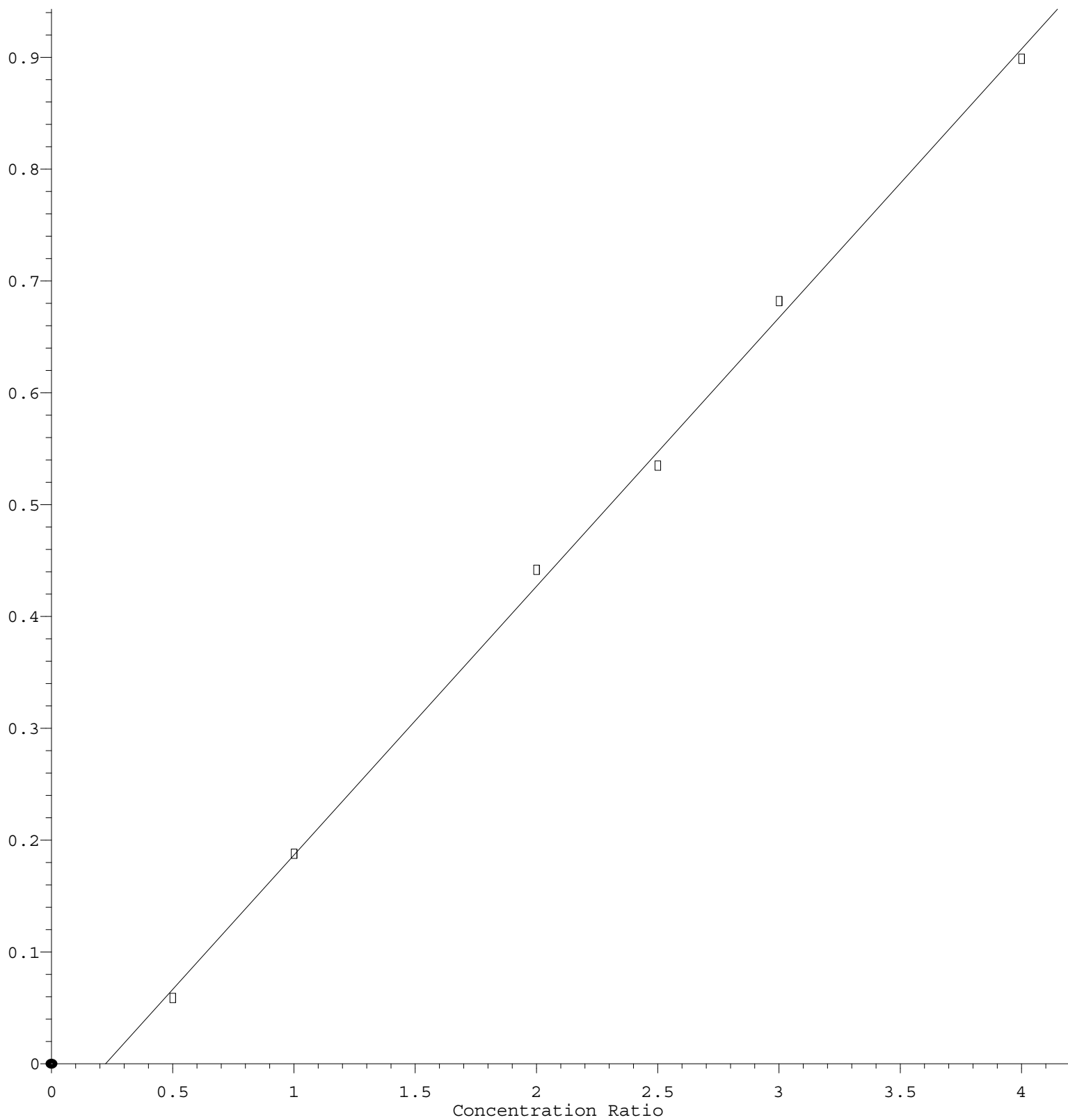
2,4-Dinitrophenol



Response = 1.990e-001 * Amt - 6.849e-002
 Coef of Det (r^2) = 0.998254 Curve Fit: Linear
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4-Nitrophenol

Response Ratio



$$\text{Response} = 2.404\text{e-}001 * \text{Amt} - 5.358\text{e-}002$$

Coef of Det (r^2) = 0.998504 Curve Fit: Linear

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