

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF092325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 24 05:00:00 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF143791.D 5 =BF143792.D 10 =BF143793.D 20 =BF143794.D 40 =BF143795.D 50 =BF143796.D 60 =BF143797.D 80 =BF143798.D

	Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.594	0.575	0.598	0.640	0.558	0.582	0.577	0.589		4.40
3)	Pyridine	1.585	1.522	1.624	1.724	1.535	1.603	1.541	1.590		4.40
4)	n-Nitrosodimet...		0.744	0.812	0.851	0.775	0.818	0.785	0.797		4.71
5) S	2-Fluorophenol		1.258	1.326	1.329	1.156	1.193	1.124	1.231		7.08
6)	Aniline	2.283	2.120	2.158	2.145	1.940	1.978	1.826	2.064		7.55
7) S	Phenol-d6		1.507	1.530	1.523	1.336	1.371	1.267	1.422		7.90
8)	2-Chlorophenol	1.304	1.254	1.329	1.335	1.209	1.244	1.146	1.260		5.45
9)	Benzaldehyde		1.066	0.952	1.467	1.327	1.538	1.123	1.246		18.81
10) C	Phenol	1.762	1.708	1.737	1.748	1.534	1.622	1.463	1.653		7.07
11)	bis(2-Chloroet...	1.387	1.321	1.347	1.367	1.223	1.270	1.156	1.296		6.47
12)	1,3-Dichlorobe...	1.622	1.493	1.556	1.544	1.345	1.385	1.297	1.463		8.34
13) C	1,4-Dichlorobe...	1.634	1.496	1.549	1.537	1.339	1.380	1.287	1.460		8.68
14)	1,2-Dichlorobe...	1.558	1.407	1.465	1.449	1.277	1.309	1.215	1.383		8.73
15)	Benzyl Alcohol		1.022	1.074	1.088	1.004	1.042	0.936	1.028		5.32
16)	2,2'-oxybis(1-...	3.320	3.136	3.224	3.231	2.896	2.966	2.738	3.073		6.87
17)	2-Methylphenol	1.033	0.990	1.009	1.021	0.938	0.959	0.880	0.976		5.52
18)	Hexachloroethane	0.555	0.512	0.543	0.543	0.482	0.493	0.468	0.514		6.60
19) P	n-Nitroso-di-n...	1.078	0.991	0.932	0.926	0.914	0.842	0.869	0.764	0.915	10.34
20)	3+4-Methylphenols		1.292	1.256	1.274	1.137	1.147	1.023	1.188		8.78
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.500	0.466	0.468	0.463	0.401	0.404	0.373	0.439		10.54
23) S	Nitrobenzene-d5		0.309	0.339	0.353	0.322	0.330	0.308	0.327		5.40
24)	Nitrobenzene	0.362	0.354	0.369	0.389	0.357	0.361	0.342	0.362		3.96
25)	Isophorone	0.667	0.636	0.649	0.673	0.624	0.634	0.575	0.637		5.11
26) C	2-Nitrophenol	0.089	0.104	0.125	0.148	0.150	0.156	0.150	0.132		20.10
27)	2,4-Dimethylph...	0.292	0.280	0.291	0.303	0.280	0.286	0.261	0.285		4.65
28)	bis(2-Chloroet...	0.455	0.430	0.430	0.437	0.393	0.392	0.360	0.414		8.03
29) C	2,4-Dichloroph...	0.277	0.286	0.288	0.298	0.273	0.278	0.260	0.280		4.37
30)	1,2,4-Trichlor...	0.314	0.288	0.304	0.309	0.275	0.279	0.264	0.291		6.52
31)	Naphthalene	1.058	1.021	1.020	1.003	0.887	0.888	0.826	0.957		9.26
32)	Benzoic acid		0.124	0.091	0.140	0.148	0.159	0.161	0.137		19.26
33)	4-Chloroaniline	0.360	0.347	0.353	0.355	0.323	0.323	0.295	0.336		7.04
34) C	Hexachlorobuta...	0.227	0.219	0.223	0.233	0.206	0.210	0.199	0.217		5.64
35)	Caprolactam		0.066	0.069	0.075	0.074	0.076	0.070	0.072		5.47
36) C	4-Chloro-3-met...	0.271	0.260	0.271	0.276	0.261	0.262	0.238	0.263		4.81
37)	2-Methylnaphth...	0.685	0.650	0.643	0.635	0.568	0.572	0.521	0.611		9.49
38)	1-Methylnaphth...	0.656	0.618	0.610	0.612	0.550	0.550	0.496	0.584		9.36

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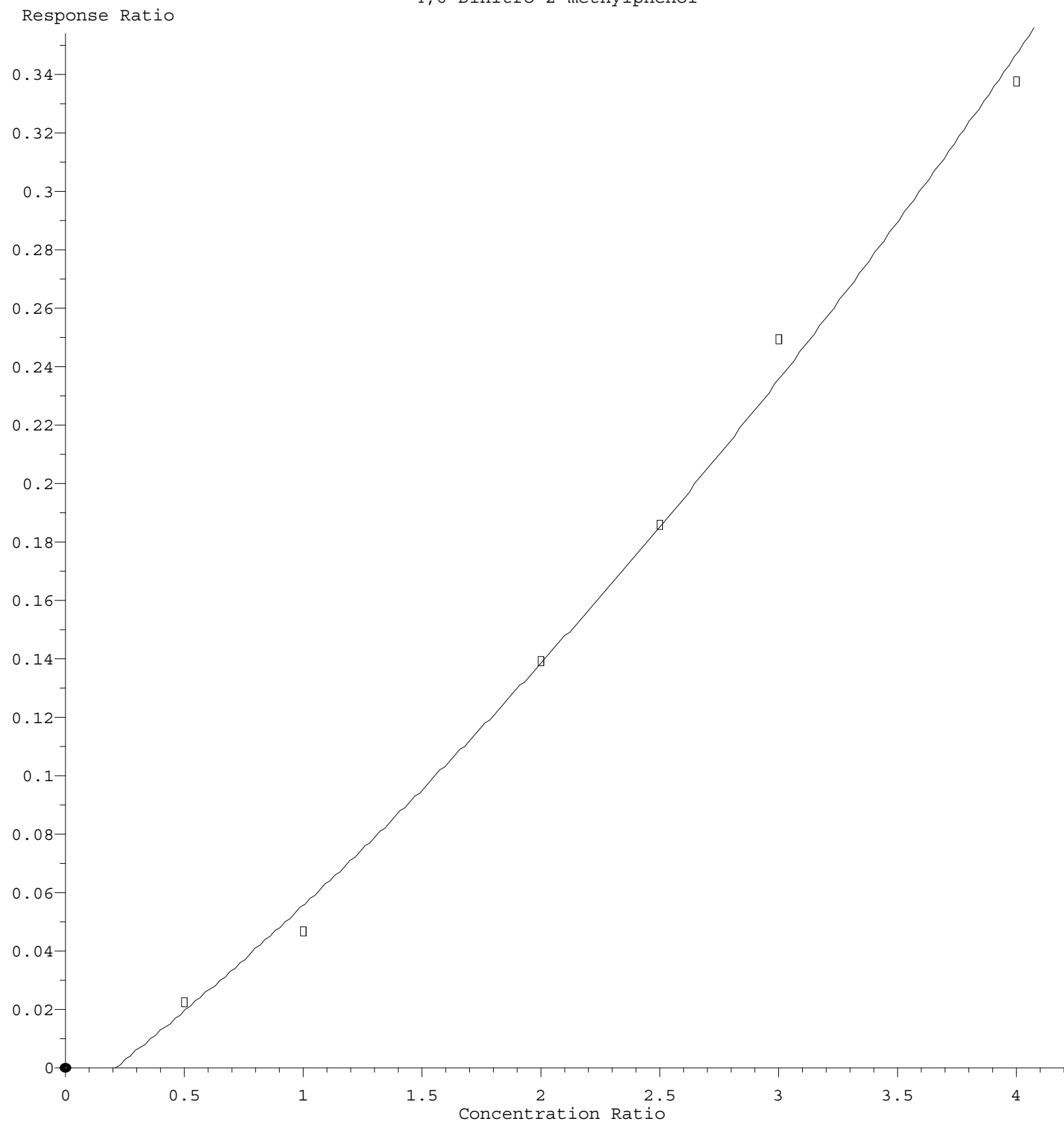
39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...		0.657	0.634	0.636	0.628	0.559	0.562	0.549	0.604	7.43
41) P	Hexachlorocycl...			0.336	0.371	0.418	0.382	0.401	0.387	0.383	7.32
42) S	2,4,6-Tribromo...			0.303	0.324	0.328	0.281	0.275	0.266	0.296	8.83
43) C	2,4,6-Trichlor...		0.344	0.358	0.386	0.422	0.379	0.392	0.365	0.378	6.71
44)	2,4,5-Trichlor...		0.371	0.391	0.419	0.423	0.380	0.402	0.381	0.395	5.09
45) S	2-Fluorobiphenyl			1.476	1.460	1.351	1.154	1.153	1.096	1.282	13.12
46)	1,1'-Biphenyl		1.608	1.541	1.564	1.495	1.331	1.326	1.269	1.448	9.37
47)	2-Chloronaphth...		1.283	1.223	1.243	1.215	1.077	1.080	1.036	1.165	8.38
48)	2-Nitroaniline		0.241	0.305	0.355	0.400	0.380	0.400	0.386	0.352	16.77
49)	Acenaphthylene		1.729	1.659	1.700	1.691	1.499	1.513	1.440	1.604	7.27
50)	Dimethylphthalate		1.275	1.233	1.252	1.286	1.173	1.191	1.122	1.219	4.87
51)	2,6-Dinitrotol...		0.138	0.161	0.198	0.228	0.224	0.231	0.221	0.200	18.41
52) C	Acenaphthene		1.134	1.121	1.123	1.109	0.974	0.976	0.953	1.056	7.87
53)	3-Nitroaniline		0.171	0.210	0.245	0.283	0.259	0.267	0.264	0.243	16.09
54) P	2,4-Dinitrophenol			0.052	0.040	0.063	0.066	0.076	0.084	0.064	25.20
55)	Dibenzofuran		1.649	1.551	1.590	1.561	1.377	1.392	1.329	1.493	8.32
56) P	4-Nitrophenol			0.197	0.169	0.208	0.193	0.197	0.210	0.196	7.39
57)	2,4-Dinitrotol...		0.151	0.210	0.254	0.307	0.295	0.308	0.300	0.261	23.18
58)	Fluorene		1.275	1.210	1.190	1.147	1.005	0.986	0.956	1.110	11.33
59)	2,3,4,6-Tetrac...		0.272	0.309	0.349	0.373	0.355	0.361	0.352	0.339	10.45
60)	Diethylphthalate		1.158	1.170	1.174	1.211	1.100	1.109	1.066	1.141	4.44
61)	4-Chlorophenyl...		0.621	0.592	0.601	0.590	0.528	0.524	0.504	0.566	8.09
62)	4-Nitroaniline		0.162	0.204	0.228	0.264	0.242	0.243	0.255	0.228	15.32
63)	Azobenzene		1.260	1.221	1.246	1.279	1.148	1.163	1.101	1.203	5.49
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...			0.045	0.047	0.070	0.074	0.083	0.084	0.067	25.99
66) c	n-Nitrosodiphe...		0.707	0.675	0.688	0.682	0.621	0.637	0.594	0.658	6.27
67)	4-Bromophenyl-...		0.344	0.333	0.349	0.361	0.334	0.342	0.324	0.341	3.52
68)	Hexachlorobenzene		0.492	0.470	0.488	0.492	0.447	0.461	0.437	0.470	4.80
69)	Atrazine		0.178	0.191	0.198	0.211	0.186	0.187	0.183	0.190	5.63
70) C	Pentachlorophenol			0.180	0.216	0.256	0.239	0.254	0.259	0.234	13.17
71)	Phenanthrene		1.145	1.066	1.071	1.082	0.948	0.954	0.921	1.027	8.27
72)	Anthracene		1.096	1.069	1.088	1.083	0.965	0.963	0.945	1.030	6.65
73)	Carbazole		0.916	0.931	0.949	0.976	0.839	0.846	0.847	0.901	6.23
74)	Di-n-butylphth...		0.940	1.008	1.075	1.157	1.019	1.019	1.031	1.036	6.45
75) C	Fluoranthene		1.019	1.046	1.099	1.144	0.953	0.956	1.012	1.033	6.83
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine			0.438	0.444	0.511	0.571	0.553	0.407	0.487	13.78
78)	Pyrene		1.038	0.982	0.991	1.005	0.990	1.011	0.867	0.983	5.54
79) S	Terphenyl-d14			1.044	1.013	1.022	0.981	0.989	0.852	0.983	6.95
80)	Butylbenzylphth...		0.251	0.298	0.335	0.391	0.367	0.381	0.358	0.340	14.74
81)	Benzo(a)anthra...		1.109	1.081	1.083	1.148	1.040	1.065	0.995	1.074	4.55
82)	3,3'-Dichlorob...			0.426	0.465	0.497	0.459	0.480	0.466	0.465	5.06
83)	Chrysene		1.041	0.985	0.996	1.018	0.909	0.941	0.916	0.972	5.25
84)	Bis(2-ethylhex...		0.428	0.477	0.514	0.558	0.505	0.516	0.492	0.499	8.01
85) c	Di-n-octyl pht...			0.767	0.877	1.013	0.902	0.937	0.930	0.905	9.00

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		-----ISTD-----										
86) I	Perylene-d12											
87)	Indeno(1,2,3-c...	1.483	1.426	1.580	1.608	1.509	1.548	1.468	1.517		4.26	
88)	Benzo(b)fluora...	0.987	1.004	1.029	1.104	1.002	1.002	1.000	1.018		3.91	
89)	Benzo(k)fluora...	1.061	1.004	1.079	1.089	0.996	1.029	0.905	1.023		6.18	
90) C	Benzo(a)pyrene	0.928	0.920	0.989	1.027	0.949	0.971	0.918	0.957		4.25	
91)	Dibenzo(a,h)an...	1.207	1.187	1.302	1.332	1.237	1.257	1.166	1.241		4.87	
92)	Benzo(g,h,i)pe...	1.134	1.116	1.234	1.279	1.200	1.244	1.168	1.196		5.01	

(#) = Out of Range

4,6-Dinitro-2-methylphenol



$$R = 7.095e-003 A^2 + 6.161e-002 A - 1.313e-002$$

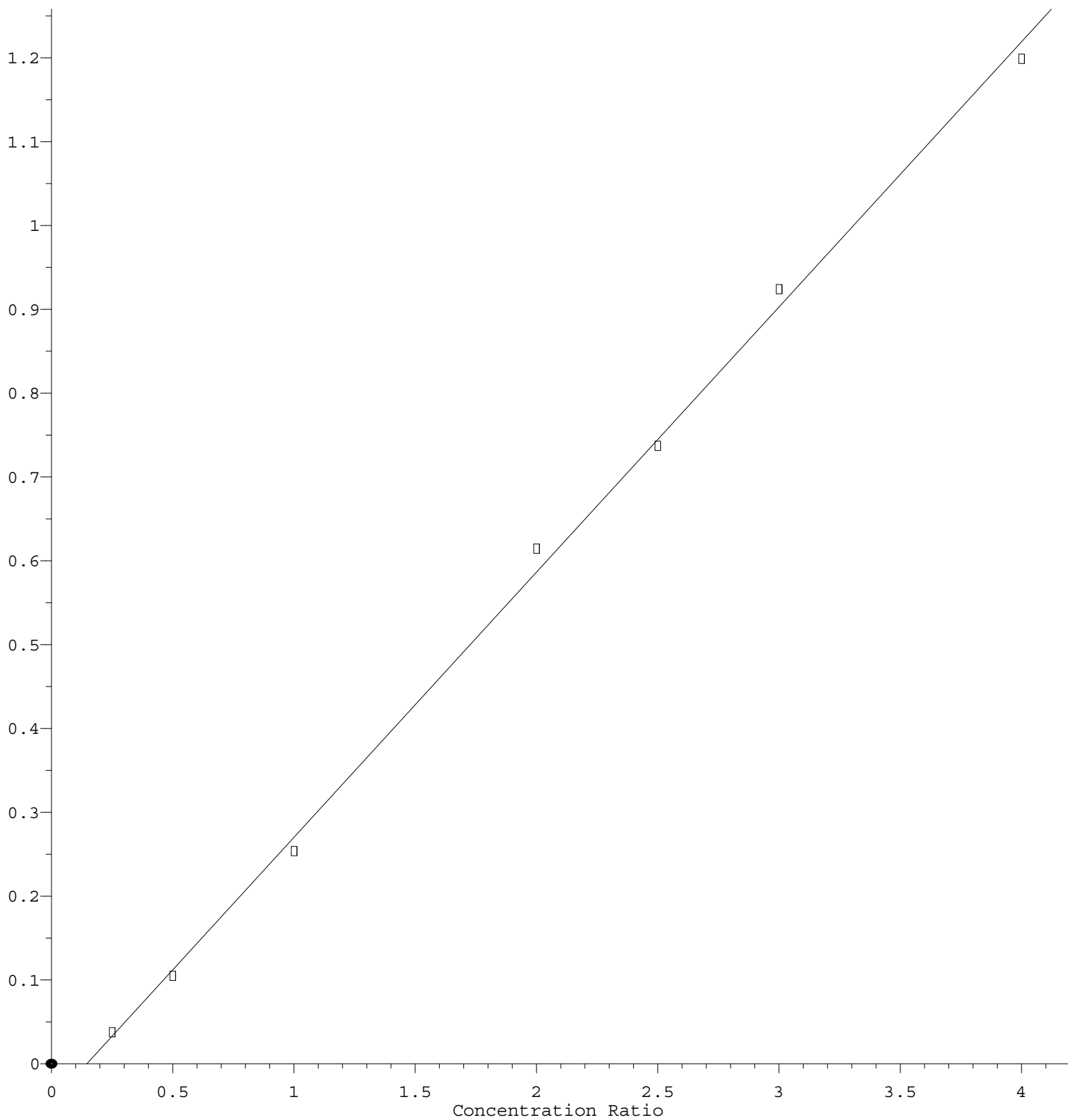
Coef of Det (r^2) = 0.995418 Curve Fit: Quadratic w(1/a)

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2,4-Dinitrotoluene

Response Ratio



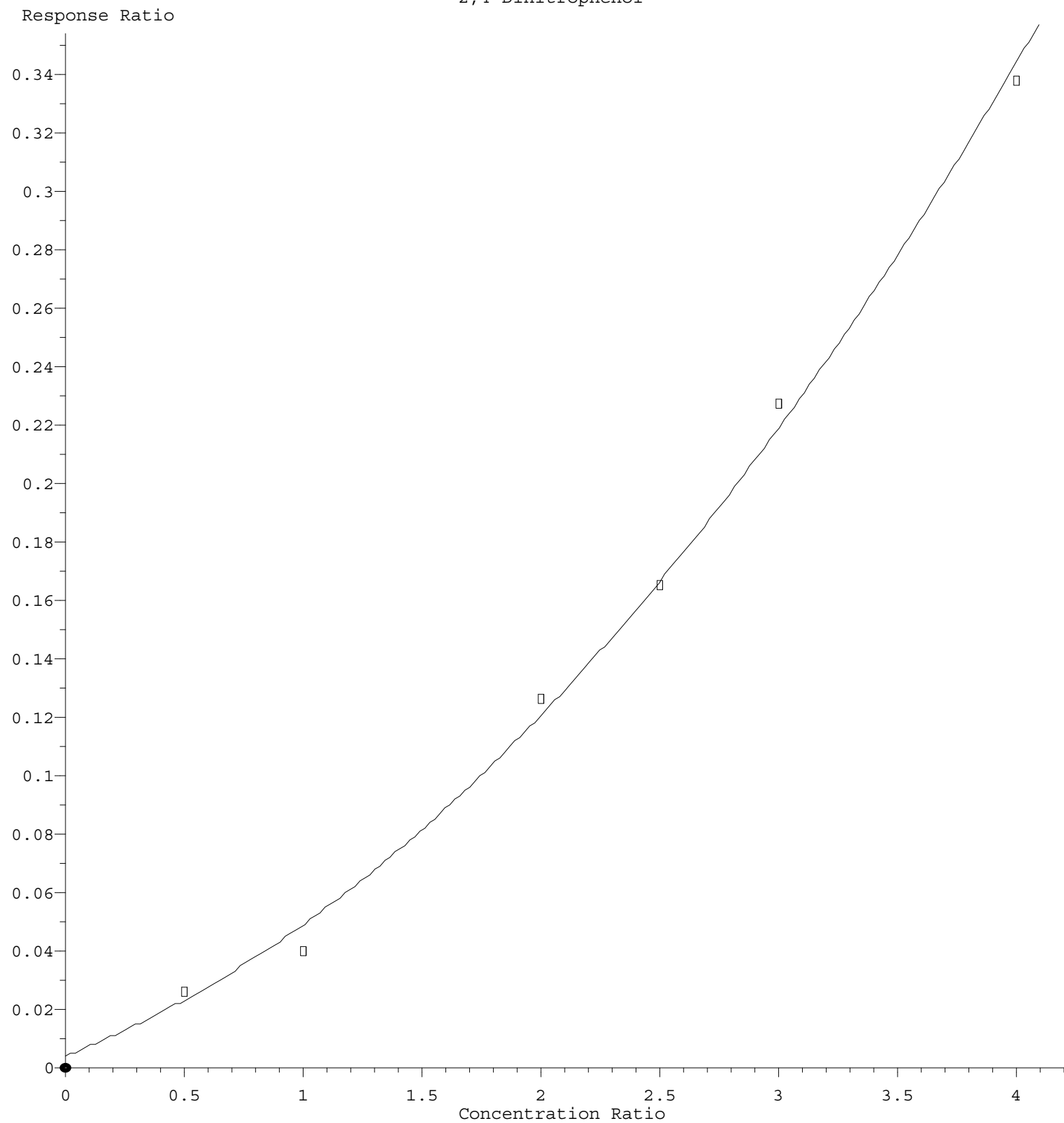
$$\text{Response} = 3.165\text{e-}001 * \text{Amt} - 4.621\text{e-}002$$

Coef of Det (r^2) = 0.998498 Curve Fit: wlr(1/a)

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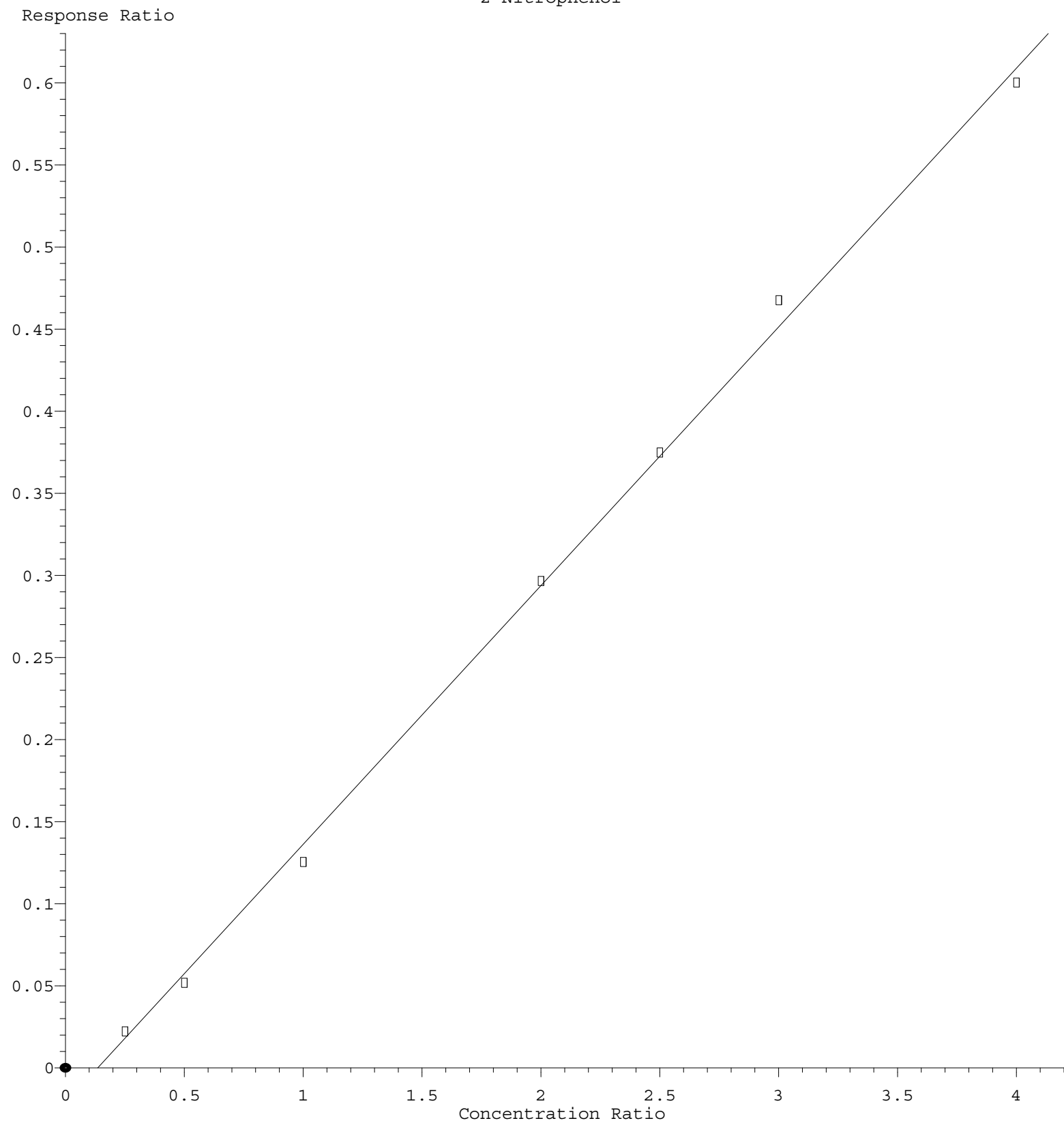
Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

2,4-Dinitrophenol



$R = 1.334e-002 A^2 + 3.164e-002 A + 4.049e-003$
 Coef of Det (r^2) = 0.995804 Curve Fit: Quadratic w(1/a)
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2-Nitrophenol



Response = 1.576e-001 * Amt - 2.138e-002
 Coef of Det (r^2) = 0.998054 Curve Fit: wlr(1/a)
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