

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
 Method File : 82D051523S.M
 Title : SW846 8260
 Last Update : Tue May 16 10:08:53 2023
 Response Via : Initial Calibration

Calibration Files

5 =VD076110.D 10 =VD076111.D 20 =VD076112.D 50 =VD076113.D 100 =VD076114.D 150 =VD076115.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.487	0.515	0.482	0.394	0.415	0.413	0.451	11.04
3) P	Chloromethane	1.145	0.965	0.878	0.746	0.720	0.690	0.857	20.47
4) C	Vinyl Chloride	1.131	1.074	0.998	0.877	0.885	0.871	0.973	11.55#
5) T	Bromomethane	0.813	0.697	0.648	0.610	0.608	0.551	0.655	13.98
6) T	Chloroethane	0.764	0.717	0.679	0.602	0.595	0.568	0.654	11.92
7) T	Trichlorofluor...	0.976	0.917	0.853	0.714	0.749	0.738	0.824	13.05
8) T	Diethyl Ether	0.293	0.264	0.271	0.270	0.265	0.264	0.271	4.07
9) T	1,1,2-Trichlor...	0.607	0.611	0.583	0.469	0.494	0.494	0.543	11.81
10) T	Methyl Iodide	0.482	0.525	0.564	0.600	0.614	0.602	0.565	9.17
11) T	Tert butyl alc...	0.026	0.028	0.026	0.025	0.024	0.026	0.026	5.20
12) CM	1,1-Dichloroet...	0.603	0.569	0.549	0.496	0.518	0.507	0.540	7.58#
13) T	Acrolein	0.060	0.065	0.064	0.064	0.061	0.062	0.063	2.75
14) T	Allyl chloride	0.558	0.554	0.544	0.542	0.548	0.545	0.548	1.19
15) T	Acrylonitrile	0.111	0.113	0.114	0.113	0.111	0.111	0.112	1.27
16) T	Acetone	0.113	0.103	0.089	0.099	0.088	0.084	0.096	11.43
17) T	Carbon Disulfide	2.086	1.677	1.672	1.445	1.442	1.400	1.620	15.94
18) T	Methyl Acetate	0.357	0.357	0.343	0.343	0.330	0.328	0.343	3.65
19) T	Methyl tert-bu...	0.980	1.040	1.053	1.092	1.094	1.086	1.058	4.15
20) T	Methylene Chlo...	1.752	1.385	1.007	0.770	0.652	0.607	1.029	44.27
21) T	trans-1,2-Dich...	0.680	0.646	0.637	0.609	0.594	0.571	0.623	6.28
22) T	Diisopropyl ether	1.095	1.242	1.342	1.344	1.322	1.293	1.273	7.48
23) T	Vinyl Acetate	0.432	0.446	0.489	0.529	0.542	0.565	0.501	10.74
24) P	1,1-Dichloroet...	1.112	1.058	1.033	0.963	0.932	0.925	1.004	7.52
25) T	2-Butanone	0.116	0.119	0.125	0.124	0.121	0.121	0.121	2.78
26) T	2,2-Dichloropr...	0.921	0.837	0.835	0.768	0.782	0.770	0.819	7.19
27) T	cis-1,2-Dichlo...	0.694	0.700	0.703	0.701	0.685	0.662	0.691	2.26
28) T	Bromochloromet...	0.370	0.359	0.353	0.322	0.306	0.297	0.335	9.04
29) T	Tetrahydrofuran	0.064	0.066	0.071	0.074	0.073	0.075	0.070	6.47
30) C	Chloroform	1.217	1.166	1.100	1.025	0.984	0.949	1.074	9.83#
31) T	Cyclohexane	0.819	0.741	0.767	0.661	0.723	0.729	0.740	7.08
32) T	1,1,1-Trichlor...	0.939	0.936	0.884	0.796	0.801	0.778	0.856	8.54
33) S	1,2-Dichloroet...	0.569	0.538	0.499	0.447	0.428	0.419	0.483	12.83
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.368	0.373	0.358	0.330	0.329	0.316	0.346	6.79
36) T	1,1-Dichloropr...	0.487	0.449	0.468	0.448	0.476	0.473	0.467	3.31
37) T	Ethyl Acetate	0.146	0.147	0.164	0.170	0.172	0.171	0.162	7.43
38) T	Carbon Tetrach...	0.437	0.434	0.428	0.392	0.421	0.418	0.422	3.88
39) T	Methylcyclohexane	0.521	0.510	0.523	0.494	0.584	0.592	0.537	7.61
40) TM	Benzene	1.590	1.501	1.512	1.476	1.470	1.454	1.501	3.24
41) T	Methacrylonitrile	0.086	0.084	0.082	0.100	0.083	0.096	0.089	8.83
42) TM	1,2-Dichloroet...	0.378	0.374	0.359	0.347	0.337	0.334	0.355	5.24
43) T	Isopropyl Acetate	0.286	0.297	0.289	0.299	0.315	0.327	0.302	5.25
44) TM	Trichloroethene	0.459	0.429	0.430	0.405	0.411	0.403	0.423	5.02
45) C	1,2-Dichloropr...	0.394	0.379	0.368	0.363	0.361	0.356	0.370	3.76#
46) T	Dibromomethane	0.228	0.216	0.210	0.202	0.196	0.192	0.207	6.52
47) T	Bromodichlorom...	0.535	0.508	0.503	0.491	0.482	0.473	0.499	4.47
48) T	Methyl methacr...	0.123	0.114	0.127	0.138	0.148	0.152	0.134	10.99
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	6.34
50) S	Toluene-d8	1.364	1.418	1.410	1.308	1.287	1.296	1.347	4.32
51) T	4-Methyl-2-Pen...	0.142	0.152	0.158	0.168	0.170	0.174	0.161	7.64
52) CM	Toluene	0.932	0.912	0.973	0.935	0.935	0.936	0.937	2.10#
53) T	t-1,3-Dichloro...	0.427	0.437	0.455	0.458	0.460	0.460	0.449	3.13
54) T	cis-1,3-Dichlo...	0.514	0.538	0.550	0.560	0.564	0.565	0.548	3.60
55) T	1,1,2-Trichlor...	0.313	0.311	0.313	0.294	0.279	0.276	0.298	5.81
56) T	Ethyl methacry...	0.242	0.273	0.290	0.321	0.329	0.338	0.299	12.43

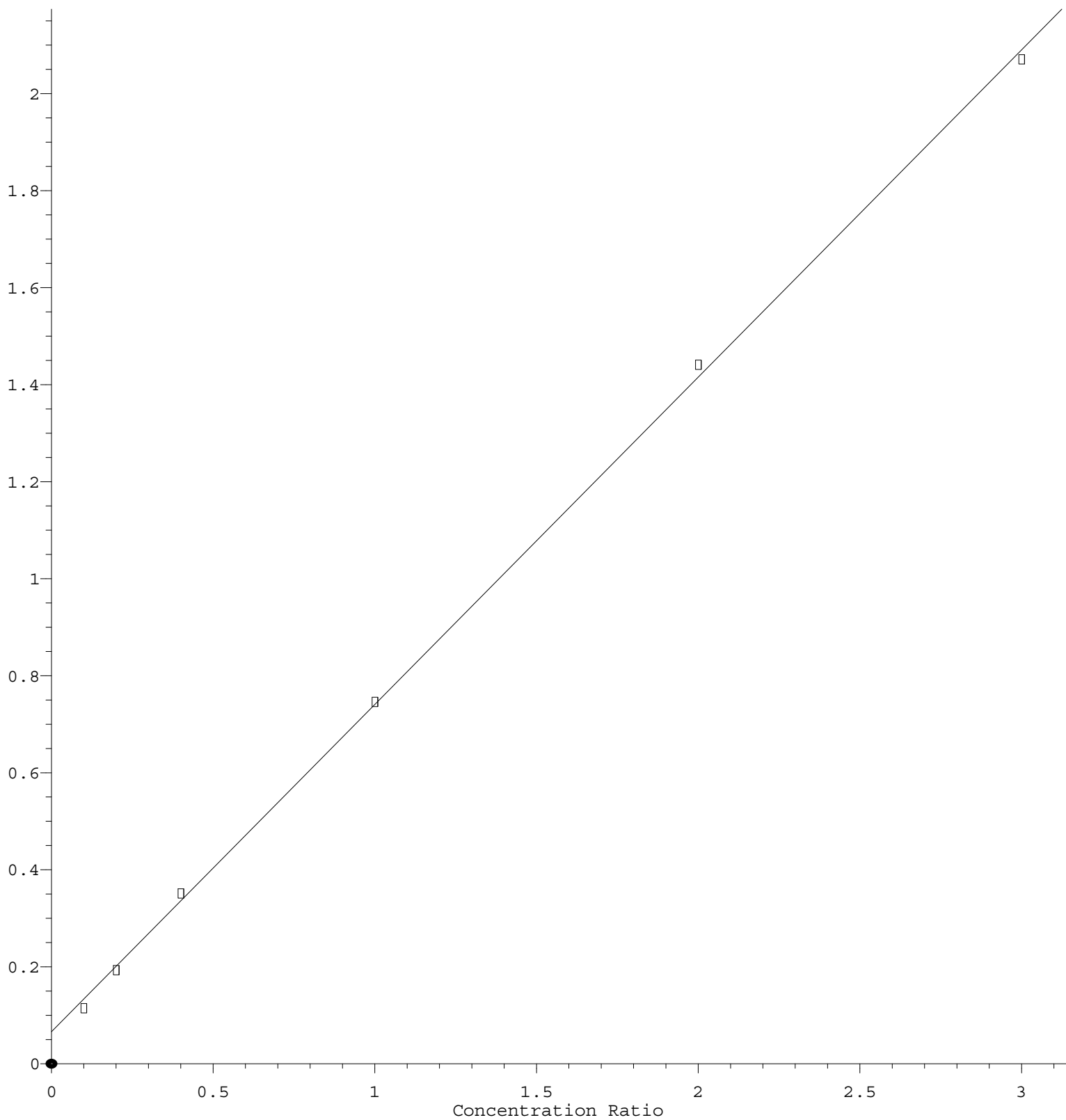
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57)	T	1,3-Dichloropr...	0.481	0.472	0.469	0.468	0.458	0.454	0.467	2.09
58)	T	2-Chloroethyl ...	0.122	0.132	0.144	0.150	0.154	0.159	0.143	9.75
59)	T	2-Hexanone	0.092	0.108	0.113	0.122	0.121	0.123	0.113	10.42
60)	T	Dibromochlorom...	0.347	0.344	0.339	0.333	0.323	0.321	0.335	3.27
61)	T	1,2-Dibromoethane	0.279	0.264	0.278	0.262	0.255	0.251	0.265	4.38
62)	S	4-Bromofluorob...	0.356	0.384	0.390	0.352	0.378	0.385	0.374	4.34
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.437	0.377	0.383	0.367	0.376	0.367	0.384	6.93
65)	PM	Chlorobenzene	1.236	1.112	1.143	1.115	1.104	1.119	1.138	4.35
66)	T	1,1,1,2-Tetrac...	0.412	0.400	0.392	0.379	0.385	0.383	0.392	3.13
67)	C	Ethyl Benzene	1.629	1.665	1.795	1.816	1.990	2.018	1.819	8.84#
68)	T	m/p-Xylenes	0.668	0.682	0.768	0.748	0.798	0.796	0.743	7.57
69)	T	o-Xylene	0.607	0.605	0.661	0.698	0.746	0.753	0.678	9.65
70)	T	Styrene	0.999	1.077	1.200	1.211	1.292	1.278	1.176	9.81
71)	P	Bromoform	0.236	0.224	0.222	0.217	0.210	0.213	0.220	4.13
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	2.923	2.956	3.201	3.390	3.694	3.683	3.308	10.30
74)	T	N-amyl acetate	0.488	0.511	0.560	0.627	0.653	0.696	0.589	14.02
75)	P	1,1,2,2-Tetrac...	0.756	0.721	0.704	0.704	0.690	0.691	0.711	3.46
76)	T	1,2,3-Trichlor...	0.479	0.484	0.494	0.387	0.390	0.392	0.438	12.07
77)	T	Bromobenzene	0.890	0.872	0.883	0.907	0.886	0.880	0.887	1.33
78)	T	n-propylbenzene	3.621	3.728	4.089	4.185	4.546	4.532	4.117	9.46
79)	T	2-Chlorotoluene	2.064	2.154	2.256	2.327	2.434	2.436	2.279	6.61
80)	T	1,3,5-Trimethy...	2.271	2.513	2.739	2.858	3.054	3.017	2.742	11.07
81)	T	trans-1,4-Dich...	0.188	0.193	0.208	0.216	0.220	0.226	0.209	7.18
82)	T	4-Chlorotoluene	2.166	2.380	2.376	2.474	2.589	2.556	2.424	6.34
83)	T	tert-Butylbenzene	2.058	2.083	2.225	2.344	2.605	2.589	2.317	10.36
84)	T	1,2,4-Trimethy...	2.308	2.413	2.746	2.874	3.033	3.010	2.731	11.23
85)	T	sec-Butylbenzene	3.162	3.324	3.554	3.597	4.009	4.023	3.611	9.72
86)	T	p-Isopropyltol...	2.556	2.629	2.920	3.033	3.289	3.302	2.955	10.75
87)	T	1,3-Dichlorobe...	1.828	1.795	1.782	1.800	1.796	1.754	1.792	1.34
88)	T	1,4-Dichlorobe...	1.818	1.787	1.785	1.761	1.773	1.726	1.775	1.72
89)	T	n-Butylbenzene	2.411	2.395	2.766	2.783	3.161	3.192	2.785	12.43
90)	T	Hexachloroethane	0.673	0.591	0.605	0.573	0.602	0.604	0.608	5.61
91)	T	1,2-Dichlorobe...	1.620	1.534	1.620	1.557	1.573	1.533	1.573	2.51
92)	T	1,2-Dibromo-3-...	0.095	0.091	0.095	0.094	0.090	0.089	0.092	2.88
93)	T	1,2,4-Trichlor...	0.799	0.787	0.955	0.964	0.989	0.995	0.915	10.42
94)	T	Hexachlorobuta...	0.454	0.435	0.482	0.458	0.485	0.485	0.467	4.44
95)	T	Naphthalene	1.420	1.408	1.635	1.840	1.931	1.968	1.700	14.71
96)	T	1,2,3-Trichlor...	0.759	0.744	0.844	0.889	0.882	0.876	0.832	7.76

(#) = Out of Range

Chloromethane

Response Ratio



$$\text{Response} = 6.748\text{e-}001 * \text{Amt} + 6.576\text{e-}002$$

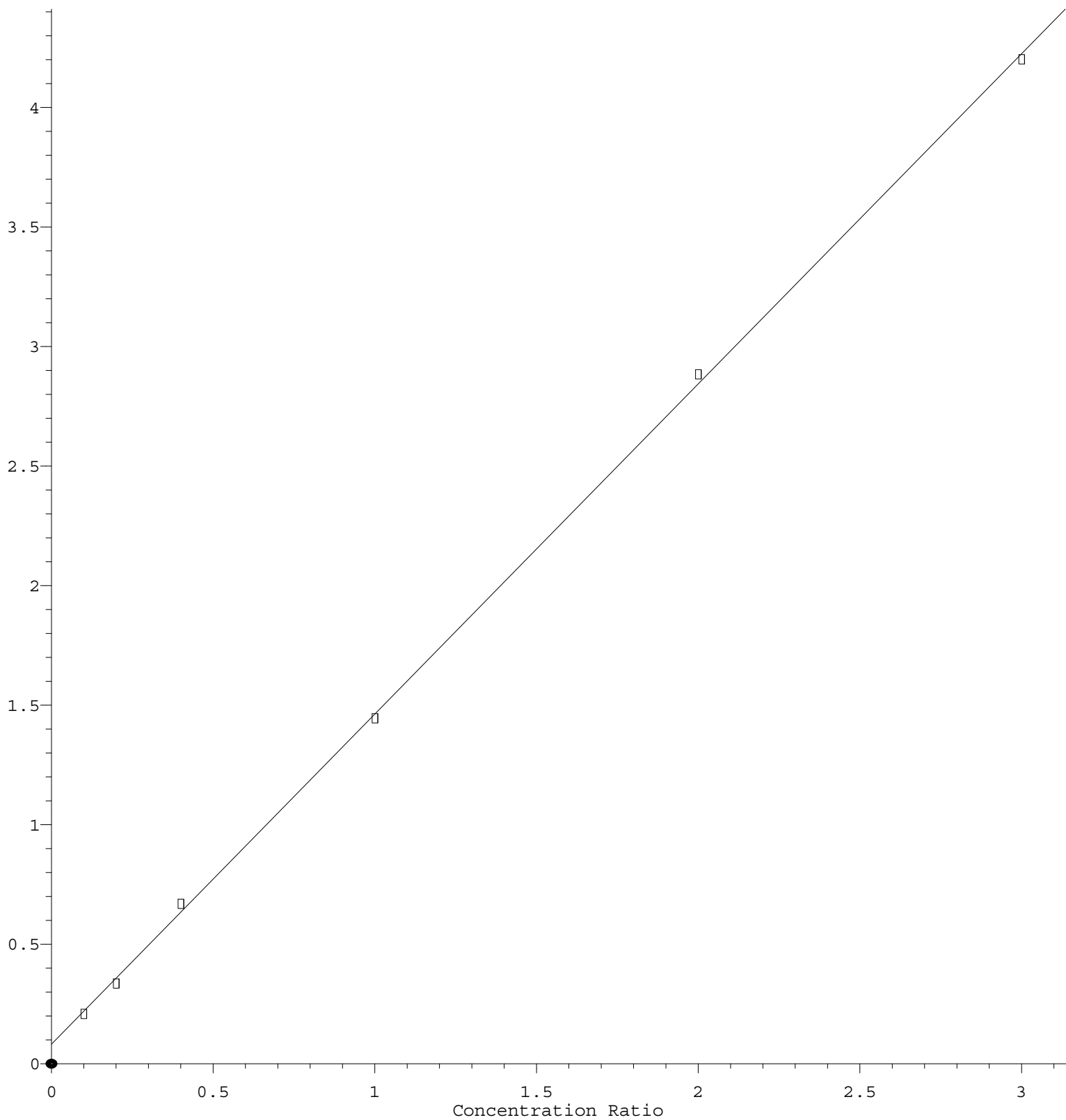
Coef of Det (r^2) = 0.999443 Curve Fit: Linear

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Carbon Disulfide

Response Ratio



$$\text{Response} = 1.381\text{e}+000 * \text{Amt} + 8.170\text{e}-002$$

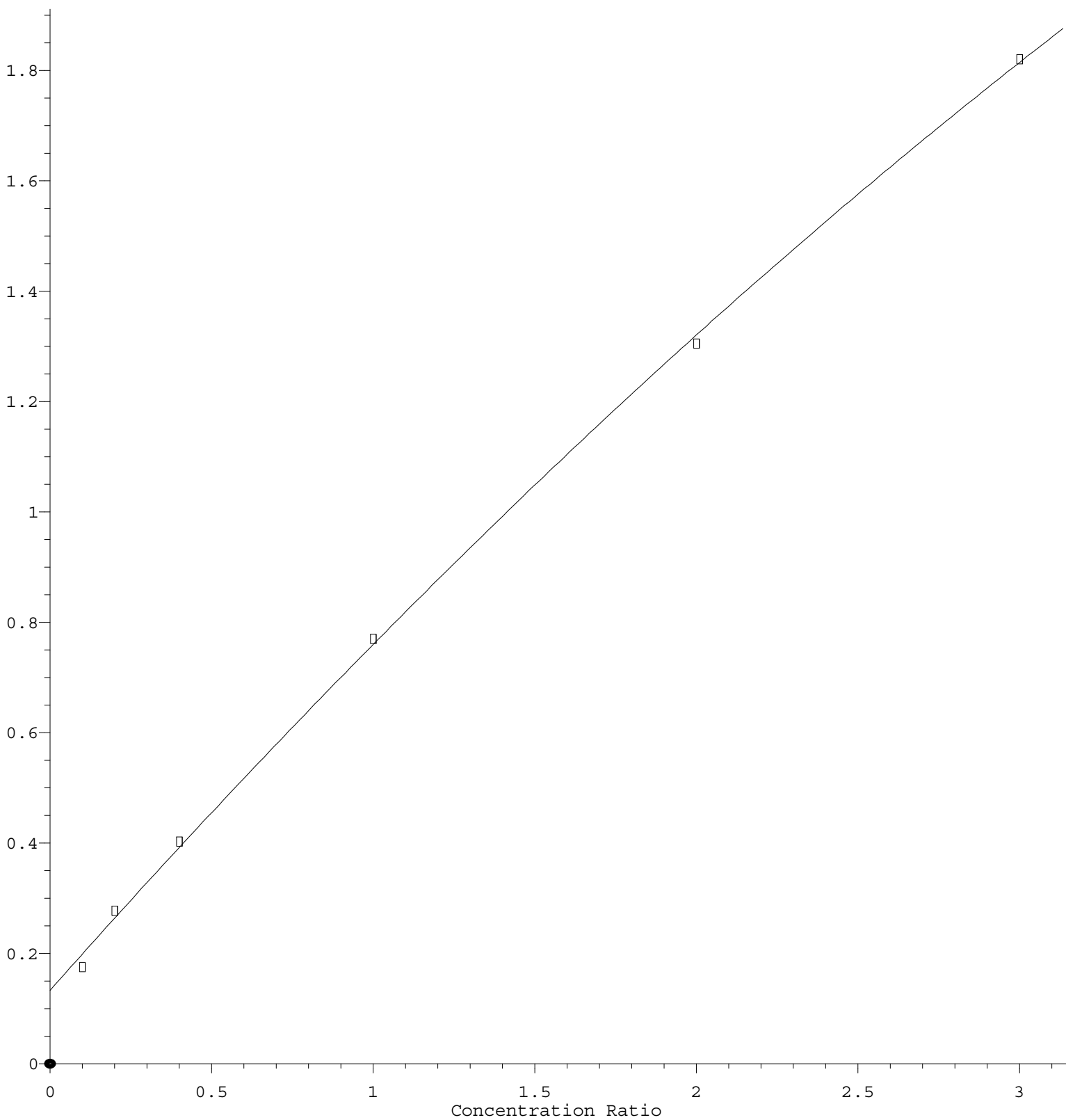
Coef of Det (r^2) = 0.999664 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$R = -3.321e-002 A^2 + 6.601e-001 A + 1.332e-001$
 Coef of Det (r^2) = 0.999424 Curve Fit: Quadratic
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