

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y071323S.M
 Title : SW846 8260
 Last Update : Fri Jul 14 02:09:50 2023
 Response Via : Initial Calibration

Calibration Files

5 =VY014620.D 10 =VY014621.D 20 =VY014627.D 50 =VY014623.D 100 =VY014624.D 150 =VY014625.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.466	0.449	0.367	0.389	0.402	0.370	0.407	10.17
3) P	Chloromethane	0.508	0.467	0.453	0.448	0.453	0.418	0.458	6.41
4) C	Vinyl Chloride	0.548	0.519	0.497	0.516	0.517	0.474	0.512	4.84#
5) T	Bromomethane	0.361	0.339	0.348	0.335	0.308		0.338	5.81
6) T	Chloroethane	0.338	0.319	0.321	0.325	0.326	0.289	0.320	5.21
7) T	Trichlorofluor...	0.877	0.849	0.837	0.877	0.898	0.819	0.860	3.44
8) T	Diethyl Ether	0.319	0.302	0.337	0.324	0.329	0.307	0.320	4.12
9) T	1,1,2-Trichlor...	0.540	0.505	0.511	0.542	0.552	0.510	0.527	3.82
10) T	Methyl Iodide	0.357	0.368	0.525	0.542	0.600	0.567	0.493	21.19
11) T	Tert butyl alc...	0.159	0.118	0.162	0.111	0.107	0.096	0.125	22.33
12) CM	1,1-Dichloroet...	0.494	0.480	0.490	0.505	0.514	0.472	0.492	3.16#
13) T	Acrolein	0.054	0.050	0.063	0.054	0.060	0.075	0.060	14.73
14) T	Allyl chloride	0.913	0.822	0.884	0.886	0.903	0.836	0.874	4.19
15) T	Acrylonitrile	0.168	0.154	0.197	0.179	0.188	0.172	0.176	8.63
16) T	Acetone	0.177	0.144	0.217	0.194	0.187	0.164	0.181	13.97
17) T	Carbon Disulfide	1.547	1.429	1.359	1.397	1.419	1.307	1.410	5.72
18) T	Methyl Acetate	0.652	0.613	0.760	0.704	0.739	0.690	0.693	7.86
19) T	Methyl tert-bu...	1.561	1.466	1.702	1.635	1.675	1.557	1.599	5.49
20) T	Methylene Chlo...	0.878	0.620	0.709	0.604	0.588	0.540	0.656	18.55
21) T	trans-1,2-Dich...	0.580	0.546	0.560	0.566	0.573	0.527	0.559	3.46
22) T	Diisopropyl ether	1.752	1.652	1.850	1.829	1.851	1.730	1.777	4.50
23) T	Vinyl Acetate	1.038	0.949	1.136	1.096	1.122	1.041	1.064	6.49
24) P	1,1-Dichloroet...	1.018	0.956	1.050	1.044	1.054	0.980	1.017	4.00
25) T	2-Butanone	0.261	0.223	0.308	0.270	0.275	0.248	0.264	10.67
26) T	2,2-Dichloropr...	1.028	0.922	1.005	0.986	0.979	0.896	0.969	5.17
27) T	cis-1,2-Dichlo...	0.668	0.614	0.665	0.668	0.670	0.618	0.650	4.08
28) T	Bromochloromet...	0.462	0.478	0.424	0.419	0.430	0.415	0.438	5.90
29) T	Tetrahydrofuran	0.158	0.142	0.182	0.162	0.173	0.160	0.163	8.45
30) C	Chloroform	1.073	0.974	1.095	1.069	1.079	1.003	1.049	4.61#
31) T	Cyclohexane	1.137	0.959	0.903	0.915	0.915	0.847	0.946	10.59
32) T	1,1,1-Trichlor...	0.968	0.880	0.949	0.960	0.988	0.917	0.944	4.15
33) S	1,2-Dichloroet...	0.586	0.534	0.612	0.559	0.568	0.559	0.570	4.70
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.320	0.307	0.335	0.322	0.317	0.309	0.318	3.22
36) T	1,1-Dichloropr...	0.483	0.455	0.469	0.494	0.497	0.458	0.476	3.79
37) T	Ethyl Acetate	0.325	0.286	0.360	0.323	0.348	0.323	0.328	7.71
38) T	Carbon Tetrach...	0.506	0.473	0.494	0.524	0.530	0.492	0.503	4.24
39) T	Methylcyclohexane	0.657	0.601	0.597	0.640	0.637	0.590	0.620	4.50
40) TM	Benzene	1.379	1.277	1.383	1.404	1.397	1.282	1.354	4.29
41) T	Methacrylonitrile	0.186	0.136	0.197	0.168	0.153	0.173	0.169	13.22
42) TM	1,2-Dichloroet...	0.413	0.395	0.445	0.446	0.450	0.423	0.429	5.14
43) T	Isopropyl Acetate	0.596	0.560	0.672	0.641	0.660	0.616	0.624	6.73
44) TM	Trichloroethene	0.386	0.358	0.387	0.391	0.389	0.361	0.379	3.95
45) C	1,2-Dichloropr...	0.354	0.331	0.365	0.367	0.366	0.337	0.353	4.45#
46) T	Dibromomethane	0.216	0.198	0.224	0.222	0.222	0.206	0.214	4.93
47) T	Bromodichlorom...	0.498	0.469	0.521	0.526	0.528	0.490	0.505	4.70
48) T	Methyl methacr...	0.265	0.254	0.297	0.289	0.301	0.279	0.281	6.56
49) T	1,4-Dioxane	0.003	0.003	0.004	0.004	0.004	0.003	0.003	12.91
50) S	Toluene-d8	1.238	1.149	1.234	1.171	1.145	1.103	1.173	4.53
51) T	4-Methyl-2-Pen...	0.315	0.288	0.364	0.337	0.348	0.316	0.328	8.32
52) CM	Toluene	0.877	0.823	0.891	0.898	0.895	0.813	0.866	4.40#
53) T	t-1,3-Dichloro...	0.547	0.509	0.573	0.574	0.577	0.537	0.553	4.87
54) T	cis-1,3-Dichlo...	0.603	0.563	0.620	0.626	0.620	0.576	0.601	4.35
55) T	1,1,2-Trichlor...	0.297	0.273	0.311	0.310	0.312	0.289	0.299	5.20
56) T	Ethyl methacry...	0.432	0.402	0.489	0.479	0.489	0.446	0.456	7.78

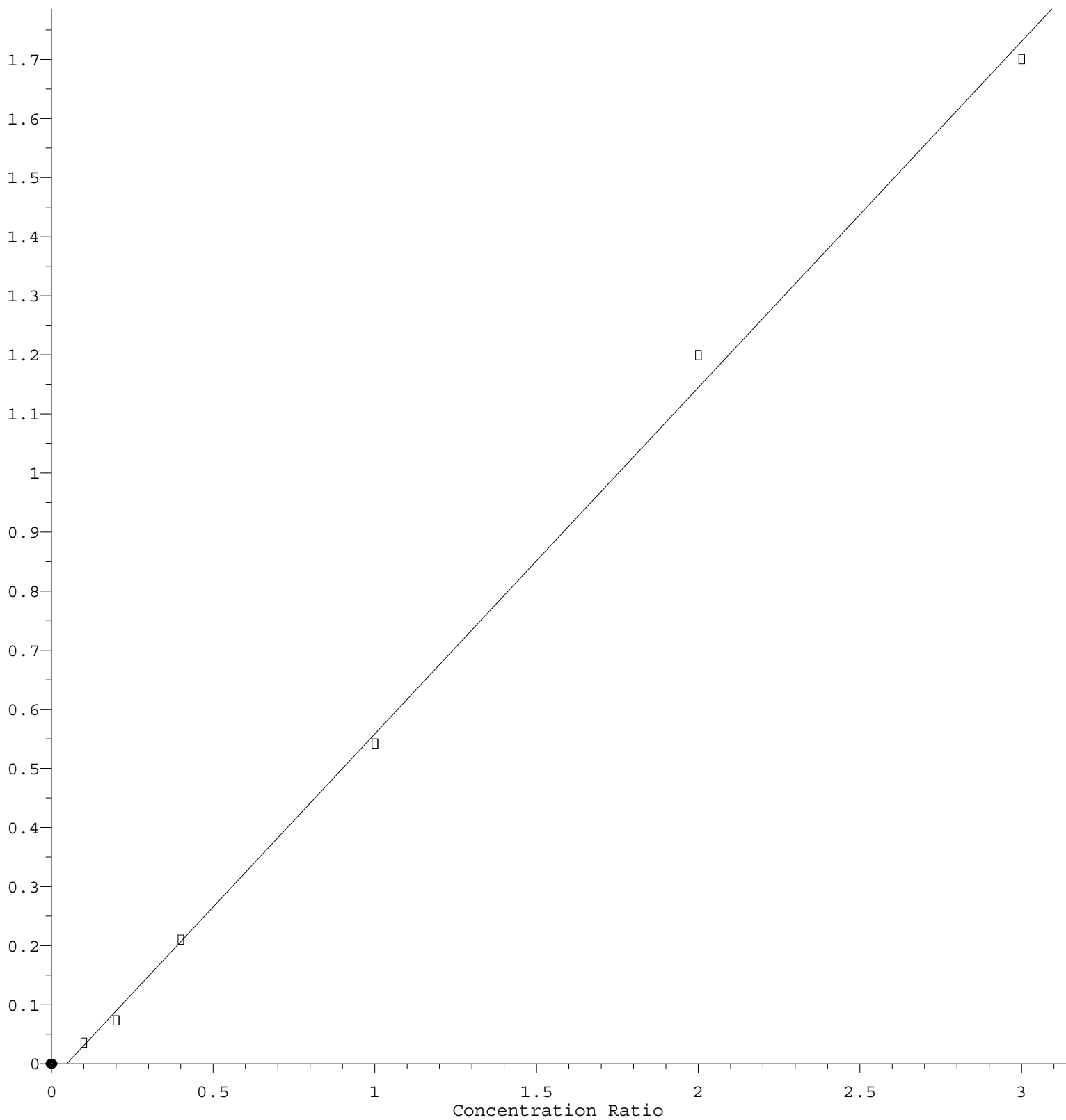
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57)	T	1,3-Dichloropr...	0.513	0.472	0.541	0.538	0.534	0.494	0.515	5.39
58)	T	2-Chloroethyl ...	0.223	0.209	0.210	0.215	0.217	0.202	0.213	3.44
59)	T	2-Hexanone	0.224	0.205	0.272	0.248	0.254	0.230	0.239	9.95
60)	T	Dibromochlorom...	0.361	0.335	0.382	0.383	0.382	0.355	0.366	5.33
61)	T	1,2-Dibromoethane	0.293	0.273	0.315	0.310	0.310	0.287	0.298	5.52
62)	S	4-Bromofluorob...	0.486	0.440	0.468	0.444	0.438	0.423	0.450	5.07
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.428	0.395	0.419	0.412	0.397	0.363	0.402	5.78
65)	PM	Chlorobenzene	1.083	1.001	1.096	1.097	1.101	1.015	1.065	4.21
66)	T	1,1,1,2-Tetrac...	0.402	0.372	0.421	0.419	0.414	0.382	0.402	5.05
67)	C	Ethyl Benzene	1.980	1.827	1.962	1.998	1.974	1.802	1.924	4.47#
68)	T	m/p-Xylenes	0.750	0.699	0.759	0.758	0.750	0.689	0.734	4.26
69)	T	o-Xylene	0.740	0.672	0.730	0.740	0.735	0.674	0.715	4.59
70)	T	Styrene	1.225	1.122	1.256	1.262	1.238	1.129	1.206	5.25
71)	P	Bromoform	0.260	0.243	0.294	0.286	0.285	0.265	0.272	7.10
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.011	3.751	3.878	4.005	4.073	3.771	3.915	3.45
74)	T	N-amyl acetate	1.196	1.172	1.366	1.361	1.437	1.335	1.311	7.94
75)	P	1,1,2,2-Tetrac...	0.876	0.809	0.932	0.905	0.950	0.885	0.893	5.55
76)	T	1,2,3-Trichlor...	0.635	0.589	0.638	0.641	0.666	0.620	0.631	4.07
77)	T	Bromobenzene	0.880	0.832	0.912	0.930	0.936	0.872	0.894	4.44
78)	T	n-propylbenzene	4.775	4.512	4.668	4.901	4.936	4.514	4.718	3.92
79)	T	2-Chlorotoluene	2.732	2.574	2.705	2.815	2.843	2.636	2.717	3.79
80)	T	1,3,5-Trimethy...	3.319	3.110	3.272	3.399	3.386	3.132	3.270	3.80
81)	T	trans-1,4-Dich...	0.315	0.278	0.337	0.340	0.356	0.332	0.326	8.34
82)	T	4-Chlorotoluene	2.795	2.670	2.812	2.898	2.914	2.701	2.799	3.54
83)	T	tert-Butylbenzene	2.917	2.742	2.888	3.015	3.030	2.811	2.900	3.89
84)	T	1,2,4-Trimethy...	3.270	3.054	3.224	3.331	3.318	3.055	3.209	3.91
85)	T	sec-Butylbenzene	4.306	4.068	4.264	4.419	4.415	4.056	4.255	3.79
86)	T	p-Isopropyltol...	3.483	3.307	3.526	3.635	3.605	3.287	3.474	4.25
87)	T	1,3-Dichlorobe...	1.750	1.633	1.792	1.810	1.796	1.655	1.739	4.41
88)	T	1,4-Dichlorobe...	1.767	1.624	1.777	1.812	1.804	1.675	1.743	4.37
89)	T	n-Butylbenzene	3.388	3.182	3.368	3.552	3.547	3.241	3.380	4.52
90)	T	Hexachloroethane	0.715	0.661	0.717	0.743	0.748	0.696	0.714	4.51
91)	T	1,2-Dichlorobe...	1.566	1.503	1.637	1.665	1.653	1.538	1.594	4.22
92)	T	1,2-Dibromo-3-...	0.166	0.147	0.182	0.173	0.184	0.173	0.171	7.90
93)	T	1,2,4-Trichlor...	0.943	0.884	1.044	1.084	1.089	1.026	1.012	8.09
94)	T	Hexachlorobuta...	0.543	0.506	0.559	0.594	0.588	0.545	0.556	5.83
95)	T	Naphthalene	2.113	1.957	2.505	2.504	2.603	2.459	2.357	10.97
96)	T	1,2,3-Trichlor...	0.828	0.768	0.942	0.956	0.975	0.925	0.899	9.14

(#) = Out of Range

Methyl Iodide

Response Ratio



$$\text{Response} = 5.862\text{e-}001 * \text{Amt} - 2.778\text{e-}002$$

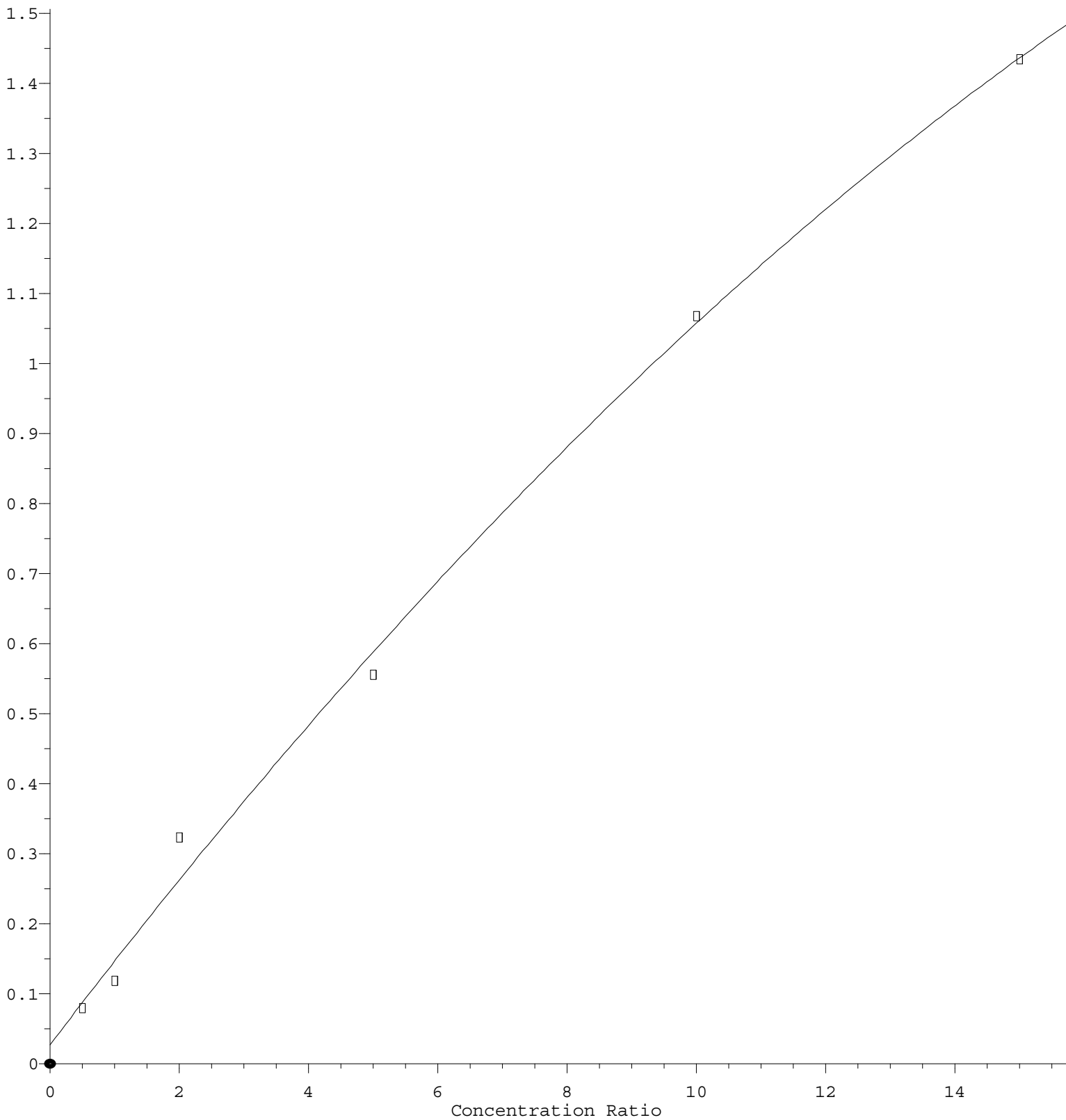
Coef of Det (r^2) = 0.998060 Curve Fit: Linear

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Tert butyl alcohol

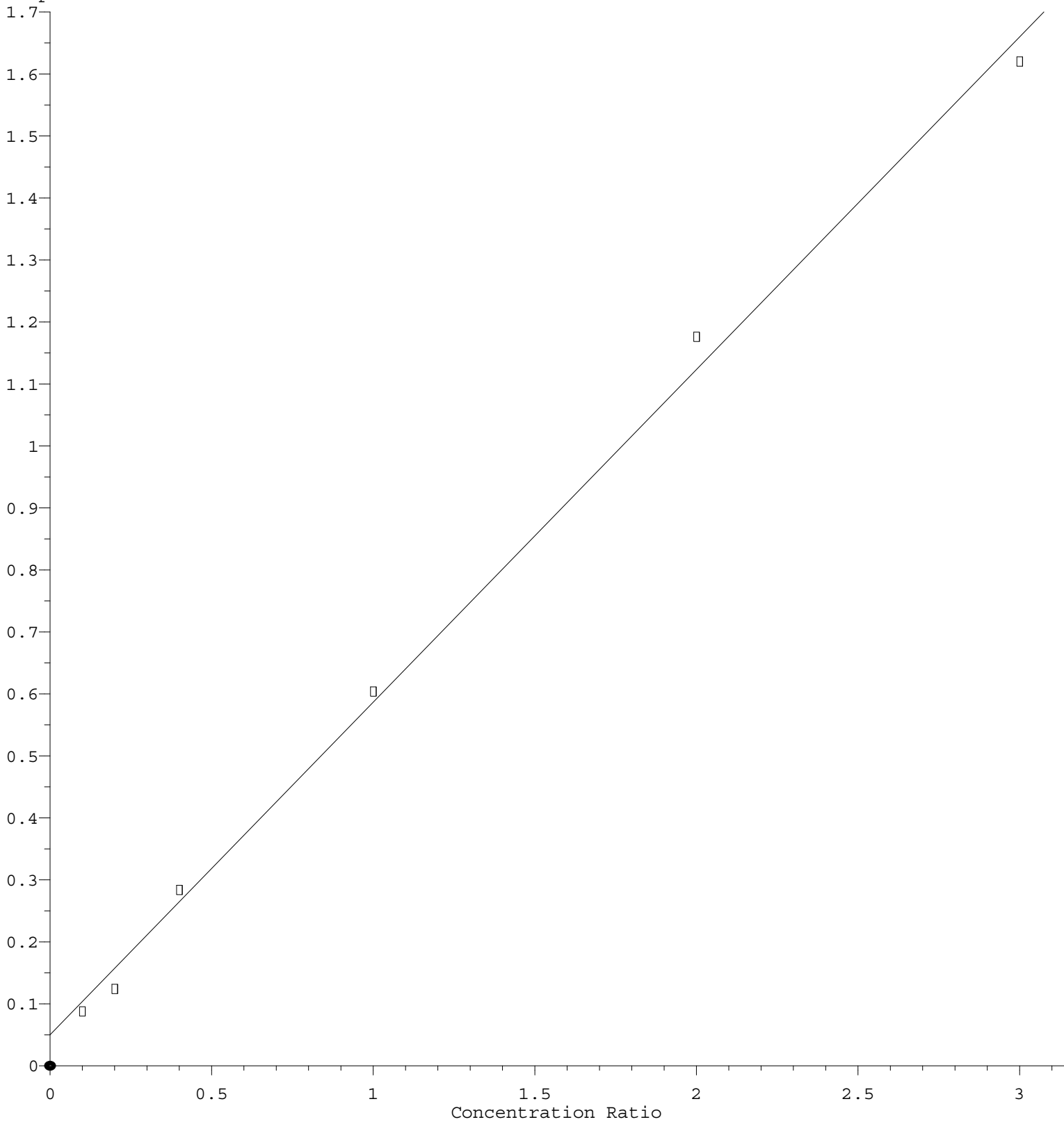
Response Ratio



$R = -1.819e-003 A^2 + 1.212e-001 A + 2.739e-002$
 Coef of Det (r^2) = 0.996185 Curve Fit: Quadratic
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Methylene Chloride

Response Ratio



$$\text{Response} = 5.370\text{e-}001 * \text{Amt} + 4.954\text{e-}002$$

Coef of Det (r^2) = 0.996722 Curve Fit: Linear

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