

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y081524S.M
 Title : SW846 8260
 Last Update : Fri Aug 16 05:10:30 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY019071.D 10 =VY019072.D 20 =VY019073.D 50 =VY019074.D 100 =VY019075.D 150 =VY019076.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.385	0.357	0.408	0.379	0.347	0.325	0.367	8.10
3) P	Chloromethane	0.806	0.726	0.670	0.646	0.598	0.523	0.661	14.89
4) C	Vinyl Chloride	0.973	0.898	0.841	0.807	0.731	0.651	0.817	14.15#
5) T	Bromomethane	0.875	0.644	0.567	0.533	0.493	0.446	0.593	25.92
6) T	Chloroethane	0.689	0.565	0.526	0.514	0.472	0.415	0.530	17.61
7) T	Trichlorofluor...	1.380	1.344	1.288	1.215	1.142	1.040	1.235	10.41
8) T	Diethyl Ether	0.312	0.274	0.269	0.257	0.249	0.238	0.267	9.66
9) T	1,1,2-Trichlor...	0.637	0.607	0.546	0.532	0.504	0.468	0.549	11.51
10) T	Methyl Iodide	0.466	0.518	0.541	0.602	0.577	0.524	0.538	8.86
11) T	Tert butyl alc...	0.089	0.070	0.060	0.043	0.039	0.038	0.056	36.24
12) CM	1,1-Dichloroet...	0.572	0.529	0.486	0.486	0.474	0.446	0.499	8.92#
13) T	Acrolein	0.056	0.041	0.047	0.038	0.037	0.035	0.042	18.27
14) T	Allyl chloride	0.749	0.669	0.634	0.665	0.649	0.613	0.663	7.08
15) T	Acrylonitrile	0.119	0.100	0.113	0.114	0.106	0.102	0.109	6.78
16) T	Acetone	0.113	0.087	0.091	0.097	0.087	0.082	0.093	11.97
17) T	Carbon Disulfide	1.597	1.439	1.369	1.410	1.358	1.267	1.407	7.82
18) T	Methyl Acetate	0.343	0.271	0.288	0.280	0.273	0.257	0.285	10.47
19) T	Methyl tert-bu...	1.283	1.125	1.221	1.244	1.211	1.171	1.209	4.58
20) T	Methylene Chlo...	1.695	0.965	0.718	0.595	0.535	0.490	0.833	54.67
21) T	trans-1,2-Dich...	0.609	0.587	0.542	0.564	0.543	0.499	0.557	6.90
22) T	Diisopropyl ether	1.694	1.475	1.513	1.528	1.490	1.407	1.518	6.31
23) T	Vinyl Acetate	1.266	1.081	1.200	1.245	1.231	1.188	1.202	5.48
24) P	1,1-Dichloroet...	1.088	0.955	0.919	0.904	0.885	0.819	0.928	9.72
25) T	2-Butanone	0.182	0.132	0.149	0.155	0.144	0.137	0.150	11.89
26) T	2,2-Dichloropr...	0.863	0.767	0.729	0.739	0.729	0.684	0.752	8.09
27) T	cis-1,2-Dichlo...	0.730	0.650	0.655	0.655	0.639	0.605	0.656	6.25
28) T	Bromochloromet...	0.474	0.392	0.403	0.366	0.365	0.336	0.389	12.30
29) T	Tetrahydrofuran	0.111	0.086	0.100	0.097	0.094	0.089	0.096	9.39
30) C	Chloroform	1.146	1.034	1.049	1.048	0.999	0.931	1.034	6.81#
31) T	Cyclohexane	1.026	0.907	0.788	0.745	0.721	0.659	0.807	16.77
32) T	1,1,1-Trichlor...	1.007	0.867	0.907	0.920	0.905	0.848	0.909	6.10
33) S	1,2-Dichloroet...	0.620	0.470	0.522	0.476	0.477	0.443	0.501	12.64
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.361	0.315	0.330	0.326	0.320	0.310	0.327	5.53
36) T	1,1-Dichloropr...	0.485	0.473	0.439	0.443	0.437	0.416	0.449	5.71
37) T	Ethyl Acetate	0.185	0.187	0.190	0.218	0.209	0.203	0.199	6.72
38) T	Carbon Tetrach...	0.516	0.525	0.512	0.540	0.526	0.502	0.520	2.53
39) T	Methylcyclohexane	0.598	0.604	0.559	0.582	0.573	0.540	0.576	4.17
40) TM	Benzene	1.478	1.392	1.371	1.397	1.345	1.278	1.377	4.79
41) T	Methacrylonitrile	0.102	0.103	0.130	0.120	0.101	0.096	0.109	12.47
42) TM	1,2-Dichloroet...	0.416	0.349	0.362	0.385	0.367	0.351	0.372	6.77
43) T	Isopropyl Acetate	0.399	0.376	0.414	0.420	0.408	0.396	0.402	3.88
44) TM	Trichloroethene	0.418	0.399	0.383	0.381	0.372	0.351	0.384	6.00
45) C	1,2-Dichloropr...	0.339	0.300	0.312	0.310	0.296	0.285	0.307	5.99#
46) T	Dibromomethane	0.206	0.189	0.199	0.209	0.199	0.191	0.199	4.05
47) T	Bromodichlorom...	0.503	0.476	0.495	0.499	0.487	0.470	0.488	2.71
48) T	Methyl methacr...	0.170	0.157	0.178	0.190	0.191	0.190	0.179	7.70
49) T	1,4-Dioxane	0.003	0.002	0.002	0.002	0.002	0.002	0.002	6.23
50) S	Toluene-d8	1.290	1.169	1.196	1.138	1.152	1.113	1.177	5.30
51) T	4-Methyl-2-Pen...	0.214	0.193	0.210	0.232	0.219	0.213	0.213	5.87
52) CM	Toluene	0.955	0.907	0.881	0.912	0.906	0.863	0.904	3.48#
53) T	t-1,3-Dichloro...	0.404	0.356	0.394	0.425	0.432	0.420	0.405	6.88
54) T	cis-1,3-Dichlo...	0.498	0.446	0.478	0.520	0.499	0.480	0.487	5.14
55) T	1,1,2-Trichlor...	0.260	0.241	0.266	0.262	0.260	0.248	0.256	3.74
56) T	Ethyl methacry...	0.307	0.301	0.333	0.361	0.360	0.350	0.335	7.85

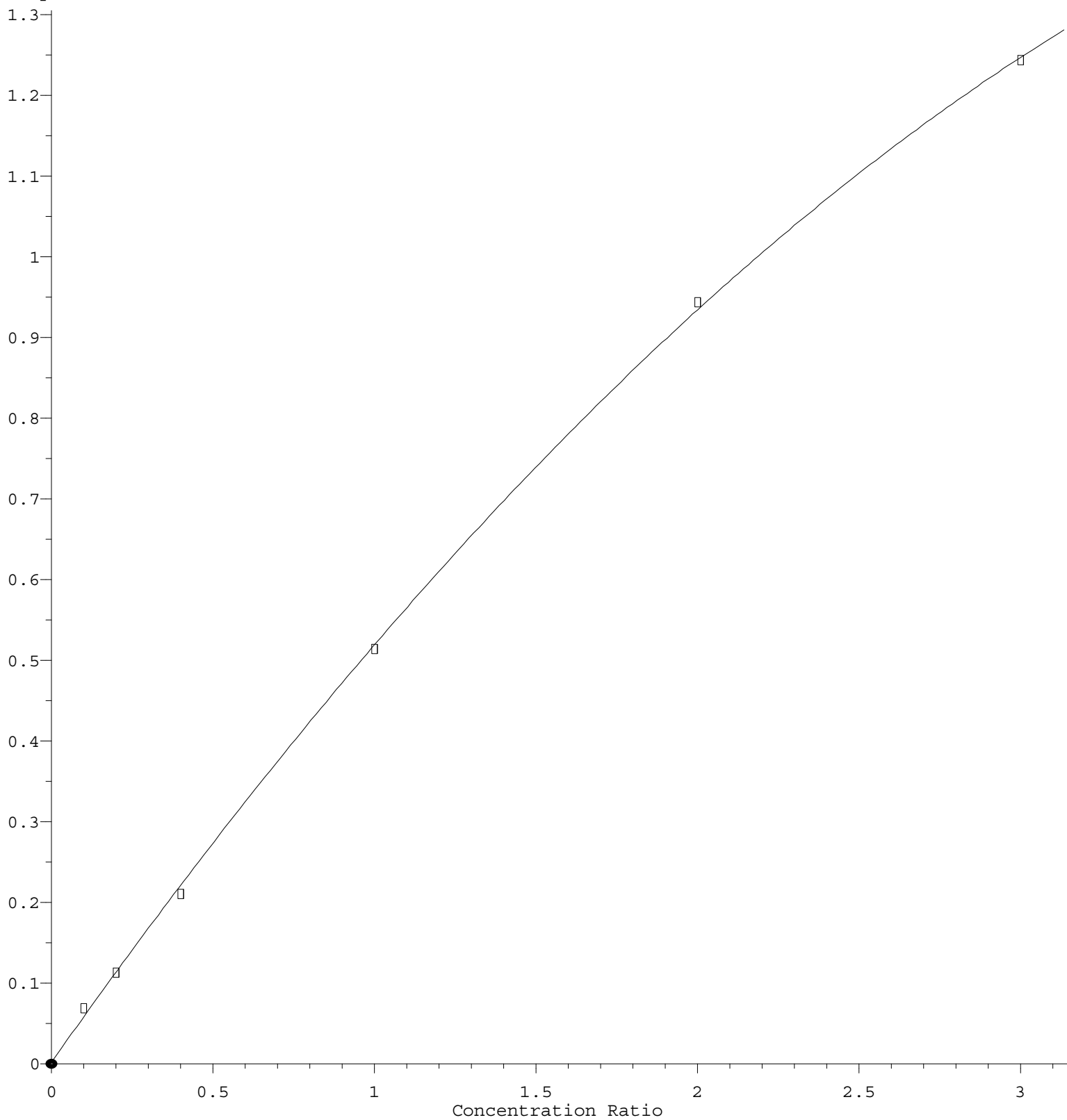
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57)	T	1,3-Dichloropr...	0.443	0.394	0.423	0.434	0.415	0.396	0.418	4.76
58)	T	2-Chloroethyl ...	0.160	0.142	0.161	0.162	0.167	0.162	0.159	5.43
59)	T	2-Hexanone	0.137	0.131	0.147	0.159	0.153	0.153	0.147	7.23
60)	T	Dibromochlorom...	0.350	0.321	0.353	0.364	0.359	0.347	0.349	4.31
61)	T	1,2-Dibromoethane	0.248	0.226	0.252	0.260	0.252	0.247	0.248	4.56
62)	S	4-Bromofluorob...	0.449	0.379	0.397	0.407	0.387	0.388	0.401	6.31
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.467	0.458	0.437	0.424	0.435	0.400	0.437	5.53
65)	PM	Chlorobenzene	1.226	1.163	1.130	1.151	1.148	1.089	1.151	3.89
66)	T	1,1,1,2-Tetrac...	0.429	0.387	0.398	0.409	0.407	0.399	0.405	3.49
67)	C	Ethyl Benzene	2.078	1.979	1.933	2.016	1.997	1.987	1.998	2.39#
68)	T	m/p-Xylenes	0.798	0.790	0.777	0.805	0.797	0.791	0.793	1.20
69)	T	o-Xylene	0.724	0.730	0.715	0.768	0.748	0.722	0.734	2.70
70)	T	Styrene	1.238	1.172	1.234	1.308	1.329	1.232	1.252	4.57
71)	P	Bromoform	0.230	0.203	0.226	0.246	0.245	0.238	0.231	6.97
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.002	3.928	3.774	3.851	3.761	3.678	3.832	3.10
74)	T	N-amyl acetate	0.857	0.733	0.839	0.874	0.830	0.879	0.836	6.43
75)	P	1,1,2,2-Tetrac...	0.817	0.666	0.680	0.685	0.626	0.620	0.682	10.47
76)	T	1,2,3-Trichlor...	0.587	0.560	0.475	0.474	0.425	0.437	0.493	13.43
77)	T	Bromobenzene	0.988	0.939	0.917	0.912	0.895	0.872	0.920	4.37
78)	T	n-propylbenzene	4.908	4.766	4.494	4.599	4.472	4.247	4.581	5.09
79)	T	2-Chlorotoluene	2.760	2.642	2.523	2.570	2.511	2.404	2.568	4.75
80)	T	1,3,5-Trimethy...	3.209	3.186	3.120	3.158	3.123	2.936	3.122	3.12
81)	T	trans-1,4-Dich...	0.208	0.192	0.194	0.204	0.198	0.201	0.200	3.01
82)	T	4-Chlorotoluene	2.840	2.740	2.629	2.671	2.669	2.484	2.672	4.43
83)	T	tert-Butylbenzene	2.968	2.892	2.893	2.883	2.954	2.707	2.883	3.24
84)	T	1,2,4-Trimethy...	3.133	3.153	3.118	3.143	3.181	2.942	3.112	2.76
85)	T	sec-Butylbenzene	4.370	4.326	4.204	4.209	4.279	3.821	4.201	4.70
86)	T	p-Isopropyltol...	3.381	3.537	3.408	3.513	3.605	3.261	3.451	3.62
87)	T	1,3-Dichlorobe...	1.961	1.824	1.750	1.810	1.853	1.692	1.815	5.06
88)	T	1,4-Dichlorobe...	2.026	1.841	1.795	1.789	1.740	1.634	1.804	7.18
89)	T	n-Butylbenzene	3.136	3.222	3.209	3.248	3.150	2.912	3.146	3.89
90)	T	Hexachloroethane	0.668	0.689	0.693	0.696	0.692	0.644	0.680	3.00
91)	T	1,2-Dichlorobe...	1.735	1.613	1.607	1.606	1.550	1.468	1.596	5.49
92)	T	1,2-Dibromo-3-...	0.104	0.091	0.104	0.103	0.102	0.098	0.100	5.05
93)	T	1,2,4-Trichlor...	0.894	0.838	0.899	0.932	0.941	0.897	0.900	4.02
94)	T	Hexachlorobuta...	0.508	0.452	0.429	0.496	0.485	0.443	0.469	6.82
95)	T	Naphthalene	1.371	1.400	1.484	1.796	1.814	1.774	1.607	13.05
96)	T	1,2,3-Trichlor...	0.739	0.698	0.715	0.814	0.816	0.774	0.759	6.60

(#) = Out of Range

Chloroethane

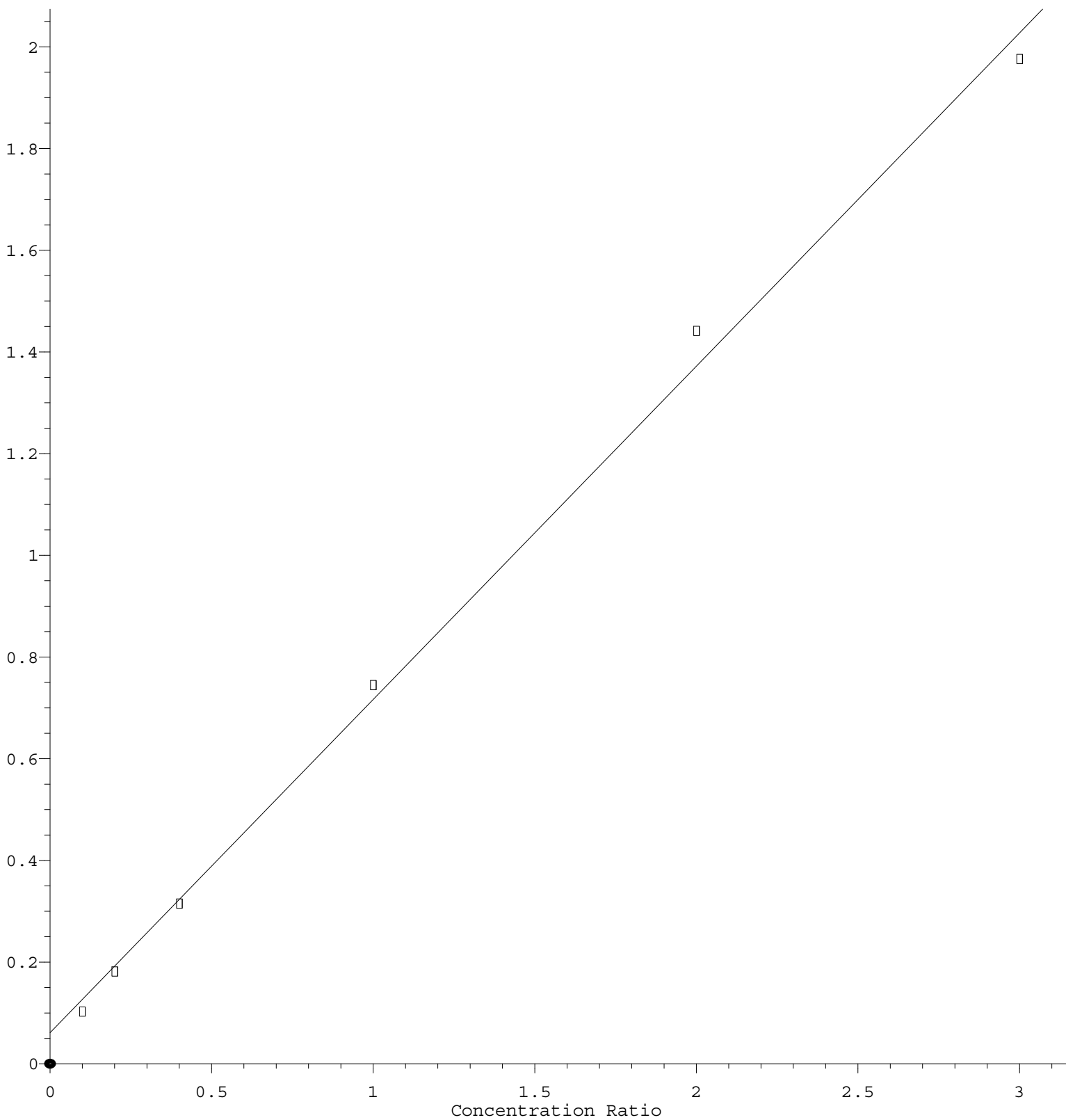
Response Ratio



$R = -5.108e-002 A^2 + 5.682e-001 A + 2.056e-003$
 Coef of Det (r^2) = 0.999699 Curve Fit: Quadratic
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Cyclohexane

Response Ratio



$$\text{Response} = 6.556\text{e-}001 * \text{Amt} + 6.137\text{e-}002$$

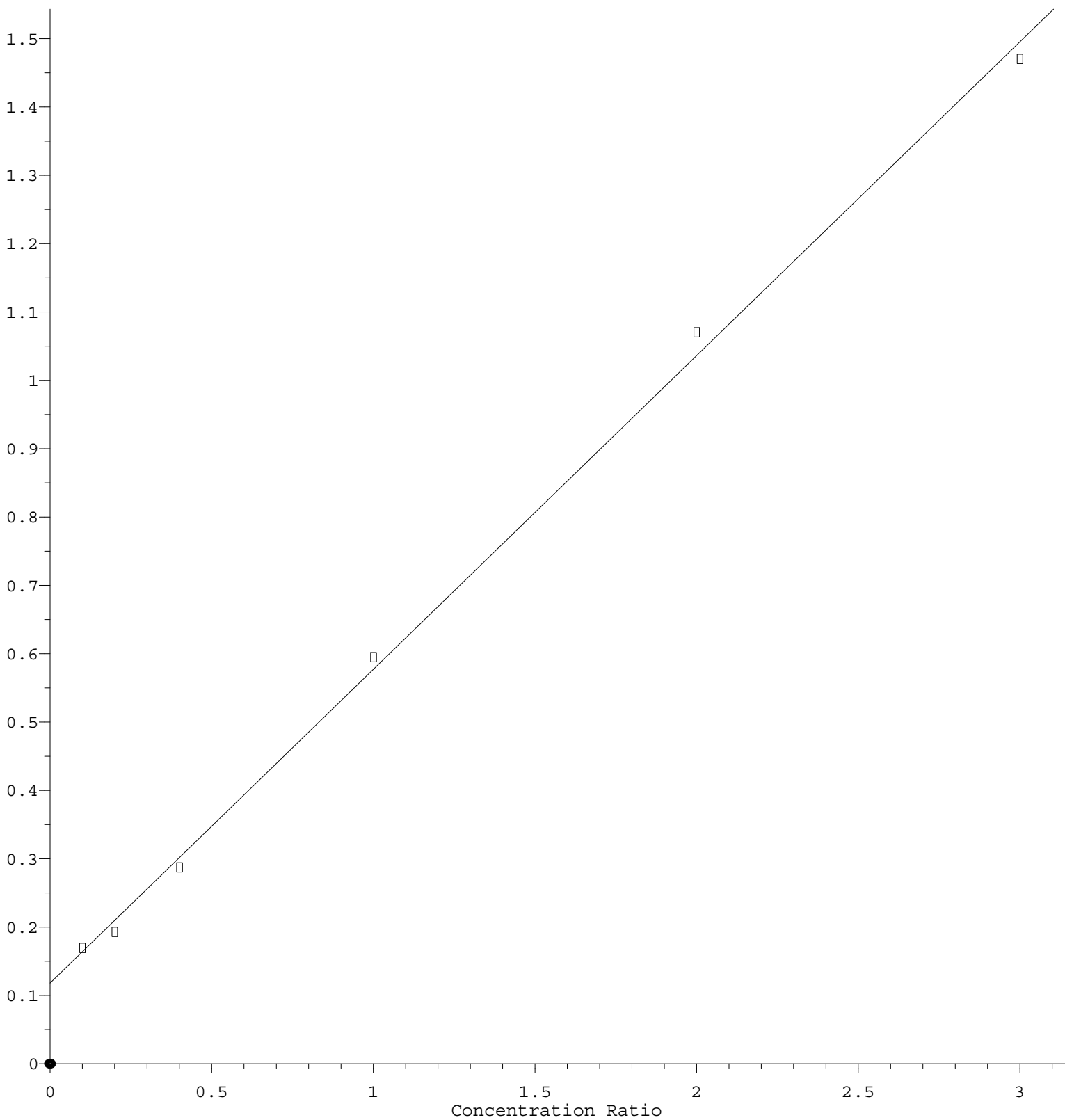
Coef of Det (r^2) = 0.996905 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA Y\methods\82Y081524S.M

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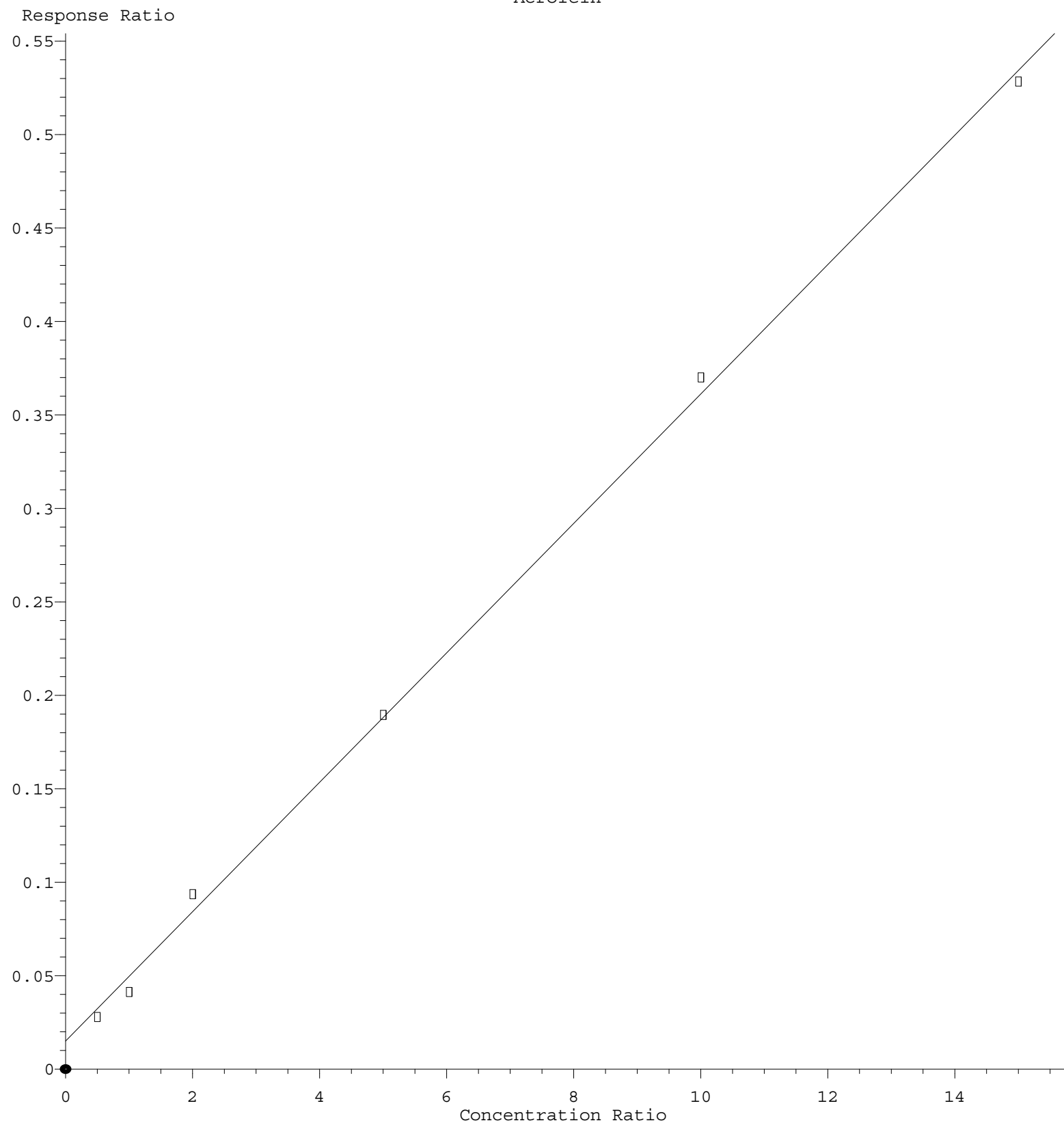
Methylene Chloride

Response Ratio



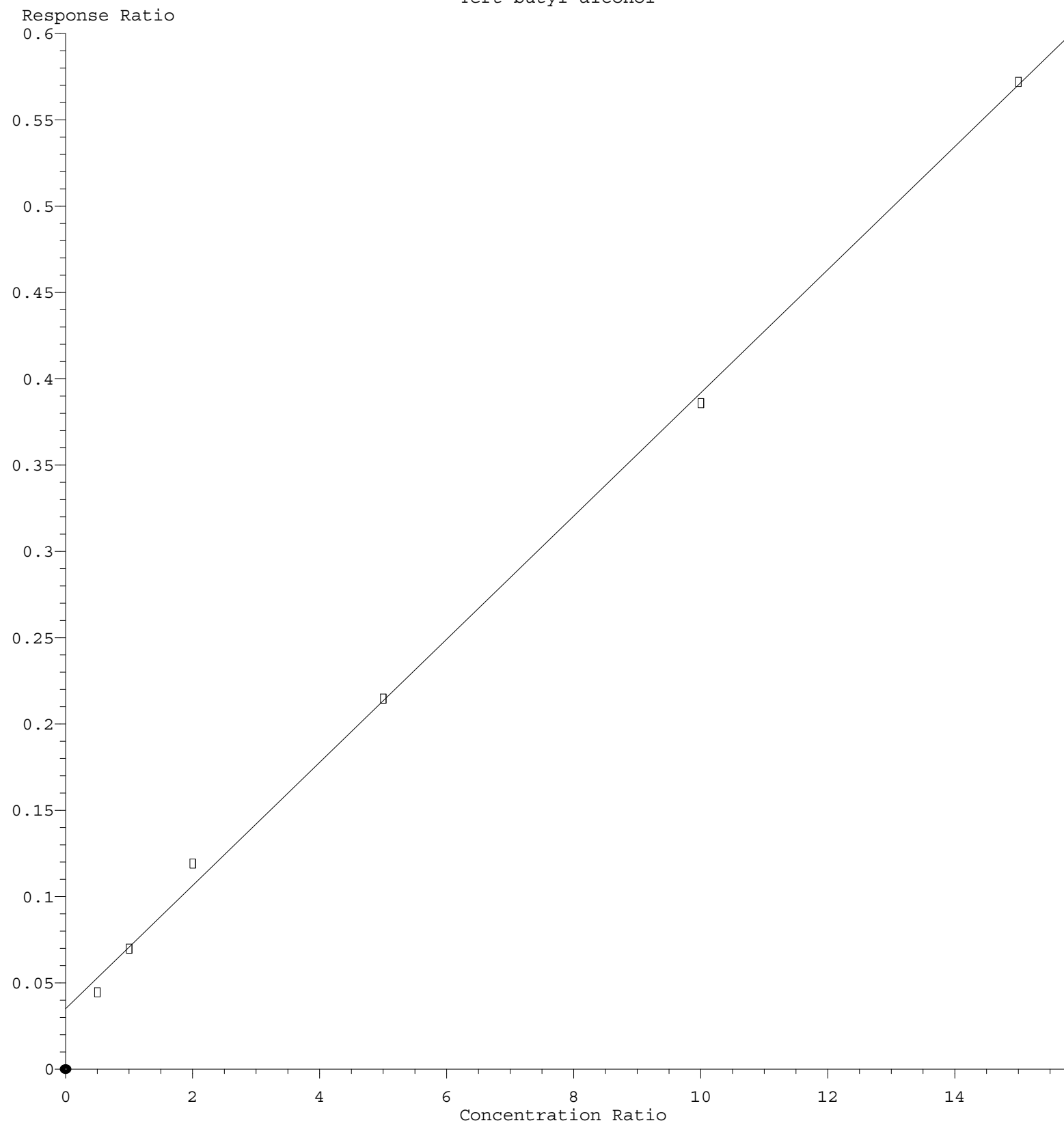
Response = 4.592e-001 * Amt + 1.181e-001
 Coef of Det (r^2) = 0.998148 Curve Fit: Linear
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Acrolein



Response = $3.468 \times 10^{-2} \times \text{Amt} + 1.484 \times 10^{-2}$
 Coef of Det (r^2) = 0.998557 Curve Fit: Linear
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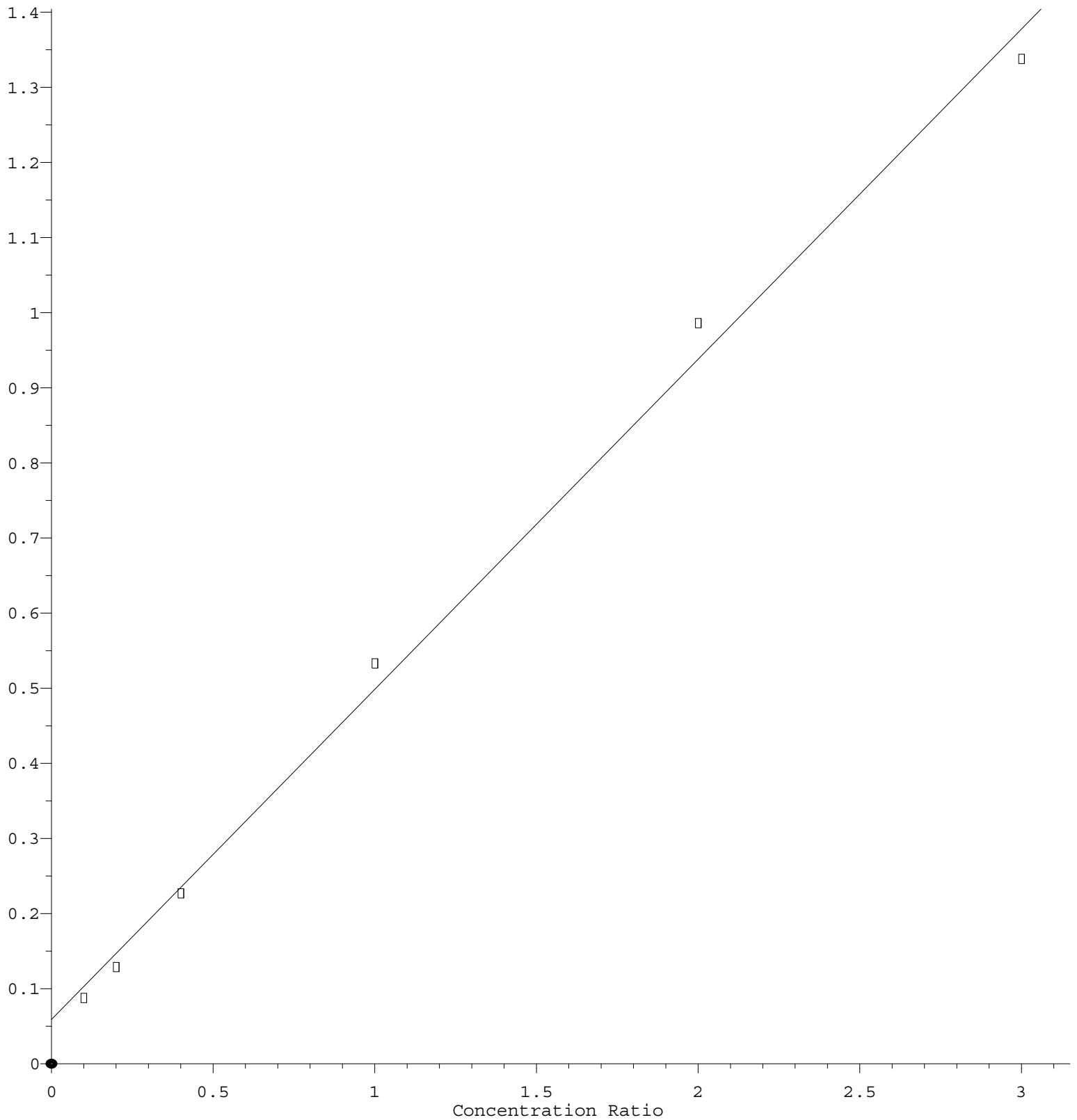
Tert butyl alcohol



Response = 3.563e-002 * Amt + 3.540e-002
 Coef of Det (r^2) = 0.998726 Curve Fit: Linear
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Bromomethane

Response Ratio



$$\text{Response} = 4.397\text{e-}001 * \text{Amt} + 5.896\text{e-}002$$

Coef of Det (r^2) = 0.995637 Curve Fit: Linear

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