

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y080824S.M
 Title : SW846 8260
 Last Update : Fri Aug 09 04:24:33 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY018924.D 10 =VY018925.D 20 =VY018926.D 50 =VY018927.D 100 =VY018928.D 150 =VY018929.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.410	0.363	0.373	0.338	0.298	0.279	0.344	14.23
3) P	Chloromethane	1.074	0.942	0.869	0.876	0.715	0.687	0.860	16.73
4) C	Vinyl Chloride	1.292	1.221	1.194	1.207	1.009	0.987	1.152	10.74#
5) T	Bromomethane	1.088	0.955	0.929	0.869	0.797	0.875	0.919	10.81
6) T	Chloroethane	0.864	0.825	0.834	0.803	0.676	0.644	0.774	11.78
7) T	Trichlorofluor...	1.671	1.586	1.613	1.523	1.399	1.418	1.535	7.11
8) T	Diethyl Ether	0.278	0.237	0.246	0.243	0.207	0.209	0.237	11.19
9) T	1,1,2-Trichlor...	0.545	0.490	0.479	0.489	0.436	0.438	0.480	8.42
10) T	Methyl Iodide	0.481	0.495	0.533	0.605	0.504	0.488	0.518	8.91
11) T	Tert butyl alc...	0.096	0.067	0.054	0.039	0.033	0.032	0.053	46.07
12) CM	1,1-Dichloroet...	0.506	0.441	0.460	0.476	0.419	0.416	0.453	7.73#
13) T	Acrolein	0.063	0.048	0.043	0.046	0.045	0.043	0.048	15.95
14) T	Allyl chloride	0.659	0.617	0.618	0.642	0.554	0.546	0.606	7.63
15) T	Acrylonitrile	0.103	0.095	0.091	0.099	0.082	0.087	0.093	8.37
16) T	Acetone	0.099	0.084	0.076	0.121	0.100	0.099	0.097	15.95
17) T	Carbon Disulfide	1.469	1.402	1.385	1.415	1.216	1.194	1.347	8.45
18) T	Methyl Acetate	0.283	0.267	0.247	0.237	0.210	0.221	0.244	11.37
19) T	Methyl tert-bu...	1.235	1.133	1.109	1.162	0.995	1.050	1.114	7.58
20) T	Methylene Chlo...	0.952	0.701	0.612	0.542	0.435	0.422	0.611	32.39
21) T	trans-1,2-Dich...	0.557	0.496	0.499	0.527	0.454	0.474	0.501	7.33
22) T	Diisopropyl ether	1.383	1.328	1.327	1.396	1.224	1.267	1.321	5.02
23) T	Vinyl Acetate	1.127	1.103	1.099	1.224	1.100	1.186	1.140	4.64
24) P	1,1-Dichloroet...	0.920	0.830	0.797	0.838	0.732	0.745	0.810	8.52
25) T	2-Butanone	0.148	0.134	0.132	0.158	0.136	0.146	0.142	7.15
26) T	2,2-Dichloropr...	0.869	0.763	0.730	0.789	0.709	0.715	0.763	7.92
27) T	cis-1,2-Dichlo...	0.659	0.596	0.610	0.621	0.548	0.564	0.600	6.70
28) T	Bromochloromet...	0.431	0.415	0.350	0.365	0.326	0.351	0.373	10.98
29) T	Tetrahydrofuran	0.094	0.083	0.084	0.086	0.075	0.081	0.084	7.52
30) C	Chloroform	0.933	0.894	0.877	0.920	0.784	0.795	0.867	7.30#
31) T	Cyclohexane	0.954	0.834	0.758	0.735	0.661	0.647	0.765	15.05
32) T	1,1,1-Trichlor...	0.823	0.792	0.770	0.831	0.735	0.751	0.784	4.91
33) S	1,2-Dichloroet...	0.477	0.437	0.412	0.438	0.435	0.435	0.439	4.77
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.354	0.295	0.297	0.317	0.320	0.332	0.319	6.97
36) T	1,1-Dichloropr...	0.477	0.412	0.420	0.426	0.404	0.433	0.429	6.02
37) T	Ethyl Acetate	0.218	0.186	0.191	0.200	0.185	0.197	0.196	6.19
38) T	Carbon Tetrach...	0.509	0.462	0.472	0.505	0.484	0.516	0.492	4.42
39) T	Methylcyclohexane	0.639	0.537	0.538	0.600	0.557	0.592	0.577	7.00
40) TM	Benzene	1.308	1.247	1.250	1.321	1.224	1.298	1.275	3.10
41) T	Methacrylonitrile	0.104	0.101	0.083	0.102	0.081	0.089	0.093	10.86
42) TM	1,2-Dichloroet...	0.325	0.312	0.315	0.328	0.303	0.321	0.317	2.86
43) T	Isopropyl Acetate	0.413	0.385	0.392	0.419	0.370	0.413	0.398	4.82
44) TM	Trichloroethene	0.399	0.371	0.355	0.367	0.334	0.354	0.363	6.00
45) C	1,2-Dichloropr...	0.304	0.285	0.275	0.296	0.268	0.283	0.285	4.74#
46) T	Dibromomethane	0.180	0.181	0.182	0.195	0.176	0.191	0.184	3.99
47) T	Bromodichlorom...	0.440	0.428	0.428	0.452	0.401	0.438	0.431	4.02
48) T	Methyl methacr...	0.194	0.162	0.157	0.181	0.165	0.186	0.174	8.65
49) T	1,4-Dioxane	0.003	0.002	0.002	0.002	0.002	0.002	0.002	11.72
50) S	Toluene-d8	1.275	1.137	1.152	1.208	1.276	1.312	1.227	5.88
51) T	4-Methyl-2-Pen...	0.201	0.188	0.194	0.217	0.204	0.228	0.206	7.18
52) CM	Toluene	0.868	0.782	0.835	0.872	0.834	0.889	0.847	4.57#
53) T	t-1,3-Dichloro...	0.384	0.350	0.366	0.410	0.380	0.417	0.385	6.64
54) T	cis-1,3-Dichlo...	0.457	0.440	0.428	0.484	0.444	0.487	0.457	5.27
55) T	1,1,2-Trichlor...	0.230	0.226	0.225	0.239	0.207	0.231	0.226	4.74
56) T	Ethyl methacry...	0.306	0.294	0.292	0.322	0.294	0.330	0.306	5.28

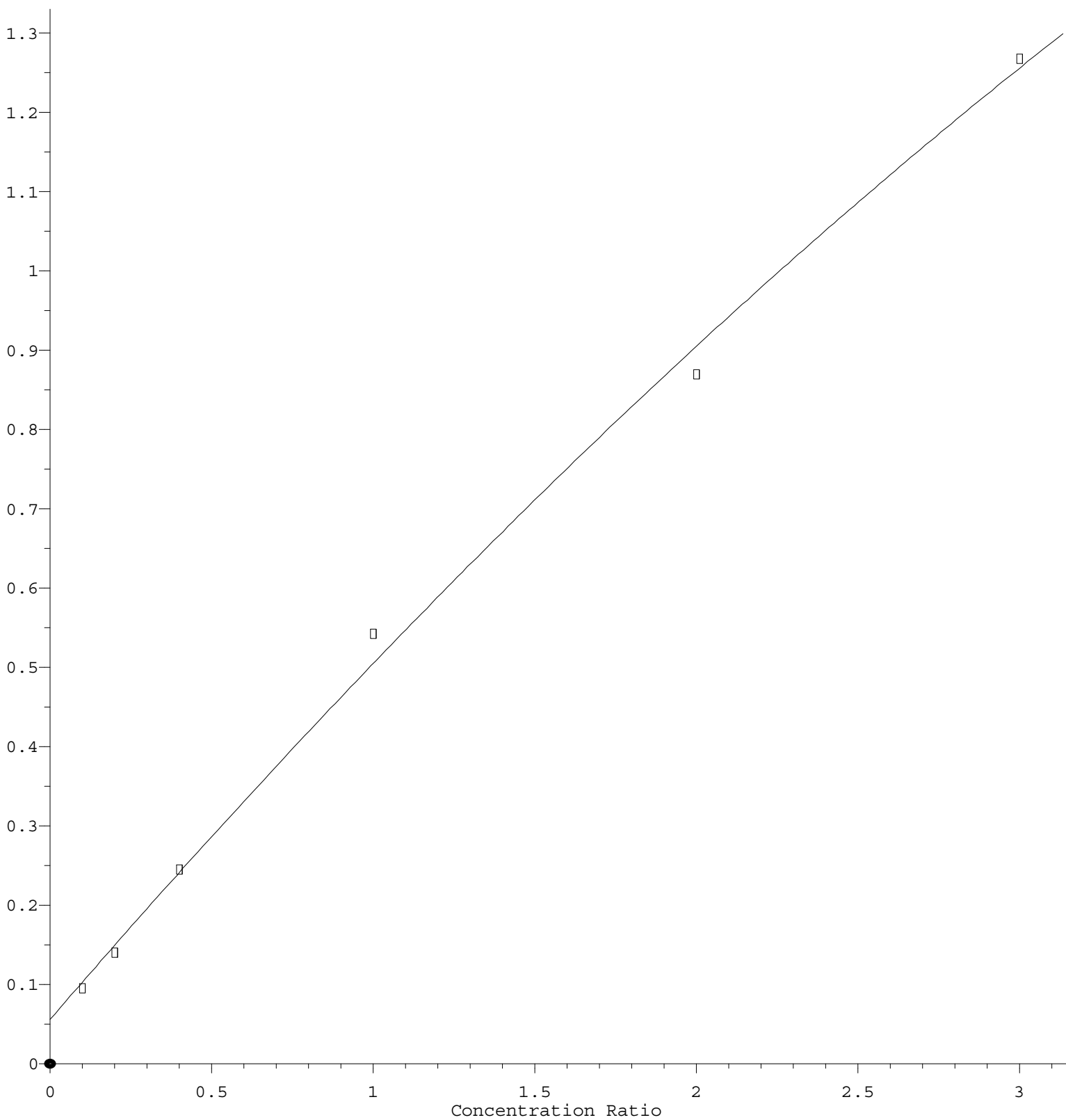
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57)	T	1,3-Dichloropr...	0.385	0.359	0.369	0.393	0.355	0.374	0.373	3.92
58)	T	2-Chloroethyl ...	0.152	0.143	0.136	0.157	0.171	0.188	0.158	12.04
59)	T	2-Hexanone	0.144	0.128	0.135	0.162	0.150	0.166	0.147	10.05
60)	T	Dibromochlorom...	0.292	0.285	0.294	0.324	0.297	0.329	0.303	6.00
61)	T	1,2-Dibromoethane	0.235	0.217	0.212	0.224	0.203	0.220	0.219	4.96
62)	S	4-Bromofluorob...	0.431	0.331	0.316	0.351	0.370	0.385	0.364	11.31
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.435	0.412	0.425	0.442	0.405	0.396	0.419	4.29
65)	PM	Chlorobenzene	1.112	1.050	1.108	1.172	1.078	1.067	1.098	3.97
66)	T	1,1,1,2-Tetrac...	0.391	0.334	0.382	0.406	0.384	0.406	0.384	6.87
67)	C	Ethyl Benzene	1.835	1.710	1.862	2.024	1.964	2.010	1.901	6.37#
68)	T	m/p-Xylenes	0.753	0.713	0.750	0.824	0.814	0.822	0.779	6.04
69)	T	o-Xylene	0.683	0.669	0.707	0.764	0.736	0.757	0.719	5.43
70)	T	Styrene	1.092	1.019	1.136	1.327	1.253	1.283	1.185	10.19
71)	P	Bromoform	0.195	0.186	0.196	0.214	0.200	0.207	0.200	4.88
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.859	3.450	3.700	3.714	3.495	3.559	3.629	4.27
74)	T	N-amyl acetate	0.819	0.787	0.841	0.890	0.816	0.871	0.838	4.55
75)	P	1,1,2,2-Tetrac...	0.654	0.559	0.595	0.603	0.550	0.554	0.586	6.85
76)	T	1,2,3-Trichlor...	0.424	0.364	0.382	0.389	0.333	0.343	0.372	8.85
77)	T	Bromobenzene	0.863	0.828	0.872	0.867	0.816	0.827	0.845	2.91
78)	T	n-propylbenzene	4.649	4.046	4.208	4.439	4.196	4.235	4.296	4.98
79)	T	2-Chlorotoluene	2.304	2.157	2.269	2.292	2.124	2.198	2.224	3.39
80)	T	1,3,5-Trimethy...	2.965	2.686	2.785	2.952	2.795	2.882	2.844	3.81
81)	T	trans-1,4-Dich...	0.183	0.173	0.179	0.185	0.180	0.186	0.181	2.62
82)	T	4-Chlorotoluene	2.341	2.204	2.281	2.357	2.208	2.270	2.277	2.81
83)	T	tert-Butylbenzene	2.858	2.583	2.620	2.855	2.602	2.601	2.686	4.92
84)	T	1,2,4-Trimethy...	2.970	2.721	2.748	3.040	2.868	2.965	2.885	4.48
85)	T	sec-Butylbenzene	4.187	3.660	3.819	4.028	3.822	3.832	3.891	4.78
86)	T	p-Isopropyltol...	3.296	3.019	3.265	3.639	3.447	3.550	3.370	6.64
87)	T	1,3-Dichlorobe...	1.772	1.578	1.648	1.835	1.713	1.817	1.727	5.82
88)	T	1,4-Dichlorobe...	1.834	1.687	1.652	1.746	1.576	1.611	1.684	5.60
89)	T	n-Butylbenzene	3.093	2.762	2.880	3.176	2.906	2.929	2.958	5.10
90)	T	Hexachloroethane	0.687	0.596	0.619	0.671	0.613	0.629	0.636	5.59
91)	T	1,2-Dichlorobe...	1.512	1.343	1.429	1.510	1.341	1.384	1.420	5.46
92)	T	1,2-Dibromo-3-...	0.091	0.092	0.083	0.077	0.067	0.073	0.081	12.02
93)	T	1,2,4-Trichlor...	0.799	0.729	0.798	0.824	0.746	0.795	0.782	4.65
94)	T	Hexachlorobuta...	0.486	0.411	0.430	0.457	0.390	0.398	0.429	8.57
95)	T	Naphthalene	1.401	1.255	1.419	1.462	1.335	1.480	1.392	6.07
96)	T	1,2,3-Trichlor...	0.687	0.662	0.670	0.709	0.623	0.675	0.671	4.24

(#) = Out of Range

Methylene Chloride

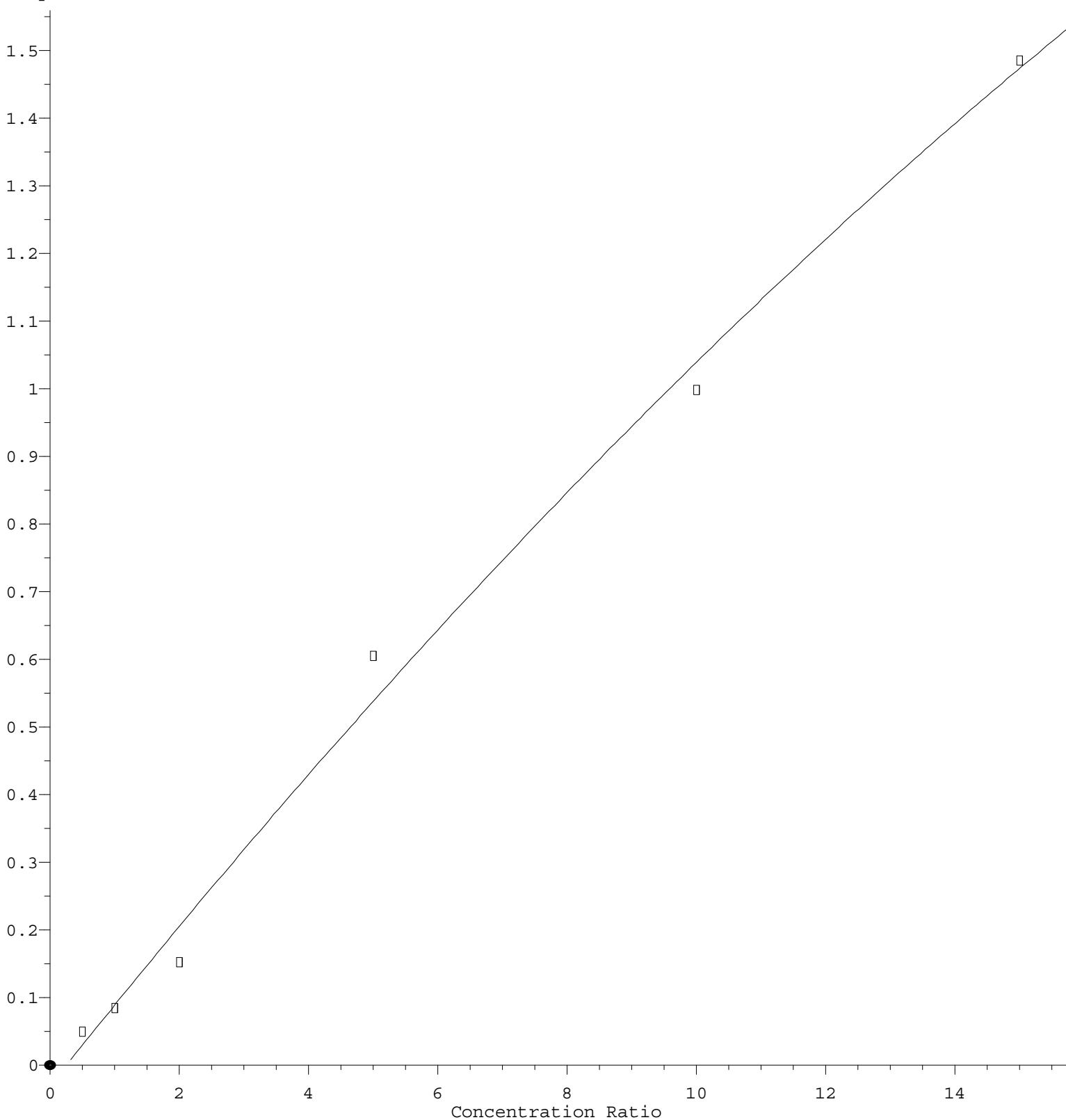
Response Ratio



$R = -2.454e-002 A^2 + 4.736e-001 A + 5.579e-002$
 Coef of Det (r^2) = 0.997276 Curve Fit: Quadratic
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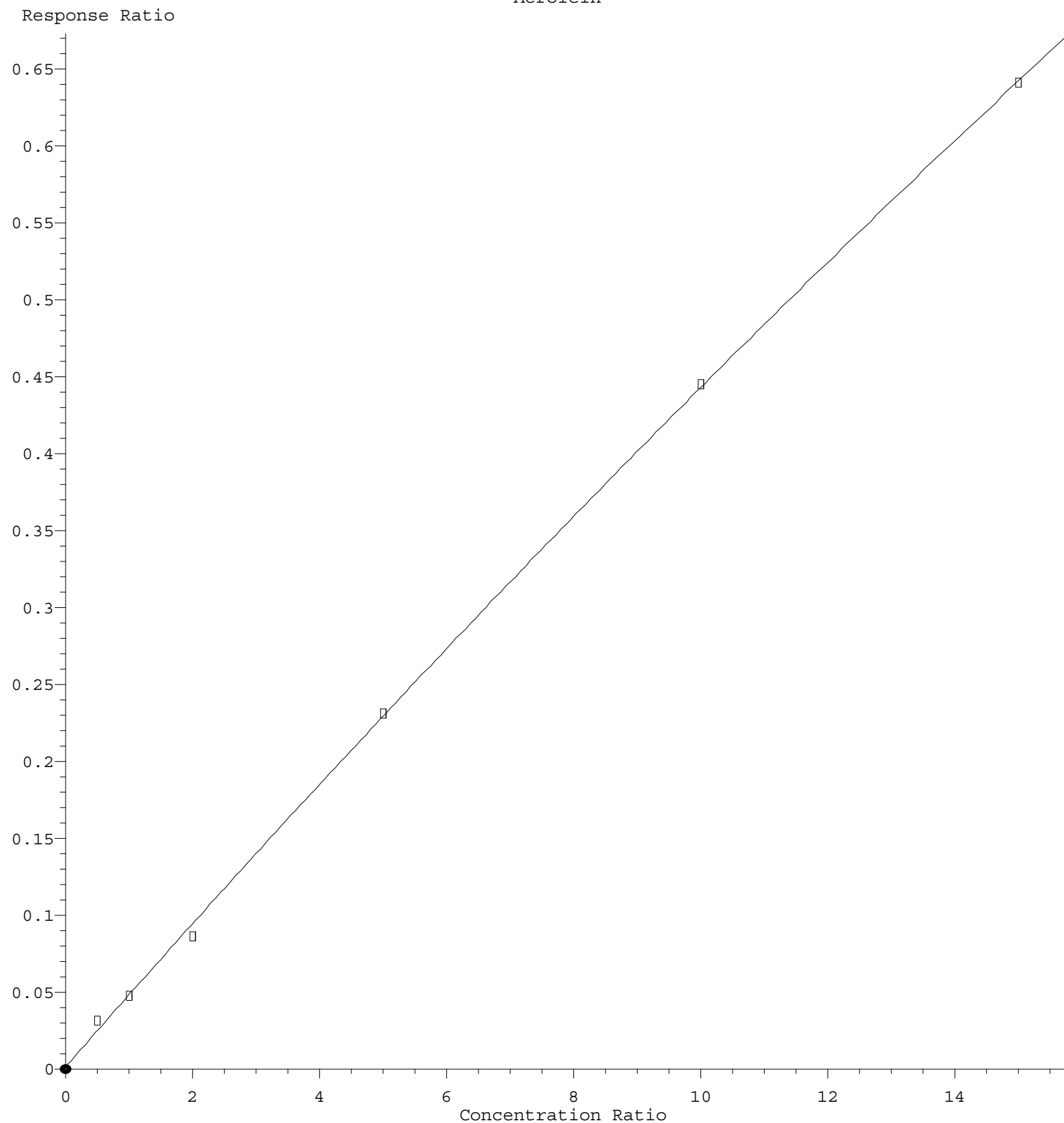
Acetone

Response Ratio



$R = -1.338e-003 A^2 + 1.203e-001 A - 3.005e-002$
 Coef of Det (r^2) = 0.994399 Curve Fit: Quadratic
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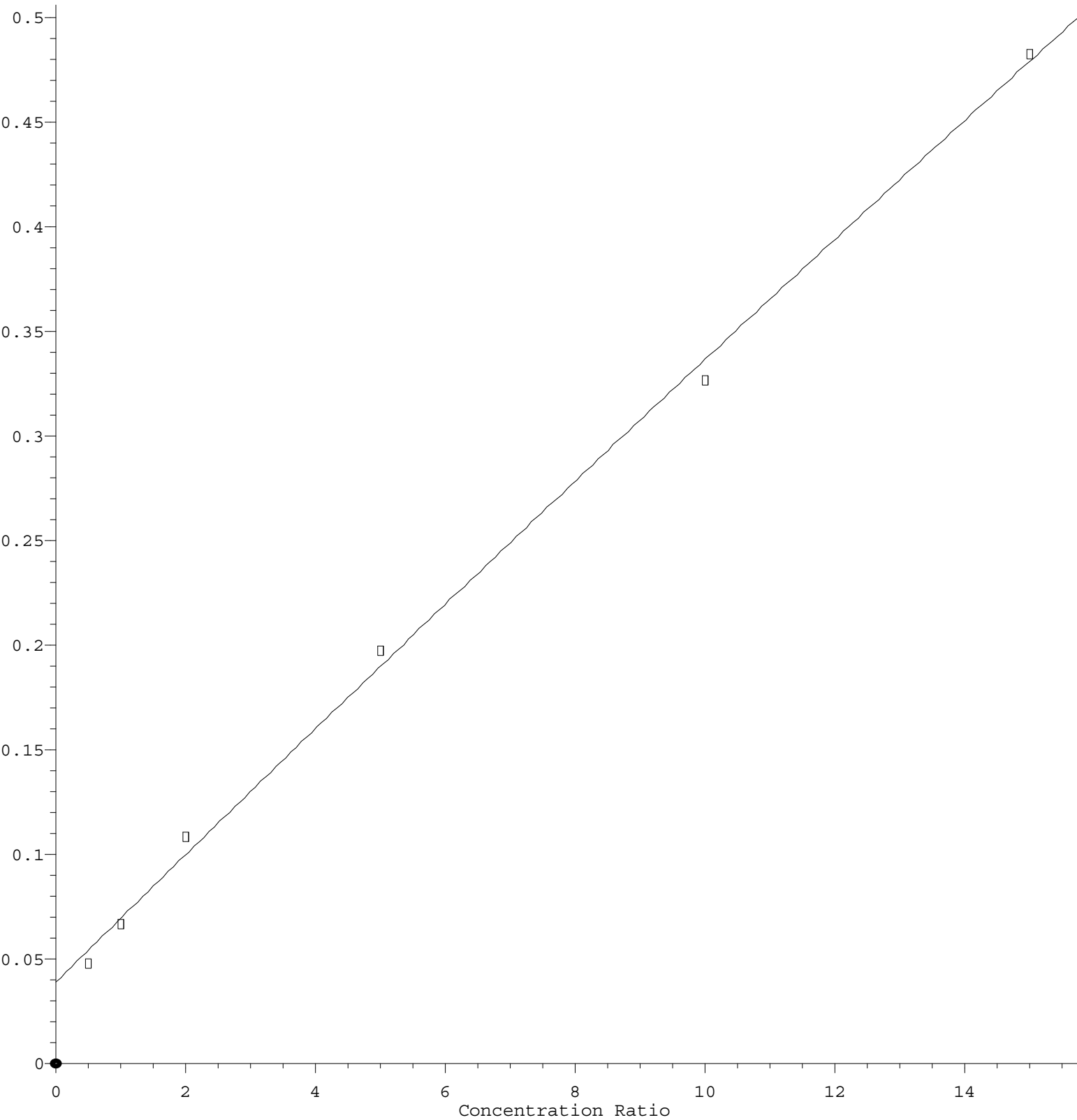
Acrolein



$R = -2.899e-004 A^2 + 4.704e-002 A + 1.653e-003$
 Coef of Det (r^2) = 0.999616 Curve Fit: Quadratic
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Tert butyl alcohol

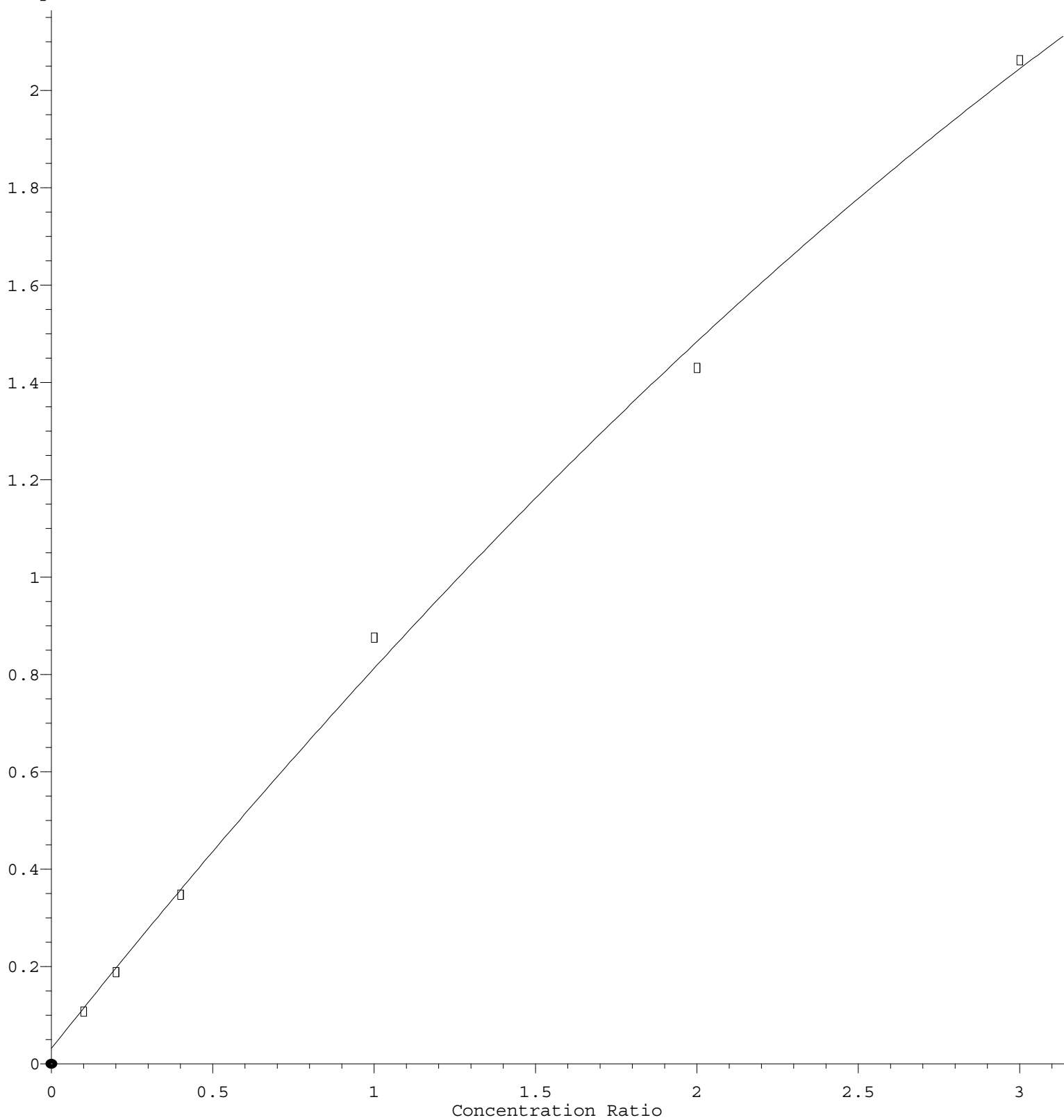
Response Ratio



$R = -8.575e-005 A^2 + 3.062e-002 A + 3.899e-002$
 Coef of Det (r^2) = 0.997998 Curve Fit: Quadratic
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Chloromethane

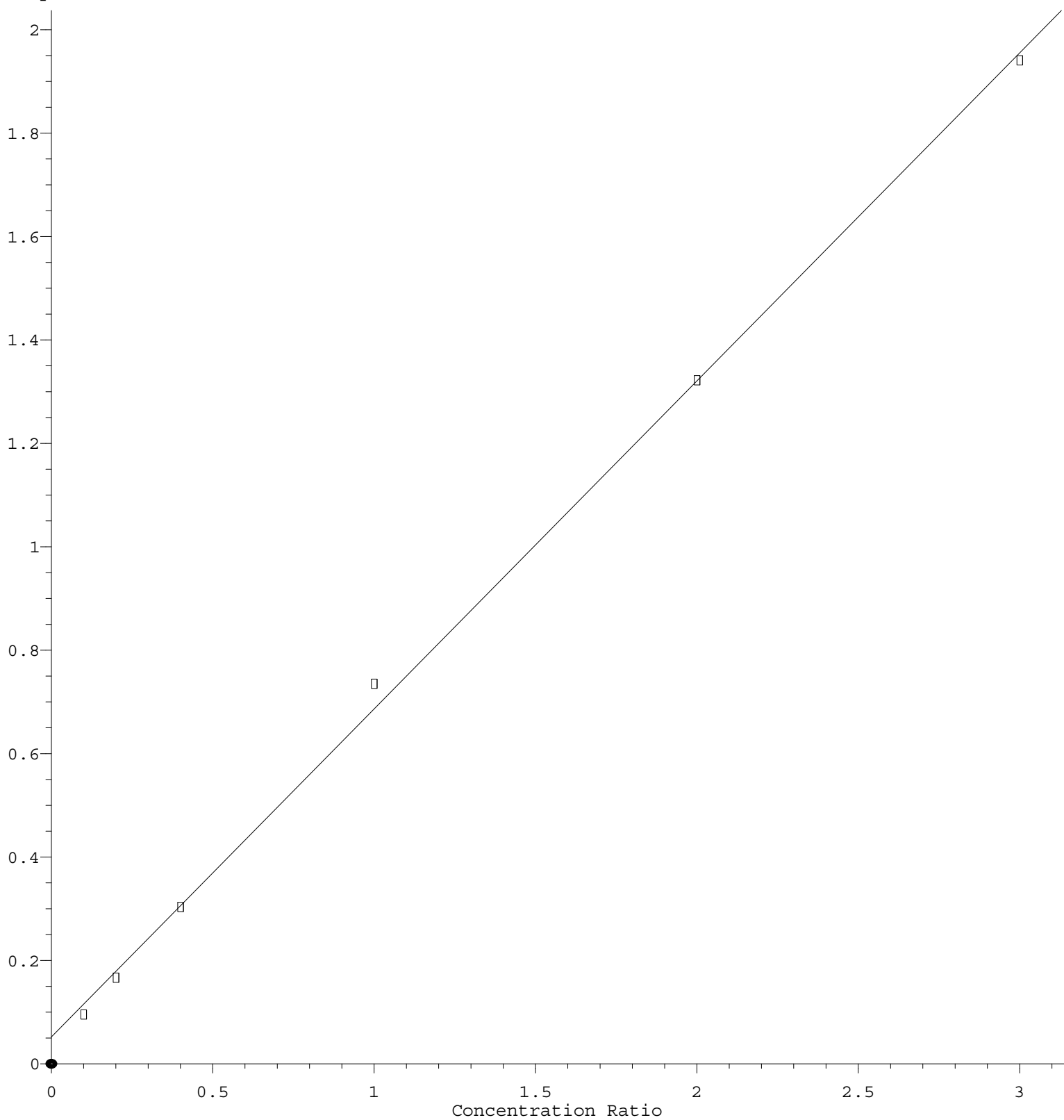
Response Ratio



$R = -5.507e-002 A^2 + 8.361e-001 A + 3.181e-002$
Coef of Det (r^2) = 0.997575 Curve Fit: Quadratic
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Cyclohexane

Response Ratio



$$\text{Response} = 6.346\text{e-}001 * \text{Amt} + 5.191\text{e-}002$$

Coef of Det (r^2) = 0.998844 Curve Fit: Linear

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