

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
 Method File : 82D110222S.M
 Title : SW846 8260
 Last Update : Thu Nov 03 02:30:45 2022
 Response Via : Initial Calibration

Calibration Files

10 =VD074700.D 5 =VD074699.D 20 =VD074701.D 50 =VD074702.D 100 =VD074703.D 150 =VD074704.D

	Compound	10	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.436	0.487	0.418	0.374	0.373	0.377	0.411	11.10
3) P	Chloromethane	0.733	0.775	0.641	0.618	0.595	0.569	0.655	12.41
4) C	Vinyl Chloride	0.720	0.759	0.690	0.711	0.721	0.710	0.719	3.15#
5) T	Bromomethane	0.553	0.665	0.514	0.484	0.516	0.535	0.545	11.62
6) T	Chloroethane	0.498	0.522	0.492	0.490	0.493	0.494	0.498	2.39
7) T	Trichlorofluor...	0.815	0.851	0.823	0.831	0.839	0.850	0.835	1.78
8) T	Diethyl Ether	0.237	0.256	0.229	0.242	0.250	0.249	0.244	4.10
9) T	1,1,2-Trichlor...	0.543	0.553	0.503	0.517	0.531	0.536	0.530	3.41
10) T	Methyl Iodide	0.405	0.426	0.468	0.642	0.732	0.751	0.571	27.40
11) T	Tert butyl alc...	0.095	0.158	0.067	0.037	0.034	0.030	0.070	70.75
12) CM	1,1-Dichloroet...	0.526	0.529	0.516	0.548	0.557	0.557	0.539	3.23#
13) T	Acrolein	0.032	0.022	0.031	0.026	0.026	0.026	0.027	14.06
14) T	Allyl chloride	0.541	0.561	0.559	0.574	0.595	0.589	0.570	3.58
15) T	Acrylonitrile	0.098	0.094	0.090	0.097	0.102	0.098	0.096	4.07
16) T	Acetone	0.078	0.090	0.079	0.084	0.086	0.078	0.083	6.25
17) T	Carbon Disulfide	1.542	1.696	1.522	1.655	1.664	1.666	1.624	4.48
18) T	Methyl Acetate	0.270	0.293	0.248	0.225	0.237	0.226	0.250	10.90
19) T	Methyl tert-bu...	1.000	0.999	0.957	1.043	1.075	1.072	1.024	4.58
20) T	Methylene Chlo...	1.398	2.132	0.921	0.688	0.630	0.599	1.061	56.81
21) T	trans-1,2-Dich...	0.590	0.604	0.544	0.598	0.605	0.612	0.592	4.20
22) T	Diisopropyl ether	1.146	1.112	1.143	1.234	1.221	1.202	1.176	4.18
23) T	Vinyl Acetate	0.422	0.500	0.436	0.504	0.555	0.584	0.500	12.75
24) P	1,1-Dichloroet...	0.915	0.944	0.872	0.892	0.888	0.887	0.900	2.86
25) T	2-Butanone	0.113	0.123	0.108	0.112	0.117	0.108	0.114	5.03
26) T	2,2-Dichloropr...	0.844	0.925	0.776	0.805	0.807	0.811	0.828	6.28
27) T	cis-1,2-Dichlo...	0.648	0.666	0.621	0.656	0.663	0.664	0.653	2.61
28) T	Bromochloromet...	0.283	0.305	0.281	0.279	0.279	0.276	0.284	3.71
29) T	Tetrahydrofuran	0.063	0.061	0.065	0.067	0.070	0.066	0.065	4.88
30) C	Chloroform	0.986	1.015	0.924	0.955	0.945	0.942	0.961	3.47#
31) T	Cyclohexane	0.810	0.869	0.755	0.787	0.798	0.791	0.802	4.71
32) T	1,1,1-Trichlor...	0.842	0.855	0.833	0.851	0.856	0.859	0.849	1.19
33) S	1,2-Dichloroet...	0.430	0.458	0.417	0.371	0.375	0.324	0.396	12.22
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.300	0.313	0.287	0.275	0.285	0.314	0.296	5.33
36) T	1,1-Dichloropr...	0.437	0.422	0.428	0.457	0.465	0.484	0.449	5.33
37) T	Ethyl Acetate	0.143	0.150	0.140	0.149	0.151	0.165	0.150	5.85
38) T	Carbon Tetrach...	0.392	0.383	0.410	0.430	0.445	0.492	0.425	9.38
39) T	Methylcyclohexane	0.503	0.488	0.524	0.575	0.583	0.605	0.546	8.73
40) TM	Benzene	1.307	1.293	1.313	1.341	1.366	1.343	1.327	2.05
41) T	Methacrylonitrile	0.065	0.066	0.078	0.083	0.087	0.096	0.079	15.59
42) TM	1,2-Dichloroet...	0.305	0.310	0.290	0.306	0.313	0.306	0.305	2.54
43) T	Isopropyl Acetate	0.274	0.268	0.268	0.278	0.292	0.291	0.279	3.83
44) TM	Trichloroethene	0.379	0.365	0.362	0.381	0.394	0.387	0.378	3.22
45) C	1,2-Dichloropr...	0.298	0.292	0.287	0.303	0.279	0.301	0.293	3.17#
46) T	Dibromomethane	0.170	0.175	0.168	0.175	0.159	0.173	0.170	3.54
47) T	Bromodichlorom...	0.411	0.404	0.409	0.428	0.384	0.421	0.409	3.75
48) T	Methyl methacr...	0.128	0.107	0.121	0.132	0.125	0.133	0.124	7.67
49) T	1,4-Dioxane	0.002	0.001	0.002	0.002	0.002	0.002	0.002	12.95
50) S	Toluene-d8	1.154	1.148	1.154	0.950	0.983	1.083	1.079	8.48
51) T	4-Methyl-2-Pen...	0.135	0.121	0.135	0.139	0.136	0.143	0.135	5.53
52) CM	Toluene	0.828	0.776	0.819	0.782	0.793	0.876	0.812	4.61#
53) T	t-1,3-Dichloro...	0.353	0.348	0.354	0.347	0.361	0.409	0.362	6.43
54) T	cis-1,3-Dichlo...	0.428	0.425	0.448	0.478	0.448	0.498	0.454	6.27
55) T	1,1,2-Trichlor...	0.237	0.245	0.234	0.214	0.217	0.238	0.231	5.36
56) T	Ethyl methacry...	0.252	0.238	0.249	0.251	0.272	0.289	0.258	7.16

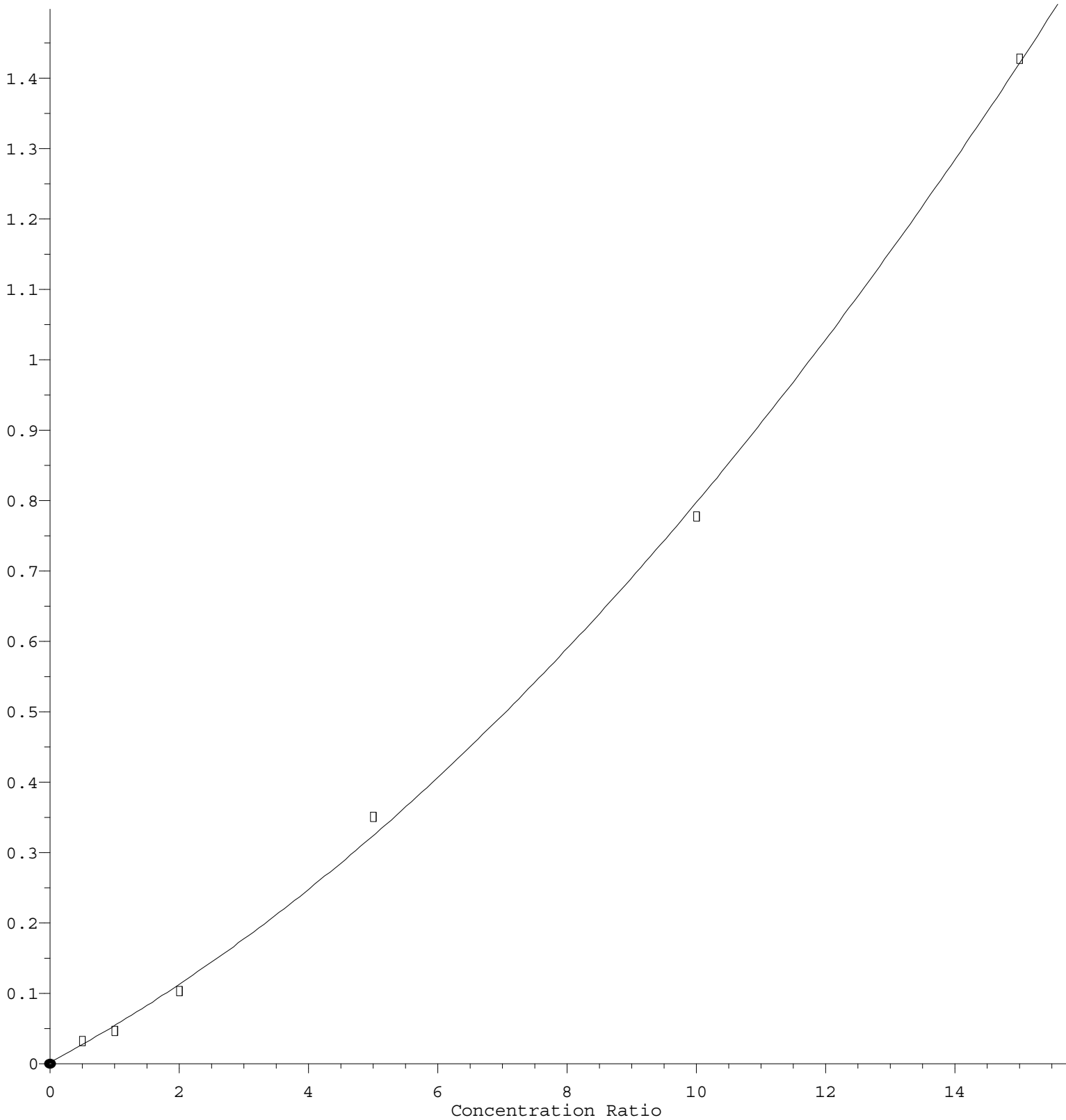
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57)	T	1,3-Dichloropr...	0.384	0.374	0.375	0.349	0.359	0.392	0.372	4.22
58)	T	2-Chloroethyl ...	0.047	0.065	0.052	0.070	0.078	0.095	0.068	26.21
59)	T	2-Hexanone	0.091	0.085	0.095	0.091	0.096	0.100	0.093	5.77
60)	T	Dibromochlorom...	0.281	0.283	0.284	0.254	0.264	0.288	0.276	4.85
61)	T	1,2-Dibromoethane	0.221	0.229	0.218	0.202	0.209	0.227	0.218	4.79
62)	S	4-Bromofluorob...	0.329	0.339	0.293	0.288	0.296	0.325	0.312	7.00
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.355	0.360	0.352	0.343	0.355	0.354	0.353	1.58
65)	PM	Chlorobenzene	0.992	0.994	0.891	1.013	1.033	1.018	0.990	5.14
66)	T	1,1,1,2-Tetrac...	0.333	0.334	0.288	0.349	0.355	0.355	0.336	7.54
67)	C	Ethyl Benzene	1.656	1.689	1.546	1.857	1.881	1.900	1.755	8.25#
68)	T	m/p-Xylenes	0.667	0.644	0.617	0.737	0.751	0.763	0.697	8.81
69)	T	o-Xylene	0.596	0.578	0.569	0.687	0.706	0.706	0.640	10.29
70)	T	Styrene	1.018	0.982	0.981	1.156	1.180	1.194	1.085	9.40
71)	P	Bromoform	0.178	0.174	0.160	0.188	0.192	0.187	0.180	6.49
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.301	3.335	3.555	3.793	3.920	4.015	3.653	8.27
74)	T	N-amyl acetate	0.530	0.541	0.577	0.613	0.660	0.639	0.593	8.90
75)	P	1,1,2,2-Tetrac...	0.601	0.610	0.604	0.611	0.642	0.614	0.614	2.40
76)	T	1,2,3-Trichlor...	0.394	0.381	0.382	0.394	0.396	0.380	0.388	1.93
77)	T	Bromobenzene	0.817	0.819	0.809	0.848	0.876	0.878	0.841	3.66
78)	T	n-propylbenzene	4.053	3.944	4.293	4.566	4.691	4.710	4.376	7.55
79)	T	2-Chlorotoluene	2.228	2.221	2.291	2.424	2.492	2.483	2.356	5.31
80)	T	1,3,5-Trimethy...	2.700	2.734	2.910	3.126	3.188	3.223	2.980	7.75
81)	T	trans-1,4-Dich...	0.130	0.163	0.149	0.168	0.184	0.186	0.163	13.05
82)	T	4-Chlorotoluene	2.269	2.393	2.431	2.499	2.567	2.547	2.451	4.54
83)	T	tert-Butylbenzene	2.316	2.327	2.596	2.754	2.858	2.908	2.626	9.87
84)	T	1,2,4-Trimethy...	2.679	2.602	2.877	3.066	3.178	3.243	2.941	9.01
85)	T	sec-Butylbenzene	3.681	3.576	3.904	4.087	4.246	4.282	3.962	7.40
86)	T	p-Isopropyltol...	3.046	2.966	3.190	3.444	3.634	3.744	3.337	9.56
87)	T	1,3-Dichlorobe...	1.678	1.714	1.664	1.743	1.805	1.860	1.744	4.36
88)	T	1,4-Dichlorobe...	1.686	1.784	1.633	1.714	1.728	1.742	1.715	3.00
89)	T	n-Butylbenzene	2.787	2.835	2.909	3.182	3.265	3.335	3.052	7.75
90)	T	Hexachloroethane	0.528	0.536	0.539	0.594	0.613	0.623	0.572	7.40
91)	T	1,2-Dichlorobe...	1.463	1.522	1.418	1.490	1.516	1.505	1.486	2.65
92)	T	1,2-Dibromo-3-...	0.083	0.074	0.093	0.083	0.089	0.087	0.085	7.44
93)	T	1,2,4-Trichlor...	0.871	0.886	0.855	0.914	0.982	0.995	0.917	6.40
94)	T	Hexachlorobuta...	0.447	0.479	0.433	0.484	0.509	0.527	0.480	7.46
95)	T	Naphthalene	1.594	1.548	1.643	1.839	1.977	1.971	1.762	10.89
96)	T	1,2,3-Trichlor...	0.784	0.769	0.761	0.802	0.859	0.867	0.807	5.66

(#) = Out of Range

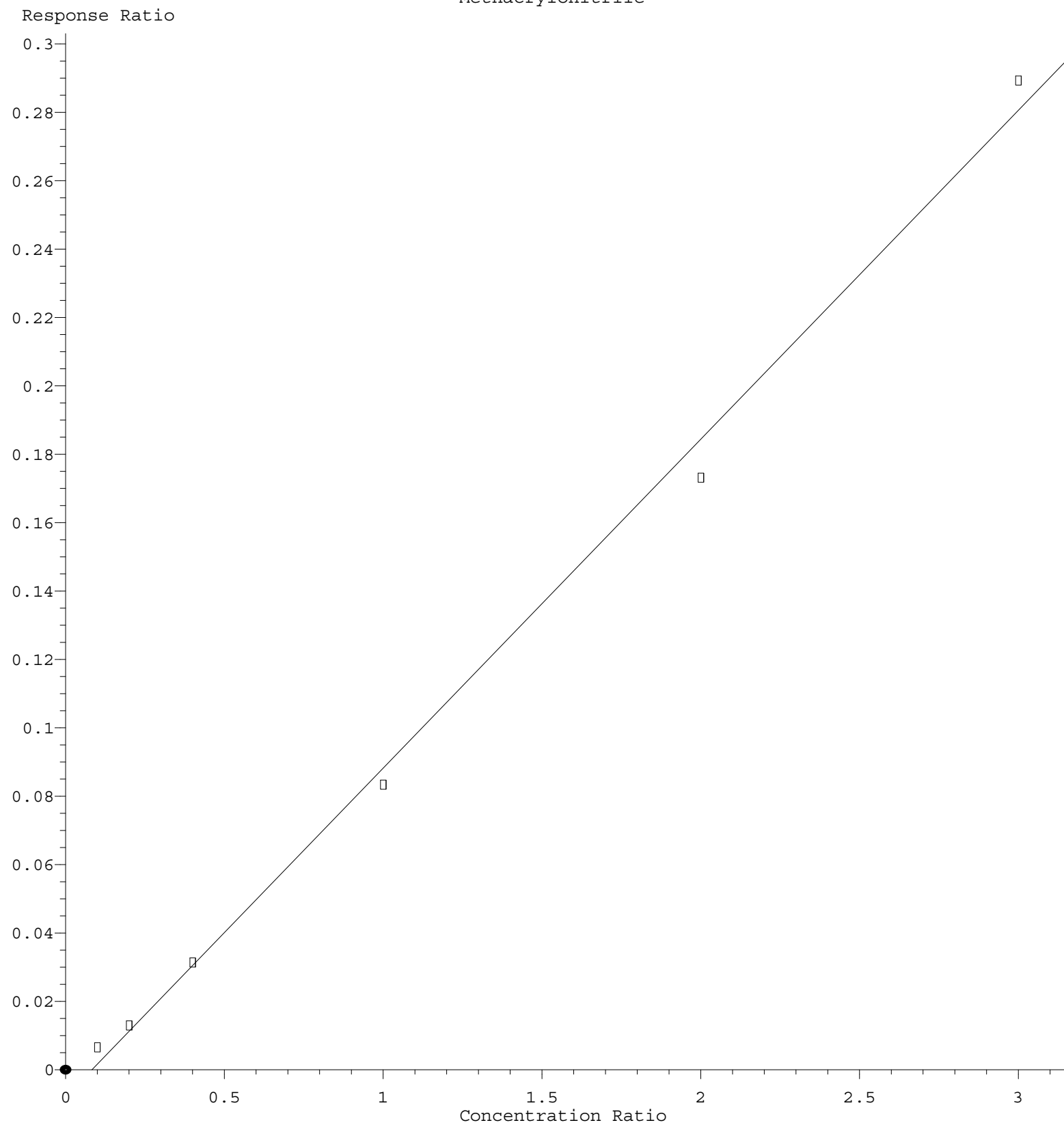
2-Chloroethyl Vinyl ether

Response Ratio



$R = 3.017e-003 A^2 + 4.936e-002 A + 2.068e-003$
 Coef of Det (r^2) = 0.999145 Curve Fit: Quadratic
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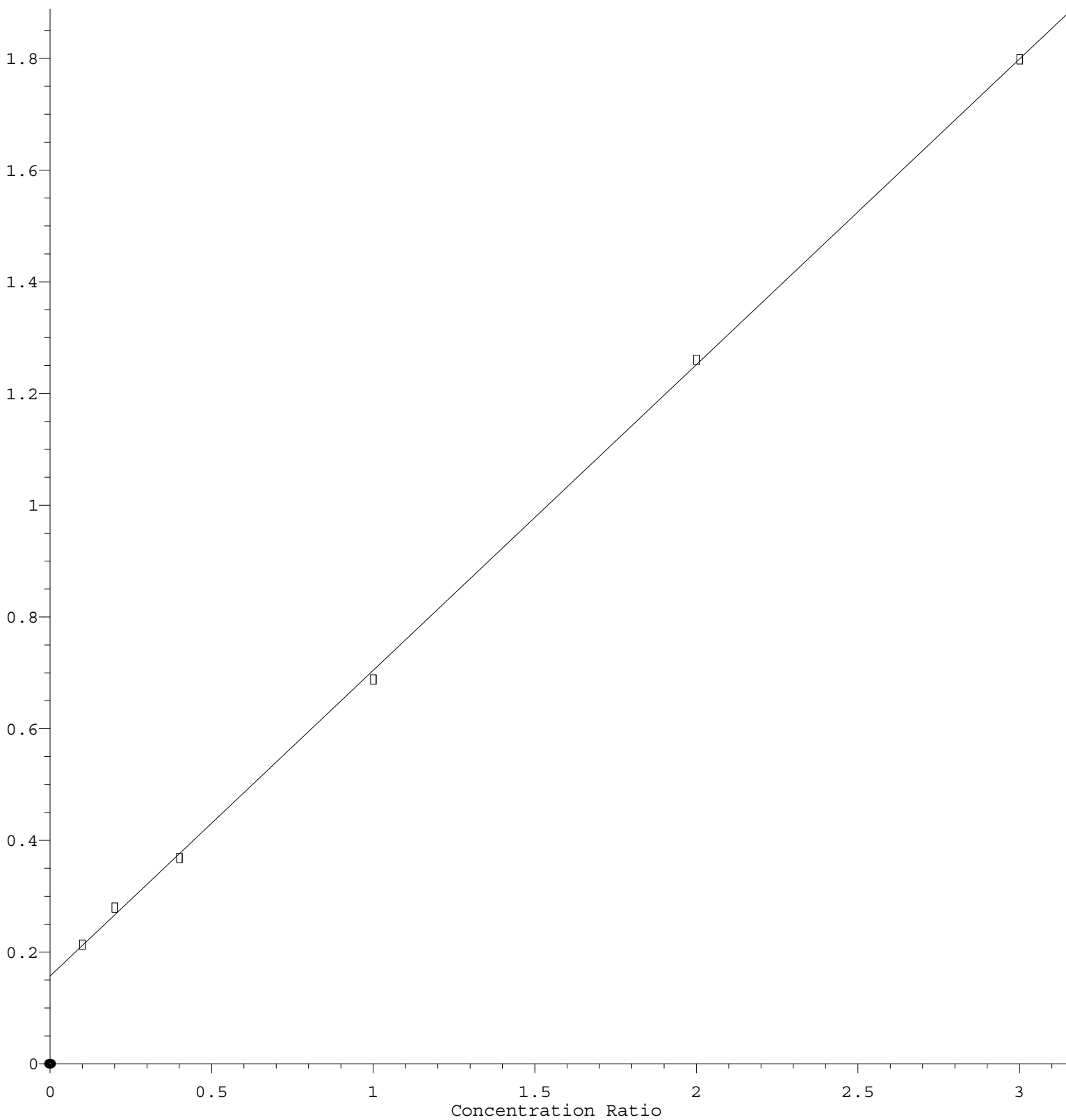
Methacrylonitrile



Response = $9.616 \times 10^{-2} \times \text{Amt} - 7.934 \times 10^{-3}$
Coef of Det (r^2) = 0.995945 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA D\Method\82D110222S.M
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Methylene Chloride

Response Ratio



$$\text{Response} = 5.473\text{e-}001 * \text{Amt} + 1.568\text{e-}001$$

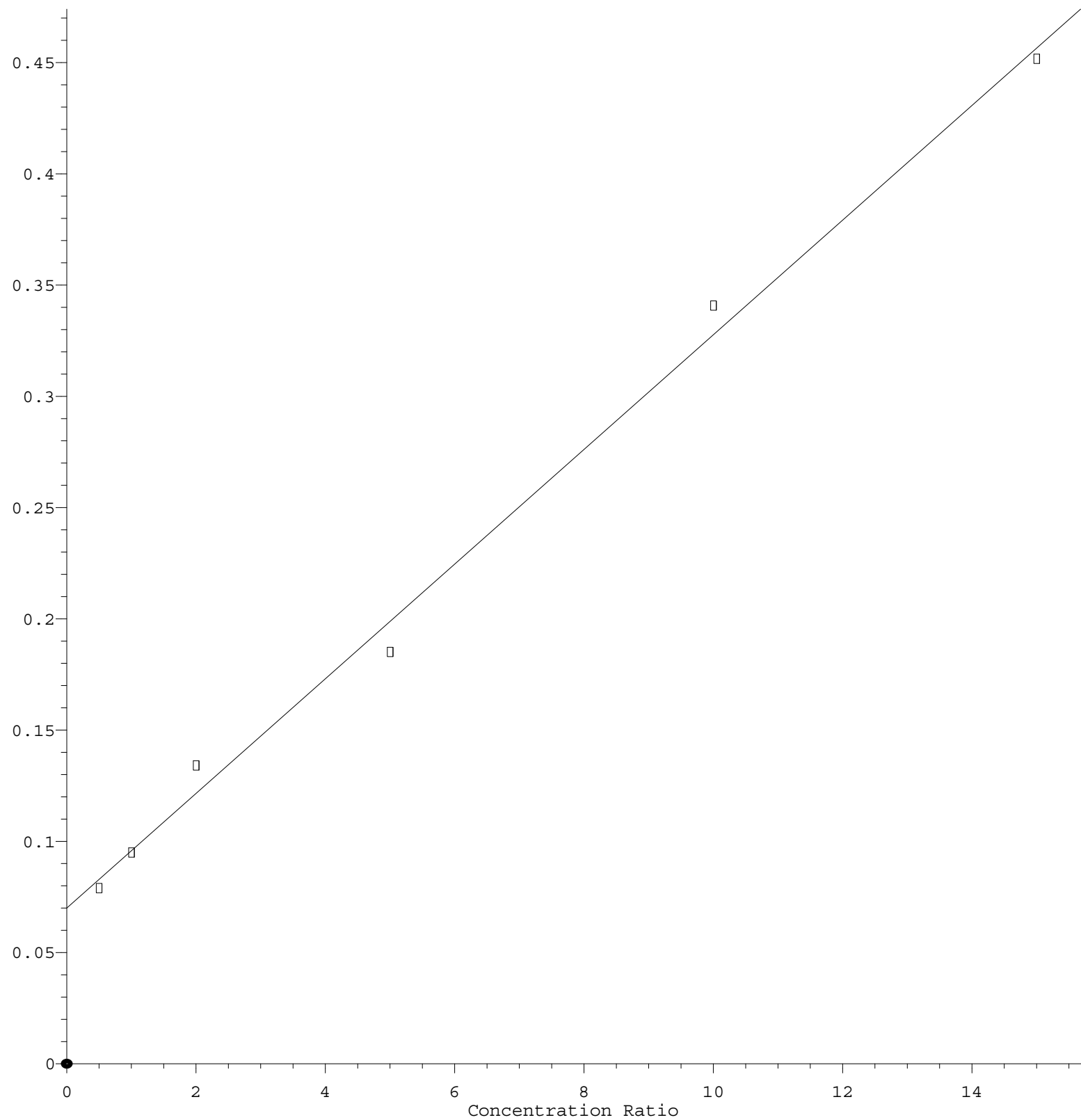
Coef of Det (r^2) = 0.999720 Curve Fit: Linear

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Tert butyl alcohol

Response Ratio



$$\text{Response} = 2.577\text{e-}002 * \text{Amt} + 7.041\text{e-}002$$

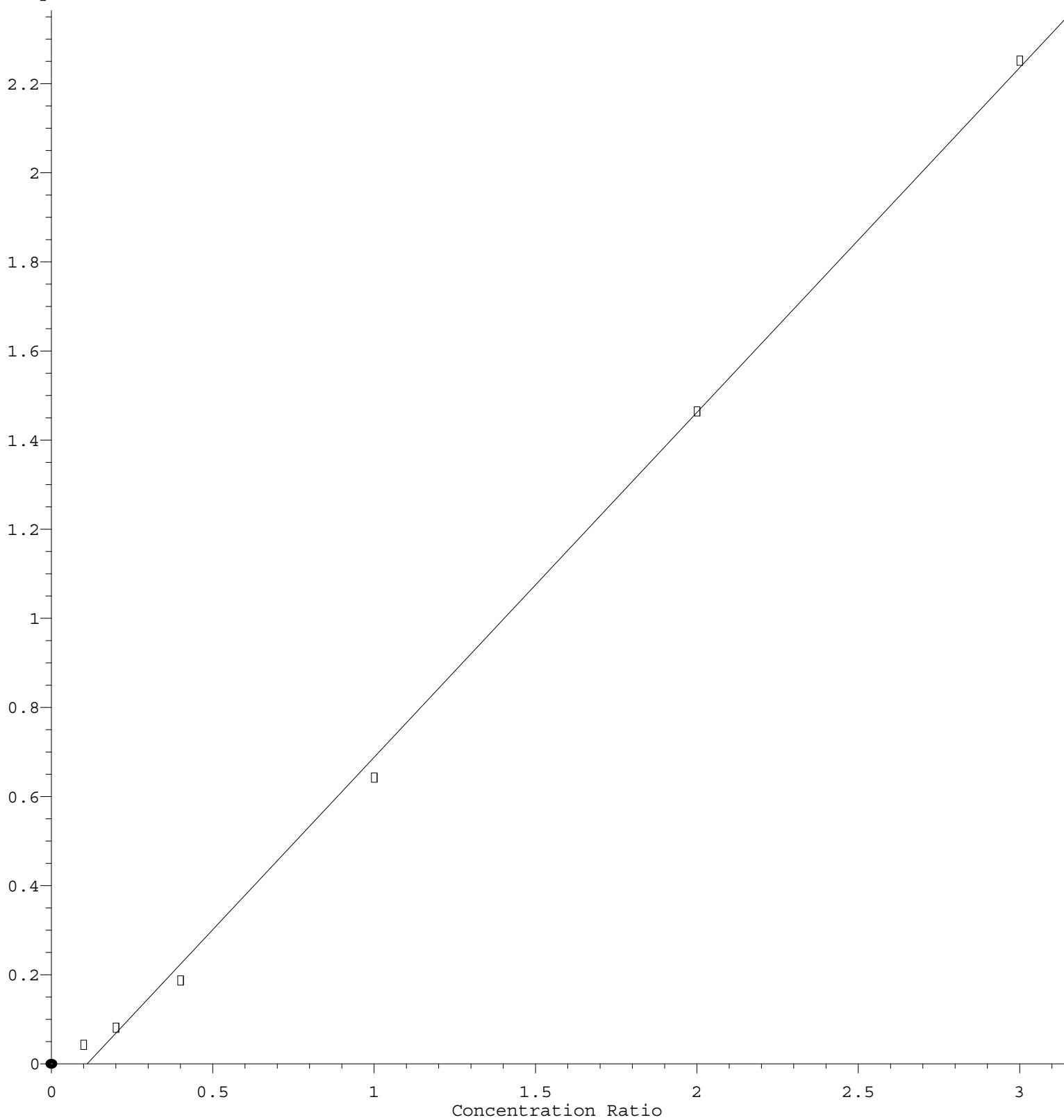
Coef of Det (r^2) = 0.995049 Curve Fit: Linear

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Methyl Iodide

Response Ratio



Response = $7.739 \times 10^{-2} \times \text{Amt} - 8.601 \times 10^{-2}$
Coef of Det (r^2) = 0.998408 Curve Fit: Linear
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