

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y052224S.M
 Title : SW846 8260
 Last Update : Thu May 23 01:40:36 2024
 Response Via : Initial Calibration

Calibration Files

5 =VY018343.D 10 =VY018344.D 20 =VY018349.D 50 =VY018346.D 100 =VY018347.D 150 =VY018348.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.456	0.423	0.427	0.431	0.380	0.443	0.427	6.08
3) P	Chloromethane	0.762	0.703	0.703	0.700	0.601	0.692	0.694	7.48
4) C	Vinyl Chloride	0.810	0.760	0.733	0.832	0.718	0.802	0.776	5.87#
5) T	Bromomethane	0.606	0.539	0.574	0.541	0.488	0.580	0.555	7.45
6) T	Chloroethane	0.525	0.511	0.496	0.522	0.459	0.509	0.504	4.81
7) T	Trichlorofluor...	0.894	0.876	0.856	0.896	0.808	0.894	0.871	3.93
8) T	Diethyl Ether	0.292	0.286	0.268	0.291	0.255	0.276	0.278	5.26
9) T	1,1,2-Trichlor...	0.594	0.562	0.505	0.547	0.491	0.525	0.537	7.09
10) T	Methyl Iodide	0.526	0.511	0.472	0.596	0.532	0.604	0.540	9.38
11) T	Tert butyl alc...	0.084	0.068	0.061	0.049	0.037	0.039	0.056	32.08
12) CM	1,1-Dichloroet...	0.578	0.518	0.486	0.555	0.496	0.541	0.529	6.68#
13) T	Acrolein	0.055	0.045	0.046	0.041	0.036	0.038	0.044	15.84
14) T	Allyl chloride	0.804	0.759	0.668	0.784	0.712	0.707	0.739	7.02
15) T	Acrylonitrile	0.126	0.131	0.115	0.130	0.108	0.112	0.120	8.13
16) T	Acetone	0.112	0.093	0.090	0.105	0.092	0.094	0.097	9.10
17) T	Carbon Disulfide	1.381	1.367	1.292	1.693	1.540	1.591	1.477	10.43
18) T	Methyl Acetate	0.295	0.277	0.246	0.268	0.231	0.232	0.258	10.06
19) T	Methyl tert-bu...	1.372	1.309	1.247	1.352	1.109	1.224	1.269	7.66
20) T	Methylene Chlo...	0.900	0.758	0.657	0.593	0.521	0.527	0.659	22.34
21) T	trans-1,2-Dich...	0.584	0.545	0.532	0.597	0.523	0.568	0.558	5.31
22) T	Diisopropyl ether	1.693	1.637	1.445	1.666	1.312	1.459	1.535	9.93
23) T	Vinyl Acetate	1.022	1.003	0.937	1.095	0.856	0.986	0.983	8.24
24) P	1,1-Dichloroet...	1.005	0.962	0.887	1.020	0.872	0.904	0.942	6.70
25) T	2-Butanone	0.169	0.161	0.151	0.167	0.128	0.149	0.154	9.83
26) T	2,2-Dichloropr...	0.865	0.866	0.775	0.858	0.718	0.802	0.814	7.42
27) T	cis-1,2-Dichlo...	0.695	0.646	0.641	0.710	0.590	0.653	0.656	6.49
28) T	Bromochloromet...	0.329	0.358	0.311	0.335	0.299	0.287	0.320	8.10
29) T	Tetrahydrofuran	0.113	0.112	0.098	0.112	0.081	0.094	0.102	12.51
30) C	Chloroform	1.025	1.012	0.928	1.019	0.843	0.932	0.960	7.51#
31) T	Cyclohexane	1.148	0.973	0.789	0.961	0.760	0.818	0.908	16.24
32) T	1,1,1-Trichlor...	0.858	0.842	0.825	0.895	0.771	0.864	0.842	5.02
33) S	1,2-Dichloroet...	0.521	0.484	0.484	0.454	0.452	0.447	0.474	5.96
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.308	0.263	0.310	0.269	0.300	0.300	0.292	6.96
36) T	1,1-Dichloropr...	0.437	0.419	0.402	0.443	0.395	0.440	0.423	4.89
37) T	Ethyl Acetate	0.190	0.217	0.210	0.221	0.172	0.204	0.202	9.05
38) T	Carbon Tetrach...	0.423	0.414	0.418	0.436	0.423	0.484	0.433	6.03
39) T	Methylcyclohexane	0.618	0.574	0.551	0.620	0.554	0.621	0.590	5.72
40) TM	Benzene	1.268	1.292	1.257	1.370	1.202	1.345	1.289	4.76
41) T	Methacrylonitrile	0.091	0.095	0.102	0.119	0.099	0.100	0.101	9.72
42) TM	1,2-Dichloroet...	0.309	0.315	0.307	0.318	0.285	0.326	0.310	4.51
43) T	Isopropyl Acetate	0.406	0.393	0.392	0.414	0.351	0.412	0.395	5.92
44) TM	Trichloroethene	0.316	0.307	0.341	0.334	0.322	0.362	0.330	5.98
45) C	1,2-Dichloropr...	0.296	0.299	0.280	0.310	0.261	0.294	0.290	5.94#
46) T	Dibromomethane	0.177	0.164	0.172	0.176	0.153	0.178	0.170	5.66
47) T	Bromodichlorom...	0.425	0.405	0.408	0.424	0.381	0.435	0.413	4.68
48) T	Methyl methacr...	0.175	0.180	0.184	0.184	0.157	0.190	0.179	6.53
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	5.06
50) S	Toluene-d8	1.165	1.084	1.210	1.041	1.167	1.154	1.137	5.47
51) T	4-Methyl-2-Pen...	0.200	0.200	0.202	0.204	0.177	0.212	0.199	6.01
52) CM	Toluene	0.798	0.807	0.816	0.816	0.761	0.850	0.808	3.61#
53) T	t-1,3-Dichloro...	0.369	0.363	0.375	0.384	0.363	0.411	0.377	4.89
54) T	cis-1,3-Dichlo...	0.452	0.457	0.449	0.494	0.436	0.486	0.463	4.90
55) T	1,1,2-Trichlor...	0.226	0.225	0.235	0.229	0.204	0.233	0.225	4.91
56) T	Ethyl methacry...	0.292	0.306	0.323	0.313	0.289	0.331	0.309	5.36

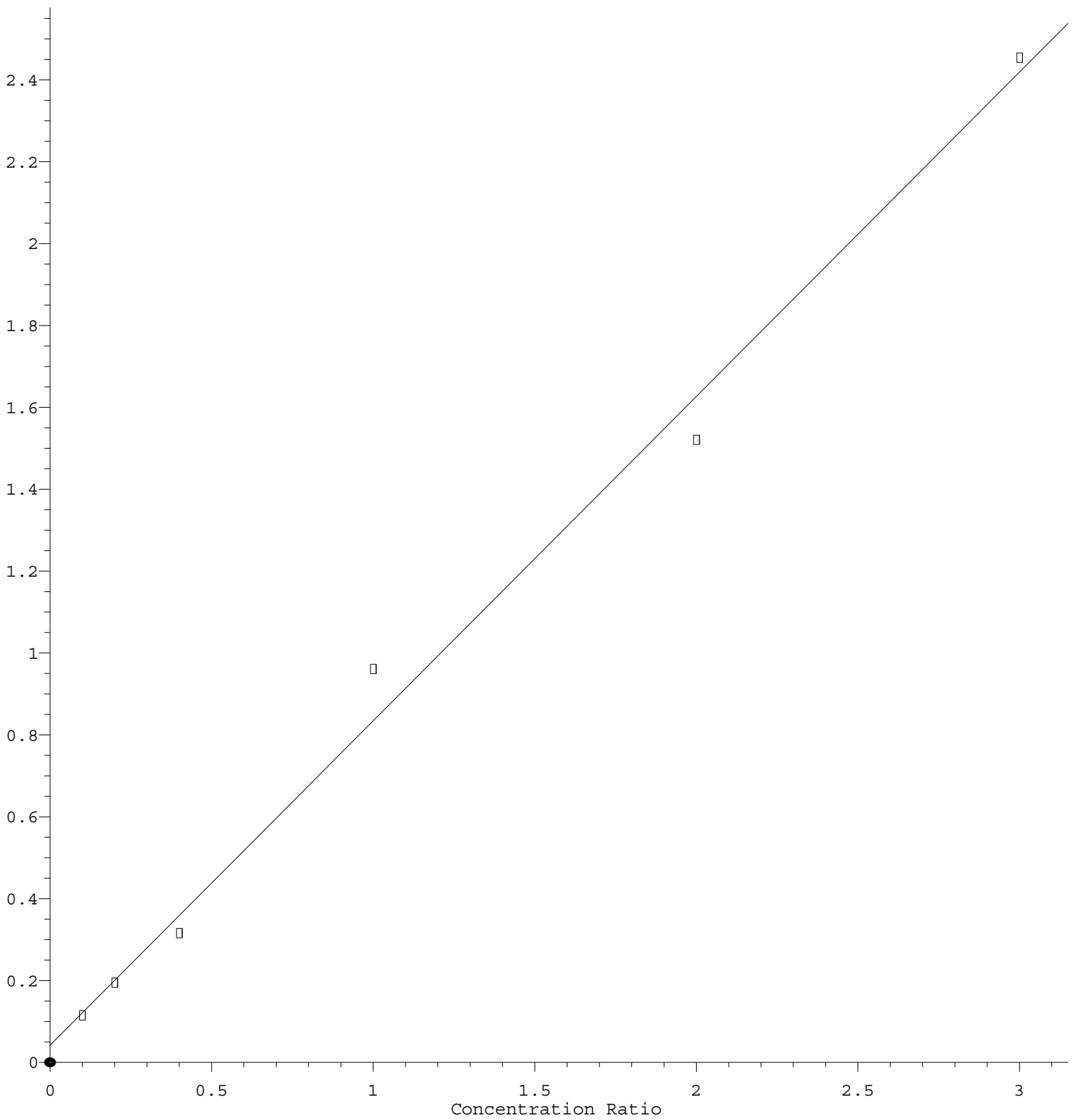
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57)	T	1,3-Dichloropr...	0.394	0.395	0.376	0.395	0.344	0.388	0.382	5.24
58)	T	2-Chloroethyl ...	0.154	0.156	0.113	0.156	0.122	0.138	0.140	13.29
59)	T	2-Hexanone	0.134	0.138	0.142	0.137	0.122	0.149	0.137	6.40
60)	T	Dibromochlorom...	0.240	0.252	0.287	0.282	0.266	0.306	0.272	8.85
61)	T	1,2-Dibromoethane	0.198	0.207	0.218	0.208	0.197	0.220	0.208	4.66
62)	S	4-Bromofluorob...	0.373	0.344	0.378	0.312	0.353	0.348	0.351	6.76
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.344	0.346	0.360	0.351	0.345	0.382	0.355	4.15
65)	PM	Chlorobenzene	1.052	1.000	1.052	1.030	0.971	1.092	1.033	4.12
66)	T	1,1,1,2-Tetrac...	0.296	0.301	0.341	0.338	0.320	0.364	0.327	7.96
67)	C	Ethyl Benzene	1.855	1.747	1.813	1.793	1.728	1.947	1.814	4.39#
68)	T	m/p-Xylenes	0.700	0.661	0.709	0.701	0.668	0.748	0.698	4.48
69)	T	o-Xylene	0.659	0.630	0.680	0.664	0.627	0.693	0.659	4.02
70)	T	Styrene	1.043	1.014	1.120	1.123	1.056	1.177	1.089	5.61
71)	P	Bromoform	0.150	0.148	0.180	0.178	0.177	0.204	0.173	12.25
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.119	3.862	3.895	3.930	3.654	4.120	3.930	4.46
74)	T	N-amyl acetate	0.929	0.931	0.897	0.896	0.842	1.006	0.917	5.91
75)	P	1,1,2,2-Tetrac...	0.719	0.714	0.691	0.642	0.579	0.673	0.670	7.87
76)	T	1,2,3-Trichlor...	0.484	0.551	0.416	0.421	0.392	0.433	0.449	12.96
77)	T	Bromobenzene	0.869	0.796	0.865	0.877	0.834	0.924	0.861	5.00
78)	T	n-propylbenzene	5.086	4.782	4.623	4.583	4.329	4.829	4.706	5.46
79)	T	2-Chlorotoluene	2.763	2.590	2.503	2.458	2.329	2.643	2.548	5.96
80)	T	1,3,5-Trimethy...	3.272	3.012	3.073	3.052	2.880	3.240	3.088	4.75
81)	T	trans-1,4-Dich...	0.225	0.220	0.225	0.206	0.195	0.239	0.218	7.16
82)	T	4-Chlorotoluene	2.889	2.539	2.564	2.485	2.360	2.660	2.583	6.94
83)	T	tert-Butylbenzene	2.937	2.802	2.848	2.808	2.699	3.034	2.855	4.09
84)	T	1,2,4-Trimethy...	3.170	2.921	3.060	2.987	2.874	3.212	3.037	4.45
85)	T	sec-Butylbenzene	4.514	4.244	4.284	4.098	3.884	4.308	4.222	5.04
86)	T	p-Isopropyltol...	3.607	3.429	3.464	3.382	3.192	3.645	3.453	4.74
87)	T	1,3-Dichlorobe...	1.760	1.563	1.733	1.694	1.607	1.812	1.695	5.58
88)	T	1,4-Dichlorobe...	1.796	1.667	1.718	1.651	1.548	1.742	1.687	5.09
89)	T	n-Butylbenzene	3.648	3.220	3.212	3.107	2.954	3.331	3.245	7.23
90)	T	Hexachloroethane	0.667	0.573	0.646	0.627	0.614	0.701	0.638	6.93
91)	T	1,2-Dichlorobe...	1.491	1.406	1.546	1.466	1.379	1.536	1.471	4.61
92)	T	1,2-Dibromo-3-...	0.094	0.092	0.094	0.088	0.083	0.099	0.092	6.15
93)	T	1,2,4-Trichlor...	0.834	0.747	0.880	0.790	0.819	0.955	0.838	8.66
94)	T	Hexachlorobuta...	0.420	0.362	0.451	0.417	0.429	0.493	0.429	10.05
95)	T	Naphthalene	1.519	1.434	1.785	1.609	1.609	1.927	1.647	10.93
96)	T	1,2,3-Trichlor...	0.726	0.608	0.771	0.651	0.698	0.820	0.712	10.90

(#) = Out of Range

Cyclohexane

Response Ratio



$$\text{Response} = 7.925\text{e-}001 * \text{Amt} + 4.182\text{e-}002$$

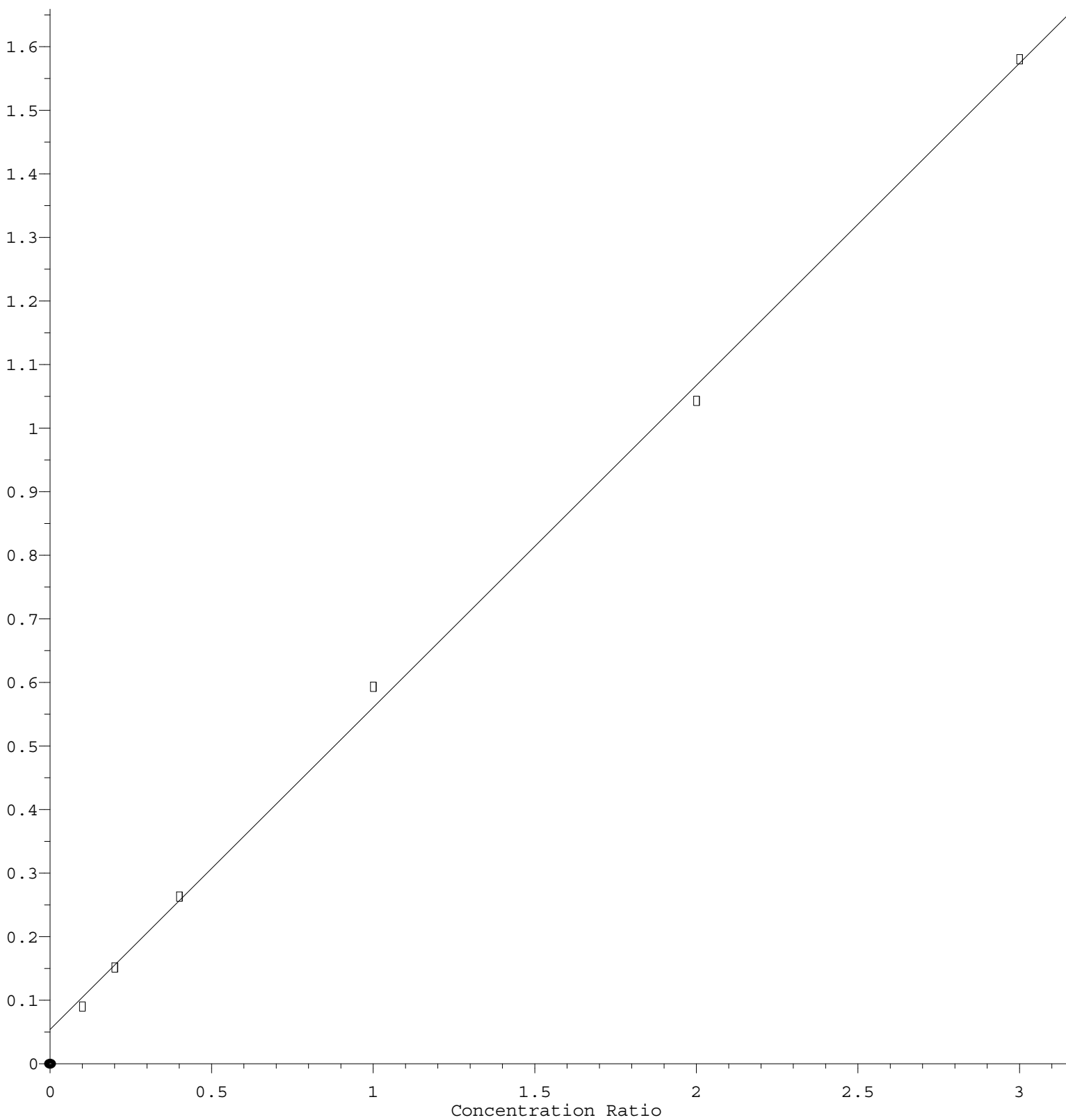
Coef of Det (r^2) = 0.992851 Curve Fit: Linear

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Methylene Chloride

Response Ratio



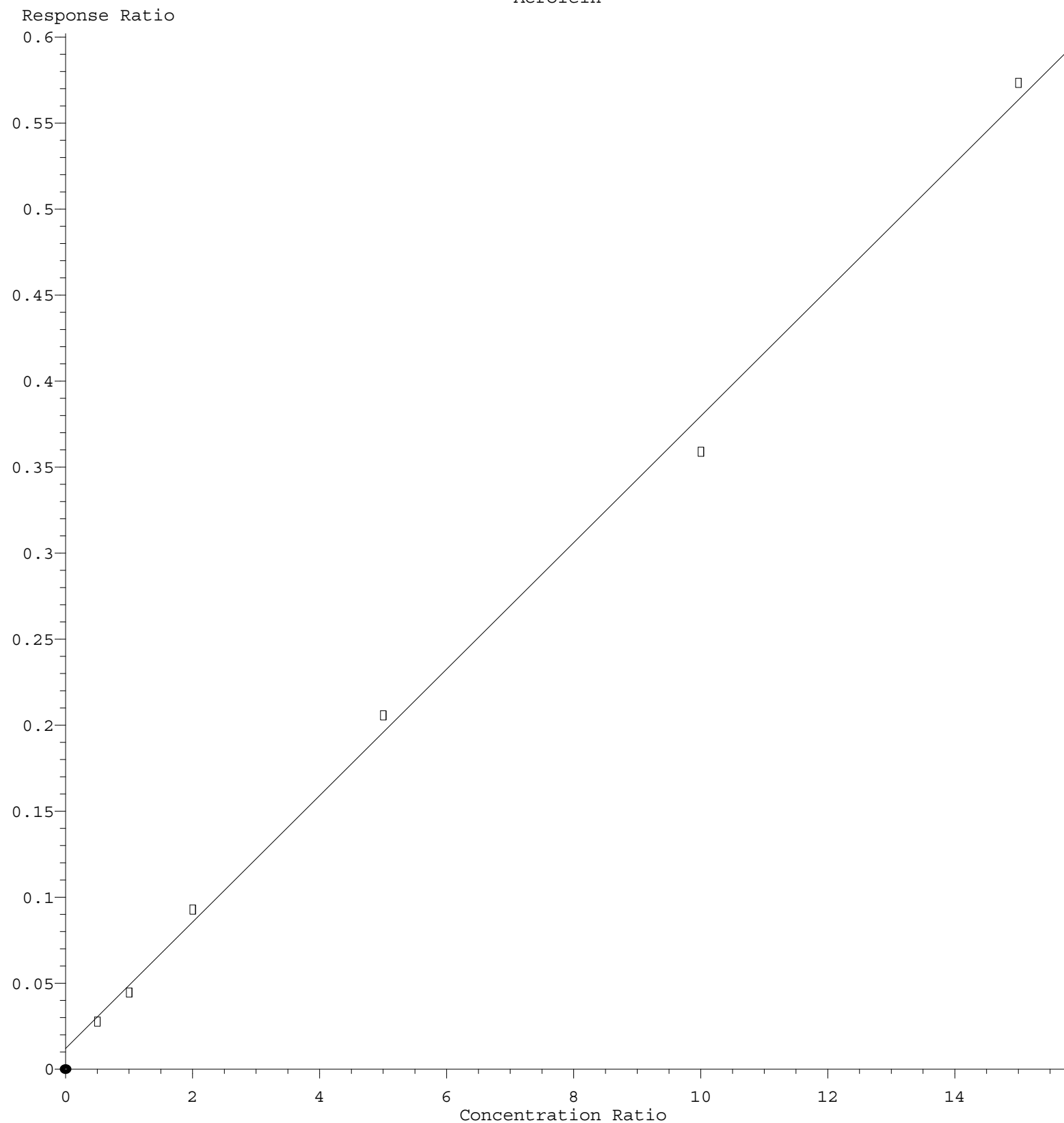
$$\text{Response} = 5.067\text{e-}001 * \text{Amt} + 5.431\text{e-}002$$

Coef of Det (r^2) = 0.998868 Curve Fit: Linear

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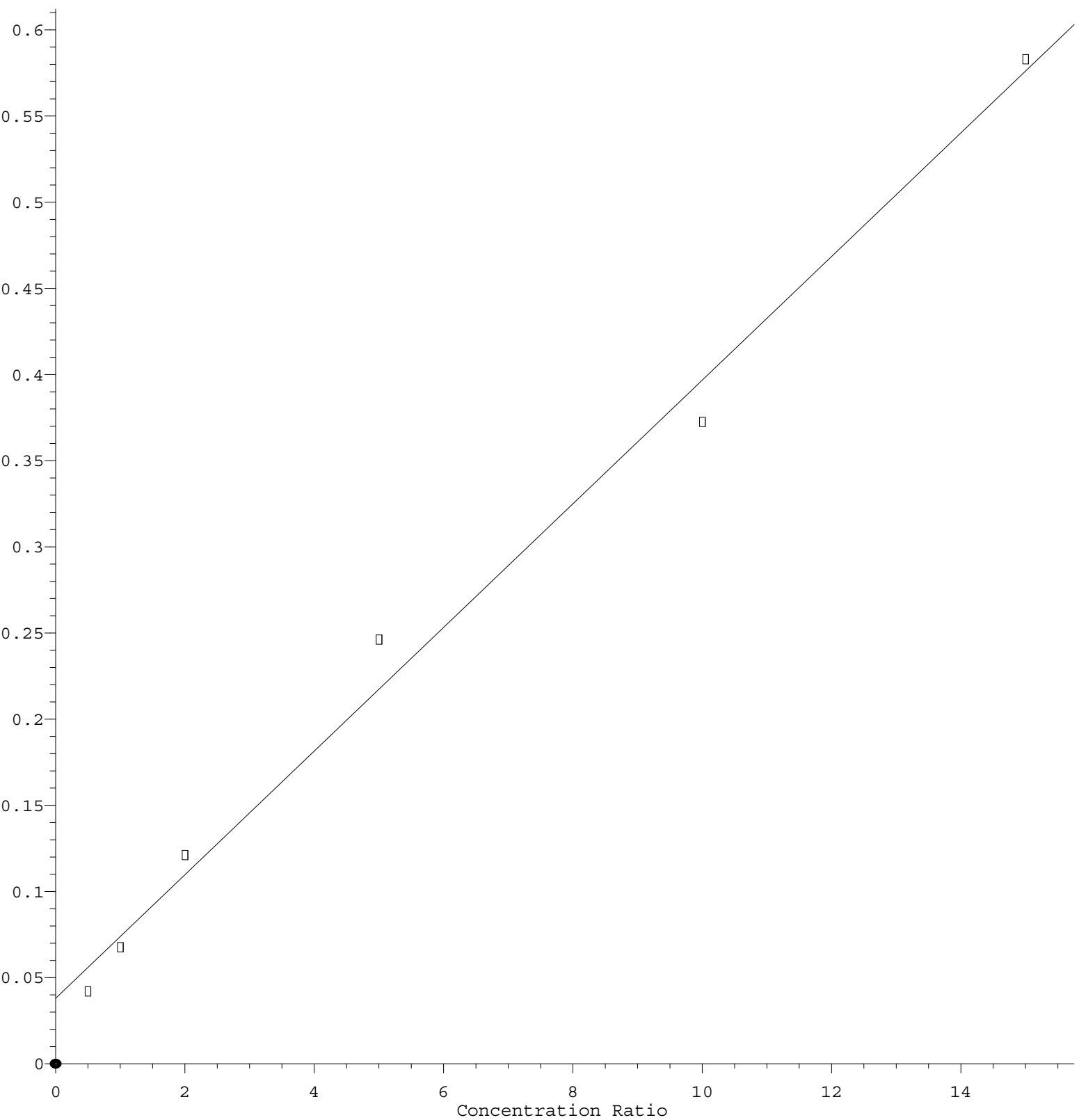
Acrolein



$\text{Response} = 3.678\text{e-}002 * \text{Amt} + 1.176\text{e-}002$
 Coef of Det (r^2) = 0.996923 Curve Fit: Linear
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Tert butyl alcohol

Response Ratio



$$\text{Response} = 3.587\text{e-}002 * \text{Amt} + 3.846\text{e-}002$$

Coef of Det (r^2) = 0.991619 Curve Fit: Linear

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