

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y112923S.M
 Title : SW846 8260
 Last Update : Thu Nov 30 03:28:04 2023
 Response Via : Initial Calibration

Calibration Files

5 =VY016526.D 10 =VY016527.D 20 =VY016528.D 50 =VY016533.D 100 =VY016534.D 150 =VY016531.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.453	0.484	0.475	0.384	0.402	0.415	0.436	9.40
3) P	Chloromethane	0.463	0.454	0.461	0.403	0.417	0.409	0.434	6.31
4) C	Vinyl Chloride	0.505	0.521	0.514	0.459	0.474	0.471	0.490	5.27#
5) T	Bromomethane	0.333	0.323	0.294	0.305	0.326	0.323	0.317	4.57
6) T	Chloroethane	0.330	0.329	0.326	0.288	0.317	0.309	0.317	5.02
7) T	Trichlorofluor...	0.816	0.884	0.880	0.800	0.843	0.870	0.849	4.15
8) T	Diethyl Ether	0.212	0.227	0.209	0.222	0.250	0.233	0.225	6.59
9) T	1,1,2-Trichlor...	0.474	0.493	0.498	0.454	0.479	0.494	0.482	3.42
10) T	Methyl Iodide	0.490	0.530	0.557	0.528	0.578	0.589	0.545	6.70
11) T	Tert butyl alc...	0.026	0.025	0.023	0.024	0.029	0.024	0.025	9.53
12) CM	1,1-Dichloroet...	0.425	0.457	0.459	0.435	0.461	0.466	0.450	3.57#
13) T	Acrolein	0.043	0.046	0.038	0.053	0.057	0.049	0.047	14.55
14) T	Allyl chloride	0.482	0.520	0.519	0.511	0.544	0.531	0.518	4.10
15) T	Acrylonitrile	0.078	0.083	0.067	0.083	0.091	0.077	0.080	10.05
16) T	Acetone	0.092	0.093	0.068	0.068	0.075	0.063	0.077	17.06
17) T	Carbon Disulfide	1.226	1.281	1.308	1.238	1.279	1.293	1.271	2.52
18) T	Methyl Acetate	0.258	0.284	0.246	0.312	0.353	0.301	0.292	13.24
19) T	Methyl tert-bu...	0.908	0.980	0.888	1.005	1.105	1.004	0.982	7.97
20) T	Methylene Chlo...	0.693	0.543	0.474	0.458	0.470	0.437	0.513	18.56
21) T	trans-1,2-Dich...	0.503	0.494	0.518	0.485	0.511	0.499	0.502	2.37
22) T	Diisopropyl ether	1.033	1.123	1.087	1.089	1.130	1.053	1.086	3.50
23) T	Vinyl Acetate	0.469	0.518	0.462	0.512	0.550	0.493	0.501	6.58
24) P	1,1-Dichloroet...	0.738	0.800	0.779	0.741	0.780	0.759	0.766	3.18
25) T	2-Butanone	0.115	0.126	0.101	0.098	0.108	0.091	0.107	11.83
26) T	2,2-Dichloropr...	0.748	0.772	0.773	0.722	0.763	0.766	0.757	2.55
27) T	cis-1,2-Dichlo...	0.507	0.562	0.529	0.531	0.560	0.545	0.539	3.88
28) T	Bromochloromet...	0.292	0.296	0.258	0.278	0.277	0.261	0.277	5.63
29) T	Tetrahydrofuran	0.050	0.059	0.050	0.061	0.068	0.056	0.057	12.03
30) C	Chloroform	0.848	0.885	0.855	0.827	0.868	0.842	0.854	2.38#
31) T	Cyclohexane	0.736	0.737	0.721	0.635	0.660	0.673	0.693	6.25
32) T	1,1,1-Trichlor...	0.807	0.850	0.848	0.786	0.840	0.835	0.828	3.08
33) S	1,2-Dichloroet...	0.390	0.420	0.353	0.400	0.415	0.392	0.395	6.05
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.281	0.300	0.289	0.294	0.302	0.295	0.293	2.68
36) T	1,1-Dichloropr...	0.406	0.436	0.463	0.411	0.437	0.447	0.433	5.01
37) T	Ethyl Acetate	0.117	0.143	0.126	0.139	0.157	0.133	0.136	10.25
38) T	Carbon Tetrach...	0.477	0.514	0.535	0.476	0.516	0.534	0.509	5.22
39) T	Methylcyclohexane	0.480	0.534	0.560	0.514	0.565	0.590	0.541	7.34
40) TM	Benzene	1.183	1.250	1.270	1.169	1.252	1.248	1.229	3.40
41) T	Methacrylonitrile	0.067	0.069	0.060	0.069	0.084	0.081	0.072	12.53
42) TM	1,2-Dichloroet...	0.293	0.309	0.291	0.298	0.326	0.309	0.304	4.34
43) T	Isopropyl Acetate	0.243	0.265	0.236	0.273	0.309	0.276	0.267	9.77
44) TM	Trichloroethene	0.353	0.380	0.389	0.365	0.390	0.393	0.378	4.22
45) C	1,2-Dichloropr...	0.266	0.289	0.280	0.265	0.284	0.280	0.277	3.51#
46) T	Dibromomethane	0.151	0.156	0.147	0.155	0.169	0.157	0.156	4.86
47) T	Bromodichlorom...	0.390	0.428	0.401	0.397	0.436	0.418	0.412	4.47
48) T	Methyl methacr...	0.131	0.147	0.132	0.155	0.177	0.157	0.150	11.58
49) T	1,4-Dioxane	0.001	0.001	0.001	0.001	0.002	0.002	0.001	13.48
50) S	Toluene-d8	1.059	1.174	1.138	1.131	1.168	1.158	1.138	3.71
51) T	4-Methyl-2-Pen...	0.126	0.145	0.126	0.141	0.161	0.137	0.139	9.46
52) CM	Toluene	0.729	0.792	0.819	0.760	0.820	0.815	0.789	4.72#
53) T	t-1,3-Dichloro...	0.354	0.380	0.354	0.380	0.421	0.399	0.381	6.84
54) T	cis-1,3-Dichlo...	0.431	0.464	0.442	0.458	0.500	0.477	0.462	5.31
55) T	1,1,2-Trichlor...	0.218	0.237	0.209	0.222	0.241	0.222	0.225	5.25
56) T	Ethyl methacry...	0.158	0.185	0.171	0.198	0.227	0.203	0.190	12.84

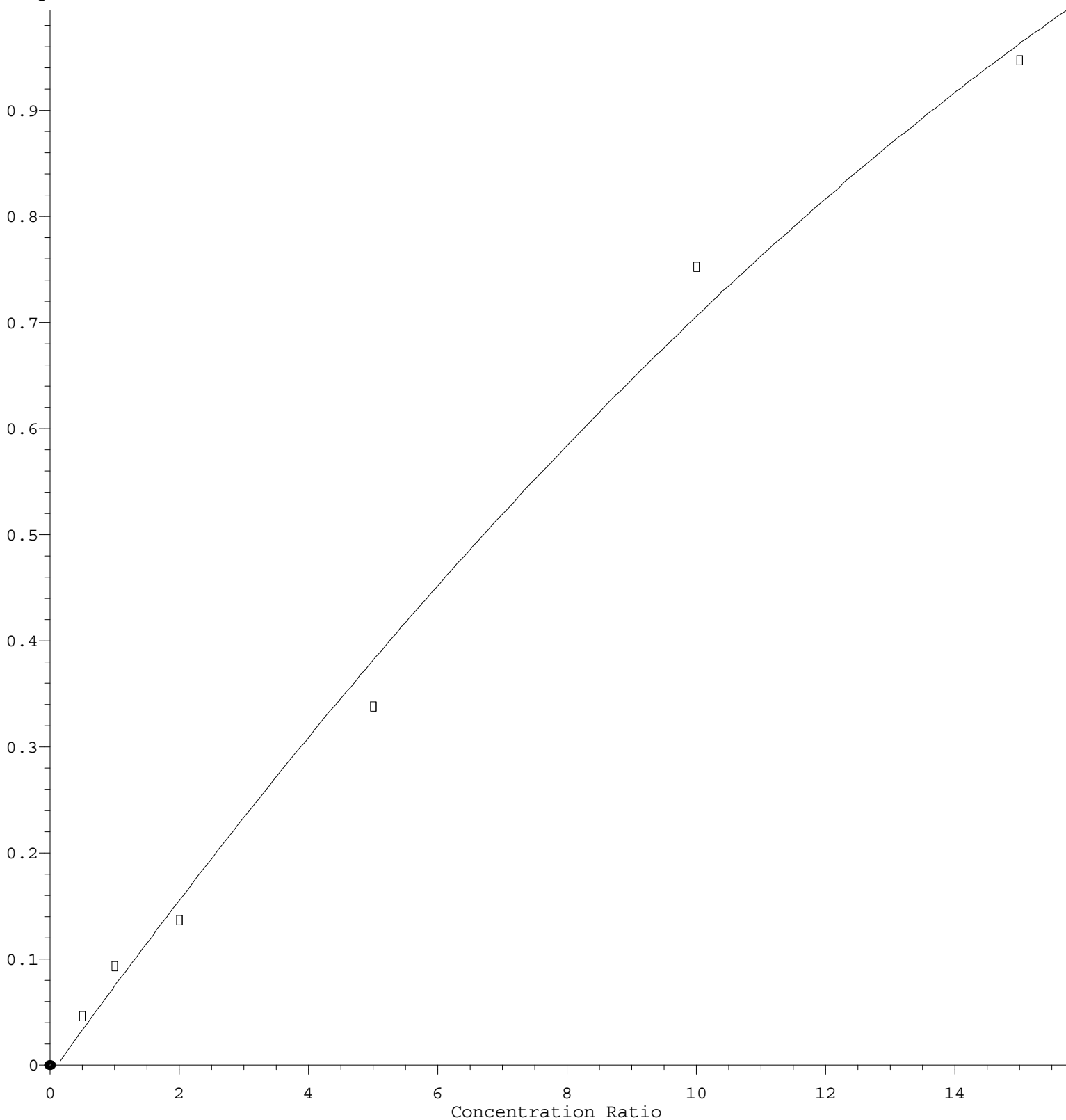
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57)	T	1,3-Dichloropr...	0.341	0.373	0.341	0.360	0.396	0.364	0.362	5.72
58)	T	2-Chloroethyl ...	0.098	0.111	0.101	0.127	0.142	0.127	0.118	14.62
59)	T	2-Hexanone	0.109	0.126	0.109	0.102	0.117	0.098	0.110	9.08
60)	T	Dibromochlorom...	0.277	0.299	0.275	0.294	0.321	0.298	0.294	5.75
61)	T	1,2-Dibromoethane	0.201	0.221	0.192	0.213	0.235	0.213	0.212	7.18
62)	S	4-Bromofluorob...	0.333	0.378	0.338	0.361	0.375	0.358	0.357	5.17
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.414	0.446	0.472	0.419	0.453	0.466	0.445	5.41
65)	PM	Chlorobenzene	0.964	0.996	1.037	0.951	1.022	1.039	1.001	3.77
66)	T	1,1,1,2-Tetrac...	0.367	0.393	0.387	0.368	0.393	0.395	0.384	3.32
67)	C	Ethyl Benzene	1.622	1.749	1.841	1.681	1.789	1.864	1.758	5.31#
68)	T	m/p-Xylenes	0.627	0.668	0.719	0.650	0.695	0.723	0.680	5.68
69)	T	o-Xylene	0.567	0.607	0.649	0.608	0.651	0.665	0.625	5.90
70)	T	Styrene	0.783	0.891	0.923	0.887	0.952	0.955	0.899	7.06
71)	P	Bromoform	0.192	0.199	0.183	0.197	0.215	0.203	0.198	5.41
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.348	3.667	4.142	3.677	3.890	4.026	3.792	7.58
74)	T	N-amyl acetate	0.442	0.504	0.496	0.556	0.638	0.577	0.535	12.95
75)	P	1,1,2,2-Tetrac...	0.549	0.572	0.543	0.564	0.599	0.550	0.563	3.65
76)	T	1,2,3-Trichlor...	0.435	0.467	0.422	0.378	0.399	0.419	0.420	7.30
77)	T	Bromobenzene	0.827	0.868	0.890	0.854	0.928	0.931	0.883	4.69
78)	T	n-propylbenzene	3.906	4.273	4.748	4.173	4.403	4.526	4.338	6.73
79)	T	2-Chlorotoluene	2.230	2.385	2.577	2.306	2.476	2.503	2.413	5.39
80)	T	1,3,5-Trimethy...	2.685	2.972	3.306	2.959	3.136	3.231	3.048	7.38
81)	T	trans-1,4-Dich...	0.186	0.190	0.182	0.194	0.212	0.191	0.192	5.52
82)	T	4-Chlorotoluene	2.304	2.483	2.616	2.363	2.511	2.586	2.477	4.95
83)	T	tert-Butylbenzene	2.549	2.629	2.944	2.676	2.844	2.862	2.751	5.62
84)	T	1,2,4-Trimethy...	2.609	2.913	3.175	2.875	3.081	3.154	2.968	7.23
85)	T	sec-Butylbenzene	3.416	3.770	4.163	3.688	3.831	3.959	3.804	6.64
86)	T	p-Isopropyltol...	2.817	3.218	3.576	3.198	3.398	3.516	3.287	8.41
87)	T	1,3-Dichlorobe...	1.597	1.649	1.703	1.600	1.715	1.739	1.667	3.64
88)	T	1,4-Dichlorobe...	1.572	1.652	1.662	1.546	1.672	1.686	1.632	3.56
89)	T	n-Butylbenzene	2.524	2.852	3.089	2.841	2.961	3.021	2.881	6.93
90)	T	Hexachloroethane	0.601	0.641	0.677	0.612	0.651	0.666	0.641	4.68
91)	T	1,2-Dichlorobe...	1.315	1.424	1.403	1.368	1.497	1.471	1.413	4.72
92)	T	1,2-Dibromo-3-...	0.065	0.074	0.072	0.079	0.097	0.088	0.079	14.70
93)	T	1,2,4-Trichlor...	0.626	0.703	0.691	0.805	0.926	0.902	0.775	15.74
94)	T	Hexachlorobuta...	0.447	0.494	0.498	0.484	0.499	0.514	0.489	4.71
95)	T	Naphthalene	0.990	1.087	1.009	1.393	1.703	1.615	1.300	24.24
96)	T	1,2,3-Trichlor...	0.491	0.565	0.526	0.639	0.766	0.743	0.622	18.41

(#) = Out of Range

Acetone

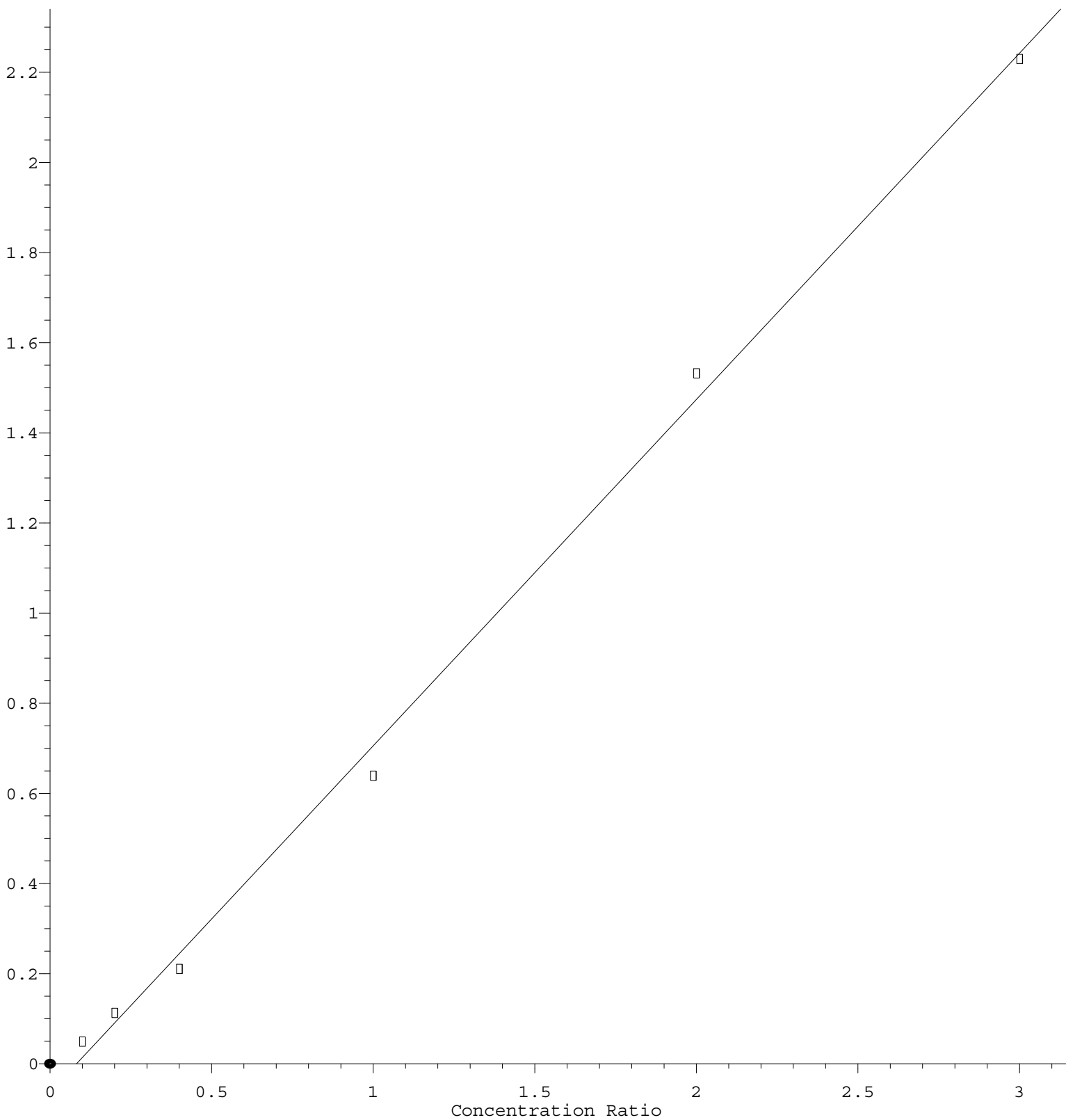
Response Ratio



$R = -1.340e-003 A^2 + 8.487e-002 A - 8.967e-003$
 Coef of Det (r^2) = 0.992711 Curve Fit: Quadratic
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1,2,3-Trichlorobenzene

Response Ratio



$$\text{Response} = 7.688\text{e-}001 * \text{Amt} - 6.306\text{e-}002$$

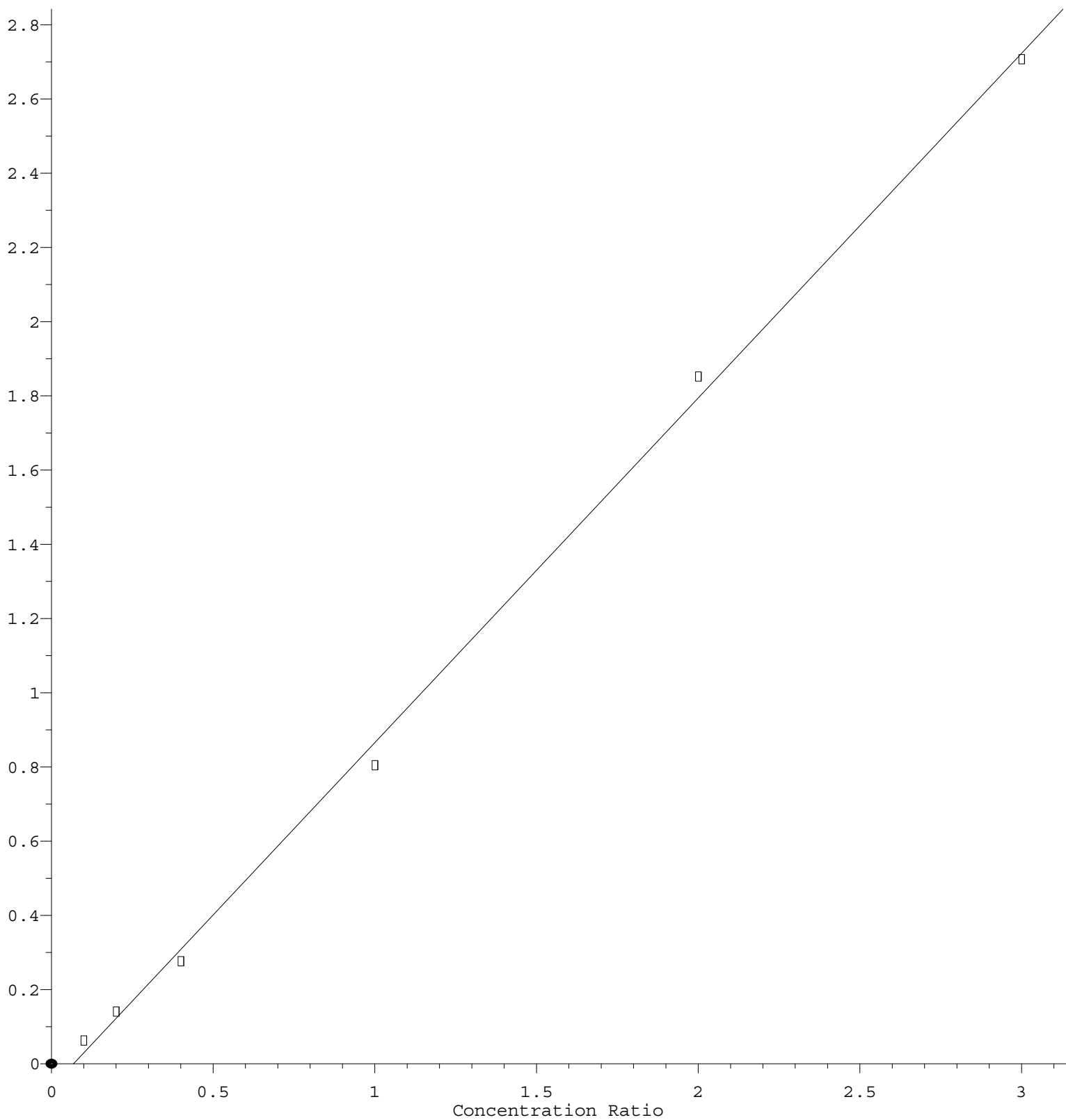
Coef of Det (r^2) = 0.997284 Curve Fit: Linear

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1,2,4-Trichlorobenzene

Response Ratio



$$\text{Response} = 9.288\text{e-}001 * \text{Amt} - 6.337\text{e-}002$$

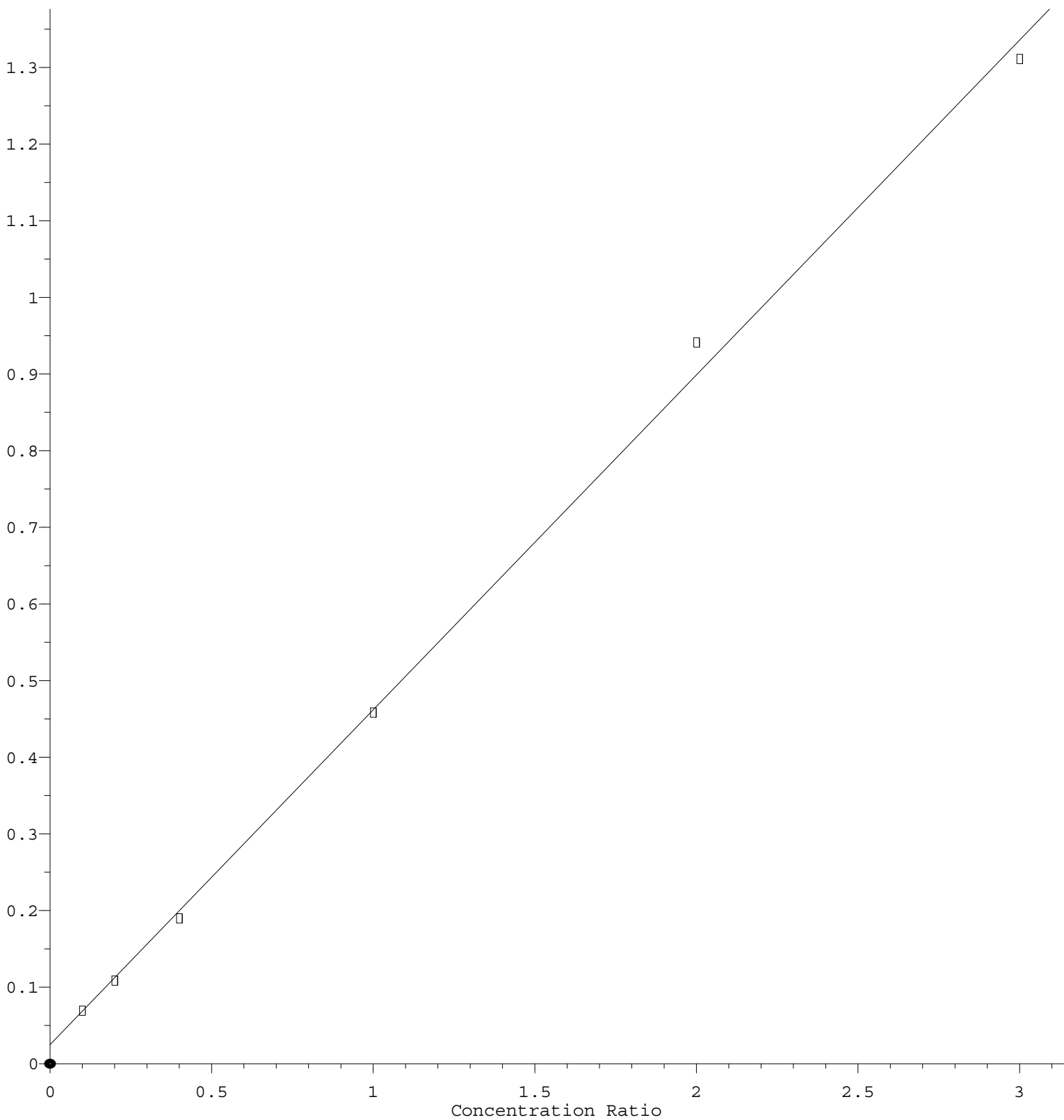
Coef of Det (r^2) = 0.998327 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$$\text{Response} = 4.371\text{e-}001 * \text{Amt} + 2.484\text{e-}002$$

Coef of Det (r^2) = 0.998041 Curve Fit: Linear

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