

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
 Method File : 82D050625S.M
 Title : SW846 8260
 Last Update : Wed May 07 08:57:11 2025
 Response Via : Initial Calibration

Calibration Files

5 =VD080290.D 10 =VD080291.D 20 =VD080292.D 50 =VD080293.D 100 =VD080294.D 150 =VD080295.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.732	0.664	0.648	0.388	0.418	0.406	0.543	28.51
3) P	Chloromethane	1.499	1.184	1.124	0.803	0.825	0.802	1.039	27.12
4) C	Vinyl Chloride	1.664	1.460	1.398	1.065	1.111	1.101	1.300	18.81#
5) T	Bromomethane	1.188	0.914	1.047	0.732	0.837	0.895	0.936	17.22
6) T	Chloroethane	1.103	0.992	1.005	0.776	0.827	0.812	0.919	14.36
7) T	Trichlorofluor...	1.252	1.072	1.052	0.846	0.892	0.866	0.997	15.84
8) T	Diethyl Ether	0.371	0.285	0.314	0.271	0.299	0.306	0.308	11.31
9) T	1,1,2-Trichlor...	0.797	0.659	0.635	0.524	0.537	0.533	0.614	17.32
10) T	Methyl Iodide	0.656	0.580	0.610	0.592	0.663	0.655	0.626	5.79
11) T	Tert butyl alc...	0.048	0.044	0.038	0.034	0.035	0.036	0.039	13.60
12) CM	1,1-Dichloroet...	0.775	0.620	0.620	0.514	0.549	0.554	0.605	15.38#
13) T	Acrolein	0.082	0.068	0.069	0.063	0.066	0.066	0.069	9.51
14) T	Allyl chloride	1.123	0.913	0.934	0.847	0.947	0.949	0.952	9.64
15) T	Acrylonitrile	0.170	0.147	0.150	0.130	0.145	0.145	0.148	8.62
16) T	Acetone	0.181	0.122	0.110	0.097	0.100	0.102	0.119	26.95
17) T	Carbon Disulfide	2.743	2.221	2.214	1.751	1.850	1.835	2.102	17.74
18) T	Methyl Acetate	0.506	0.453	0.401	0.349	0.392	0.409	0.418	13.03
19) T	Methyl tert-bu...	1.396	1.161	1.333	1.247	1.405	1.438	1.330	8.05
20) T	Methylene Chlo...	1.259	0.906	0.802	0.657	0.666	0.657	0.825	28.53
21) T	trans-1,2-Dich...	0.818	0.627	0.664	0.584	0.629	0.625	0.658	12.51
22) T	Diisopropyl ether	1.915	1.792	2.075	1.870	2.037	2.079	1.961	6.12
23) T	Vinyl Acetate	1.113	1.018	1.155	1.113	1.221	1.233	1.142	6.97
24) P	1,1-Dichloroet...	1.445	1.287	1.247	1.102	1.160	1.165	1.234	9.93
25) T	2-Butanone	0.204	0.164	0.175	0.167	0.176	0.182	0.178	8.07
26) T	2,2-Dichloropr...	1.128	1.000	1.013	0.882	0.929	0.941	0.982	8.76
27) T	cis-1,2-Dichlo...	0.798	0.705	0.726	0.663	0.738	0.742	0.729	6.14
28) T	Bromochloromet...	0.699	0.600	0.578	0.537	0.524	0.510	0.575	12.17
29) T	Tetrahydrofuran	0.118	0.107	0.114	0.111	0.120	0.126	0.116	5.80
30) C	Chloroform	1.450	1.234	1.268	1.107	1.163	1.162	1.231	9.89#
31) T	Cyclohexane	1.309	1.043	1.046	0.919	0.990	0.995	1.050	12.81
32) T	1,1,1-Trichlor...	1.148	1.022	1.030	0.898	0.959	0.968	1.004	8.50
33) S	1,2-Dichloroet...	0.770	0.661	0.646	0.590	0.606	0.606	0.647	10.22
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.339	0.320	0.340	0.334	0.337	0.339	0.335	2.26
36) T	1,1-Dichloropr...	0.517	0.477	0.505	0.475	0.516	0.515	0.501	3.96
37) T	Ethyl Acetate	0.280	0.253	0.270	0.243	0.262	0.263	0.262	4.99
38) T	Carbon Tetrach...	0.527	0.532	0.559	0.492	0.513	0.512	0.522	4.34
39) T	Methylcyclohexane	0.561	0.532	0.577	0.544	0.636	0.638	0.581	7.90
40) TM	Benzene	1.653	1.479	1.609	1.462	1.611	1.602	1.569	5.03
41) T	Methacrylonitrile	0.166	0.130	0.156	0.129	0.141	0.148	0.145	10.11
42) TM	1,2-Dichloroet...	0.489	0.448	0.482	0.422	0.450	0.438	0.455	5.67
43) T	Isopropyl Acetate	0.468	0.436	0.483	0.460	0.500	0.503	0.475	5.40
44) TM	Trichloroethene	0.388	0.353	0.378	0.334	0.368	0.365	0.364	5.27
45) C	1,2-Dichloropr...	0.404	0.391	0.416	0.386	0.412	0.407	0.402	2.96#
46) T	Dibromomethane	0.211	0.218	0.234	0.209	0.221	0.222	0.219	4.11
47) T	Bromodichlorom...	0.576	0.542	0.563	0.528	0.568	0.560	0.556	3.21
48) T	Methyl methacr...	0.201	0.192	0.229	0.221	0.249	0.261	0.226	11.96
49) T	1,4-Dioxane	0.003	0.002	0.003	0.003	0.003	0.003	0.003	9.09
50) S	Toluene-d8	1.242	1.231	1.299	1.330	1.409	1.412	1.320	5.96
51) T	4-Methyl-2-Pen...	0.211	0.204	0.257	0.248	0.273	0.276	0.245	12.56
52) CM	Toluene	0.880	0.863	0.961	0.918	1.031	1.020	0.945	7.49#
53) T	t-1,3-Dichloro...	0.498	0.458	0.509	0.488	0.541	0.548	0.507	6.65
54) T	cis-1,3-Dichlo...	0.566	0.528	0.602	0.573	0.630	0.628	0.588	6.76
55) T	1,1,2-Trichlor...	0.295	0.281	0.296	0.285	0.294	0.289	0.290	2.13
56) T	Ethyl methacry...	0.275	0.300	0.344	0.364	0.410	0.414	0.351	16.12

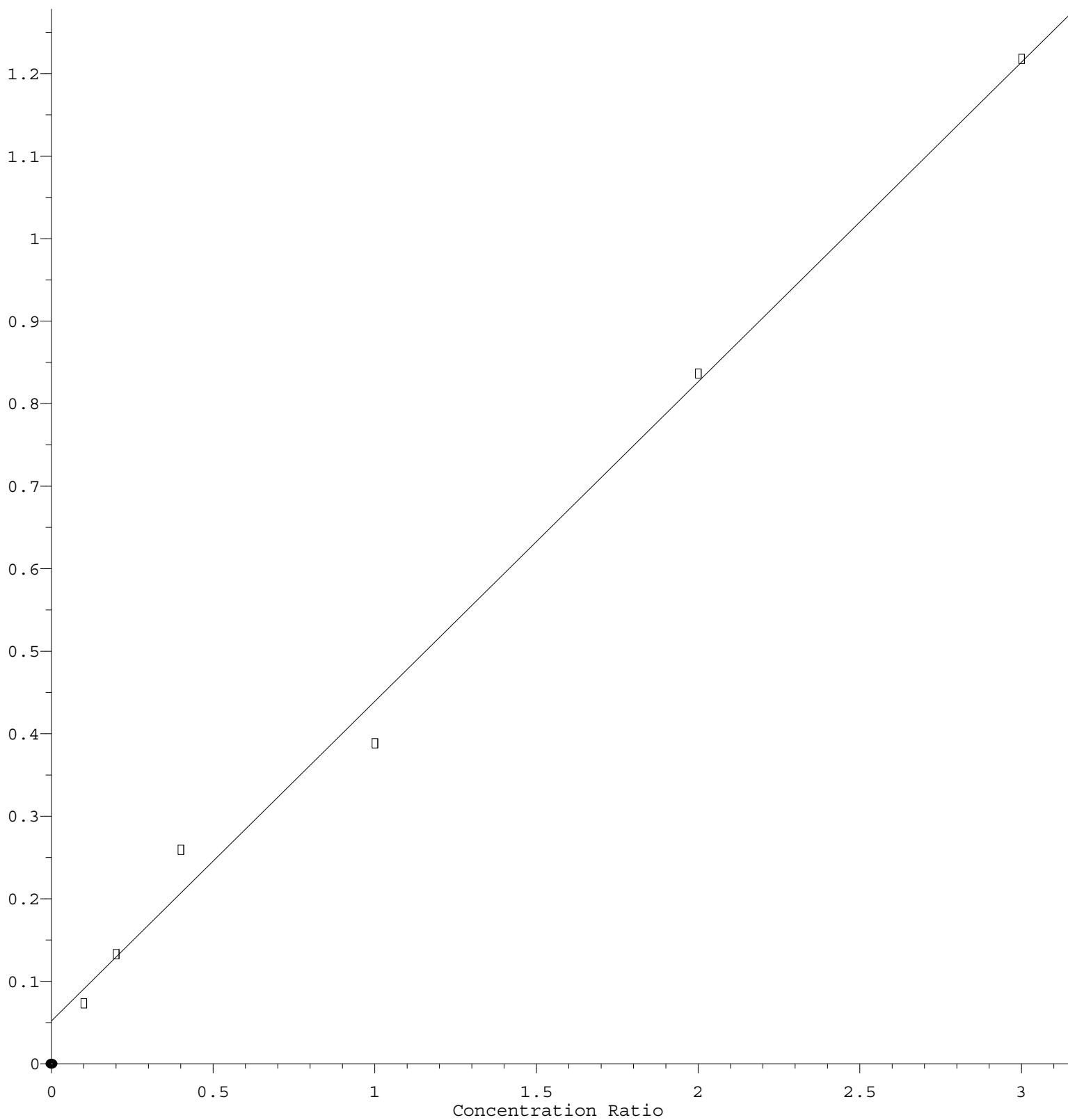
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57)	T	1,3-Dichloropr...	0.465	0.439	0.500	0.462	0.512	0.513	0.482	6.42
58)	T	2-Chloroethyl ...	0.115	0.118	0.138	0.156	0.166	0.170	0.144	16.55
59)	T	2-Hexanone	0.155	0.139	0.168	0.170	0.189	0.189	0.168	11.68
60)	T	Dibromochlorom...	0.353	0.338	0.379	0.354	0.380	0.376	0.363	4.79
61)	T	1,2-Dibromoethane	0.270	0.244	0.293	0.252	0.279	0.275	0.269	6.76
62)	S	4-Bromofluorob...	0.362	0.409	0.414	0.425	0.468	0.466	0.424	9.39
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.360	0.339	0.352	0.316	0.331	0.334	0.339	4.64
65)	PM	Chlorobenzene	1.242	1.073	1.130	1.071	1.123	1.134	1.129	5.51
66)	T	1,1,1,2-Tetrac...	0.391	0.375	0.391	0.381	0.395	0.394	0.388	2.05
67)	C	Ethyl Benzene	1.759	1.647	1.863	1.857	2.086	2.108	1.887	9.60#
68)	T	m/p-Xylenes	0.659	0.640	0.739	0.738	0.809	0.810	0.733	9.82
69)	T	o-Xylene	0.603	0.600	0.649	0.665	0.743	0.757	0.669	10.09
70)	T	Styrene	1.065	1.039	1.200	1.219	1.338	1.351	1.202	10.94
71)	P	Bromoform	0.237	0.226	0.235	0.220	0.233	0.231	0.230	2.77
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.191	2.869	3.174	3.172	3.480	3.575	3.243	7.78
74)	T	N-amyl acetate	0.969	0.817	0.917	0.887	0.982	1.014	0.931	7.78
75)	P	1,1,2,2-Tetrac...	0.803	0.695	0.752	0.650	0.693	0.686	0.713	7.67
76)	T	1,2,3-Trichlor...	0.578	0.391	0.618	0.482	0.417	0.409	0.483	19.79
77)	T	Bromobenzene	0.896	0.808	0.824	0.812	0.847	0.861	0.841	4.02
78)	T	n-propylbenzene	3.879	3.666	4.005	4.057	4.398	4.416	4.070	7.22
79)	T	2-Chlorotoluene	2.375	2.159	2.360	2.308	2.478	2.525	2.368	5.47
80)	T	1,3,5-Trimethy...	2.593	2.484	2.762	2.748	2.990	3.021	2.766	7.66
81)	T	trans-1,4-Dich...	0.263	0.226	0.269	0.248	0.257	0.263	0.254	6.23
82)	T	4-Chlorotoluene	2.703	2.378	2.542	2.439	2.621	2.651	2.556	4.96
83)	T	tert-Butylbenzene	2.194	2.062	2.232	2.264	2.513	2.586	2.308	8.68
84)	T	1,2,4-Trimethy...	2.576	2.427	2.851	2.860	3.103	3.165	2.830	10.18
85)	T	sec-Butylbenzene	3.407	3.162	3.494	3.543	3.855	3.899	3.560	7.82
86)	T	p-Isopropyltol...	2.659	2.569	2.939	3.029	3.311	3.445	2.992	11.58
87)	T	1,3-Dichlorobe...	1.873	1.692	1.761	1.652	1.754	1.796	1.755	4.43
88)	T	1,4-Dichlorobe...	2.078	1.687	1.789	1.640	1.699	1.719	1.769	9.00
89)	T	n-Butylbenzene	2.870	2.532	2.807	2.886	3.123	3.207	2.904	8.28
90)	T	Hexachloroethane	0.755	0.642	0.660	0.625	0.642	0.648	0.662	7.11
91)	T	1,2-Dichlorobe...	1.677	1.430	1.549	1.445	1.519	1.525	1.524	5.80
92)	T	1,2-Dibromo-3-...	0.123	0.126	0.113	0.106	0.105	0.108	0.114	7.88
93)	T	1,2,4-Trichlor...	1.137	0.827	0.914	0.915	0.972	0.985	0.959	10.84
94)	T	Hexachlorobuta...	0.603	0.460	0.485	0.468	0.486	0.491	0.499	10.47
95)	T	Naphthalene	2.024	1.511	1.658	1.687	1.939	1.980	1.800	11.61
96)	T	1,2,3-Trichlor...	0.980	0.750	0.826	0.824	0.884	0.881	0.857	9.02

(#) = Out of Range

Dichlorodifluoromethane

Response Ratio



$$\text{Response} = 3.872\text{e-}001 * \text{Amt} + 5.232\text{e-}002$$

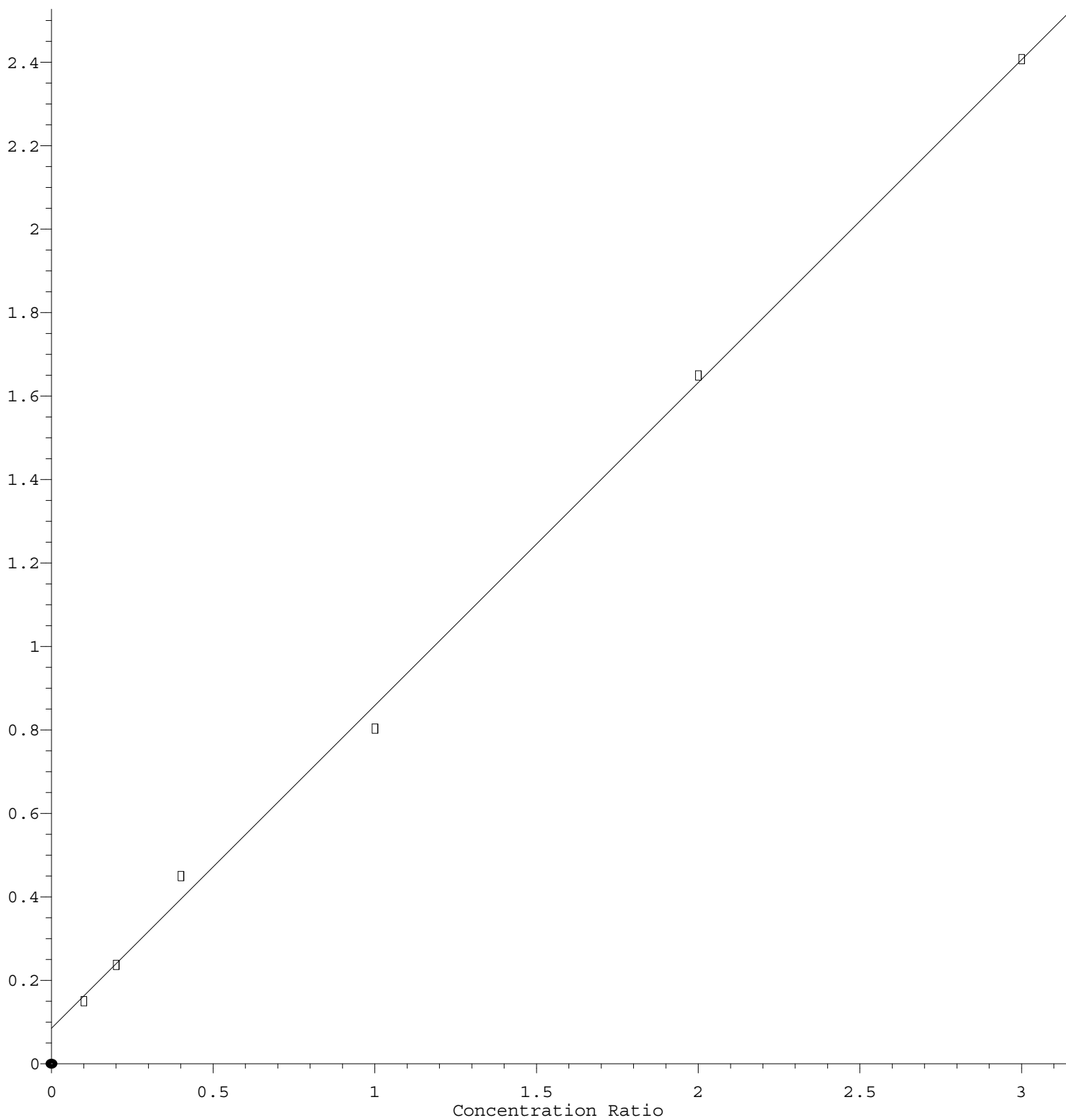
Coef of Det (r^2) = 0.994318 Curve Fit: Linear

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Chloromethane

Response Ratio



$$\text{Response} = 7.736\text{e-}001 * \text{Amt} + 8.543\text{e-}002$$

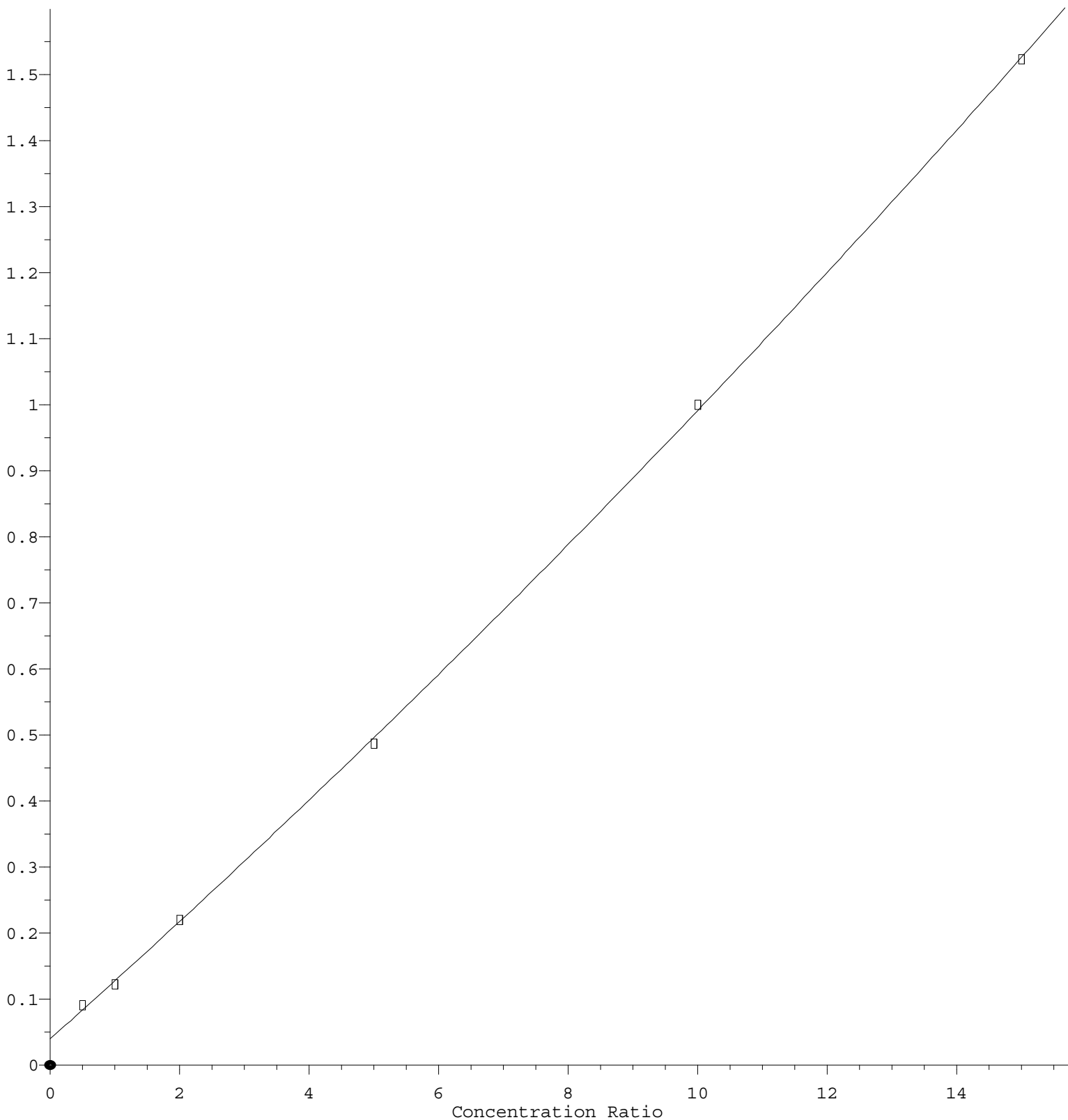
Coef of Det (r^2) = 0.998361 Curve Fit: Linear

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Acetone

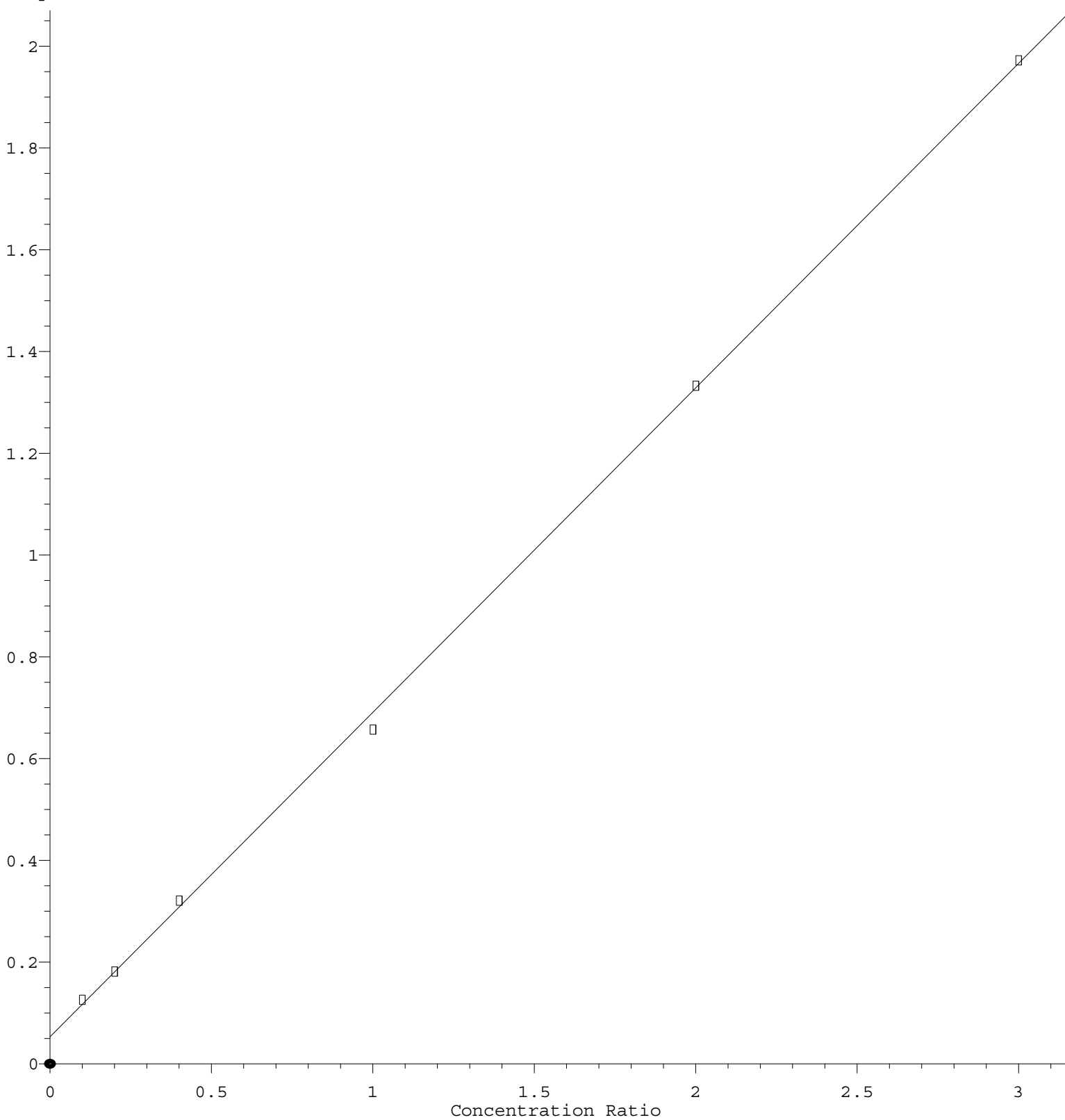
Response Ratio



$R = 7.864e-004 A^2 + 8.728e-002 A + 3.988e-002$
 Coef of Det (r^2) = 0.999847 Curve Fit: Quadratic
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Methylene Chloride

Response Ratio



$$\text{Response} = 6.377\text{e-}001 * \text{Amt} + 5.285\text{e-}002$$

Coef of Det (r^2) = 0.999476 Curve Fit: Linear

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