

Method Path : Z:\voasrv\HPCHEM1\MSVOA_D\Method\
 Method File : 82D031023S.M
 Title : SW846 8260
 Last Update : Fri Mar 10 23:52:37 2023
 Response Via : Initial Calibration

Calibration Files

10 =VD075488.D 5 =VD075494.D 20 =VD075489.D 50 =VD075490.D 100 =VD075491.D 150 =VD075492.D

	Compound	10	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.541	0.571	0.534	0.468	0.431	0.446	0.499	11.56
3) P	Chloromethane	0.968	0.997	0.888	0.768	0.677	0.653	0.825	17.90
4) C	Vinyl Chloride	1.341	1.365	1.304	1.140	1.027	1.023	1.200	13.08#
5) T	Bromomethane	1.015	1.076	0.992	0.897	0.834	0.827	0.940	10.93
6) T	Chloroethane	0.884	0.906	0.867	0.758	0.716	0.692	0.804	11.59
7) T	Trichlorofluor...	1.041	1.085	1.018	0.912	0.873	0.875	0.967	9.51
8) T	Diethyl Ether	0.247	0.273	0.263	0.261	0.250	0.255	0.258	3.67
9) T	1,1,2-Trichlor...	0.655	0.736	0.646	0.593	0.570	0.577	0.629	10.05
10) T	Methyl Iodide	0.719	0.796	0.742	0.740	0.723	0.785	0.751	4.29
11) T	Tert butyl alc...	0.022	0.021	0.021	0.022	0.019	0.020	0.021	4.92
12) CM	1,1-Dichloroet...	0.633	0.709	0.610	0.610	0.573	0.594	0.621	7.61#
13) T	Acrolein	0.046	0.044	0.044	0.039	0.038	0.039	0.042	7.79
14) T	Allyl chloride	0.552	0.625	0.535	0.507	0.498	0.491	0.535	9.35
15) T	Acrylonitrile	0.099	0.107	0.095	0.092	0.087	0.088	0.095	7.80
16) T	Acetone	0.086	0.111	0.077	0.085	0.075	0.072	0.084	16.71
17) T	Carbon Disulfide	2.011	2.128	1.953	1.798	1.678	1.682	1.875	9.85
18) T	Methyl Acetate	0.250	0.268	0.247	0.228	0.220	0.228	0.240	7.46
19) T	Methyl tert-bu...	1.065	1.160	1.052	1.083	1.045	1.061	1.078	3.95
20) T	Methylene Chlo...	0.898	1.327	0.774	0.654	0.603	0.598	0.809	34.48
21) T	trans-1,2-Dich...	0.722	0.814	0.709	0.684	0.654	0.655	0.706	8.41
22) T	Diisopropyl ether	1.174	1.251	1.197	1.154	1.091	1.087	1.159	5.45
23) T	Vinyl Acetate	0.544	0.584	0.566	0.570	0.550	0.561	0.562	2.55
24) P	1,1-Dichloroet...	1.085	1.173	0.990	0.971	0.907	0.896	1.004	10.67
25) T	2-Butanone	0.109	0.124	0.099	0.106	0.098	0.099	0.106	9.46
26) T	2,2-Dichloropr...	0.984	1.054	0.909	0.894	0.849	0.851	0.923	8.73
27) T	cis-1,2-Dichlo...	0.758	0.824	0.748	0.748	0.724	0.740	0.757	4.61
28) T	Bromochloromet...	0.360	0.313	0.340	0.324	0.305	0.300	0.324	7.13
29) T	Tetrahydrofuran	0.058	0.064	0.058	0.056	0.054	0.056	0.058	6.18
30) C	Chloroform	1.180	1.263	1.143	1.087	1.012	1.004	1.115	9.01#
31) T	Cyclohexane	0.849	0.974	0.810	0.766	0.719	0.731	0.808	11.70
32) T	1,1,1-Trichlor...	1.035	1.089	0.996	0.937	0.905	0.903	0.978	7.75
33) S	1,2-Dichloroet...	0.467	0.475	0.460	0.468	0.423	0.428	0.454	4.86
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.342	0.332	0.332	0.358	0.342	0.348	0.342	2.90
36) T	1,1-Dichloropr...	0.511	0.533	0.514	0.503	0.485	0.498	0.507	3.20
37) T	Ethyl Acetate	0.130	0.147	0.136	0.130	0.126	0.125	0.132	6.17
38) T	Carbon Tetrach...	0.468	0.519	0.479	0.483	0.478	0.491	0.486	3.62
39) T	Methylcyclohexane	0.596	0.662	0.637	0.630	0.645	0.669	0.640	4.06
40) TM	Benzene	1.518	1.654	1.508	1.492	1.474	1.479	1.521	4.43
41) T	Methacrylonitrile	0.073	0.078	0.064	0.068	0.067	0.068	0.070	7.22
42) TM	1,2-Dichloroet...	0.352	0.367	0.337	0.329	0.311	0.312	0.335	6.62
43) T	Isopropyl Acetate	0.244	0.246	0.243	0.241	0.245	0.248	0.245	0.93
44) TM	Trichloroethene	0.440	0.502	0.439	0.427	0.430	0.444	0.447	6.19
45) C	1,2-Dichloropr...	0.332	0.342	0.336	0.324	0.312	0.316	0.327	3.66#
46) T	Dibromomethane	0.206	0.208	0.209	0.198	0.192	0.197	0.202	3.36
47) T	Bromodichlorom...	0.500	0.512	0.490	0.481	0.470	0.476	0.488	3.20
48) T	Methyl methacr...	0.119	0.112	0.115	0.110	0.116	0.118	0.115	3.01
49) T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	8.14
50) S	Toluene-d8	1.235	1.279	1.273	1.475	1.417	1.437	1.353	7.52
51) T	4-Methyl-2-Pen...	0.125	0.127	0.128	0.127	0.127	0.130	0.127	1.24
52) CM	Toluene	0.945	1.009	0.981	1.000	0.986	0.992	0.986	2.25#
53) T	t-1,3-Dichloro...	0.413	0.463	0.431	0.441	0.437	0.448	0.439	3.80
54) T	cis-1,3-Dichlo...	0.511	0.584	0.526	0.537	0.533	0.543	0.539	4.53
55) T	1,1,2-Trichlor...	0.281	0.311	0.286	0.282	0.276	0.276	0.285	4.59
56) T	Ethyl methacry...	0.236	0.262	0.264	0.283	0.289	0.295	0.272	8.01

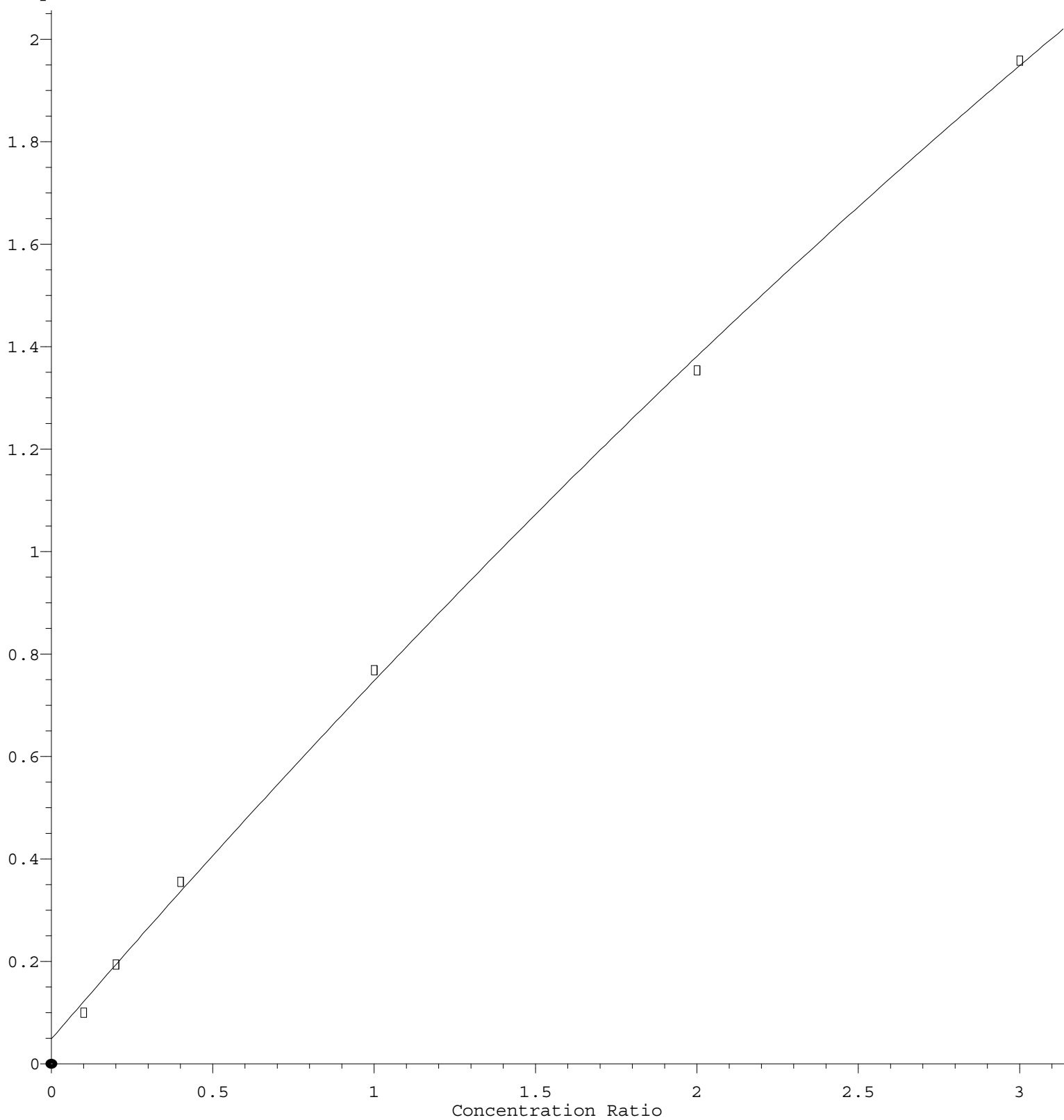
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57)	T	1,3-Dichloropr...	0.440	0.476	0.436	0.434	0.422	0.426	0.439	4.41
58)	T	2-Chloroethyl ...	0.125	0.107	0.137	0.138	0.146	0.145	0.133	11.12
59)	T	2-Hexanone	0.085	0.090	0.088	0.093	0.092	0.092	0.090	3.49
60)	T	Dibromochlorom...	0.331	0.349	0.335	0.333	0.334	0.340	0.337	1.97
61)	T	1,2-Dibromoethane	0.258	0.297	0.261	0.270	0.260	0.268	0.269	5.41
62)	S	4-Bromofluorob...	0.359	0.392	0.386	0.412	0.394	0.404	0.391	4.67
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.383	0.428	0.380	0.397	0.383	0.397	0.395	4.54
65)	PM	Chlorobenzene	1.165	1.301	1.162	1.178	1.154	1.155	1.186	4.83
66)	T	1,1,1,2-Tetrac...	0.399	0.433	0.395	0.405	0.401	0.405	0.406	3.37
67)	C	Ethyl Benzene	1.930	2.101	2.001	2.091	2.044	2.086	2.042	3.24#
68)	T	m/p-Xylenes	0.775	0.787	0.814	0.856	0.839	0.854	0.821	4.22
69)	T	o-Xylene	0.703	0.752	0.753	0.792	0.777	0.797	0.762	4.53
70)	T	Styrene	1.180	1.223	1.245	1.331	1.304	1.323	1.268	4.80
71)	P	Bromoform	0.202	0.206	0.211	0.207	0.207	0.212	0.207	1.72
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.725	4.319	3.856	4.052	3.992	4.080	4.004	5.08
74)	T	N-amyl acetate	0.473	0.527	0.485	0.478	0.499	0.514	0.496	4.26
75)	P	1,1,2,2-Tetrac...	0.704	0.804	0.686	0.644	0.616	0.621	0.679	10.37
76)	T	1,2,3-Trichlor...	0.313	0.459	0.486	0.382	0.373	0.449	0.410	15.89
77)	T	Bromobenzene	0.913	1.064	0.920	0.915	0.933	0.967	0.952	6.12
78)	T	n-propylbenzene	4.703	5.301	4.838	4.820	4.714	4.815	4.865	4.55
79)	T	2-Chlorotoluene	2.626	2.966	2.615	2.559	2.495	2.557	2.636	6.38
80)	T	1,3,5-Trimethy...	3.192	3.483	3.191	3.280	3.250	3.305	3.283	3.29
81)	T	trans-1,4-Dich...	0.188	0.207	0.193	0.195	0.188	0.198	0.195	3.72
82)	T	4-Chlorotoluene	2.752	3.145	2.661	2.606	2.564	2.594	2.720	8.02
83)	T	tert-Butylbenzene	2.563	3.158	2.675	2.885	2.943	2.899	2.854	7.35
84)	T	1,2,4-Trimethy...	2.989	3.117	3.226	3.193	3.219	3.296	3.173	3.38
85)	T	sec-Butylbenzene	4.263	4.815	4.283	4.381	4.338	4.427	4.418	4.62
86)	T	p-Isopropyltol...	3.344	3.765	3.460	3.661	3.664	3.765	3.610	4.75
87)	T	1,3-Dichlorobe...	1.890	2.207	1.878	1.915	1.940	1.976	1.968	6.23
88)	T	1,4-Dichlorobe...	1.920	2.301	1.871	1.852	1.856	1.879	1.947	9.01
89)	T	n-Butylbenzene	3.186	3.492	3.230	3.297	3.291	3.369	3.311	3.29
90)	T	Hexachloroethane	0.677	0.830	0.675	0.663	0.665	0.672	0.697	9.35
91)	T	1,2-Dichlorobe...	1.579	1.912	1.599	1.622	1.619	1.659	1.665	7.45
92)	T	1,2-Dibromo-3-...	0.079	0.102	0.086	0.084	0.080	0.081	0.085	10.04
93)	T	1,2,4-Trichlor...	0.895	1.152	0.875	0.919	0.971	1.014	0.971	10.54
94)	T	Hexachlorobuta...	0.426	0.527	0.434	0.450	0.463	0.477	0.463	7.90
95)	T	Naphthalene	1.532	2.021	1.595	1.755	1.837	1.957	1.783	10.90
96)	T	1,2,3-Trichlor...	0.743	1.048	0.744	0.789	0.824	0.881	0.838	13.78

(#) = Out of Range

Chloromethane

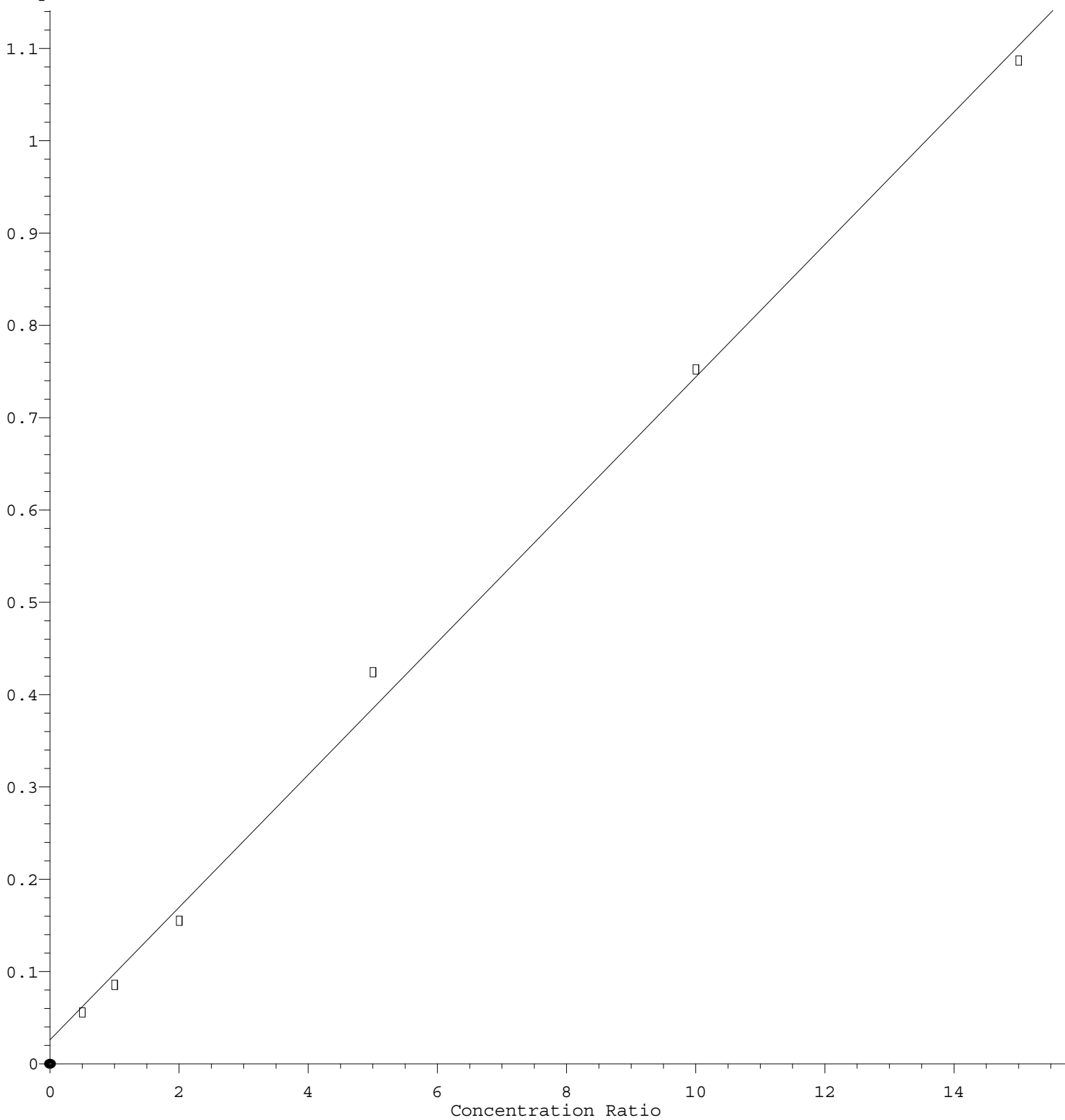
Response Ratio



$R = -3.286e-002 A^2 + 7.319e-001 A + 4.870e-002$
Coef of Det (r^2) = 0.999218 Curve Fit: Quadratic
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Acetone

Response Ratio



$$\text{Response} = 7.181\text{e-}002 * \text{Amt} + 2.561\text{e-}002$$

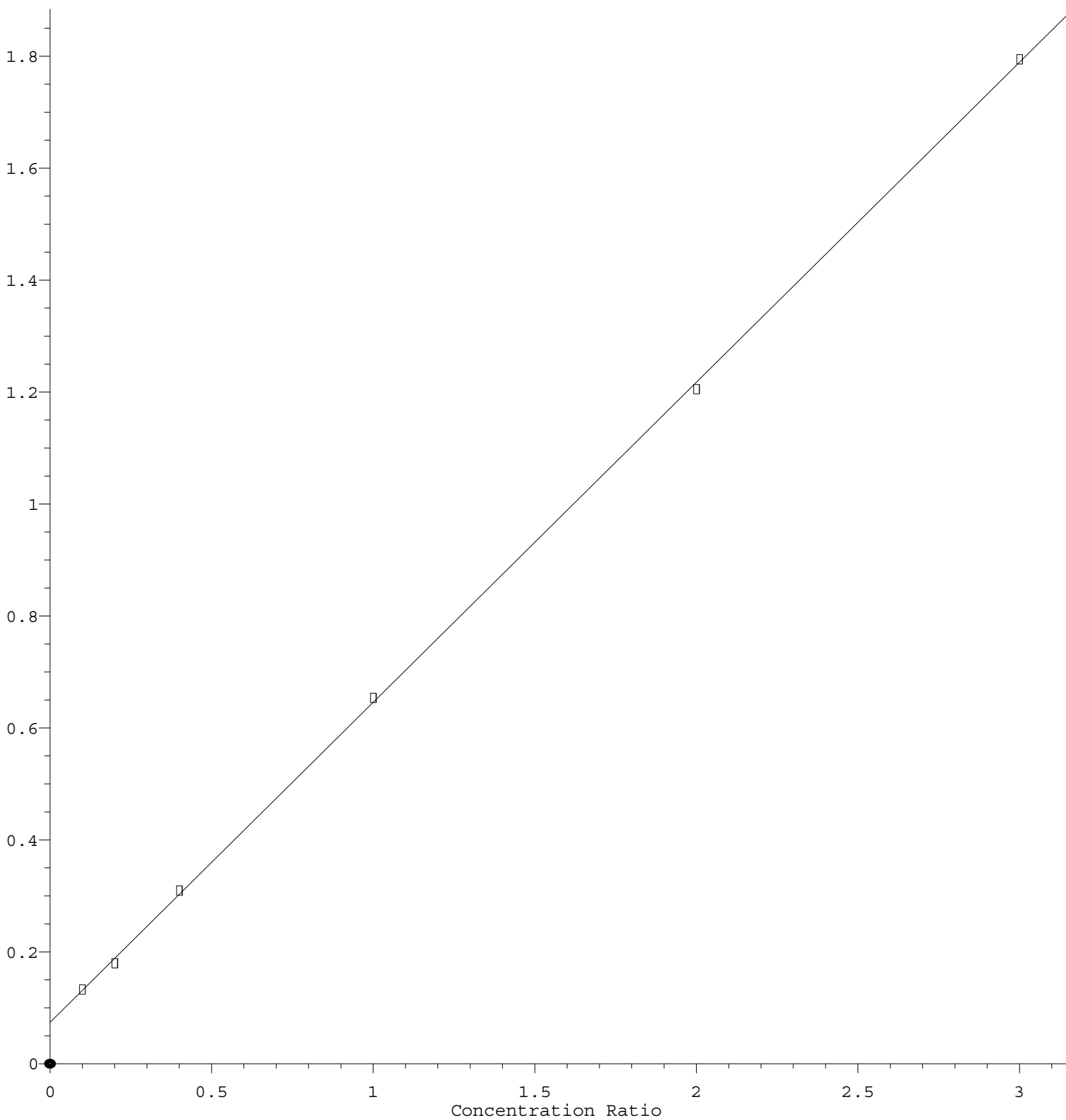
Coef of Det (r^2) = 0.997386 Curve Fit: Linear

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Methylene Chloride

Response Ratio



$$\text{Response} = 5.717\text{e-}001 * \text{Amt} + 7.409\text{e-}002$$

Coef of Det (r^2) = 0.999834 Curve Fit: Linear

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