

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
 Method File : 82Y042122S.M
 Title : SW846 8260
 Last Update : Thu Apr 21 14:28:40 2022
 Response Via : Initial Calibration

Calibration Files

5 =VY008435.D 10 =VY008436.D 20 =VY008437.D 50 =VY008438.D 100 =VY008439.D 150 =VY008440.D

	Compound	5	10	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.459	0.388	0.446	0.452	0.476	0.504	0.454	8.51
3) P	Chloromethane	0.790	0.675	0.769	0.752	0.680	0.621	0.714	9.20
4) C	Vinyl Chloride	0.972	0.873	1.003	0.989	0.906	0.826	0.928	7.64#
5) T	Bromomethane	0.987	0.868	0.927	0.839	0.792	0.767	0.863	9.58
6) T	Chloroethane	0.631	0.583	0.674	0.646	0.613	0.559	0.618	6.84
7) T	Trichlorofluor...	0.968	0.884	1.048	0.961	0.968	0.940	0.962	5.52
8) T	Diethyl Ether	0.333	0.327	0.337	0.346	0.329	0.313	0.331	3.29
9) T	1,1,2-Trichlor...	0.570	0.517	0.626	0.564	0.587	0.572	0.573	6.16
10) T	Methyl Iodide	0.540	0.557	0.685	0.772	0.788	0.762	0.684	16.23
11) T	Tert butyl alc...	0.089	0.078	0.068	0.062	0.060	0.054	0.068	18.87
12) CM	1,1-Dichloroet...	0.541	0.490	0.568	0.553	0.553	0.537	0.540	4.96#
13) T	Acrolein	0.054	0.070	0.070	0.064	0.061	0.056	0.063	10.92
14) T	Allyl chloride	0.663	0.630	0.747	0.728	0.745	0.719	0.705	6.81
15) T	Acrylonitrile	0.171	0.176	0.169	0.179	0.168	0.153	0.169	5.37
16) T	Acetone	0.138	0.148	0.130	0.152	0.140	0.114	0.137	9.84
17) T	Carbon Disulfide	1.553	1.438	1.703	1.705	1.722	1.682	1.634	6.97
18) T	Methyl Acetate	0.481	0.388	0.364	0.386	0.362	0.326	0.384	13.68
19) T	Methyl tert-bu...	1.689	1.636	1.726	1.821	1.745	1.643	1.710	4.08
20) T	Methylene Chlo...	1.300	0.948	0.847	0.772	0.671	0.647	0.864	27.89
21) T	trans-1,2-Dich...	0.646	0.589	0.690	0.683	0.682	0.666	0.659	5.75
22) T	Diisopropyl ether	1.634	1.648	1.765	1.793	1.736	1.646	1.704	4.07
23) T	Vinyl Acetate	1.031	1.174	1.190	1.278	1.215	1.121	1.168	7.24
24) P	1,1-Dichloroet...	1.012	0.973	1.107	1.109	1.103	1.058	1.060	5.39
25) T	2-Butanone	0.208	0.223	0.207	0.231	0.218	0.185	0.212	7.48
26) T	2,2-Dichloropr...	0.959	0.874	1.011	1.020	1.029	1.000	0.982	5.95
27) T	cis-1,2-Dichlo...	0.733	0.679	0.781	0.794	0.783	0.754	0.754	5.73
28) T	Bromochloromet...	0.453	0.410	0.415	0.473	0.409	0.407	0.428	6.53
29) T	Tetrahydrofuran	0.136	0.148	0.132	0.145	0.137	0.122	0.137	6.72
30) C	Chloroform	1.144	1.051	1.233	1.228	1.196	1.139	1.165	5.91#
31) T	Cyclohexane	1.045	0.921	1.025	0.934	0.956	0.922	0.967	5.64
32) T	1,1,1-Trichlor...	0.971	0.898	1.075	1.059	1.080	1.037	1.020	7.03
33) S	1,2-Dichloroet...	0.620	0.502	0.530	0.673	0.627	0.577	0.588	10.90
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.311	0.265	0.301	0.368	0.347	0.343	0.323	11.60
36) T	1,1-Dichloropr...	0.481	0.473	0.564	0.515	0.522	0.524	0.513	6.39
37) T	Ethyl Acetate	0.290	0.321	0.277	0.284	0.276	0.255	0.284	7.62
38) T	Carbon Tetrach...	0.507	0.471	0.558	0.539	0.561	0.563	0.533	7.00
39) T	Methylcyclohexane	0.580	0.579	0.703	0.665	0.710	0.707	0.657	9.53
40) TM	Benzene	1.406	1.382	1.592	1.544	1.546	1.515	1.498	5.63
41) T	Methacrylonitrile	0.146	0.141	0.158	0.124	0.137	0.121	0.138	10.15
42) TM	1,2-Dichloroet...	0.439	0.450	0.467	0.473	0.452	0.424	0.451	4.01
43) T	Isopropyl Acetate	0.488	0.553	0.519	0.555	0.532	0.485	0.522	5.83
44) TM	Trichloroethene	0.397	0.371	0.436	0.413	0.432	0.426	0.413	6.00
45) C	1,2-Dichloropr...	0.336	0.337	0.376	0.380	0.372	0.356	0.360	5.50#
46) T	Dibromomethane	0.241	0.250	0.255	0.269	0.254	0.242	0.252	4.06
47) T	Bromodichlorom...	0.506	0.490	0.562	0.567	0.551	0.534	0.535	5.82
48) T	Methyl methacr...	0.211	0.227	0.217	0.237	0.225	0.216	0.222	4.31
49) T	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	6.65
50) S	Toluene-d8	1.114	0.881	1.081	1.348	1.311	1.322	1.176	15.63
51) T	4-Methyl-2-Pen...	0.265	0.292	0.272	0.291	0.277	0.252	0.275	5.59
52) CM	Toluene	0.902	0.890	1.013	1.021	1.042	1.073	0.990	7.66#
53) T	t-1,3-Dichloro...	0.526	0.539	0.572	0.620	0.602	0.582	0.574	6.29
54) T	cis-1,3-Dichlo...	0.602	0.597	0.656	0.667	0.654	0.637	0.636	4.66
55) T	1,1,2-Trichlor...	0.338	0.340	0.348	0.365	0.343	0.328	0.344	3.54
56) T	Ethyl methacry...	0.383	0.423	0.443	0.484	0.475	0.456	0.444	8.36

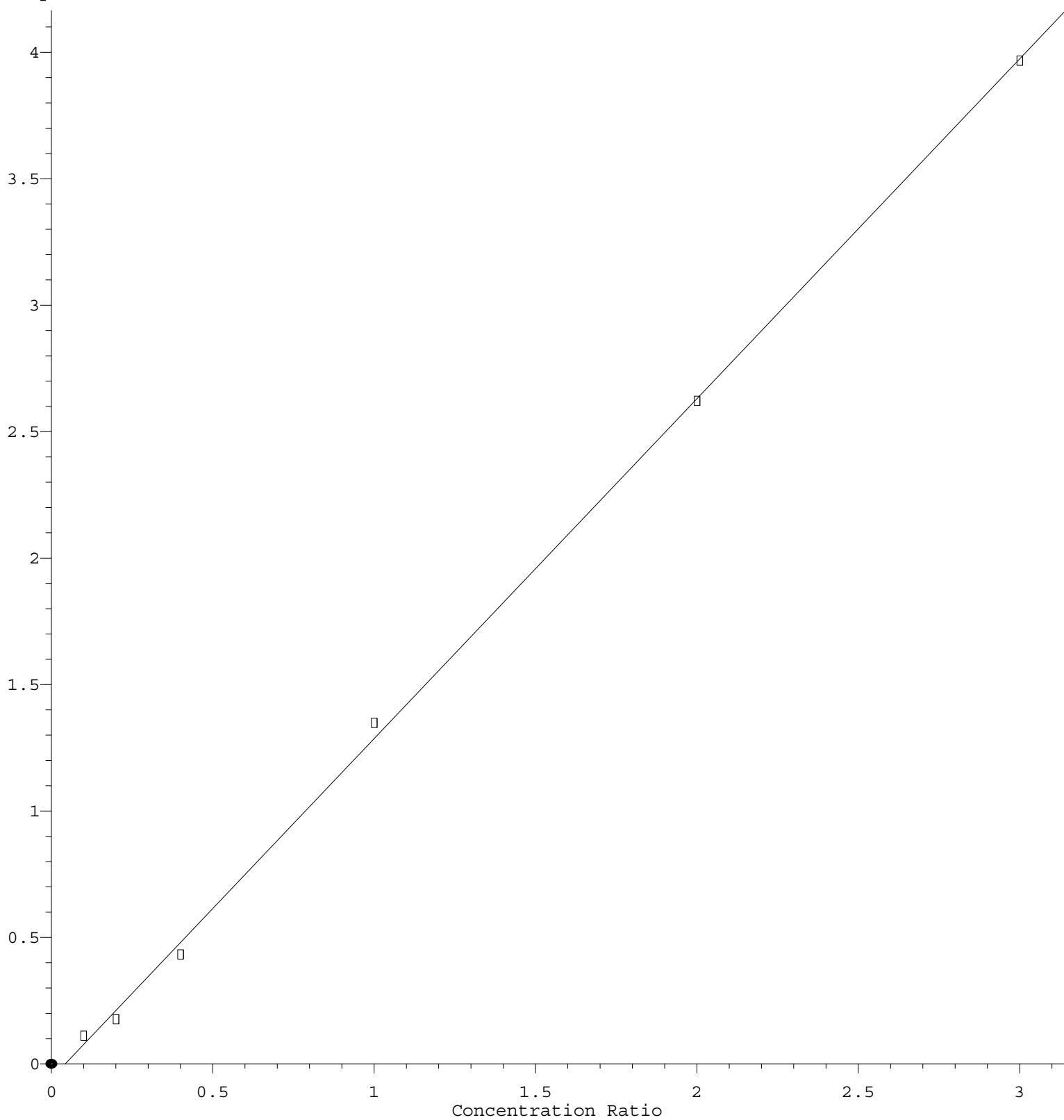
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57)	T	1,3-Dichloropr...	0.537	0.556	0.574	0.600	0.568	0.533	0.561	4.43
58)	T	2-Chloroethyl ...	0.221	0.242	0.234	0.267	0.251	0.245	0.243	6.40
59)	T	2-Hexanone	0.168	0.200	0.186	0.207	0.197	0.177	0.189	7.96
60)	T	Dibromochlorom...	0.351	0.367	0.405	0.428	0.415	0.405	0.395	7.47
61)	T	1,2-Dibromoethane	0.320	0.337	0.346	0.360	0.348	0.330	0.340	4.14
62)	S	4-Bromofluorob...	0.417	0.361	0.399	0.480	0.469	0.480	0.435	11.39
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.362	0.351	0.397	0.354	0.386	0.375	0.371	4.89
65)	PM	Chlorobenzene	1.076	1.047	1.168	1.137	1.191	1.164	1.131	5.01
66)	T	1,1,1,2-Tetrac...	0.385	0.364	0.419	0.423	0.452	0.462	0.417	9.09
67)	C	Ethyl Benzene	1.786	1.738	2.045	1.949	2.131	2.124	1.962	8.62#
68)	T	m/p-Xylenes	0.677	0.686	0.808	0.784	0.890	0.871	0.786	11.43
69)	T	o-Xylene	0.676	0.663	0.781	0.759	0.837	0.823	0.757	9.70
70)	T	Styrene	1.090	1.090	1.270	1.321	1.471	1.408	1.275	12.47
71)	P	Bromoform	0.224	0.246	0.249	0.271	0.288	0.292	0.262	10.17
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.635	3.437	4.134	3.771	3.904	3.865	3.791	6.31
74)	T	N-ethyl acetate	0.947	0.947	1.000	1.009	0.922	0.796	0.937	8.17
75)	P	1,1,2,2-Tetrac...	0.842	0.894	0.889	0.898	0.814	0.745	0.847	7.11
76)	T	1,2,3-Trichlor...	0.679	0.698	0.651	0.664	0.615	0.577	0.647	6.86
77)	T	Bromobenzene	0.913	0.893	0.981	0.946	0.897	0.918	0.925	3.63
78)	T	n-propylbenzene	4.380	4.220	5.007	4.581	4.609	4.486	4.547	5.87
79)	T	2-Chlorotoluene	2.608	2.352	2.788	2.582	2.547	2.479	2.559	5.65
80)	T	1,3,5-Trimethy...	3.021	2.861	3.464	3.122	3.276	3.137	3.147	6.60
81)	T	trans-1,4-Dich...	0.256	0.276	0.279	0.301	0.289	0.273	0.279	5.43
82)	T	4-Chlorotoluene	2.530	2.502	2.877	2.715	2.775	2.514	2.652	5.99
83)	T	tert-Butylbenzene	2.572	2.476	2.996	2.715	2.829	2.801	2.732	6.85
84)	T	1,2,4-Trimethy...	2.961	2.866	3.404	3.121	3.282	3.098	3.122	6.36
85)	T	sec-Butylbenzene	3.891	3.756	4.551	4.132	4.300	4.104	4.122	6.89
86)	T	p-Isopropyltol...	3.227	3.043	3.788	3.424	3.702	3.530	3.452	8.20
87)	T	1,3-Dichlorobe...	1.770	1.714	1.929	1.847	1.954	1.892	1.851	5.06
88)	T	1,4-Dichlorobe...	1.828	1.741	1.929	1.811	1.867	1.824	1.834	3.40
89)	T	n-Butylbenzene	2.941	2.901	3.486	3.206	3.188	3.080	3.134	6.79
90)	T	Hexachloroethane	0.574	0.558	0.691	0.640	0.632	0.630	0.621	7.81
91)	T	1,2-Dichlorobe...	1.579	1.575	1.757	1.644	1.682	1.639	1.646	4.14
92)	T	1,2-Dibromo-3-...	0.132	0.144	0.127	0.132	0.119	0.110	0.127	9.29
93)	T	1,2,4-Trichlor...	0.910	0.908	1.023	0.931	0.872	0.854	0.916	6.47
94)	T	Hexachlorobuta...	0.444	0.440	0.512	0.439	0.424	0.422	0.447	7.45
95)	T	Naphthalene	2.080	2.109	2.203	2.172	1.992	1.905	2.077	5.39
96)	T	1,2,3-Trichlor...	0.805	0.812	0.887	0.823	0.749	0.735	0.802	6.88

(#) = Out of Range

Toluene-d8

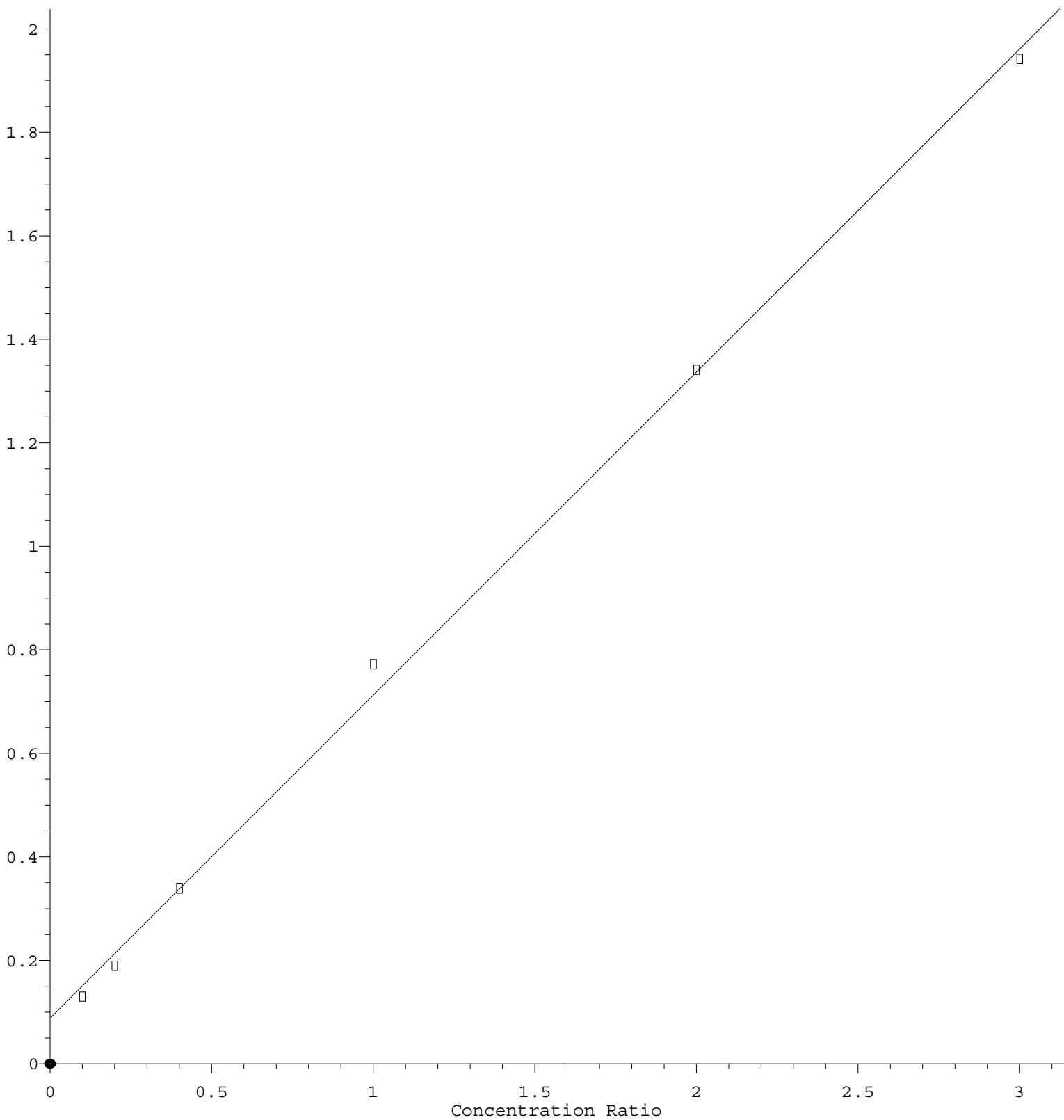
Response Ratio



Response = 1.344e+000 * Amt - 5.826e-002
Coef of Det (r^2) = 0.999288 Curve Fit: Linear
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Methylene Chloride

Response Ratio



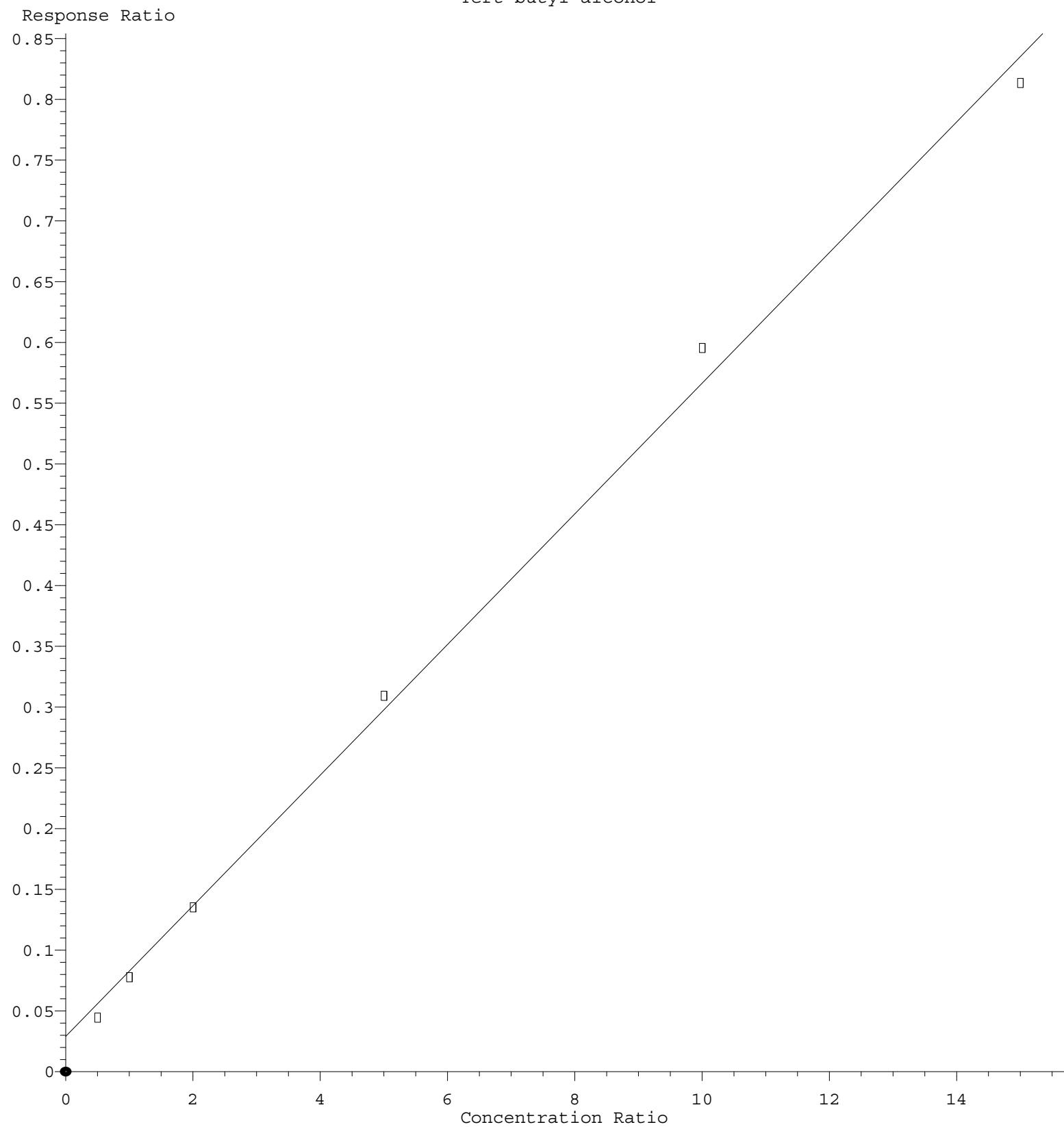
$$\text{Response} = 6.247\text{e-}001 * \text{Amt} + 8.794\text{e-}002$$

Coef of Det (r^2) = 0.998132 Curve Fit: Linear

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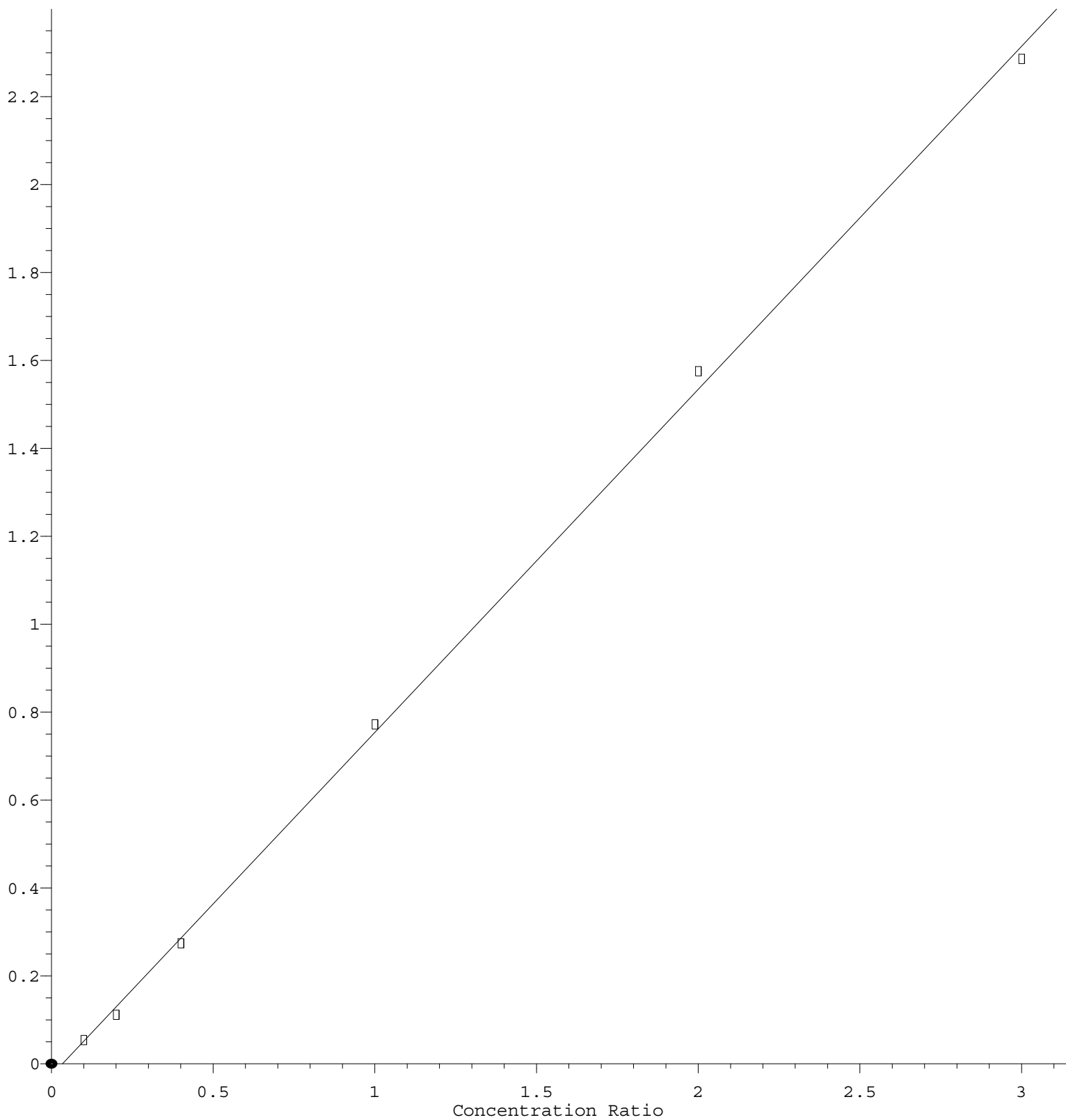
Tert butyl alcohol



Response = $5.376 \times 10^{-2} \times \text{Amt} + 2.910 \times 10^{-2}$
Coef of Det (r^2) = 0.996718 Curve Fit: Linear
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Methyl Iodide

Response Ratio



$$\text{Response} = 7.807\text{e-}001 * \text{Amt} - 2.642\text{e-}002$$

Coef of Det (r^2) = 0.999190 Curve Fit: Linear

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