

Method Path : Z:\voasrv\HPCHEM1\MSVOA_R\methods\
 Method File : 82R082025W.M
 Title : SW846 8260
 Last Update : Thu Aug 21 08:59:04 2025
 Response Via : Initial Calibration

Calibration Files

5 =VR026741.D 10 =VR026742.D 20 =VR026743.D 50 =VR026745.D 100 =VR026746.D 40 =VR026744.D

	Compound	5	10	20	50	100	40	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.464	0.501	0.495	0.471	0.434	0.470	0.472	5.06
3) P	Chloromethane	0.061	0.063	0.059	0.052	0.047	0.054	0.056	10.38
4) C	Vinyl Chloride	0.832	0.865	0.837	0.715	0.654	0.762	0.777	10.52#
5) T	Bromomethane	0.205	0.414	0.348	0.156	0.126	0.184	0.239	48.19
6) T	Chloroethane	0.529	0.533	0.514	0.370	0.279	0.437	0.444	23.19
7) T	Trichlorofluor...	1.761	1.711	1.638	1.338	1.125	1.469	1.507	16.24
8) T	Diethyl Ether	0.495	0.467	0.482	0.484	0.479	0.486	0.482	1.91
9) T	1,1,2-Trichlor...	0.612	0.602	0.595	0.601	0.599	0.604	0.602	0.98
10) T	Methyl Iodide	0.601	0.623	0.645	0.655	0.663	0.654	0.640	3.70
11) T	Tert butyl alc...	0.084	0.092	0.098	0.106	0.097	0.102	0.097	7.94
12) CM	1,1-Dichloroet...	0.633	0.626	0.655	0.674	0.660	0.673	0.654	3.08#
13) T	Acrolein	0.117	0.053	0.059	0.057	0.058	0.057	0.067	37.05
14) T	Allyl chloride	1.139	1.186	1.242	1.243	1.162	1.254	1.204	4.03
15) T	Acrylonitrile	0.416	0.423	0.428	0.419	0.357	0.434	0.413	6.79
16) T	Acetone	0.399	0.359	0.331	0.315	0.273	0.317	0.332	12.87
17) T	Carbon Disulfide	1.362	1.500	1.662	1.735	1.552	1.712	1.587	9.04
18) T	Methyl Acetate	0.937	1.015	0.986	0.960	0.931	0.980	0.968	3.30
19) T	Methyl tert-bu...	1.976	2.022	2.122	2.192	1.948	2.177	2.073	5.06
20) T	Methylene Chlo...	0.742	0.710	0.709	0.705	0.683	0.703	0.709	2.71
21) T	trans-1,2-Dich...	0.636	0.670	0.693	0.708	0.689	0.704	0.683	3.90
22) T	Diisopropyl ether	2.528	2.532	2.629	2.510	2.073	2.594	2.478	8.20
23) T	Vinyl Acetate	2.063	2.059	2.010	1.387	0.735	1.606	1.643	31.92
24) P	1,1-Dichloroet...	1.220	1.187	1.226	1.245	1.191	1.248	1.219	2.13
25) T	2-Butanone	0.551	0.544	0.548	0.515	0.394	0.543	0.516	11.81
26) T	2,2-Dichloropr...	0.721	0.748	0.821	0.910	0.936	0.876	0.835	10.44
27) T	cis-1,2-Dichlo...	0.715	0.736	0.777	0.808	0.797	0.806	0.773	5.10
28) T	Bromochloromet...	0.454	0.345	0.354	0.342	0.334	0.336	0.361	12.79
29) C	Chloroform	1.070	1.062	1.108	1.126	1.081	1.124	1.095	2.54#
30) T	Cyclohexane	1.423	1.333	1.299	1.248	1.139	1.273	1.286	7.32
31) T	1,1,1-Trichlor...	0.776	0.809	0.874	0.963	0.981	0.934	0.890	9.46
32) S	1,2-Dichloroet...		0.625	0.589	0.632	0.674	0.619	0.628	4.85
33) I	1,4-Difluorobenzene	-----ISTD-----							
34) S	Dibromofluorom...		0.322	0.299	0.334	0.355	0.320	0.326	6.30
35) T	1,1-Dichloropr...	0.459	0.468	0.495	0.542	0.557	0.526	0.508	7.89
36) T	Ethyl Acetate	0.594	0.654	0.631	0.677	0.673	0.669	0.650	4.96
37) T	Carbon Tetrach...	0.375	0.382	0.428	0.508	0.567	0.482	0.457	16.58
38) T	Methylcyclohexane	0.600	0.629	0.632	0.660	0.644	0.648	0.635	3.26
39) TM	Benzene	1.608	1.628	1.680	1.592	1.187	1.661	1.559	11.88
40) T	Methacrylonitrile	0.334	0.316	0.313	0.342	0.371	0.356	0.339	6.68
41) TM	1,2-Dichloroet...	0.423	0.408	0.421	0.445	0.460	0.436	0.432	4.32
42) T	Isopropyl Acetate	0.840	0.912	0.950	0.981	0.848	0.996	0.921	7.21
43) TM	Trichloroethene	0.329	0.333	0.331	0.344	0.364	0.340	0.340	3.83
44) C	1,2-Dichloropr...	0.347	0.365	0.362	0.383	0.407	0.376	0.373	5.50#
45) T	Dibromomethane	0.214	0.212	0.229	0.249	0.278	0.240	0.237	10.35
46) T	Bromodichlorom...	0.383	0.410	0.434	0.468	0.495	0.458	0.441	9.24
47) T	Methyl methacr...	0.388	0.408	0.442	0.488	0.490	0.481	0.450	9.79
48) T	1,4-Dioxane	0.005	0.005	0.006	0.006	0.005	0.006	0.006	12.65
49) S	Toluene-d8		1.241	1.144	1.093	0.868	1.121	1.093	12.61
50) T	4-Methyl-2-Pen...	0.508	0.551	0.556	0.403	0.252	0.463	0.455	25.26
51) CM	Toluene	0.891	0.898	0.929	0.925	0.769	0.929	0.890	6.94#
52) T	t-1,3-Dichloro...	0.327	0.360	0.412	0.472	0.486	0.452	0.418	15.31
53) T	cis-1,3-Dichlo...	0.440	0.460	0.509	0.553	0.544	0.537	0.507	9.29
54) T	1,1,2-Trichlor...	0.290	0.309	0.313	0.323	0.340	0.321	0.316	5.27
55) T	Ethyl methacry...	0.478	0.502	0.549	0.593	0.557	0.582	0.544	8.30
56) T	1,3-Dichloropr...	0.509	0.513	0.539	0.555	0.531	0.549	0.533	3.48

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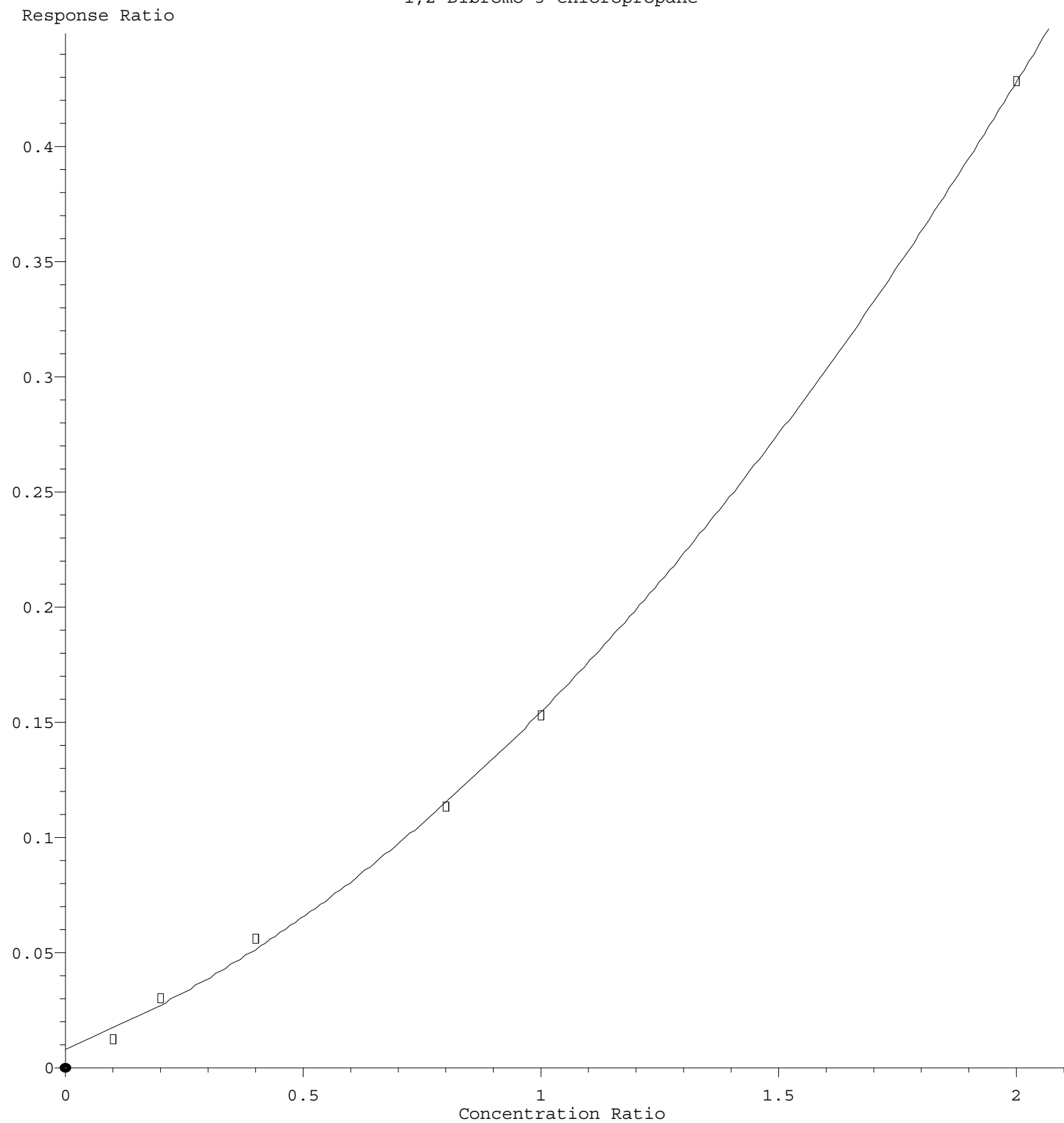
57)	T	2-Chloroethyl ...	0.014	0.016	0.024	0.037	0.050	0.033	0.029	47.62
58)	T	2-Hexanone	0.315	0.323	0.363	0.318	0.200	0.350	0.311	18.62
59)	T	Dibromochlorom...	0.244	0.275	0.297	0.318	0.340	0.310	0.297	11.39
60)	T	1,2-Dibromoethane	0.262	0.268	0.284	0.299	0.307	0.294	0.286	6.21
61)	S	4-Bromofluorob...	0.306	0.294	0.331	0.310	0.310	0.310		4.27

62)	I	Chlorobenzene-d5	-----ISTD-----							
63)	T	Tetrachloroethene	0.351	0.346	0.341	0.348	0.380	0.342	0.351	4.20
64)	PM	Chlorobenzene	1.137	1.142	1.150	1.135	0.956	1.157	1.113	6.96
65)	T	1,1,1,2-Tetrac...	0.304	0.334	0.354	0.397	0.475	0.378	0.374	15.84
66)	C	Ethyl Benzene	1.946	2.031	2.077	1.834	1.283	1.991	1.860	15.84#
67)	T	m/p-Xylenes	0.776	0.784	0.813	0.820	0.642	0.836	0.778	9.03
68)	T	o-Xylene	0.733	0.760	0.784	0.835	0.815	0.806	0.789	4.80
69)	T	Styrene	1.081	1.094	1.195	1.285	1.047	1.264	1.161	8.71
70)	P	Bromoform	0.148	0.185	0.206	0.228	0.221	0.221	0.201	15.13

71)	I	1,4-Dichlorobenzen...	-----ISTD-----							
72)	T	Isopropylbenzene	5.688	6.105	5.887	5.071	4.473	5.342	5.427	11.01
73)	T	N-amyl acetate	1.567	1.537	1.885	2.345	2.168	2.255	1.959	17.94
74)	P	1,1,2,2-Tetrac...	1.496	1.606	1.555	1.597	1.512	1.556	1.554	2.84
75)	T	1,2,3-Trichlor...	1.124	1.284	1.309	1.236	1.174	1.268	1.233	5.74
76)	T	Bromobenzene	1.111	1.130	1.133	1.203	1.404	1.147	1.188	9.31
77)	T	n-propylbenzene	6.238	6.511	6.347	5.472	4.496	5.848	5.819	12.87
78)	T	2-Chlorotoluene	3.370	3.415	3.444	3.537	3.377	3.474	3.436	1.84
79)	T	1,3,5-Trimethy...	4.095	4.245	4.194	4.084	3.530	4.168	4.053	6.49
80)	T	trans-1,4-Dich...	0.285	0.321	0.374	0.476	0.529	0.437	0.404	23.16
81)	T	4-Chlorotoluene	3.010	2.978	3.122	3.359	3.162	3.261	3.149	4.62
82)	T	tert-Butylbenzene	3.763	4.082	3.947	3.770	3.335	3.838	3.789	6.68
83)	T	1,2,4-Trimethy...	3.451	3.718	3.863	3.934	3.318	3.889	3.696	6.90
84)	T	sec-Butylbenzene	5.066	5.322	5.255	4.803	3.762	5.034	4.874	11.79
85)	T	p-Isopropyltol...	3.626	3.863	3.973	3.997	3.234	4.031	3.787	8.15
86)	T	1,3-Dichlorobe...	1.674	1.712	1.709	1.826	1.889	1.775	1.764	4.64
87)	T	1,4-Dichlorobe...	1.689	1.673	1.707	1.729	1.721	1.680	1.700	1.33
88)	T	n-Butylbenzene	2.530	2.675	2.706	2.783	2.738	2.803	2.706	3.63
89)	T	Hexachloroethane	0.515	0.601	0.635	0.670	0.610	0.655	0.614	9.01
90)	T	1,2-Dichlorobe...	1.469	1.504	1.427	1.407	1.669	1.413	1.482	6.69
91)	T	1,2-Dibromo-3-...	0.124	0.151	0.140	0.153	0.214	0.142	0.154	20.26
92)	T	1,2,4-Trichlor...	0.913	0.941	0.935	0.943	1.191	0.917	0.973	11.03
93)	T	Hexachlorobuta...	0.306	0.321	0.302	0.301	0.402	0.292	0.321	12.73
94)	T	Naphthalene	2.420	2.546	2.708	2.879	3.354	2.794	2.784	11.68
95)	T	1,2,3-Trichlor...	0.896	0.911	0.911	0.911	1.145	0.894	0.945	10.42

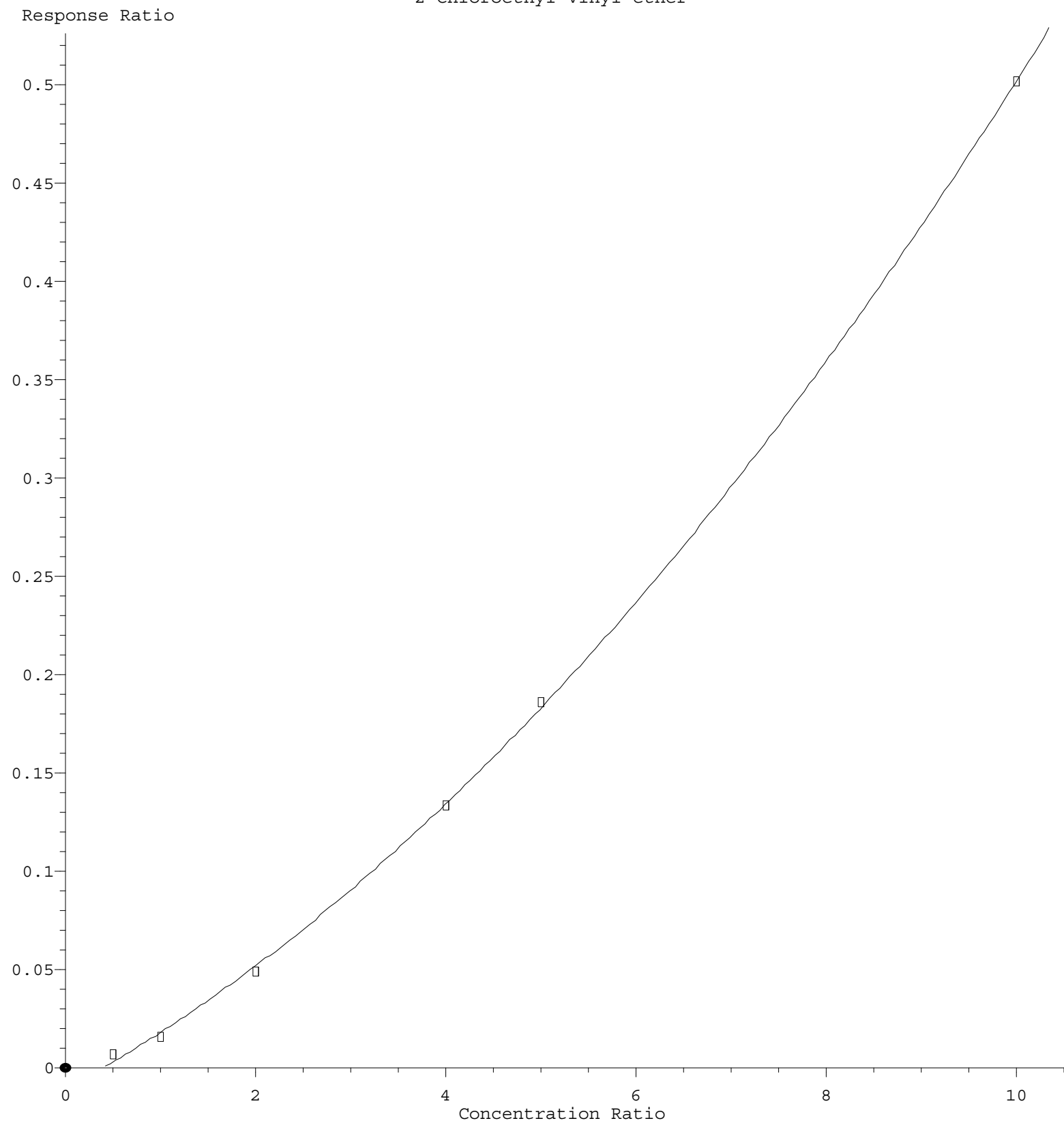
 (#) = Out of Range

1,2-Dibromo-3-Chloropropane



$R = 6.361e-002 A^2 + 8.261e-002 A + 8.274e-003$
 Coef of Det (r^2) = 0.999522 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA R\methods\82R082025W.M
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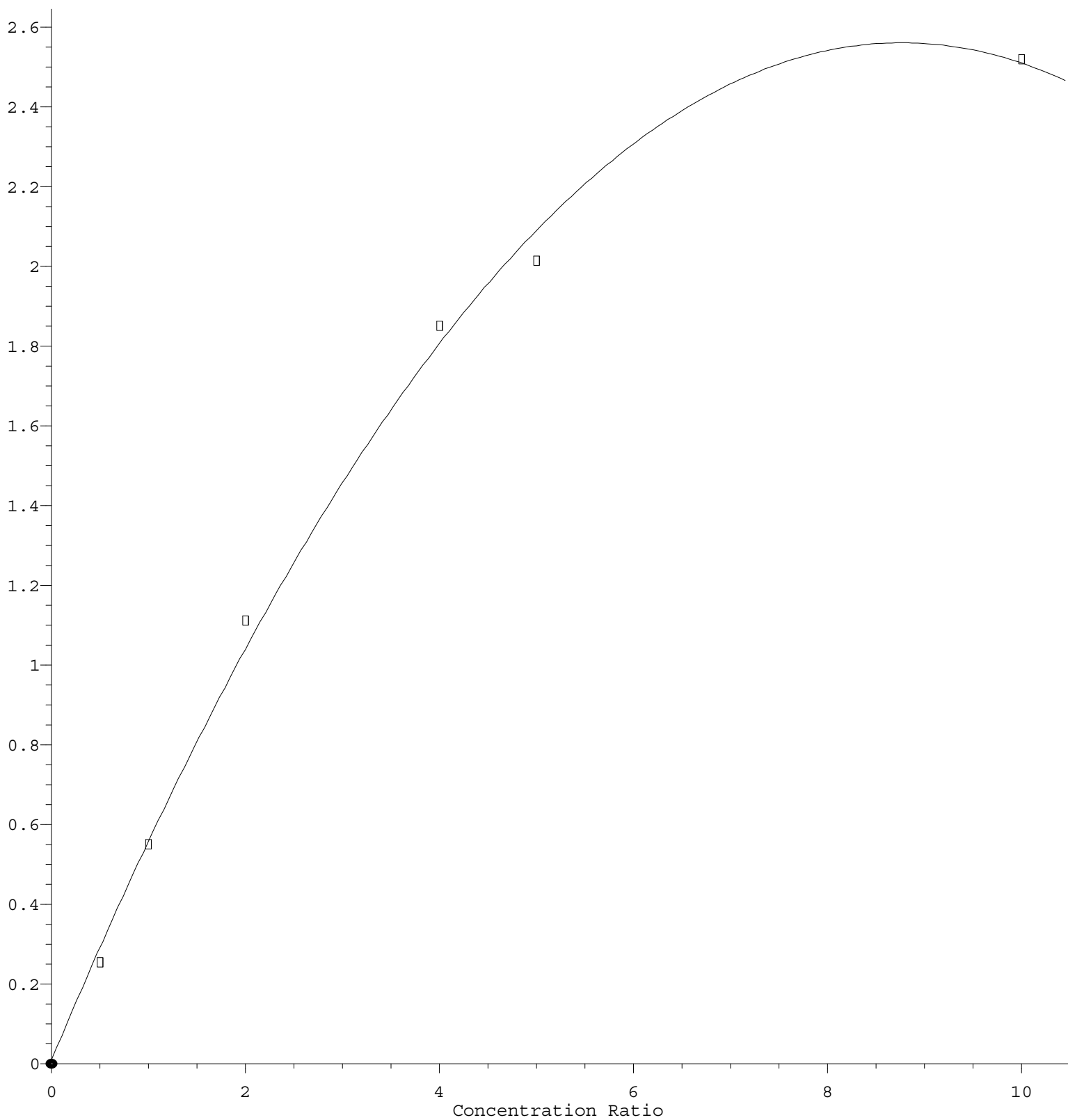
2-Chloroethyl Vinyl ether



$R = 2.507e-003 A^2 + 2.620e-002 A - 1.058e-002$
 Coef of Det (r^2) = 0.999788 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA R\methods\82R082025W.M
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4-Methyl-2-Pentanone

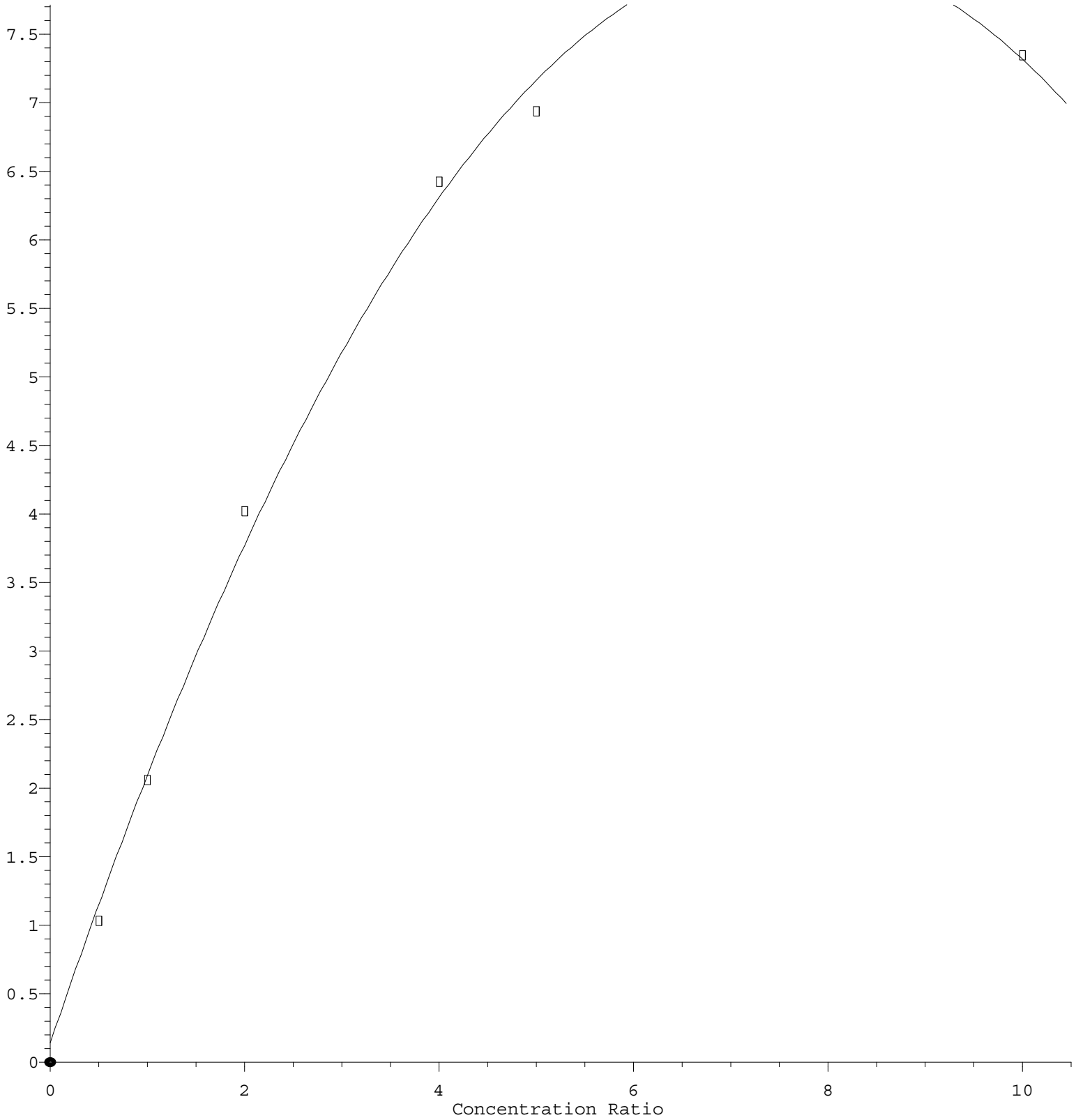
Response Ratio



$R = -3.323e-002 A^2 + 5.823e-001 A + 9.843e-003$
Coef of Det (r^2) = 0.996378 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA R\methods\82R082025W.M
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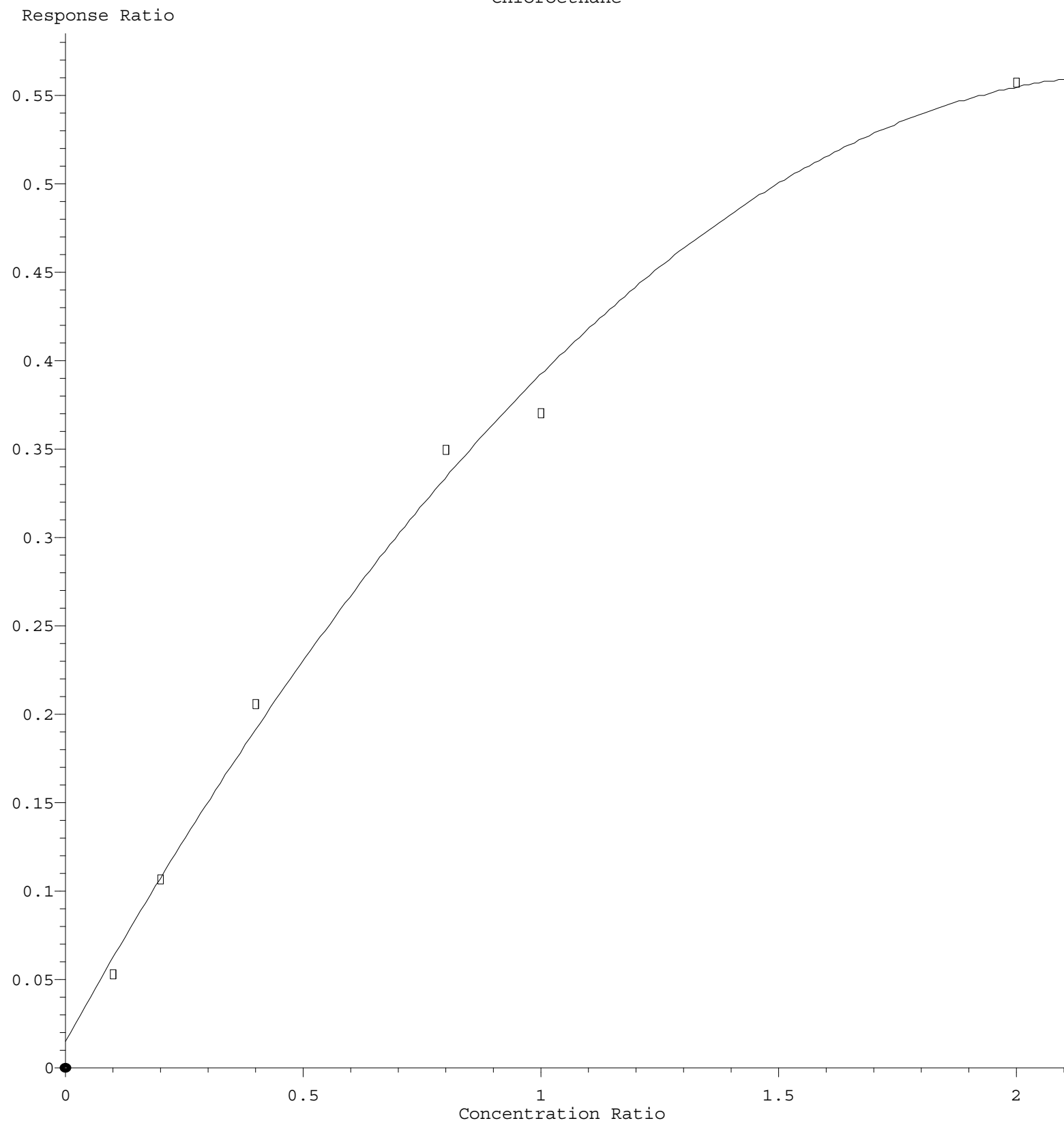
Response Ratio

Vinyl Acetate



R = -1.375e-001 A*A + 2.092e+000 A + 1.414e-001
Coef of Det (r^2) = 0.996060 Curve Fit: Quadratic
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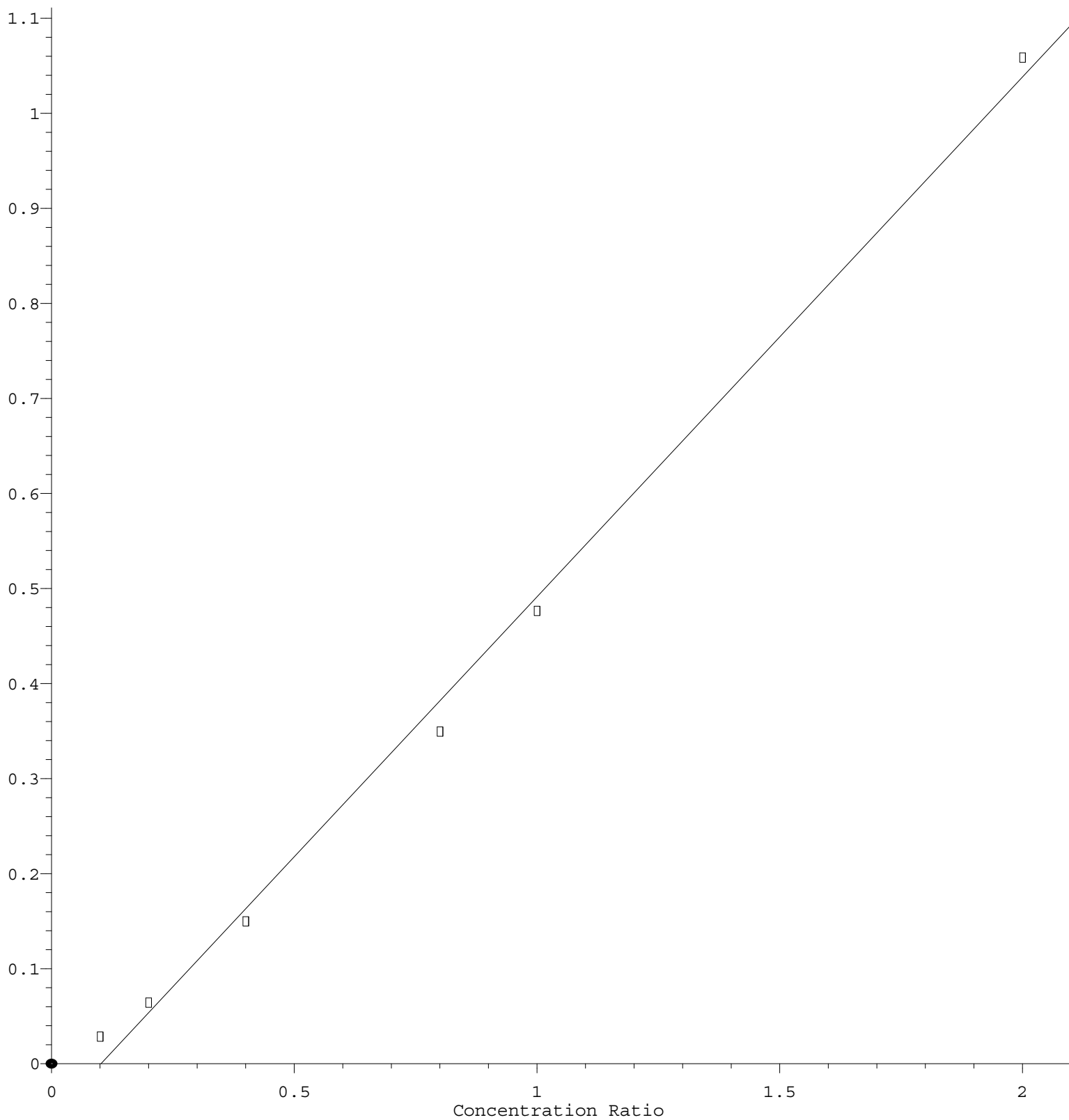
Chloroethane



$R = -1.074e-001 A^2 + 4.847e-001 A + 1.486e-002$
 Coef of Det (r^2) = 0.994225 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA R\methods\82R082025W.M
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trans-1,4-Dichloro-2-butene

Response Ratio



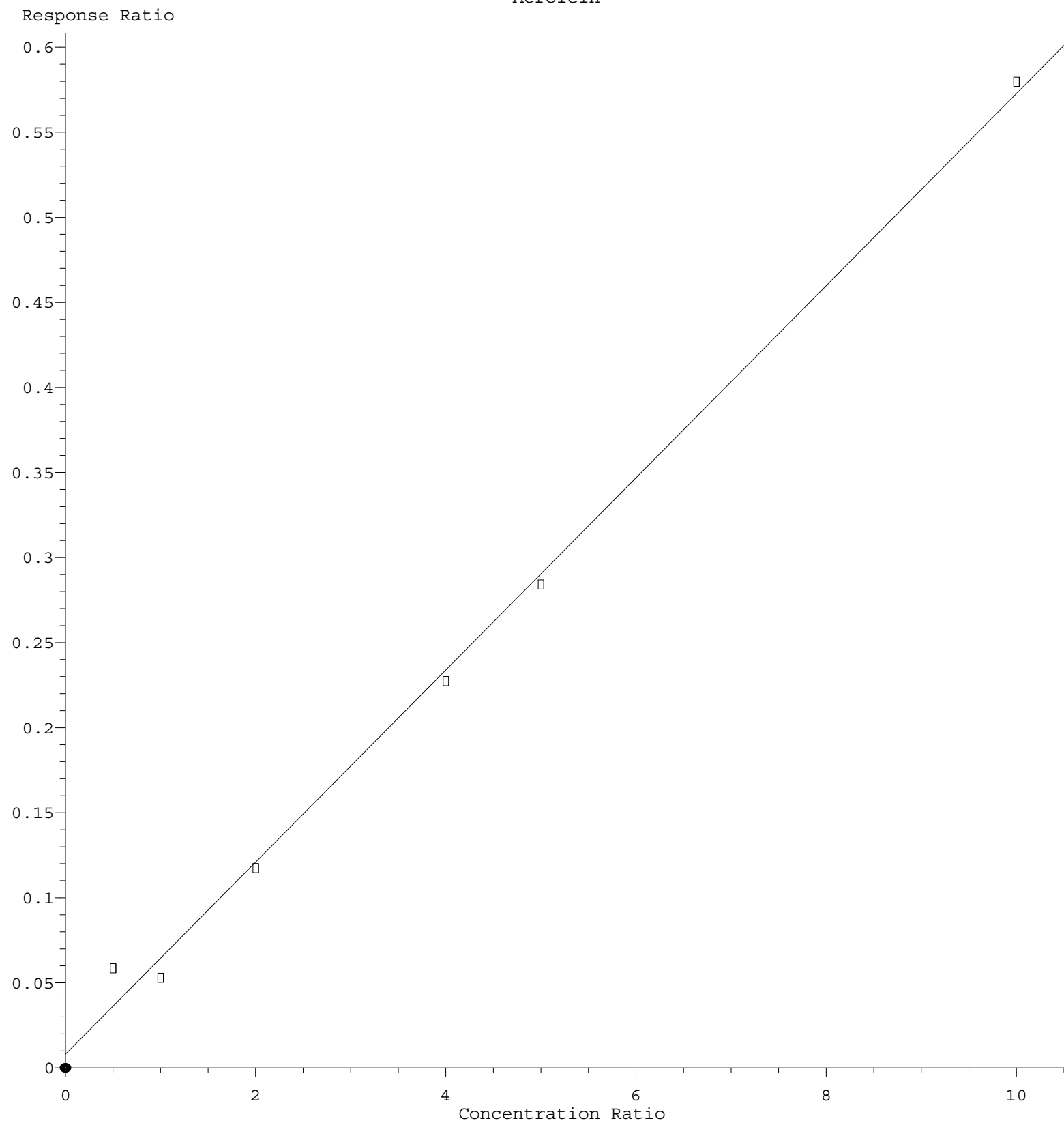
$$\text{Response} = 5.468\text{e-}001 * \text{Amt} - 5.563\text{e-}002$$

Coef of Det (r^2) = 0.996164 Curve Fit: Linear

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Acrolein



$\text{Response} = 5.646\text{e-}002 * \text{Amt} + 8.272\text{e-}003$
 Coef of Det (r^2) = 0.996113 Curve Fit: Linear
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