Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Sample data

No.	Comment / ID	Start time	Sample size	Corr. f	Density
1/6	Potassium iodate	8/13/2012 10:46:05 AM	0.02921 g	1.0	0 g/mL
2/6	Potassium iodate	8/13/2012 10:57:54 AM	0.02505 g	1.0	0 g/mL
3/6	Potassium iodate	8/13/2012 11:08:34 AM	0.02443 g	1.0	0 g/mL
4/6	Potassium iodate	8/13/2012 11:19:09 AM	0.02367 g	1.0	0 g/mL
5/6	Potassium iodate	8/13/2012 11:29:37 AM	0.02382 g	1.0	0 g/mL
6/6	Potassium iodate	8/13/2012 11:40:06 AM	0.02561 g	1.0	0 g/mL

Results

No.	Comment / ID	Start time	Sample size and results		
1/6	Potassium iodate	8/13/2012 10:46:05 AM	0.02921	g	
			R1 = 0.99876		Titer
2/6	Potassium iodate	8/13/2012 10:57:54 AM	0.02505	g	
			R1 = 1.00259		Titer
3/6	Potassium iodate	8/13/2012 11:08:34 AM	0.02443	g	
			R1 = 0.99962		Titer
4/6	Potassium iodate	8/13/2012 11:19:09 AM	0.02367	g	
			R1 = 1.00234		Titer
5/6	Potassium iodate	8/13/2012 11:29:37 AM	0.02382	g	
			R1 = 1.00396		Titer
6/6	Potassium iodate	8/13/2012 11:40:06 AM	0.02561	g	
			R1 = 1.00366		Titer
-/-			R2 = 1.0018	--	Mean Titer

Titer

Titer	1.00182

Series comment

Statistics

Rx	Name	n	Mean value	Unit	s	srel [%]
R1	Titer	6	1.00182		0.00215	0.214
R2	Mean Titer	1	1.0018	--	NaN	NaN

Raw data

Sample

No.	1/6
Standard	Potassium iodate
Type of standard	solid
Comment	
Titration stand	Rondolino TTL 1
Weight	m = 0.02921 g
Correction factor	f = 1.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Purity	p = 100.00 %
Temperature	T = 25.0 oC
Sample start	8/13/2012 10:46:05 AM
Sample end	8/13/2012 10:57:53 AM

Dispense (normal) [1]

Titrant	0.1M HCl cDi = 0.1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 50 mL
Disp. amount	QENDDi = 5.00 mmol
Time	1:46 min

Dispense (normal) [2]

Titrant	SAT KI cDi = 1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 1.0 mL
Disp. amount	QENDDi = 1.00 mmol
Time	0:06 min

EQP titration [1]

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622	
Sensor	DM140-SC	
Start potential		EST = 371.2 mV
No. of EQPs and cand.		nEQ = 1
Consumption	EQP1	VEQ1 = 8.200251 mL
		Q1 = 0.841526 mmol
		EEQ1 = 243.7 mV
		EHNV1 = 363.6 mV
Excess		VEX = 0.422249 mL
		QEX = 0.043332 mmol
End		VEND = 8.6225 mL
		QEND = 0.884858 mmol
Termination at	EQPs	
Time	t = 8:15 min	

Calculation

Result	R1 = 0.99876 Titer
Formula	R1=m/(VEQ*c*C)
Constant	M/(10*p*z)
	C = 0.035665
Molar mass	M[Potassium iodate] = 213.99 g/mol
Equivalent number	z[Potassium iodate] = 6
Duration	tUSE = 10:56 min

Measured values EQP titration [1]

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622
Sensor	DM140-SC
Sample	1/6

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
0.0000	NaN	371.2	NaN	NaN	0	25.0
0.0200	0.0200	372.5	1.3	NaN	2	25.0
0.0400	0.0200	372.8	0.3	NaN	4	25.0
0.0900	0.0500	373.1	0.3	NaN	7	25.0
0.1400	0.0500	373.2	0.1	NaN	9	25.0
0.1900	0.0500	373.4	0.2	0.60	12	25.0
0.2400	0.0500	373.4	0.0	0.78	14	25.0
0.2900	0.0500	373.4	0.0	0.17	16	25.0
0.3400	0.0500	373.5	0.1	-0.21	19	25.0
0.3900	0.0500	373.4	-0.1	-0.63	21	25.0
0.4400	0.0500	373.4	0.0	-0.80	24	25.0
0.4900	0.0500	373.3	-0.1	-1.21	26	25.0
0.5400	0.0500	373.3	0.0	-1.51	28	25.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
0.5900	0.0500	373.2	-0.1	-1.60	31	25.0
0.6400	0.0500	373.1	-0.1	-1.91	33	25.0
0.6900	0.0500	373.0	-0.1	-1.89	35	25.0
0.7400	0.0500	372.9	-0.1	-2.11	38	25.0
0.7900	0.0500	372.8	-0.1	-2.20	40	25.0
0.8400	0.0500	372.7	-0.1	-2.40	42	25.0
0.8900	0.0500	372.6	-0.1	-2.51	45	25.0
0.9400	0.0500	372.4	-0.2	-2.51	47	25.0
0.9900	0.0500	372.3	-0.1	-2.28	50	25.0
1.0400	0.0500	372.2	-0.1	-2.20	52	25.0
1.0900	0.0500	372.1	-0.1	-2.20	54	25.0
1.1400	0.0500	372.0	-0.1	-2.28	57	25.0
1.1900	0.0500	371.9	-0.1	-2.40	59	25.0
1.2400	0.0500	371.7	-0.2	-2.51	61	25.0
1.2900	0.0500	371.6	-0.1	-2.60	64	25.0
1.3400	0.0500	371.5	-0.1	-2.60	66	25.0
1.3900	0.0500	371.4	-0.1	-2.51	68	25.0
1.4400	0.0500	371.2	-0.2	-2.28	71	25.0
1.4900	0.0500	371.1	-0.1	-2.40	73	25.0
1.5400	0.0500	371.0	-0.1	-2.41	76	25.0
1.5900	0.0500	370.9	-0.1	-2.28	78	25.0
1.6400	0.0500	370.8	-0.1	-2.40	80	25.0
1.6900	0.0500	370.6	-0.2	-2.72	83	25.0
1.7400	0.0500	370.5	-0.1	-2.80	85	25.0
1.7900	0.0500	370.4	-0.1	-2.60	87	25.0
1.8400	0.0500	370.2	-0.2	-2.51	90	25.0
1.8900	0.0500	370.1	-0.1	-2.49	92	25.0
1.9400	0.0500	370.0	-0.1	-2.60	94	25.0
1.9900	0.0500	369.9	-0.1	-2.40	97	25.0
2.0400	0.0500	369.7	-0.2	-2.40	99	25.0
2.0900	0.0500	369.6	-0.1	-2.60	102	25.0
2.1400	0.0500	369.5	-0.1	-2.49	104	25.0
2.1900	0.0500	369.4	-0.1	-2.51	106	25.0
2.2400	0.0500	369.2	-0.2	-2.60	109	25.0
2.2900	0.0500	369.1	-0.1	-2.68	111	25.0
2.3400	0.0500	369.0	-0.1	-2.72	114	25.0
2.3900	0.0500	368.8	-0.2	-2.72	116	25.0
2.4400	0.0500	368.7	-0.1	-2.57	118	25.0
2.4900	0.0500	368.6	-0.1	-2.72	121	25.0
2.5400	0.0500	368.4	-0.2	-2.60	123	25.0
2.5900	0.0500	368.3	-0.1	-2.68	125	25.0
2.6400	0.0500	368.2	-0.1	-2.92	128	25.0
2.6900	0.0500	368.0	-0.2	-2.80	130	25.0
2.7400	0.0500	367.9	-0.1	-2.80	132	25.0
2.7900	0.0500	367.7	-0.2	-2.81	135	25.0
2.8400	0.0500	367.6	-0.1	-2.79	137	25.0
2.8900	0.0500	367.5	-0.1	-2.81	140	25.0
2.9400	0.0500	367.3	-0.2	-2.80	142	25.0
2.9900	0.0500	367.2	-0.1	-2.80	144	25.0
3.0400	0.0500	367.0	-0.2	-2.81	147	25.0
3.0900	0.0500	366.9	-0.1	-2.79	149	25.0
3.1400	0.0500	366.8	-0.1	-2.69	151	25.0
3.1900	0.0500	366.6	-0.2	-2.79	154	25.0
3.2400	0.0500	366.5	-0.1	-3.00	156	25.0
3.2900	0.0500	366.3	-0.2	-3.21	158	25.0
3.3400	0.0500	366.2	-0.1	-3.31	161	25.0
3.3900	0.0500	366.0	-0.2	-3.21	163	25.0
3.4400	0.0500	365.8	-0.2	-3.31	166	25.0
3.4900	0.0500	365.7	-0.1	-3.09	168	25.0
3.5400	0.0500	365.5	-0.2	-3.00	170	25.0
3.5900	0.0500	365.4	-0.1	-3.00	173	25.0
3.6400	0.0500	365.2	-0.2	-3.09	175	25.0
3.6900	0.0500	365.1	-0.1	-3.31	178	25.0
3.7400	0.0500	364.9	-0.2	-3.09	180	25.0
3.7900	0.0500	364.7	-0.2	-3.31	182	25.0
3.8400	0.0500	364.6	-0.1	-3.18	185	25.0
3.8900	0.0500	364.4	-0.2	-3.51	187	25.0
3.9400	0.0500	364.3	-0.1	-3.72	189	25.0
3.9900	0.0500	364.0	-0.3	-3.80	192	25.0
4.0400	0.0500	363.9	-0.1	-3.71	194	25.0
4.0900	0.0500	363.6	-0.3	-3.41	196	25.0
4.1400	0.0500	363.5	-0.1	-3.28	199	25.0
4.1900	0.0500	363.4	-0.1	-3.18	201	25.0
4.2400	0.0500	363.2	-0.2	-3.51	204	25.0

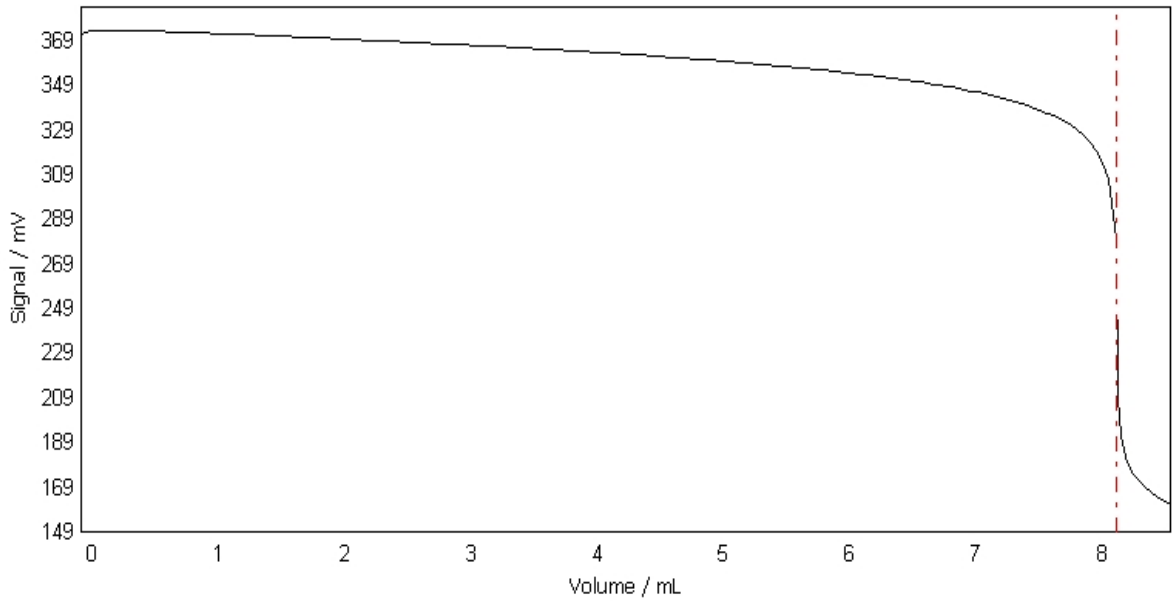
Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
4.2900	0.0500	363.0	-0.2	-3.68	206	25.0
4.3400	0.0500	362.8	-0.2	-4.12	208	25.0
4.3900	0.0500	362.6	-0.2	-4.12	211	25.0
4.4400	0.0500	362.4	-0.2	-4.12	213	25.0
4.4900	0.0500	362.2	-0.2	-3.89	215	25.0
4.5400	0.0500	362.0	-0.2	-3.79	218	25.0
4.5900	0.0500	361.8	-0.2	-3.69	220	25.0
4.6400	0.0500	361.6	-0.2	-4.00	222	25.0
4.6900	0.0500	361.5	-0.1	-4.21	225	25.0
4.7400	0.0500	361.2	-0.3	-4.31	227	25.0
4.7900	0.0500	361.0	-0.2	-4.19	230	25.0
4.8400	0.0500	360.7	-0.3	-4.32	232	25.0
4.8900	0.0500	360.6	-0.1	-4.09	234	25.0
4.9400	0.0500	360.4	-0.2	-3.88	237	25.0
4.9900	0.0500	360.2	-0.2	-4.00	239	25.0
5.0400	0.0500	359.9	-0.3	-4.28	242	25.0
5.0900	0.0500	359.8	-0.1	-4.72	244	25.0
5.1400	0.0500	359.5	-0.3	-4.72	246	25.0
5.1900	0.0500	359.3	-0.2	-4.59	249	25.0
5.2400	0.0500	359.0	-0.3	-4.49	251	25.0
5.2900	0.0500	358.8	-0.2	-4.72	253	25.0
5.3400	0.0500	358.6	-0.2	-4.58	256	25.0
5.3900	0.0500	358.4	-0.2	-4.79	258	25.0
5.4400	0.0500	358.1	-0.3	-5.00	260	25.0
5.4900	0.0500	357.8	-0.3	-5.52	263	25.0
5.5400	0.0500	357.6	-0.2	-5.61	265	25.0
5.5900	0.0500	357.3	-0.3	-5.51	267	25.0
5.6400	0.0500	357.0	-0.3	-5.40	270	25.0
5.6900	0.0500	356.7	-0.3	-5.49	272	25.0
5.7400	0.0500	356.5	-0.2	-5.60	274	25.0
5.7900	0.0500	356.2	-0.3	-5.48	277	25.0
5.8400	0.0500	355.9	-0.3	-5.79	279	25.0
5.8900	0.0500	355.6	-0.3	-6.21	282	25.0
5.9400	0.0500	355.3	-0.3	-6.52	284	25.0
5.9900	0.0500	355.0	-0.3	-6.40	286	25.0
6.0400	0.0500	354.6	-0.4	-6.51	289	25.0
6.0900	0.0500	354.3	-0.3	-6.49	291	25.0
6.1400	0.0500	354.0	-0.3	-6.60	293	25.0
6.1900	0.0500	353.7	-0.3	-6.48	296	25.0
6.2400	0.0500	353.3	-0.4	-6.79	298	25.0
6.2900	0.0500	353.0	-0.3	-7.21	300	25.0
6.3400	0.0500	352.6	-0.4	-7.40	303	25.0
6.3900	0.0500	352.3	-0.3	-7.51	305	25.0
6.4400	0.0500	351.8	-0.5	-7.37	308	25.0
6.4900	0.0500	351.5	-0.3	-7.91	310	25.0
6.5400	0.0500	351.1	-0.4	-8.22	312	25.0
6.5900	0.0500	350.7	-0.4	-8.27	315	25.0
6.6400	0.0500	350.3	-0.4	-8.51	317	25.0
6.6900	0.0500	349.7	-0.6	-8.81	320	25.0
6.7400	0.0500	349.4	-0.3	-8.96	322	25.0
6.7900	0.0500	349.0	-0.4	-9.10	324	25.0
6.8400	0.0500	348.4	-0.6	-9.82	327	25.0
6.8900	0.0500	348.0	-0.4	-10.26	329	25.0
6.9400	0.0500	347.4	-0.6	-11.03	331	25.0
6.9900	0.0500	346.9	-0.5	-11.11	334	25.0
7.0400	0.0500	346.2	-0.7	-11.37	336	25.0
7.0900	0.0500	345.8	-0.4	-11.88	338	25.0
7.1400	0.0500	345.1	-0.7	-12.29	341	25.0
7.1900	0.0500	344.5	-0.6	-13.19	343	25.0
7.2400	0.0500	343.8	-0.7	-13.98	346	25.0
7.2900	0.0500	343.1	-0.7	-14.79	348	25.0
7.3400	0.0500	342.3	-0.8	-15.48	350	25.0
7.3900	0.0500	341.5	-0.8	-16.57	353	25.0
7.4400	0.0500	340.7	-0.8	-17.77	355	25.0
7.4900	0.0500	339.8	-0.9	-18.97	358	25.0
7.5400	0.0500	338.7	-1.1	-20.56	360	25.0
7.5900	0.0500	337.7	-1.0	-22.46	362	25.0
7.6400	0.0500	336.5	-1.2	-24.22	365	25.0
7.6900	0.0500	335.3	-1.2	-26.41	368	25.0
7.7400	0.0500	333.8	-1.5	-29.16	370	25.0
7.7900	0.0500	332.3	-1.5	-31.98	373	25.0
7.8400	0.0500	330.6	-1.7	-36.19	375	25.0
7.8900	0.0500	328.5	-2.1	-41.33	378	25.0
7.9400	0.0500	326.2	-2.3	-32.34	380	25.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

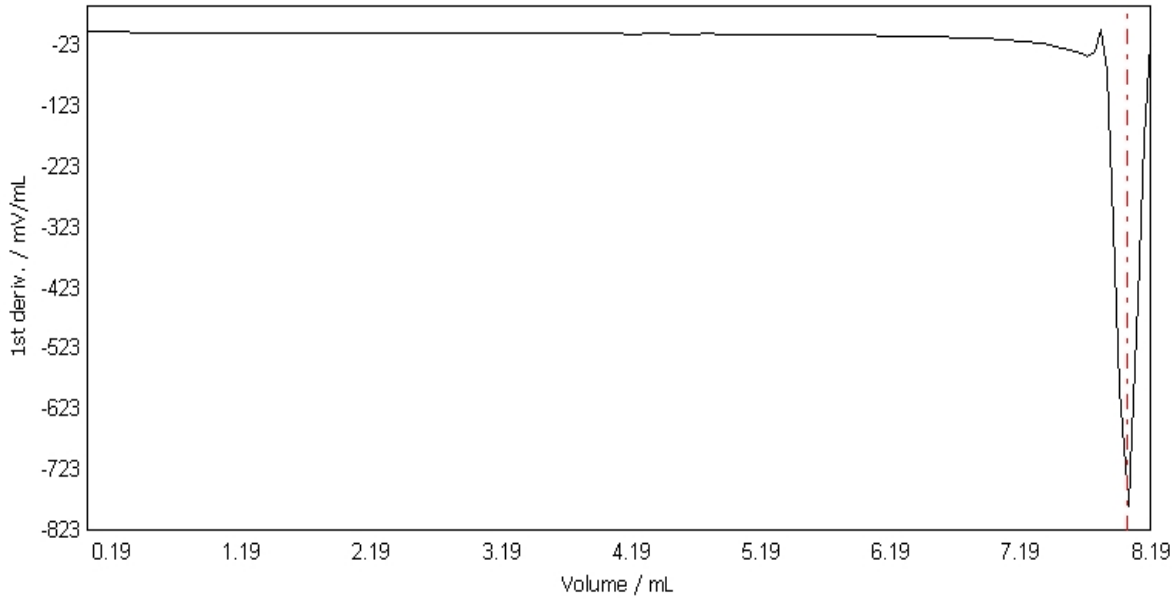
	Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
	7.9900	0.0500	323.4	-2.8	3.10	384	25.0
	8.0400	0.0500	319.3	-4.1	-66.50	386	25.0
	8.0900	0.0500	314.3	-5.0	-321.43	389	25.0
	8.1400	0.0500	306.4	-7.9	-592.52	394	25.0
	8.1900	0.0500	280.3	-26.1	-747.05	397	25.0
EQP1	8.200251	NaN	243.7	NaN	-787.88	NaN	NaN
	8.2100	0.0200	208.8	-71.5	-783.25	407	25.0
	8.2300	0.0200	192.4	-16.4	-664.24	417	25.0
	8.2725	0.0425	182.2	-10.2	-443.51	427	25.0
	8.3225	0.0500	175.8	-6.4	-177.33	437	25.0
	8.3725	0.0500	171.5	-4.3	-17.98	446	25.0
	8.4225	0.0500	168.4	-3.1	NaN	454	25.0
	8.4725	0.0500	166.1	-2.3	NaN	460	25.0
	8.5225	0.0500	164.1	-2.0	NaN	465	25.0
	8.5725	0.0500	162.4	-1.7	NaN	470	25.0
	8.6225	0.0500	161.1	-1.3	NaN	474	25.0

E - V curve **EQP titration [1]**
Sample 1/6



Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

dE/dV - V curve EQP titration [1]
Sample 1/6



Raw data

Sample

No.	2/6
Standard	Potassium iodate
Type of standard	solid
Comment	
Titration stand	Rondolino TTL 1
Weight	m = 0.02505 g
Correction factor	f = 1.0
Purity	p = 100.00 %
Temperature	T = 25.0 oC
Sample start	8/13/2012 10:57:54 AM
Sample end	8/13/2012 11:08:33 AM

Dispense (normal) [1]

Titrant	0.1M HCl cDi = 0.1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 50 mL
Disp. amount	QENDDi = 5.00 mmol
Time	1:45 min

Dispense (normal) [2]

Titrant	SAT KI cDi = 1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 1.0 mL
Disp. amount	QENDDi = 1.00 mmol
Time	0:04 min

EQP titration [1]

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622	
Sensor	DM140-SC	
Start potential		EST = 373.0 mV
No. of EQPs and cand.		nEQ = 1
Consumption	EQP1	VEQ1 = 7.005554 mL
		Q1 = 0.718924 mmol
		EEQ1 = 247.0 mV

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

		EHNV1 = 362.2 mV
Excess		VEX = 0.387446 mL
		QEX = 0.039760 mmol
End		VEND = 7.3930 mL
		QEND = 0.758684 mmol
Termination at	EQPs	
Time	t = 7:19 min	

Calculation

Result	R1 = 1.00259 Titer
Formula	R1=m/(VEQ*c*C)
Constant	M/(10*p*z)
	C = 0.035665
Molar mass	M[Potassium iodate] = 213.99 g/mol
Equivalent number	z[Potassium iodate] = 6
Duration	tUSE = 09:47 min

Measured values **EQP titration [1]**

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622
Sensor	DM140-SC
Sample	2/6

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
0.0000	NaN	373.0	NaN	NaN	0	25.0
0.0200	0.0200	373.1	0.1	NaN	2	25.0
0.0400	0.0200	373.0	-0.1	NaN	4	25.0
0.0900	0.0500	372.9	-0.1	NaN	7	25.0
0.1400	0.0500	372.8	-0.1	NaN	9	25.0
0.1900	0.0500	372.7	-0.1	-2.08	12	25.0
0.2400	0.0500	372.6	-0.1	-2.17	14	25.0
0.2900	0.0500	372.5	-0.1	-2.40	16	25.0
0.3400	0.0500	372.4	-0.1	-2.40	19	25.0
0.3900	0.0500	372.2	-0.2	-2.51	21	25.0
0.4400	0.0500	372.1	-0.1	-2.60	23	25.0
0.4900	0.0500	372.0	-0.1	-2.60	26	25.0
0.5400	0.0500	371.9	-0.1	-2.40	28	25.0
0.5900	0.0500	371.7	-0.2	-2.40	31	25.0
0.6400	0.0500	371.6	-0.1	-2.49	33	25.0
0.6900	0.0500	371.5	-0.1	-2.60	35	25.0
0.7400	0.0500	371.4	-0.1	-2.72	38	25.0
0.7900	0.0500	371.2	-0.2	-2.68	40	25.0
0.8400	0.0500	371.1	-0.1	-2.91	42	25.0
0.8900	0.0500	370.9	-0.2	-2.92	45	25.0
0.9400	0.0500	370.8	-0.1	-2.68	47	25.0
0.9900	0.0500	370.7	-0.1	-2.60	50	25.0
1.0400	0.0500	370.5	-0.2	-2.60	52	25.0
1.0900	0.0500	370.4	-0.1	-2.68	54	25.0
1.1400	0.0500	370.3	-0.1	-2.81	57	25.0
1.1900	0.0500	370.1	-0.2	-2.91	59	25.0
1.2400	0.0500	370.0	-0.1	-3.00	61	25.0
1.2900	0.0500	369.8	-0.2	-3.00	64	25.0
1.3400	0.0500	369.7	-0.1	-2.91	66	25.0
1.3900	0.0500	369.5	-0.2	-2.69	68	25.0
1.4400	0.0500	369.4	-0.1	-2.79	71	25.0
1.4900	0.0500	369.3	-0.1	-2.69	73	25.0
1.5400	0.0500	369.1	-0.2	-2.91	76	25.0
1.5900	0.0500	369.0	-0.1	-2.89	78	25.0
1.6400	0.0500	368.8	-0.2	-3.12	80	25.0
1.6900	0.0500	368.7	-0.1	-3.00	83	25.0
1.7400	0.0500	368.5	-0.2	-3.00	85	25.0
1.7900	0.0500	368.4	-0.1	-3.00	87	25.0
1.8400	0.0500	368.2	-0.2	-2.88	90	25.0
1.8900	0.0500	368.1	-0.1	-3.11	92	25.0
1.9400	0.0500	367.9	-0.2	-3.09	95	25.0
1.9900	0.0500	367.8	-0.1	-3.31	97	25.0
2.0400	0.0500	367.6	-0.2	-3.21	99	25.0
2.0900	0.0500	367.4	-0.2	-3.19	102	25.0
2.1400	0.0500	367.3	-0.1	-3.20	104	25.0

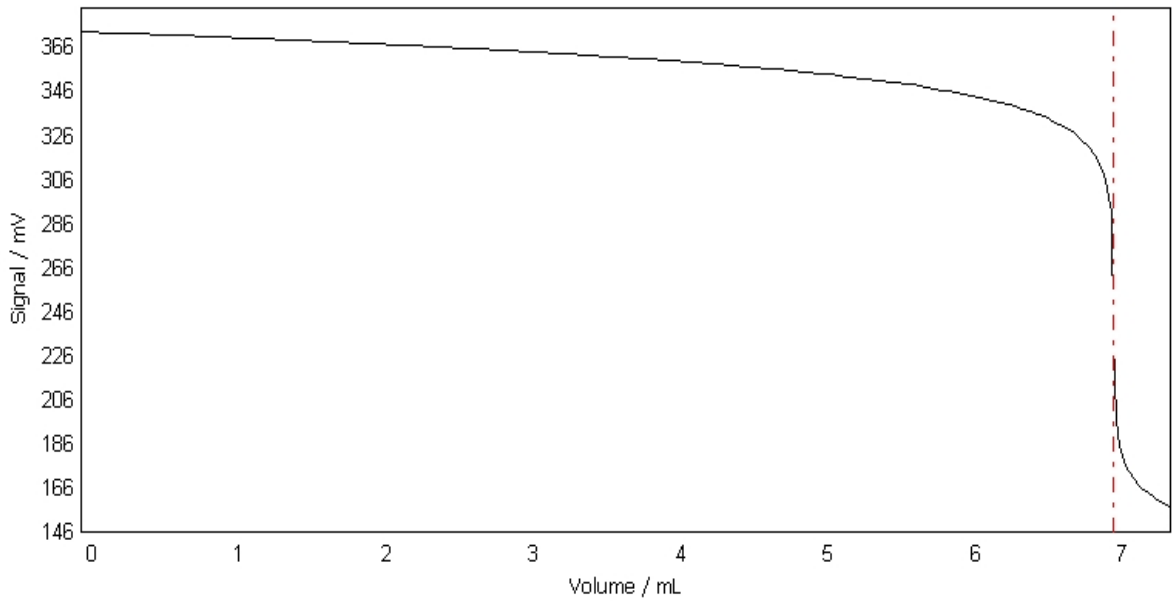
Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
2.1900	0.0500	367.1	-0.2	-3.20	106	25.0
2.2400	0.0500	367.0	-0.1	-3.08	109	25.0
2.2900	0.0500	366.8	-0.2	-3.20	111	25.0
2.3400	0.0500	366.6	-0.2	-3.40	114	25.0
2.3900	0.0500	366.5	-0.1	-3.60	116	25.0
2.4400	0.0500	366.3	-0.2	-3.72	118	25.0
2.4900	0.0500	366.1	-0.2	-3.59	121	25.0
2.5400	0.0500	365.9	-0.2	-3.60	123	25.0
2.5900	0.0500	365.7	-0.2	-3.72	125	25.0
2.6400	0.0500	365.6	-0.1	-3.49	128	25.0
2.6900	0.0500	365.4	-0.2	-3.40	130	25.0
2.7400	0.0500	365.2	-0.2	-3.40	132	25.0
2.7900	0.0500	365.0	-0.2	-3.49	135	25.0
2.8400	0.0500	364.9	-0.1	-3.60	137	25.0
2.8900	0.0500	364.7	-0.2	-3.60	140	25.0
2.9400	0.0500	364.5	-0.2	-3.91	142	25.0
2.9900	0.0500	364.3	-0.2	-4.00	144	25.0
3.0400	0.0500	364.1	-0.2	-3.80	147	25.0
3.0900	0.0500	363.9	-0.2	-3.71	149	25.0
3.1400	0.0500	363.7	-0.2	-3.58	151	25.0
3.1900	0.0500	363.6	-0.1	-3.79	154	25.0
3.2400	0.0500	363.4	-0.2	-3.81	156	25.0
3.2900	0.0500	363.1	-0.3	-3.99	158	25.0
3.3400	0.0500	363.0	-0.1	-4.21	161	25.0
3.3900	0.0500	362.7	-0.3	-4.32	163	25.0
3.4400	0.0500	362.6	-0.1	-4.19	166	25.0
3.4900	0.0500	362.3	-0.3	-4.21	168	25.0
3.5400	0.0500	362.1	-0.2	-4.19	170	25.0
3.5900	0.0500	361.9	-0.2	-4.09	173	25.0
3.6400	0.0500	361.7	-0.2	-4.32	175	25.0
3.6900	0.0500	361.5	-0.2	-4.17	178	25.0
3.7400	0.0500	361.3	-0.2	-4.51	180	25.0
3.7900	0.0500	361.0	-0.3	-4.72	182	25.0
3.8400	0.0500	360.8	-0.2	-4.68	185	25.0
3.8900	0.0500	360.6	-0.2	-4.72	187	25.0
3.9400	0.0500	360.3	-0.3	-4.60	189	25.0
3.9900	0.0500	360.1	-0.2	-4.68	192	25.0
4.0400	0.0500	359.9	-0.2	-4.81	194	25.0
4.0900	0.0500	359.6	-0.3	-4.79	196	25.0
4.1400	0.0500	359.4	-0.2	-5.00	199	25.0
4.1900	0.0500	359.1	-0.3	-5.21	201	25.0
4.2400	0.0500	358.9	-0.2	-5.19	204	25.0
4.2900	0.0500	358.6	-0.3	-5.20	206	25.0
4.3400	0.0500	358.3	-0.3	-5.40	208	25.0
4.3900	0.0500	358.1	-0.2	-5.49	211	25.0
4.4400	0.0500	357.8	-0.3	-5.72	213	25.0
4.4900	0.0500	357.5	-0.3	-5.80	215	25.0
4.5400	0.0500	357.2	-0.3	-6.00	218	25.0
4.5900	0.0500	356.9	-0.3	-6.12	220	25.0
4.6400	0.0500	356.6	-0.3	-6.00	222	25.0
4.6900	0.0500	356.3	-0.3	-5.88	225	25.0
4.7400	0.0500	356.0	-0.3	-6.00	227	25.0
4.7900	0.0500	355.7	-0.3	-6.09	230	25.0
4.8400	0.0500	355.4	-0.3	-6.40	232	25.0
4.8900	0.0500	355.1	-0.3	-6.49	234	25.0
4.9400	0.0500	354.7	-0.4	-6.91	237	25.0
4.9900	0.0500	354.4	-0.3	-7.21	239	25.0
5.0400	0.0500	354.0	-0.4	-7.40	242	25.0
5.0900	0.0500	353.7	-0.3	-7.51	244	25.0
5.1400	0.0500	353.2	-0.5	-7.60	246	25.0
5.1900	0.0500	352.9	-0.3	-7.68	249	25.0
5.2400	0.0500	352.5	-0.4	-7.80	251	25.0
5.2900	0.0500	352.1	-0.4	-8.11	253	25.0
5.3400	0.0500	351.7	-0.4	-8.17	256	25.0
5.3900	0.0500	351.3	-0.4	-8.63	258	25.0
5.4400	0.0500	350.8	-0.5	-8.49	260	25.0
5.4900	0.0500	350.4	-0.4	-8.68	263	25.0
5.5400	0.0500	350.0	-0.4	-8.89	265	25.0
5.5900	0.0500	349.5	-0.5	-9.16	268	25.0
5.6400	0.0500	349.1	-0.4	-10.00	270	25.0
5.6900	0.0500	348.5	-0.6	-10.93	272	25.0
5.7400	0.0500	348.0	-0.5	-11.39	275	25.0
5.7900	0.0500	347.4	-0.6	-11.72	277	25.0
5.8400	0.0500	346.7	-0.7	-12.11	279	25.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

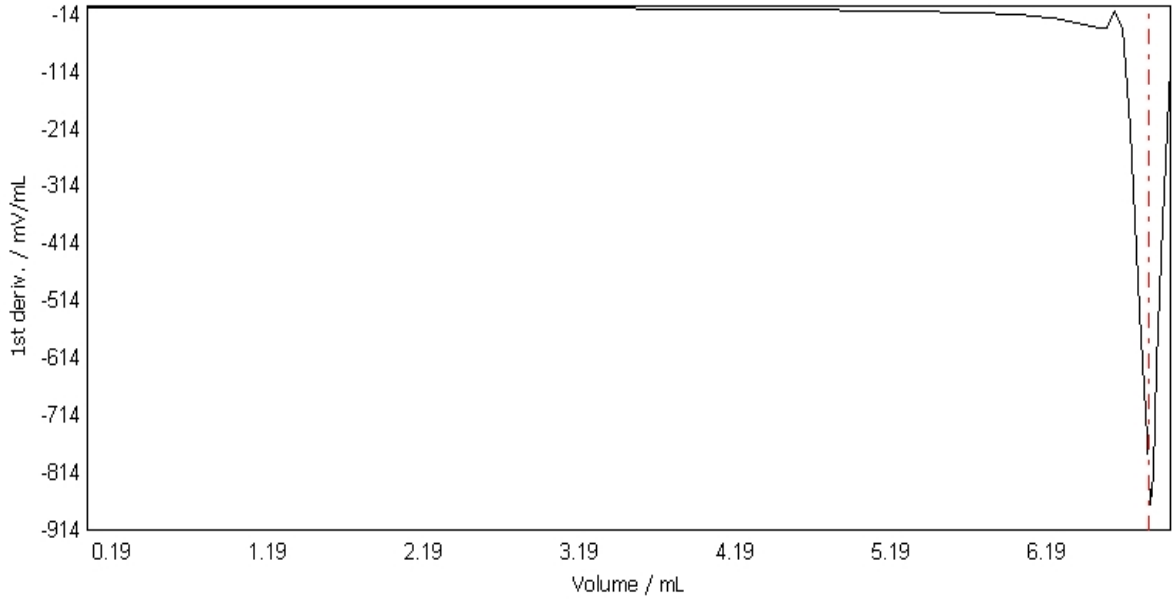
	Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
	5.8900	0.0500	346.2	-0.5	-12.37	282	25.0
	5.9400	0.0500	345.6	-0.6	-12.80	284	25.0
	5.9900	0.0500	344.9	-0.7	-13.07	286	25.0
	6.0400	0.0500	344.2	-0.7	-13.77	289	25.0
	6.0900	0.0500	343.5	-0.7	-14.81	291	25.0
	6.1400	0.0500	342.8	-0.7	-15.49	294	25.0
	6.1900	0.0500	342.0	-0.8	-16.16	296	25.0
	6.2400	0.0500	341.1	-0.9	-17.16	298	25.0
	6.2900	0.0500	340.2	-0.9	-18.57	301	25.0
	6.3400	0.0500	339.3	-0.9	-19.94	303	25.0
	6.3900	0.0500	338.3	-1.0	-21.64	306	25.0
	6.4400	0.0500	337.1	-1.2	-23.73	308	25.0
	6.4900	0.0500	335.8	-1.3	-26.41	311	25.0
	6.5400	0.0500	334.5	-1.3	-29.07	313	25.0
	6.5900	0.0500	332.9	-1.6	-32.11	316	25.0
	6.6400	0.0500	331.2	-1.7	-35.86	318	25.0
	6.6900	0.0500	329.2	-2.0	-39.79	321	25.0
	6.7400	0.0500	327.0	-2.2	-36.95	323	25.0
	6.7900	0.0500	324.2	-2.8	-8.48	326	25.0
	6.8400	0.0500	320.8	-3.4	-38.49	329	25.0
	6.8900	0.0500	316.3	-4.5	-211.63	333	25.0
	6.9400	0.0500	309.1	-7.2	-533.50	336	25.0
	6.9900	0.0500	290.8	-18.3	-753.80	339	25.0
EQP1	7.005554	NaN	247.0	NaN	-875.63	NaN	NaN
	7.0100	0.0200	234.5	-56.3	-870.59	349	25.0
	7.0300	0.0200	196.9	-37.6	-816.31	359	25.0
	7.0500	0.0200	185.1	-11.8	-626.03	369	25.0
	7.0930	0.0430	176.2	-8.9	-377.84	379	25.0
	7.1430	0.0500	170.2	-6.0	-103.93	389	25.0
	7.1930	0.0500	166.1	-4.1	NaN	399	25.0
	7.2430	0.0500	163.4	-2.7	NaN	406	25.0
	7.2930	0.0500	161.0	-2.4	NaN	412	25.0
	7.3430	0.0500	159.4	-1.6	NaN	416	25.0
	7.3930	0.0500	157.7	-1.7	NaN	421	25.0

E - V curve **EQP titration [1]**
Sample 2/6



Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

dE/dV - V curve EQP titration [1]
Sample 2/6



Raw data

Sample

No.	3/6
Standard	Potassium iodate
Type of standard	solid
Comment	
Titration stand	Rondolino TTL 1
Weight	m = 0.02443 g
Correction factor	f = 1.0
Purity	p = 100.00 %
Temperature	T = 25.0 oC
Sample start	8/13/2012 11:08:34 AM
Sample end	8/13/2012 11:19:08 AM

Dispense (normal) [1]

Titrant	0.1M HCl cDi = 0.1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 50 mL
Disp. amount	QENDDi = 5.00 mmol
Time	1:45 min

Dispense (normal) [2]

Titrant	SAT KI cDi = 1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 1.0 mL
Disp. amount	QENDDi = 1.00 mmol
Time	0:04 min

EQP titration [1]

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622	
Sensor	DM140-SC	
Start potential		EST = 373.1 mV
No. of EQPs and cand.		nEQ = 1
Consumption	EQP1	VEQ1 = 6.852481 mL
		Q1 = 0.703215 mmol
		EEQ1 = 245.3 mV

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

EHNV1 = 363.1 mV

Excess
VEX = 0.384019 mL
QEX = 0.039409 mmol

End
VEND = 7.2365 mL
QEND = 0.742624 mmol

Termination at EQPs
Time t = 7:12 min

Calculation

Result R1 = 0.99962 Titer
Formula R1=m/(VEQ*c*C)
Constant M/(10*p*z)
C = 0.035665
Molar mass M[Potassium iodate] = 213.99 g/mol
Equivalent number z[Potassium iodate] = 6
Duration tUSE = 09:39 min

Measured values **EQP titration [1]**

Titrant Na2S2O3 c = 0.1 mol/L TITER = 1.02622
Sensor DM140-SC
Sample 3/6

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
0.0000	NaN	373.1	NaN	NaN	0	25.0
0.0200	0.0200	373.3	0.2	NaN	2	25.0
0.0400	0.0200	373.3	0.0	NaN	4	25.0
0.0900	0.0500	373.3	0.0	NaN	7	25.0
0.1400	0.0500	373.3	0.0	NaN	9	25.0
0.1900	0.0500	373.2	-0.1	-1.55	12	25.0
0.2400	0.0500	373.1	-0.1	-1.74	14	25.0
0.2900	0.0500	373.0	-0.1	-2.00	16	25.0
0.3400	0.0500	373.0	0.0	-2.12	18	25.0
0.3900	0.0500	372.8	-0.2	-2.11	21	25.0
0.4400	0.0500	372.7	-0.1	-2.20	23	25.0
0.4900	0.0500	372.6	-0.1	-2.09	26	25.0
0.5400	0.0500	372.5	-0.1	-2.11	28	25.0
0.5900	0.0500	372.4	-0.1	-2.09	30	25.0
0.6400	0.0500	372.3	-0.1	-2.40	33	25.0
0.6900	0.0500	372.2	-0.1	-2.40	35	25.0
0.7400	0.0500	372.0	-0.2	-2.51	37	25.0
0.7900	0.0500	371.9	-0.1	-2.49	40	25.0
0.8400	0.0500	371.8	-0.1	-2.60	42	25.0
0.8900	0.0500	371.7	-0.1	-2.72	45	25.0
0.9400	0.0500	371.5	-0.2	-2.68	47	25.0
0.9900	0.0500	371.4	-0.1	-2.91	49	25.0
1.0400	0.0500	371.2	-0.2	-2.81	52	25.0
1.0900	0.0500	371.1	-0.1	-2.79	54	25.0
1.1400	0.0500	371.0	-0.1	-2.69	56	25.0
1.1900	0.0500	370.8	-0.2	-2.91	59	25.0
1.2400	0.0500	370.7	-0.1	-3.00	61	25.0
1.2900	0.0500	370.5	-0.2	-3.00	64	25.0
1.3400	0.0500	370.4	-0.1	-2.79	66	25.0
1.3900	0.0500	370.2	-0.2	-2.80	68	25.0
1.4400	0.0500	370.1	-0.1	-3.00	71	25.0
1.4900	0.0500	370.0	-0.1	-2.89	73	25.0
1.5400	0.0500	369.8	-0.2	-3.02	75	25.0
1.5900	0.0500	369.6	-0.2	-2.89	78	25.0
1.6400	0.0500	369.5	-0.1	-2.89	80	25.0
1.6900	0.0500	369.4	-0.1	-2.80	82	25.0
1.7400	0.0500	369.2	-0.2	-3.00	85	25.0
1.7900	0.0500	369.1	-0.1	-3.29	87	25.0
1.8400	0.0500	368.9	-0.2	-3.63	90	25.0
1.8900	0.0500	368.7	-0.2	-3.51	92	25.0
1.9400	0.0500	368.5	-0.2	-3.28	94	25.0
1.9900	0.0500	368.4	-0.1	-3.32	97	25.0
2.0400	0.0500	368.2	-0.2	-3.09	99	25.0
2.0900	0.0500	368.1	-0.1	-3.08	101	25.0
2.1400	0.0500	367.9	-0.2	-3.32	104	25.0

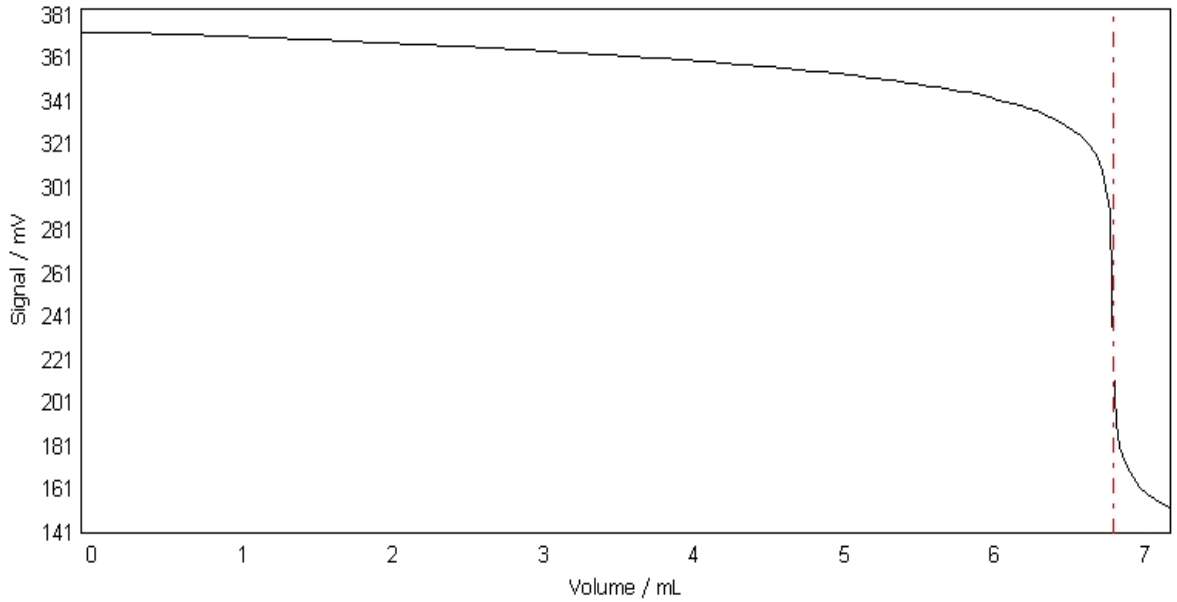
Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
2.1900	0.0500	367.7	-0.2	-3.40	106	25.0
2.2400	0.0500	367.6	-0.1	-3.28	108	25.0
2.2900	0.0500	367.4	-0.2	-3.32	111	25.0
2.3400	0.0500	367.2	-0.2	-3.40	113	25.0
2.3900	0.0500	367.1	-0.1	-3.49	116	25.0
2.4400	0.0500	366.9	-0.2	-3.51	118	25.0
2.4900	0.0500	366.7	-0.2	-3.40	120	25.0
2.5400	0.0500	366.5	-0.2	-3.49	123	25.0
2.5900	0.0500	366.4	-0.1	-3.60	125	25.0
2.6400	0.0500	366.2	-0.2	-3.60	128	25.0
2.6900	0.0500	366.0	-0.2	-3.80	130	25.0
2.7400	0.0500	365.8	-0.2	-4.00	132	25.0
2.7900	0.0500	365.6	-0.2	-4.12	135	25.0
2.8400	0.0500	365.4	-0.2	-4.00	137	25.0
2.8900	0.0500	365.2	-0.2	-4.12	139	25.0
2.9400	0.0500	365.0	-0.2	-3.89	142	25.0
2.9900	0.0500	364.8	-0.2	-3.79	144	25.0
3.0400	0.0500	364.6	-0.2	-3.80	146	25.0
3.0900	0.0500	364.4	-0.2	-3.89	149	25.0
3.1400	0.0500	364.3	-0.1	-4.00	151	25.0
3.1900	0.0500	364.0	-0.3	-4.11	154	25.0
3.2400	0.0500	363.8	-0.2	-4.20	156	25.0
3.2900	0.0500	363.6	-0.2	-4.09	158	25.0
3.3400	0.0500	363.4	-0.2	-4.11	161	25.0
3.3900	0.0500	363.2	-0.2	-3.97	163	25.0
3.4400	0.0500	363.0	-0.2	-4.40	165	25.0
3.4900	0.0500	362.8	-0.2	-4.72	168	25.0
3.5400	0.0500	362.5	-0.3	-4.91	170	25.0
3.5900	0.0500	362.3	-0.2	-4.91	172	25.0
3.6400	0.0500	362.0	-0.3	-4.60	175	25.0
3.6900	0.0500	361.8	-0.2	-4.40	177	25.0
3.7400	0.0500	361.6	-0.2	-4.18	180	25.0
3.7900	0.0500	361.4	-0.2	-4.28	182	25.0
3.8400	0.0500	361.2	-0.2	-4.60	184	25.0
3.8900	0.0500	360.9	-0.3	-5.00	187	25.0
3.9400	0.0500	360.7	-0.2	-5.31	189	25.0
3.9900	0.0500	360.4	-0.3	-5.32	192	25.0
4.0400	0.0500	360.1	-0.3	-5.19	194	25.0
4.0900	0.0500	359.9	-0.2	-5.09	196	25.0
4.1400	0.0500	359.6	-0.3	-5.20	199	25.0
4.1900	0.0500	359.4	-0.2	-5.28	201	25.0
4.2400	0.0500	359.1	-0.3	-5.60	203	25.0
4.2900	0.0500	358.8	-0.3	-5.91	206	25.0
4.3400	0.0500	358.5	-0.3	-6.00	208	25.0
4.3900	0.0500	358.2	-0.3	-6.00	210	25.0
4.4400	0.0500	357.9	-0.3	-6.11	213	25.0
4.4900	0.0500	357.6	-0.3	-6.09	215	25.0
4.5400	0.0500	357.3	-0.3	-6.19	218	25.0
4.5900	0.0500	357.0	-0.3	-6.20	220	25.0
4.6400	0.0500	356.6	-0.4	-6.40	222	25.0
4.6900	0.0500	356.4	-0.2	-6.60	225	25.0
4.7400	0.0500	356.0	-0.4	-6.60	227	25.0
4.7900	0.0500	355.7	-0.3	-6.59	229	25.0
4.8400	0.0500	355.3	-0.4	-6.69	232	25.0
4.8900	0.0500	355.0	-0.3	-7.00	234	25.0
4.9400	0.0500	354.7	-0.3	-7.09	236	25.0
4.9900	0.0500	354.3	-0.4	-7.40	239	25.0
5.0400	0.0500	353.9	-0.4	-7.68	241	25.0
5.0900	0.0500	353.5	-0.4	-8.44	244	25.0
5.1400	0.0500	353.1	-0.4	-8.61	246	25.0
5.1900	0.0500	352.7	-0.4	-8.59	248	25.0
5.2400	0.0500	352.2	-0.5	-8.72	251	25.0
5.2900	0.0500	351.7	-0.5	-9.00	253	25.0
5.3400	0.0500	351.4	-0.3	-8.86	256	25.0
5.3900	0.0500	350.9	-0.5	-9.11	258	25.0
5.4400	0.0500	350.4	-0.5	-9.48	260	25.0
5.4900	0.0500	349.9	-0.5	-10.29	263	25.0
5.5400	0.0500	349.5	-0.4	-10.72	265	25.0
5.5900	0.0500	348.8	-0.7	-10.91	267	25.0
5.6400	0.0500	348.3	-0.5	-11.28	270	25.0
5.6900	0.0500	347.7	-0.6	-11.69	272	25.0
5.7400	0.0500	347.2	-0.5	-12.00	275	25.0
5.7900	0.0500	346.5	-0.7	-12.37	277	25.0
5.8400	0.0500	345.9	-0.6	-13.28	279	25.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

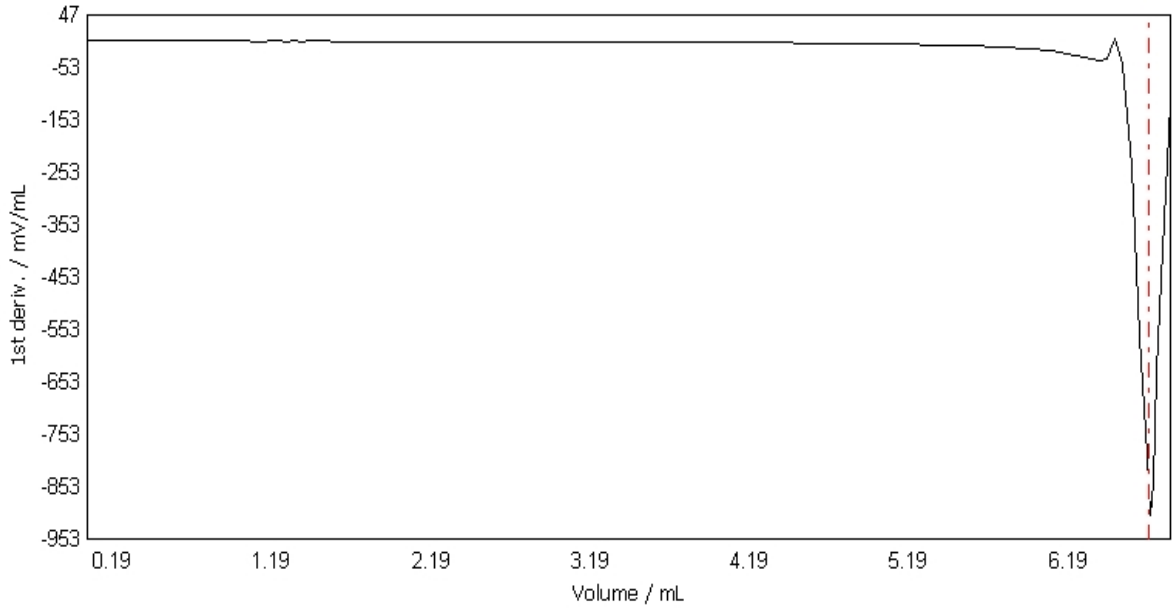
	Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
	5.8900	0.0500	345.2	-0.7	-14.09	282	25.0
	5.9400	0.0500	344.5	-0.7	-15.11	284	25.0
	5.9900	0.0500	343.7	-0.8	-15.65	287	25.0
	6.0400	0.0500	342.9	-0.8	-16.79	289	25.0
	6.0900	0.0500	342.0	-0.9	-17.89	292	25.0
	6.1400	0.0500	341.1	-0.9	-19.05	294	25.0
	6.1900	0.0500	340.2	-0.9	-20.25	296	25.0
	6.2400	0.0500	339.0	-1.2	-21.96	299	25.0
	6.2900	0.0500	337.9	-1.1	-23.67	302	25.0
	6.3400	0.0500	336.7	-1.2	-26.42	304	25.0
	6.3900	0.0500	335.3	-1.4	-29.62	306	25.0
	6.4400	0.0500	333.7	-1.6	-32.53	309	25.0
	6.4900	0.0500	332.0	-1.7	-36.10	311	25.0
	6.5400	0.0500	329.8	-2.2	-40.03	314	25.0
	6.5900	0.0500	327.6	-2.2	-38.43	316	25.0
	6.6400	0.0500	325.0	-2.6	1.39	319	25.0
	6.6900	0.0500	321.3	-3.7	-47.68	321	25.0
	6.7400	0.0500	316.2	-5.1	-241.51	324	25.0
	6.7900	0.0500	308.4	-7.8	-568.00	326	25.0
	6.8400	0.0500	289.6	-18.8	-791.97	329	25.0
EQP1	6.852481	NaN	245.3	NaN	-917.01	NaN	NaN
	6.8600	0.0200	218.6	-71.0	-907.29	339	25.0
	6.8800	0.0200	192.0	-26.6	-846.55	349	25.0
	6.9000	0.0200	181.1	-10.9	-634.96	359	25.0
	6.9365	0.0365	172.9	-8.2	-400.62	369	25.0
	6.9865	0.0500	166.6	-6.3	-120.54	379	25.0
	7.0365	0.0500	162.2	-4.4	NaN	389	25.0
	7.0865	0.0500	159.0	-3.2	NaN	397	25.0
	7.1365	0.0500	156.7	-2.3	NaN	403	25.0
	7.1865	0.0500	154.7	-2.0	NaN	409	25.0
	7.2365	0.0500	153.0	-1.7	NaN	414	25.0

E - V curve **EQP titration [1]**
Sample 3/6



Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

dE/dV - V curve EQP titration [1]
Sample 3/6



Raw data

Sample

No.	4/6
Standard	Potassium iodate
Type of standard	solid
Comment	
Titration stand	Rondolino TTL 1
Weight	m = 0.02367 g
Correction factor	f = 1.0
Purity	p = 100.00 %
Temperature	T = 25.0 oC
Sample start	8/13/2012 11:19:09 AM
Sample end	8/13/2012 11:29:36 AM

Dispense (normal) [1]

Titrant	0.1M HCl cDi = 0.1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 50 mL
Disp. amount	QENDDi = 5.00 mmol
Time	1:46 min

Dispense (normal) [2]

Titrant	SAT KI cDi = 1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 1.0 mL
Disp. amount	QENDDi = 1.00 mmol
Time	0:04 min

EQP titration [1]

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622	
Sensor	DM140-SC	
Start potential		EST = 371.4 mV
No. of EQPs and cand.		nEQ = 1
Consumption	EQP1	VEQ1 = 6.621284 mL
		Q1 = 0.679489 mmol
		EEQ1 = 241.8 mV

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

EHNV1 = 362.0 mV

Excess
VEX = 0.421216 mL
QEX = 0.043226 mmol

End
VEND = 7.0425 mL
QEND = 0.722715 mmol

Termination at EQPs
Time t = 7:04 min

Calculation

Result R1 = 1.00234 Titer
Formula R1=m/(VEQ*c*C)
Constant M/(10*p*z)
C = 0.035665
Molar mass M[Potassium iodate] = 213.99 g/mol
Equivalent number z[Potassium iodate] = 6
Duration tUSE = 09:31 min

Measured values **EQP titration [1]**

Titrant Na2S2O3 c = 0.1 mol/L TITER = 1.02622
Sensor DM140-SC
Sample 4/6

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
0.0000	NaN	371.4	NaN	NaN	0	25.0
0.0200	0.0200	371.8	0.4	NaN	2	25.0
0.0400	0.0200	371.9	0.1	NaN	4	25.0
0.0900	0.0500	371.9	0.0	NaN	7	25.0
0.1400	0.0500	371.9	0.0	NaN	9	25.0
0.1900	0.0500	371.9	0.0	-0.79	12	25.0
0.2400	0.0500	371.9	0.0	-0.91	14	25.0
0.2900	0.0500	371.8	-0.1	-1.32	16	25.0
0.3400	0.0500	371.7	-0.1	-1.80	19	25.0
0.3900	0.0500	371.7	0.0	-2.12	21	25.0
0.4400	0.0500	371.5	-0.2	-2.11	23	25.0
0.4900	0.0500	371.4	-0.1	-2.19	26	25.0
0.5400	0.0500	371.3	-0.1	-2.41	28	25.0
0.5900	0.0500	371.2	-0.1	-2.51	30	25.0
0.6400	0.0500	371.1	-0.1	-2.28	33	25.0
0.6900	0.0500	370.9	-0.2	-2.51	35	25.0
0.7400	0.0500	370.8	-0.1	-2.49	38	25.0
0.7900	0.0500	370.7	-0.1	-2.60	40	25.0
0.8400	0.0500	370.6	-0.1	-2.72	42	25.0
0.8900	0.0500	370.4	-0.2	-2.68	45	25.0
0.9400	0.0500	370.3	-0.1	-2.80	47	25.0
0.9900	0.0500	370.1	-0.2	-2.92	49	25.0
1.0400	0.0500	370.0	-0.1	-3.00	52	25.0
1.0900	0.0500	369.9	-0.1	-2.89	54	25.0
1.1400	0.0500	369.7	-0.2	-3.02	56	25.0
1.1900	0.0500	369.5	-0.2	-2.89	59	25.0
1.2400	0.0500	369.4	-0.1	-3.00	61	25.0
1.2900	0.0500	369.3	-0.1	-2.80	64	25.0
1.3400	0.0500	369.1	-0.2	-2.68	66	25.0
1.3900	0.0500	369.0	-0.1	-3.00	68	25.0
1.4400	0.0500	368.8	-0.2	-3.21	71	25.0
1.4900	0.0500	368.7	-0.1	-3.31	73	25.0
1.5400	0.0500	368.5	-0.2	-3.32	76	25.0
1.5900	0.0500	368.3	-0.2	-3.20	78	25.0
1.6400	0.0500	368.2	-0.1	-2.88	80	25.0
1.6900	0.0500	368.0	-0.2	-2.80	83	25.0
1.7400	0.0500	367.9	-0.1	-2.88	85	25.0
1.7900	0.0500	367.8	-0.1	-3.09	87	25.0
1.8400	0.0500	367.6	-0.2	-3.42	90	25.0
1.8900	0.0500	367.4	-0.2	-3.40	92	25.0
1.9400	0.0500	367.2	-0.2	-3.40	94	25.0
1.9900	0.0500	367.1	-0.1	-3.20	97	25.0
2.0400	0.0500	366.9	-0.2	-3.20	99	25.0
2.0900	0.0500	366.8	-0.1	-3.28	102	25.0
2.1400	0.0500	366.6	-0.2	-3.40	104	25.0

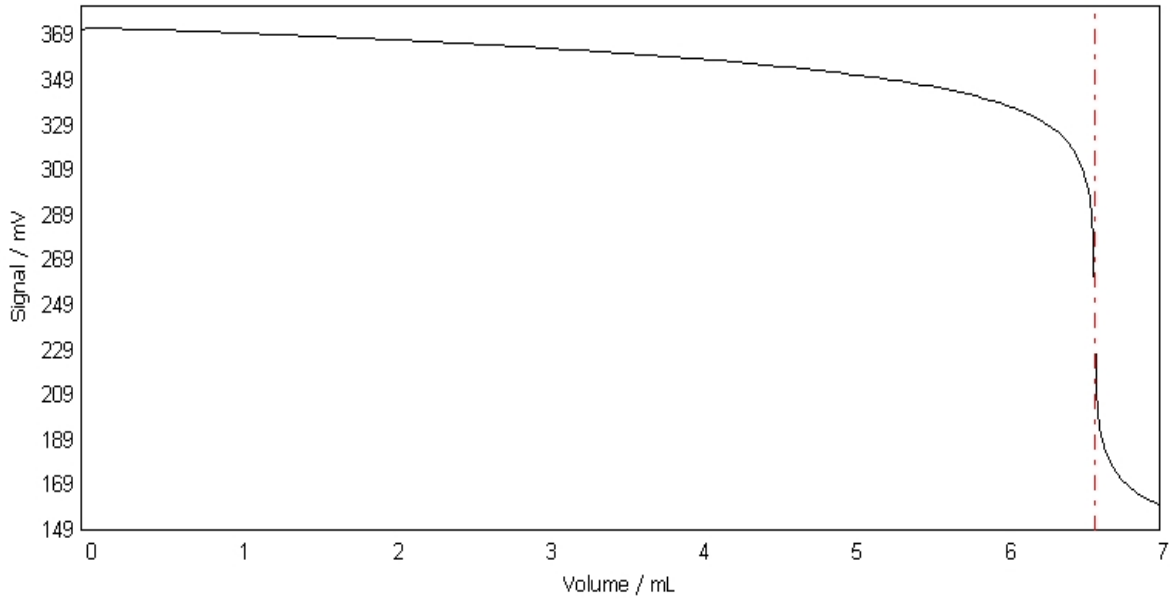
Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
2.1900	0.0500	366.4	-0.2	-3.63	106	25.0
2.2400	0.0500	366.2	-0.2	-3.37	109	25.0
2.2900	0.0500	366.1	-0.1	-3.51	111	25.0
2.3400	0.0500	365.9	-0.2	-3.41	113	25.0
2.3900	0.0500	365.7	-0.2	-3.48	116	25.0
2.4400	0.0500	365.6	-0.1	-3.60	118	25.0
2.4900	0.0500	365.3	-0.3	-3.72	120	25.0
2.5400	0.0500	365.2	-0.1	-3.68	123	25.0
2.5900	0.0500	365.0	-0.2	-3.81	125	25.0
2.6400	0.0500	364.8	-0.2	-3.91	128	25.0
2.6900	0.0500	364.6	-0.2	-3.89	130	25.0
2.7400	0.0500	364.4	-0.2	-4.12	132	25.0
2.7900	0.0500	364.2	-0.2	-4.00	135	25.0
2.8400	0.0500	364.0	-0.2	-4.00	137	25.0
2.8900	0.0500	363.8	-0.2	-4.00	140	25.0
2.9400	0.0500	363.6	-0.2	-4.00	142	25.0
2.9900	0.0500	363.4	-0.2	-4.00	144	25.0
3.0400	0.0500	363.2	-0.2	-3.88	147	25.0
3.0900	0.0500	363.0	-0.2	-4.00	149	25.0
3.1400	0.0500	362.8	-0.2	-4.20	151	25.0
3.1900	0.0500	362.6	-0.2	-4.28	154	25.0
3.2400	0.0500	362.4	-0.2	-4.51	156	25.0
3.2900	0.0500	362.1	-0.3	-4.72	158	25.0
3.3400	0.0500	361.9	-0.2	-4.80	161	25.0
3.3900	0.0500	361.7	-0.2	-4.60	163	25.0
3.4400	0.0500	361.4	-0.3	-4.39	166	25.0
3.4900	0.0500	361.2	-0.2	-4.49	168	25.0
3.5400	0.0500	361.0	-0.2	-4.69	170	25.0
3.5900	0.0500	360.8	-0.2	-4.91	173	25.0
3.6400	0.0500	360.5	-0.3	-5.00	175	25.0
3.6900	0.0500	360.2	-0.3	-5.20	177	25.0
3.7400	0.0500	360.0	-0.2	-5.32	180	25.0
3.7900	0.0500	359.7	-0.3	-5.20	182	25.0
3.8400	0.0500	359.5	-0.2	-5.08	184	25.0
3.8900	0.0500	359.2	-0.3	-5.32	187	25.0
3.9400	0.0500	358.9	-0.3	-5.40	189	25.0
3.9900	0.0500	358.7	-0.2	-5.28	192	25.0
4.0400	0.0500	358.4	-0.3	-5.32	194	25.0
4.0900	0.0500	358.1	-0.3	-5.28	196	25.0
4.1400	0.0500	357.9	-0.2	-5.49	199	25.0
4.1900	0.0500	357.6	-0.3	-5.60	201	25.0
4.2400	0.0500	357.3	-0.3	-5.79	204	25.0
4.2900	0.0500	357.0	-0.3	-6.09	206	25.0
4.3400	0.0500	356.7	-0.3	-6.51	208	25.0
4.3900	0.0500	356.4	-0.3	-6.72	211	25.0
4.4400	0.0500	356.0	-0.4	-6.80	213	25.0
4.4900	0.0500	355.7	-0.3	-6.80	215	25.0
4.5400	0.0500	355.3	-0.4	-6.80	218	25.0
4.5900	0.0500	355.0	-0.3	-7.00	220	25.0
4.6400	0.0500	354.7	-0.3	-7.09	222	25.0
4.6900	0.0500	354.3	-0.4	-7.31	225	25.0
4.7400	0.0500	353.9	-0.4	-7.40	227	25.0
4.7900	0.0500	353.5	-0.4	-7.49	230	25.0
4.8400	0.0500	353.2	-0.3	-7.60	232	25.0
4.8900	0.0500	352.8	-0.4	-7.69	234	25.0
4.9400	0.0500	352.4	-0.4	-8.08	237	25.0
4.9900	0.0500	352.0	-0.4	-8.72	239	25.0
5.0400	0.0500	351.5	-0.5	-9.12	241	25.0
5.0900	0.0500	351.1	-0.4	-9.20	244	25.0
5.1400	0.0500	350.6	-0.5	-9.20	246	25.0
5.1900	0.0500	350.1	-0.5	-9.28	248	25.0
5.2400	0.0500	349.7	-0.4	-9.57	251	25.0
5.2900	0.0500	349.2	-0.5	-10.20	253	25.0
5.3400	0.0500	348.7	-0.5	-10.80	256	25.0
5.3900	0.0500	348.1	-0.6	-11.28	258	25.0
5.4400	0.0500	347.5	-0.6	-12.03	260	25.0
5.4900	0.0500	346.9	-0.6	-12.29	263	25.0
5.5400	0.0500	346.3	-0.6	-12.68	265	25.0
5.5900	0.0500	345.7	-0.6	-13.20	268	25.0
5.6400	0.0500	344.9	-0.8	-13.88	270	25.0
5.6900	0.0500	344.3	-0.6	-14.56	272	25.0
5.7400	0.0500	343.5	-0.8	-15.40	275	25.0
5.7900	0.0500	342.7	-0.8	-16.28	277	25.0
5.8400	0.0500	341.9	-0.8	-17.25	279	25.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

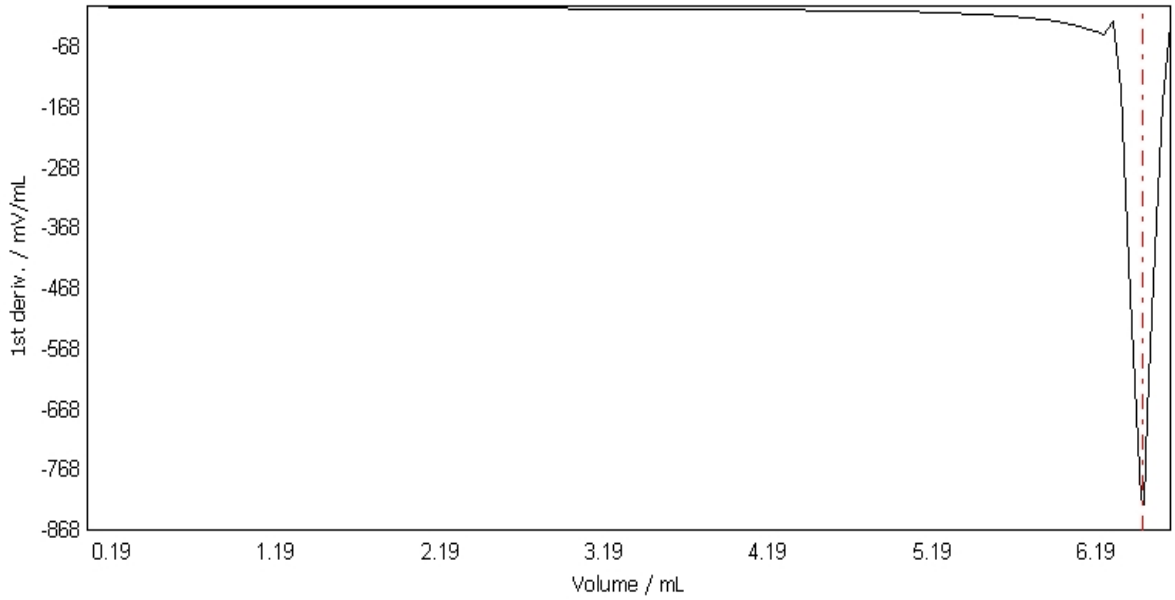
	Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
	5.8900	0.0500	341.0	-0.9	-18.48	282	25.0
	5.9400	0.0500	340.0	-1.0	-19.65	284	25.0
	5.9900	0.0500	339.0	-1.0	-21.45	287	25.0
	6.0400	0.0500	337.9	-1.1	-23.22	289	25.0
	6.0900	0.0500	336.7	-1.2	-25.29	292	25.0
	6.1400	0.0500	335.3	-1.4	-28.30	294	25.0
	6.1900	0.0500	333.8	-1.5	-31.49	297	25.0
	6.2400	0.0500	332.2	-1.6	-34.94	299	25.0
	6.2900	0.0500	330.2	-2.0	-38.14	302	25.0
	6.3400	0.0500	327.9	-2.3	-42.55	304	25.0
	6.3900	0.0500	325.4	-2.5	-46.57	307	25.0
	6.4400	0.0500	322.0	-3.4	-24.33	309	25.0
	6.4900	0.0500	317.4	-4.6	-138.45	312	25.0
	6.5400	0.0500	309.8	-7.6	-429.62	314	25.0
	6.5900	0.0500	297.3	-12.5	-674.15	318	25.0
	6.6105	0.0205	278.5	-18.8	-817.01	323	25.0
EQP1	6.621284	NaN	241.8	NaN	-826.86	NaN	NaN
	6.6305	0.0200	210.4	-68.1	-826.36	333	25.0
	6.6505	0.0200	194.3	-16.1	-675.70	343	25.0
	6.6925	0.0420	183.7	-10.6	-457.51	353	25.0
	6.7425	0.0500	176.8	-6.9	-158.69	363	25.0
	6.7925	0.0500	171.9	-4.9	-31.08	373	25.0
	6.8425	0.0500	168.3	-3.6	NaN	382	25.0
	6.8925	0.0500	165.6	-2.7	NaN	390	25.0
	6.9425	0.0500	163.5	-2.1	NaN	396	25.0
	6.9925	0.0500	161.8	-1.7	NaN	401	25.0
	7.0425	0.0500	160.2	-1.6	NaN	406	25.0

E - V curve **EQP titration [1]**
Sample 4/6



Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

dE/dV - V curve **EQP titration [1]**
Sample 4/6



Raw data

Sample

No.	5/6
Standard	Potassium iodate
Type of standard	solid
Comment	
Titration stand	Rondolino TTL 1
Weight	m = 0.02382 g
Correction factor	f = 1.0
Purity	p = 100.00 %
Temperature	T = 25.0 oC
Sample start	8/13/2012 11:29:37 AM
Sample end	8/13/2012 11:40:05 AM

Dispense (normal) [1]

Titrant	0.1M HCl cDi = 0.1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 50 mL
Disp. amount	QENDDi = 5.00 mmol
Time	1:45 min

Dispense (normal) [2]

Titrant	SAT KI cDi = 1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 1.0 mL
Disp. amount	QENDDi = 1.00 mmol
Time	0:04 min

EQP titration [1]

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622	
Sensor	DM140-SC	
Start potential		EST = 374.4 mV
No. of EQPs and cand.		nEQ = 1
Consumption	EQP1	VEQ1 = 6.652479 mL
		Q1 = 0.682691 mmol
		EEQ1 = 248.2 mV

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

		EHNV1 = 363.8 mV
Excess		VEX = 0.385521 mL
		QEX = 0.039563 mmol
End		VEND = 7.0380 mL
		QEND = 0.722254 mmol
Termination at	EQPs	
Time	t = 7:04 min	

Calculation

Result	R1 = 1.00396 Titer
Formula	R1=m/(VEQ*c*C)
Constant	M/(10*p*z)
	C = 0.035665
Molar mass	M[Potassium iodate] = 213.99 g/mol
Equivalent number	z[Potassium iodate] = 6
Duration	tUSE = 09:31 min

Measured values **EQP titration [1]**

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622
Sensor	DM140-SC
Sample	5/6

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
0.0000	NaN	374.4	NaN	NaN	0	25.0
0.0200	0.0200	374.3	-0.1	NaN	2	25.0
0.0400	0.0200	374.3	0.0	NaN	4	25.0
0.0900	0.0500	374.2	-0.1	NaN	7	25.0
0.1400	0.0500	374.1	-0.1	NaN	9	25.0
0.1900	0.0500	374.0	-0.1	-2.55	12	25.0
0.2400	0.0500	373.8	-0.2	-2.42	14	25.0
0.2900	0.0500	373.7	-0.1	-2.40	16	25.0
0.3400	0.0500	373.6	-0.1	-2.29	19	25.0
0.3900	0.0500	373.5	-0.1	-2.40	21	25.0
0.4400	0.0500	373.4	-0.1	-2.60	23	25.0
0.4900	0.0500	373.2	-0.2	-2.91	26	25.0
0.5400	0.0500	373.1	-0.1	-2.80	28	25.0
0.5900	0.0500	372.9	-0.2	-2.72	30	25.0
0.6400	0.0500	372.8	-0.1	-2.49	33	25.0
0.6900	0.0500	372.7	-0.1	-2.49	35	25.0
0.7400	0.0500	372.6	-0.1	-2.72	38	25.0
0.7900	0.0500	372.4	-0.2	-2.68	40	25.0
0.8400	0.0500	372.3	-0.1	-2.91	42	25.0
0.8900	0.0500	372.1	-0.2	-2.92	45	25.0
0.9400	0.0500	372.0	-0.1	-2.68	47	25.0
0.9900	0.0500	371.9	-0.1	-2.48	49	25.0
1.0400	0.0500	371.7	-0.2	-2.71	52	25.0
1.0900	0.0500	371.6	-0.1	-2.89	54	25.0
1.1400	0.0500	371.5	-0.1	-3.00	56	25.0
1.1900	0.0500	371.3	-0.2	-2.91	59	25.0
1.2400	0.0500	371.1	-0.2	-3.00	61	25.0
1.2900	0.0500	371.0	-0.1	-3.09	64	25.0
1.3400	0.0500	370.9	-0.1	-3.11	66	25.0
1.3900	0.0500	370.7	-0.2	-3.00	68	25.0
1.4400	0.0500	370.5	-0.2	-3.20	71	25.0
1.4900	0.0500	370.4	-0.1	-3.21	73	25.0
1.5400	0.0500	370.2	-0.2	-3.11	75	25.0
1.5900	0.0500	370.1	-0.1	-2.88	78	25.0
1.6400	0.0500	369.9	-0.2	-2.88	80	25.0
1.6900	0.0500	369.8	-0.1	-3.11	82	25.0
1.7400	0.0500	369.6	-0.2	-3.09	85	25.0
1.7900	0.0500	369.5	-0.1	-3.19	87	25.0
1.8400	0.0500	369.3	-0.2	-3.32	90	25.0
1.8900	0.0500	369.1	-0.2	-3.40	92	25.0
1.9400	0.0500	369.0	-0.1	-3.28	94	25.0
1.9900	0.0500	368.8	-0.2	-3.43	97	25.0
2.0400	0.0500	368.6	-0.2	-3.28	99	25.0
2.0900	0.0500	368.5	-0.1	-3.28	101	25.0
2.1400	0.0500	368.3	-0.2	-3.32	104	25.0

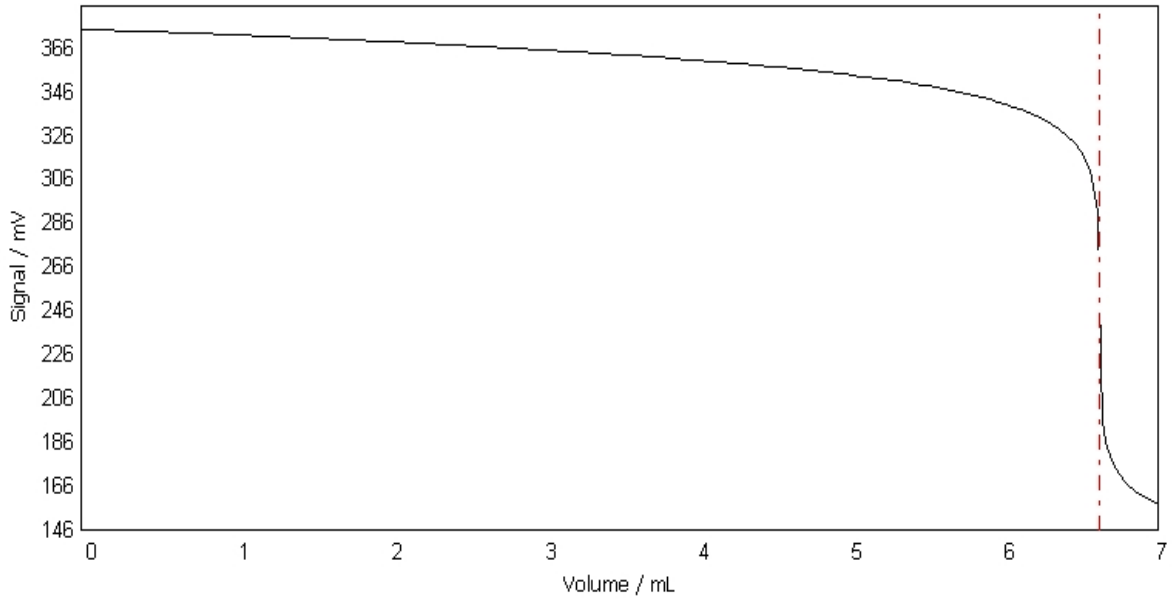
Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
2.1900	0.0500	368.1	-0.2	-3.28	106	25.0
2.2400	0.0500	368.0	-0.1	-3.49	108	25.0
2.2900	0.0500	367.8	-0.2	-3.72	111	25.0
2.3400	0.0500	367.6	-0.2	-3.91	113	25.0
2.3900	0.0500	367.4	-0.2	-4.00	116	25.0
2.4400	0.0500	367.2	-0.2	-3.91	118	25.0
2.4900	0.0500	367.0	-0.2	-3.60	120	25.0
2.5400	0.0500	366.8	-0.2	-3.49	123	25.0
2.5900	0.0500	366.7	-0.1	-3.49	125	25.0
2.6400	0.0500	366.5	-0.2	-3.60	128	25.0
2.6900	0.0500	366.3	-0.2	-3.80	130	25.0
2.7400	0.0500	366.1	-0.2	-4.00	132	25.0
2.7900	0.0500	365.9	-0.2	-4.23	135	25.0
2.8400	0.0500	365.7	-0.2	-3.89	137	25.0
2.8900	0.0500	365.5	-0.2	-3.79	139	25.0
2.9400	0.0500	365.3	-0.2	-3.80	142	25.0
2.9900	0.0500	365.1	-0.2	-3.89	144	25.0
3.0400	0.0500	365.0	-0.1	-4.00	146	25.0
3.0900	0.0500	364.7	-0.3	-4.11	149	25.0
3.1400	0.0500	364.5	-0.2	-4.08	151	25.0
3.1900	0.0500	364.3	-0.2	-4.20	154	25.0
3.2400	0.0500	364.1	-0.2	-4.32	156	25.0
3.2900	0.0500	363.9	-0.2	-4.28	158	25.0
3.3400	0.0500	363.7	-0.2	-4.40	161	25.0
3.3900	0.0500	363.4	-0.3	-4.51	163	25.0
3.4400	0.0500	363.2	-0.2	-4.49	165	25.0
3.4900	0.0500	363.0	-0.2	-4.60	168	25.0
3.5400	0.0500	362.8	-0.2	-4.60	170	25.0
3.5900	0.0500	362.5	-0.3	-4.68	172	25.0
3.6400	0.0500	362.3	-0.2	-5.12	175	25.0
3.6900	0.0500	362.0	-0.3	-5.21	177	25.0
3.7400	0.0500	361.8	-0.2	-5.31	180	25.0
3.7900	0.0500	361.5	-0.3	-5.21	182	25.0
3.8400	0.0500	361.2	-0.3	-5.19	184	25.0
3.8900	0.0500	361.0	-0.2	-5.20	187	25.0
3.9400	0.0500	360.7	-0.3	-5.20	189	25.0
3.9900	0.0500	360.5	-0.2	-4.96	192	25.0
4.0400	0.0500	360.2	-0.3	-5.32	194	25.0
4.0900	0.0500	359.9	-0.3	-5.60	196	25.0
4.1400	0.0500	359.7	-0.2	-5.68	199	25.0
4.1900	0.0500	359.4	-0.3	-5.83	201	25.0
4.2400	0.0500	359.0	-0.4	-5.80	203	25.0
4.2900	0.0500	358.8	-0.2	-5.77	206	25.0
4.3400	0.0500	358.5	-0.3	-5.92	208	25.0
4.3900	0.0500	358.2	-0.3	-5.88	210	25.0
4.4400	0.0500	357.9	-0.3	-6.28	213	25.0
4.4900	0.0500	357.6	-0.3	-6.72	215	25.0
4.5400	0.0500	357.2	-0.4	-6.91	218	25.0
4.5900	0.0500	356.9	-0.3	-6.89	220	25.0
4.6400	0.0500	356.5	-0.4	-7.11	222	25.0
4.6900	0.0500	356.2	-0.3	-7.20	225	25.0
4.7400	0.0500	355.8	-0.4	-7.17	227	25.0
4.7900	0.0500	355.5	-0.3	-7.63	229	25.0
4.8400	0.0500	355.0	-0.5	-7.69	232	25.0
4.8900	0.0500	354.7	-0.3	-7.76	234	25.0
4.9400	0.0500	354.3	-0.4	-8.24	236	25.0
4.9900	0.0500	353.8	-0.5	-8.72	239	25.0
5.0400	0.0500	353.5	-0.3	-8.65	241	25.0
5.0900	0.0500	353.0	-0.5	-9.06	244	25.0
5.1400	0.0500	352.4	-0.6	-8.77	246	25.0
5.1900	0.0500	352.1	-0.3	-9.05	248	25.0
5.2400	0.0500	351.7	-0.4	-9.53	251	25.0
5.2900	0.0500	351.1	-0.6	-9.99	253	25.0
5.3400	0.0500	350.7	-0.4	-10.57	255	25.0
5.3900	0.0500	350.0	-0.7	-11.35	258	25.0
5.4400	0.0500	349.5	-0.5	-11.40	260	25.0
5.4900	0.0500	348.9	-0.6	-11.46	262	25.0
5.5400	0.0500	348.4	-0.5	-12.11	265	25.0
5.5900	0.0500	347.7	-0.7	-12.57	267	25.0
5.6400	0.0500	347.1	-0.6	-13.59	270	25.0
5.6900	0.0500	346.4	-0.7	-14.09	272	25.0
5.7400	0.0500	345.6	-0.8	-14.91	274	25.0
5.7900	0.0500	344.9	-0.7	-15.46	277	25.0
5.8400	0.0500	344.1	-0.8	-16.37	279	25.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

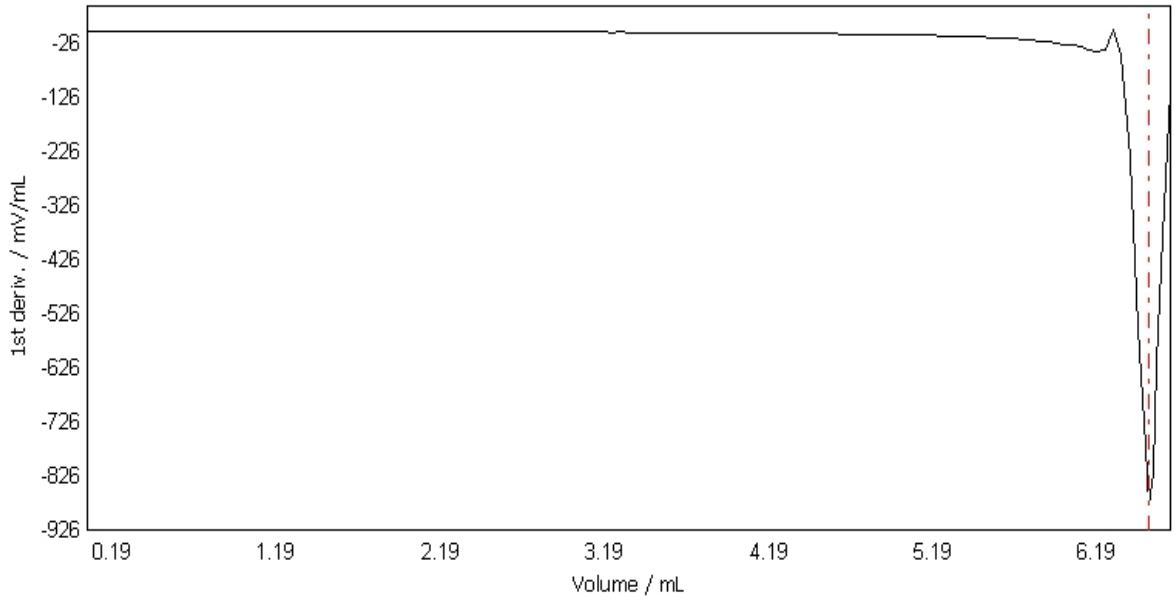
	Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
	5.8900	0.0500	343.3	-0.8	-17.36	281	25.0
	5.9400	0.0500	342.3	-1.0	-18.97	284	25.0
	5.9900	0.0500	341.4	-0.9	-20.65	286	25.0
	6.0400	0.0500	340.3	-1.1	-22.25	289	25.0
	6.0900	0.0500	339.1	-1.2	-24.36	292	25.0
	6.1400	0.0500	337.8	-1.3	-26.48	294	25.0
	6.1900	0.0500	336.5	-1.3	-29.15	296	25.0
	6.2400	0.0500	334.9	-1.6	-32.40	299	25.0
	6.2900	0.0500	333.1	-1.8	-36.51	301	25.0
	6.3400	0.0500	331.2	-1.9	-40.95	304	25.0
	6.3900	0.0500	328.8	-2.4	-38.49	306	25.0
	6.4400	0.0500	325.9	-2.9	0.22	309	25.0
	6.4900	0.0500	322.4	-3.5	-47.64	311	25.0
	6.5400	0.0500	317.6	-4.8	-236.48	314	25.0
	6.5900	0.0500	310.1	-7.5	-554.65	317	25.0
	6.6400	0.0500	291.1	-19.0	-770.55	321	25.0
EQP1	6.652479	NaN	248.2	NaN	-890.68	NaN	NaN
	6.6600	0.0200	222.3	-68.8	-881.75	331	25.0
	6.6800	0.0200	196.4	-25.9	-819.24	341	25.0
	6.7000	0.0200	186.0	-10.4	-615.32	351	25.0
	6.7380	0.0380	177.8	-8.2	-381.89	361	25.0
	6.7880	0.0500	171.7	-6.1	-113.20	371	25.0
	6.8380	0.0500	167.1	-4.6	NaN	381	25.0
	6.8880	0.0500	164.1	-3.0	NaN	388	25.0
	6.9380	0.0500	161.8	-2.3	NaN	395	25.0
	6.9880	0.0500	159.7	-2.1	NaN	401	25.0
	7.0380	0.0500	157.9	-1.8	NaN	406	25.0

E - V curve **EQP titration [1]**
Sample 5/6



Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

dE/dV - V curve **EQP titration [1]**
Sample 5/6



Raw data

Sample

No.	6/6
Standard	Potassium iodate
Type of standard	solid
Comment	
Titration stand	Rondolino TTL 1
Weight	m = 0.02561 g
Correction factor	f = 1.0
Purity	p = 100.00 %
Temperature	T = 25.0 oC
Sample start	8/13/2012 11:40:06 AM
Sample end	8/13/2012 11:50:26 AM

Dispense (normal) [1]

Titrant	0.1M HCl cDi = 0.1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 50 mL
Disp. amount	QENDDi = 5.00 mmol
Time	1:45 min

Dispense (normal) [2]

Titrant	SAT KI cDi = 1 mol/L TITERDi = 1.0
Disp. volume	VENDDi = 1.0 mL
Disp. amount	QENDDi = 1.00 mmol
Time	0:04 min

EQP titration [1]

Titrant	Na2S2O3 c = 0.1 mol/L TITER = 1.02622	
Sensor	DM140-SC	
Start potential		EST = 375.1 mV
No. of EQPs and cand.		nEQ = 1
Consumption	EQP1	VEQ1 = 7.154514 mL
		Q1 = 0.734211 mmol
		EEQ1 = 249.0 mV

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

EHNV1 = 364.7 mV

Excess
VEX = 0.384986 mL
QEX = 0.039508 mmol

End
VEND = 7.5395 mL
QEND = 0.773719 mmol

Termination at EQPs
Time t = 7:31 min

Calculation

Result R1 = 1.00366 Titer
Formula R1=m/(VEQ*c*C)
Constant M/(10*p*z)
C = 0.035665
Molar mass M[Potassium iodate] = 213.99 g/mol
Equivalent number z[Potassium iodate] = 6
Duration tUSE = 09:59 min

Measured values **EQP titration [1]**

Titrant Na2S2O3 c = 0.1 mol/L TITER = 1.02622
Sensor DM140-SC
Sample 6/6

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
0.0000	NaN	375.1	NaN	NaN	0	25.0
0.0200	0.0200	375.2	0.1	NaN	2	25.0
0.0400	0.0200	375.3	0.1	NaN	5	25.0
0.0900	0.0500	375.2	-0.1	NaN	7	25.0
0.1400	0.0500	375.1	-0.1	NaN	9	25.0
0.1900	0.0500	375.0	-0.1	-2.19	12	25.0
0.2400	0.0500	374.9	-0.1	-1.98	14	25.0
0.2900	0.0500	374.8	-0.1	-2.00	16	25.0
0.3400	0.0500	374.7	-0.1	-2.20	19	25.0
0.3900	0.0500	374.6	-0.1	-2.40	21	25.0
0.4400	0.0500	374.5	-0.1	-2.51	24	25.0
0.4900	0.0500	374.3	-0.2	-2.40	26	25.0
0.5400	0.0500	374.2	-0.1	-2.40	28	25.0
0.5900	0.0500	374.1	-0.1	-2.41	31	25.0
0.6400	0.0500	374.0	-0.1	-2.40	33	25.0
0.6900	0.0500	373.9	-0.1	-2.28	35	25.0
0.7400	0.0500	373.7	-0.2	-2.51	38	25.0
0.7900	0.0500	373.6	-0.1	-2.60	40	25.0
0.8400	0.0500	373.5	-0.1	-2.49	42	25.0
0.8900	0.0500	373.4	-0.1	-2.51	45	25.0
0.9400	0.0500	373.2	-0.2	-2.60	47	25.0
0.9900	0.0500	373.1	-0.1	-2.68	50	25.0
1.0400	0.0500	373.0	-0.1	-2.72	52	25.0
1.0900	0.0500	372.8	-0.2	-2.60	54	25.0
1.1400	0.0500	372.7	-0.1	-2.68	57	25.0
1.1900	0.0500	372.6	-0.1	-2.92	59	25.0
1.2400	0.0500	372.4	-0.2	-2.80	62	25.0
1.2900	0.0500	372.3	-0.1	-2.68	64	25.0
1.3400	0.0500	372.1	-0.2	-2.92	66	25.0
1.3900	0.0500	372.0	-0.1	-3.00	69	25.0
1.4400	0.0500	371.9	-0.1	-2.89	71	25.0
1.4900	0.0500	371.7	-0.2	-3.02	73	25.0
1.5400	0.0500	371.5	-0.2	-2.89	76	25.0
1.5900	0.0500	371.4	-0.1	-3.00	78	25.0
1.6400	0.0500	371.3	-0.1	-2.80	80	25.0
1.6900	0.0500	371.1	-0.2	-2.79	83	25.0
1.7400	0.0500	371.0	-0.1	-3.00	85	25.0
1.7900	0.0500	370.8	-0.2	-3.00	88	25.0
1.8400	0.0500	370.7	-0.1	-2.79	90	25.0
1.8900	0.0500	370.5	-0.2	-2.80	92	25.0
1.9400	0.0500	370.4	-0.1	-2.89	95	25.0
1.9900	0.0500	370.3	-0.1	-3.00	97	25.0
2.0400	0.0500	370.1	-0.2	-3.11	99	25.0
2.0900	0.0500	369.9	-0.2	-3.08	102	25.0
2.1400	0.0500	369.8	-0.1	-3.32	104	25.0

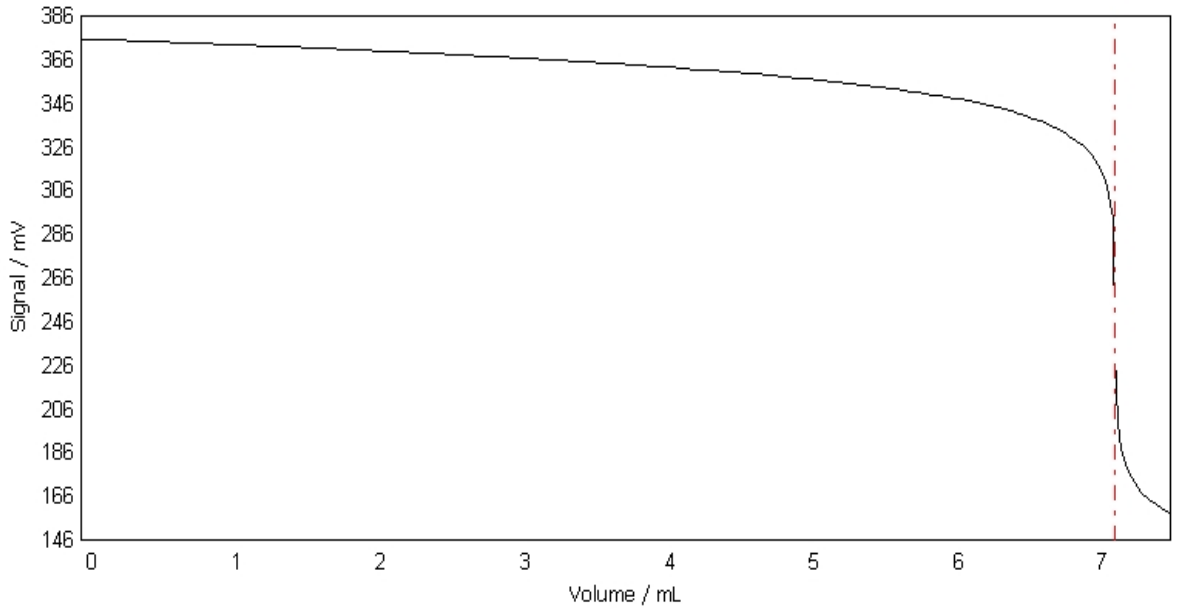
Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
2.1900	0.0500	369.6	-0.2	-3.20	106	25.0
2.2400	0.0500	369.5	-0.1	-3.19	109	25.0
2.2900	0.0500	369.3	-0.2	-3.21	111	25.0
2.3400	0.0500	369.1	-0.2	-3.19	114	25.0
2.3900	0.0500	369.0	-0.1	-3.20	116	25.0
2.4400	0.0500	368.8	-0.2	-3.20	118	25.0
2.4900	0.0500	368.7	-0.1	-3.08	121	25.0
2.5400	0.0500	368.5	-0.2	-3.32	123	25.0
2.5900	0.0500	368.3	-0.2	-3.40	126	25.0
2.6400	0.0500	368.2	-0.1	-3.17	128	25.0
2.6900	0.0500	368.0	-0.2	-3.43	130	25.0
2.7400	0.0500	367.8	-0.2	-3.49	133	25.0
2.7900	0.0500	367.7	-0.1	-3.80	135	25.0
2.8400	0.0500	367.5	-0.2	-3.83	137	25.0
2.8900	0.0500	367.2	-0.3	-3.59	140	25.0
2.9400	0.0500	367.1	-0.1	-3.49	142	25.0
2.9900	0.0500	366.9	-0.2	-3.41	144	25.0
3.0400	0.0500	366.8	-0.1	-3.28	147	25.0
3.0900	0.0500	366.6	-0.2	-3.49	149	25.0
3.1400	0.0500	366.4	-0.2	-3.91	152	25.0
3.1900	0.0500	366.2	-0.2	-4.00	154	25.0
3.2400	0.0500	366.0	-0.2	-4.12	156	25.0
3.2900	0.0500	365.8	-0.2	-4.00	159	25.0
3.3400	0.0500	365.6	-0.2	-4.00	161	25.0
3.3900	0.0500	365.4	-0.2	-4.00	163	25.0
3.4400	0.0500	365.2	-0.2	-4.00	166	25.0
3.4900	0.0500	365.0	-0.2	-4.00	168	25.0
3.5400	0.0500	364.8	-0.2	-4.00	170	25.0
3.5900	0.0500	364.6	-0.2	-4.00	173	25.0
3.6400	0.0500	364.4	-0.2	-3.88	175	25.0
3.6900	0.0500	364.2	-0.2	-4.00	178	25.0
3.7400	0.0500	364.0	-0.2	-4.20	180	25.0
3.7900	0.0500	363.8	-0.2	-4.28	182	25.0
3.8400	0.0500	363.6	-0.2	-4.51	185	25.0
3.8900	0.0500	363.3	-0.3	-4.60	187	25.0
3.9400	0.0500	363.1	-0.2	-4.80	190	25.0
3.9900	0.0500	362.9	-0.2	-4.81	192	25.0
4.0400	0.0500	362.6	-0.3	-4.91	194	25.0
4.0900	0.0500	362.4	-0.2	-4.89	197	25.0
4.1400	0.0500	362.1	-0.3	-5.12	199	25.0
4.1900	0.0500	361.9	-0.2	-5.00	201	25.0
4.2400	0.0500	361.6	-0.3	-4.88	204	25.0
4.2900	0.0500	361.4	-0.2	-5.11	206	25.0
4.3400	0.0500	361.1	-0.3	-5.09	208	25.0
4.3900	0.0500	360.9	-0.2	-5.19	211	25.0
4.4400	0.0500	360.6	-0.3	-5.32	213	25.0
4.4900	0.0500	360.3	-0.3	-5.28	216	25.0
4.5400	0.0500	360.1	-0.2	-5.40	218	25.0
4.5900	0.0500	359.8	-0.3	-5.41	220	25.0
4.6400	0.0500	359.5	-0.3	-5.47	223	25.0
4.6900	0.0500	359.3	-0.2	-5.81	225	25.0
4.7400	0.0500	358.9	-0.4	-6.12	227	25.0
4.7900	0.0500	358.7	-0.2	-6.20	230	25.0
4.8400	0.0500	358.3	-0.4	-6.32	232	25.0
4.8900	0.0500	358.0	-0.3	-6.19	234	25.0
4.9400	0.0500	357.7	-0.3	-5.97	237	25.0
4.9900	0.0500	357.4	-0.3	-6.32	239	25.0
5.0400	0.0500	357.1	-0.3	-6.37	242	25.0
5.0900	0.0500	356.8	-0.3	-6.80	244	25.0
5.1400	0.0500	356.4	-0.4	-7.23	246	25.0
5.1900	0.0500	356.0	-0.4	-7.40	249	25.0
5.2400	0.0500	355.7	-0.3	-7.28	251	25.0
5.2900	0.0500	355.3	-0.4	-7.43	254	25.0
5.3400	0.0500	354.9	-0.4	-7.37	256	25.0
5.3900	0.0500	354.6	-0.3	-7.68	258	25.0
5.4400	0.0500	354.2	-0.4	-7.92	261	25.0
5.4900	0.0500	353.7	-0.5	-8.08	263	25.0
5.5400	0.0500	353.4	-0.3	-8.60	265	25.0
5.5900	0.0500	352.9	-0.5	-8.81	268	25.0
5.6400	0.0500	352.5	-0.4	-8.99	270	25.0
5.6900	0.0500	352.0	-0.5	-9.41	272	25.0
5.7400	0.0500	351.5	-0.5	-9.80	275	25.0
5.7900	0.0500	351.1	-0.4	-9.77	277	25.0
5.8400	0.0500	350.5	-0.6	-10.43	280	25.0

Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

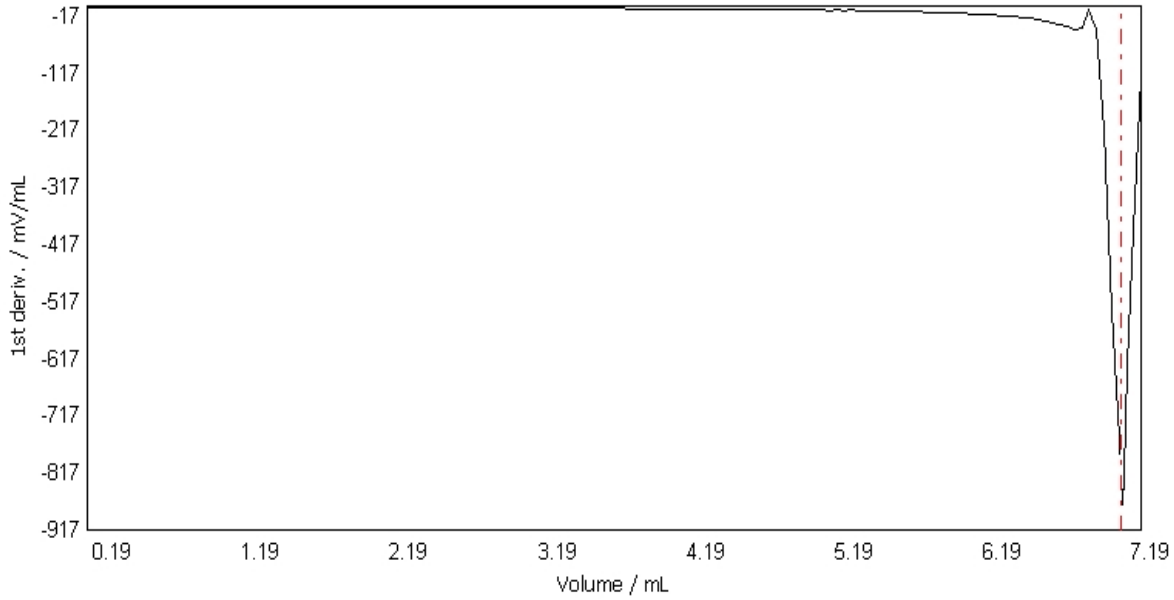
	Volume mL	Increment mL	Signal mV	Change mV	1st deriv. mV/mL	Time s	Temperature oC
	5.8900	0.0500	350.0	-0.5	-10.77	282	25.0
	5.9400	0.0500	349.5	-0.5	-11.28	284	25.0
	5.9900	0.0500	348.9	-0.6	-11.83	287	25.0
	6.0400	0.0500	348.2	-0.7	-12.17	289	25.0
	6.0900	0.0500	347.7	-0.5	-12.77	292	25.0
	6.1400	0.0500	347.0	-0.7	-13.64	294	25.0
	6.1900	0.0500	346.3	-0.7	-14.28	296	25.0
	6.2400	0.0500	345.6	-0.7	-14.96	299	25.0
	6.2900	0.0500	344.8	-0.8	-15.71	301	25.0
	6.3400	0.0500	343.9	-0.9	-16.37	303	25.0
	6.3900	0.0500	343.2	-0.7	-17.34	306	25.0
	6.4400	0.0500	342.3	-0.9	-18.57	308	25.0
	6.4900	0.0500	341.3	-1.0	-20.27	311	25.0
	6.5400	0.0500	340.2	-1.1	-22.02	313	25.0
	6.5900	0.0500	339.1	-1.1	-24.16	316	25.0
	6.6400	0.0500	337.8	-1.3	-25.79	318	25.0
	6.6900	0.0500	336.4	-1.4	-28.54	321	25.0
	6.7400	0.0500	335.0	-1.4	-31.98	323	25.0
	6.7900	0.0500	333.2	-1.8	-36.26	326	25.0
	6.8400	0.0500	331.3	-1.9	-40.61	328	25.0
	6.8900	0.0500	328.8	-2.5	-39.21	331	25.0
	6.9400	0.0500	326.1	-2.7	-6.38	333	25.0
	6.9900	0.0500	322.6	-3.5	-40.71	336	25.0
	7.0400	0.0500	318.0	-4.6	-216.68	338	25.0
	7.0900	0.0500	310.8	-7.2	-533.26	342	25.0
	7.1400	0.0500	293.3	-17.5	-756.06	346	25.0
EQP1	7.154514	NaN	249.0	NaN	-879.52	NaN	NaN
	7.1600	0.0200	232.3	-61.0	-873.52	356	25.0
	7.1800	0.0200	199.1	-33.2	-823.39	366	25.0
	7.2000	0.0200	187.5	-11.6	-629.63	376	25.0
	7.2395	0.0395	178.7	-8.8	-394.62	386	25.0
	7.2895	0.0500	172.4	-6.3	-120.17	396	25.0
	7.3395	0.0500	167.7	-4.7	NaN	406	25.0
	7.3895	0.0500	164.5	-3.2	NaN	414	25.0
	7.4395	0.0500	162.1	-2.4	NaN	421	25.0
	7.4895	0.0500	160.1	-2.0	NaN	427	25.0
	7.5395	0.0500	158.3	-1.8	NaN	432	25.0

E - V curve **EQP titration [1]**
Sample 6/6



Method: **Sodiumthiosulfate 0.1 M Na2S2O3** **8/13/2012 10:39:40 AM**
Start time: **8/13/2012 10:46:05 AM**

dE/dV - V curve **EQP titration [1]**
Sample 6/6



Raw data

Calculation

Result	R2 = 1.0018 -- Mean Titer
Formula	R2=Mean[R1]
Constant	1
	C = 1
Molar mass	M[None] = 1 g/mol
Equivalent number	z[None] = 1

Titer

Titrant	Na2S2O3 c = 0.1 mol/L
Titer	1.00182

(1) Modified
(2) Excluded
(3) Outside limits
(4) Resource expired
(5) srel above max srel
(6) srel above max srel for multiple determination
(7) Value outside limits, not saved in setup
(8) Sample data outside limits
(9) Standard evaluation used
(10) Result from buffer

Created: **Development Administrator (admin), 8/13/2012 10:57:58 AM**