

Sample name: M15 Experiment start time: 9/29/2017 2:33:30 AM Assay name: **UV-metric pKa** Analyst: **Dorothy Levorse** 

171-29002 Instrument ID: T311053 Assay ID: Filename: C:\Sirius\_T3\Mehtap\20170928\_exp09\_uv\_pKa\17I-29002\_M15\_UV-metric pKa.t3r

#### Results

Chi squared

2.59 pKa 1 pKa 2 5.31

**RMSD** 0.004 0.003 0.004

0.0359

**Predicted** 

PCA calculated number of pKas

Average ionic strength 0.158 M Average temperature 24.9°C

Analyte concentration range 28.4 μM to 25.8 μM

Number of pKas source

Wavelength clipping 230.0 nm to 450.0 nm

pH clipping 1.287 to 12.726

## Warnings and errors

Errors None Warnings None

#### Assay Settings

Setting Value Original Value Date/Time changed Imported from

Buffer in use Yes Buffer type

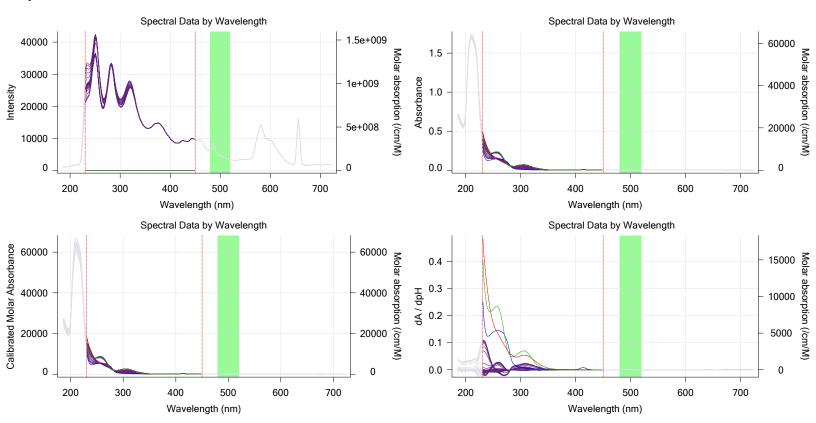
Phosphate Buffer

Assay Medium

Volume of buffer introduced 0.025000 mL

Add buffer manually Manual

#### Graphs

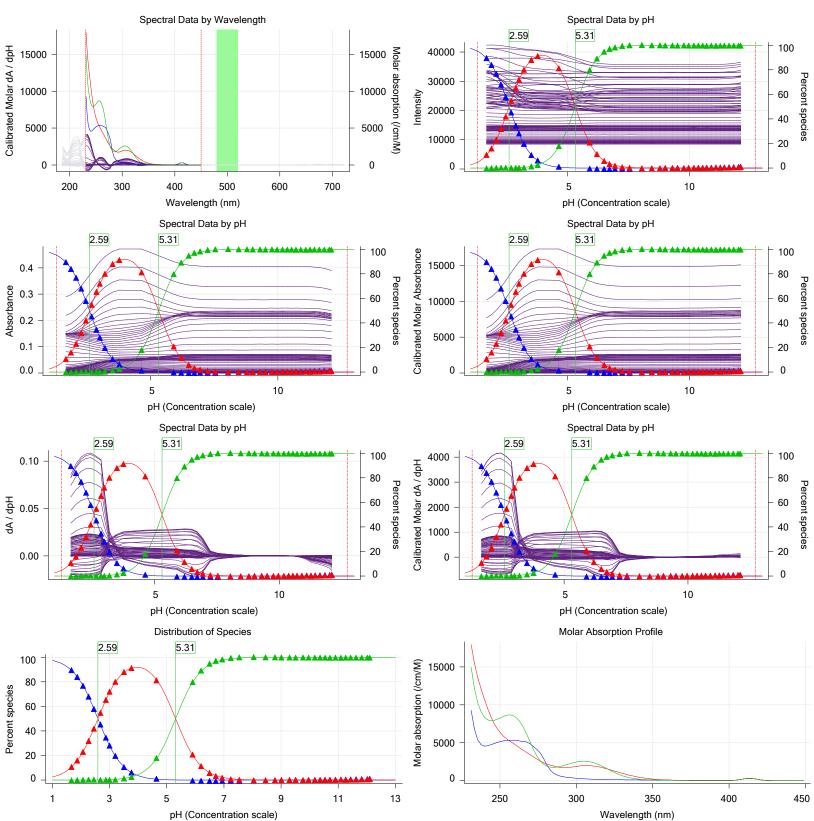




Sample name: M15 Experiment start time: 9/29/2017 2:33:30 AM
Assay name: UV-metric pKa Analyst: Dorothy Levorse

Assay ID: 17I-29002 Instrument ID: T311053
Filename: C:\Sirius\_T3\Mehtap\20170928\_exp09\_uv\_pKa\17I-29002\_M15\_UV-metric pKa.t3r

## **Graphs** (continued)



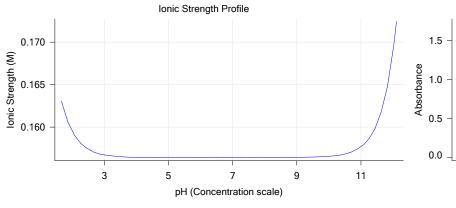


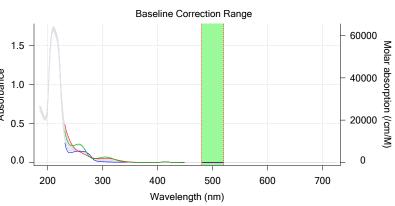
Experiment start time: 9/29/2017 2:33:30 AM Sample name: M15 Assay name: **UV-metric pKa** Analyst: **Dorothy Levorse** 

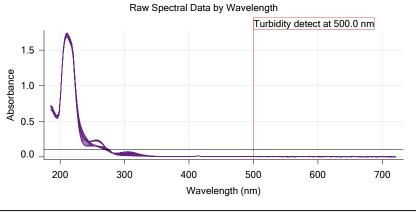
171-29002 Assay ID: Instrument ID: T311053

Filename: C:\Sirius\_T3\Mehtap\20170928\_exp09\_uv\_pKa\17I-29002\_M15\_UV-metric pKa.t3r

## Graphs (continued)







#### **Events**

ı									
Time	Event	Water	Acid	Base	Buffer	рН	dpH/dt	pH R-squared	pH SD
2:56.2	Dark spectrum								,
2:57.6	Reference spectrum								,
3:25.2	Volume reset due to vial change								ŗ
4:55.6	Initial pH = 7.68		<b>.</b>						
5:59.5	Data point 4			0.00000 mL		_			0.0005
6:28.3	Data point 5		0.07147 mL		0.02500 mL		0.0.00		0.0010
6:45.3	Data point 6		0.07147 mL		0.02500 mL			0.89696	0.0012
7:02.3	Data point 7		0.07147 mL					0.56932	0.0004
7:19.1	Data point 8		0.07147 mL					0.88063	0.0005
7:35.8	Data point 9		0.07147 mL		0.02500 mL			0.89325	0.0006
7:52.5	Data point 10	1.50000 mL	0.07147 mL		0.02500 mL			0.44614	0.0003
8:09.1	Data point 11	1.50000 mL	0.07147 mL	0.06750 mL	0.02500 mL	3.115	0.00639	0.76663	0.0003
8:41.1	Data point 12	1.50000 mL	0.07147 mL		0.02500 mL		0.00663	0.58715	0.0004
9:07.9	Data point 13	1.50000 mL	0.07147 mL	0.06990 mL	0.02500 mL	3.619	0.01383	0.84290	0.0007
9:24.5	Data point 14	1.50000 mL	0.07147 mL	0.07027 mL	0.02500 mL			0.89791	0.0011
9:46.1	Data point 15	1.50000 mL			0.02500 mL			0.93850	0.0049
10:13.4	Data point 16	1.50000 mL	0.07147 mL	0.07093 mL	0.02500 mL	6.031	-0.09512	0.97185	0.0047
10:43.2	Data point 17	1.50000 mL	0.07147 mL	0.07107 mL	0.02500 mL	6.327	-0.01049	0.27268	0.0009
11:04.7	Data point 18	1.50000 mL	0.07147 mL	0.07119 mL	0.02500 mL	6.624	0.00746	0.14457	0.0009
11:36.4	Data point 19	1.50000 mL	0.07147 mL	0.07131 mL	0.02500 mL	6.845	0.04145	0.82416	0.0022
12:08.3	Data point 20	1.50000 mL	0.07147 mL	0.07140 mL	0.02500 mL	7.070	0.05790	0.86891	0.0030
12:40.1	Data point 21	1.50000 mL	0.07147 mL	0.07150 mL	0.02500 mL	7.369	0.09284	0.84953	0.0049
13:07.3		1.50000 mL	0.07147 mL	0.07157 mL	0.02500 mL	7.670	0.08696	0.92472	0.0044
13:38.1	Data point 23	1.50000 mL	0.07147 mL	0.07164 mL	0.02500 mL	8.176	0.08938	0.85287	0.0047
14:05.8		1.50000 mL	0.07147 mL	0.07168 mL	0.02500 mL	8.591	0.09074	0.82715	0.0049
14:33.0	•	1.50000 mL	0.07147 mL	0.07173 mL	0.02500 mL	8.921	0.09025	0.90486	0.0046
4	•								,



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Instrument ID: Assay ID: 171-29002 T311053

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## Events (continued)

Event	Water	Acid	Base	Buffer	рН	dpH/dt	pH R-squared	pH SD	dpH/dt time
Data point 26	1.50000 mL	0.07147 mL	0.07178 mL	0.02500 mL	9.144	0.09101	0.85330	0.00486	11.0 s
Data point 27	1.50000 mL	0.07147 mL	0.07187 mL	0.02500 mL	9.436	0.03767	0.77675	0.00211	10.0 s
Data point 28	1.50000 mL	0.07147 mL	0.07197 mL	0.02500 mL	9.649	0.02300	0.63445	0.00142	10.0 s
Data point 29	1.50000 mL	0.07147 mL	0.07211 mL	0.02500 mL	9.904	-0.00365	0.19347	0.00041	10.0 s
Data point 30	1.50000 mL	0.07147 mL	0.07237 mL	0.02500 mL	10.103	-0.00539	0.38347	0.00043	10.0 s
Data point 31	1.50000 mL	0.07147 mL	0.07270 mL	0.02500 mL	10.322	-0.00602	0.47045	0.00043	10.0 s
Data point 32	1.50000 mL	0.07147 mL	0.07324 mL	0.02500 mL	10.508	-0.01359	0.82284	0.00074	10.0 s
Data point 33	1.50000 mL	0.07147 mL	0.07404 mL	0.02500 mL	10.682	-0.01593	0.90232	0.00083	10.0 s
Data point 34	1.50000 mL	0.07147 mL	0.07521 mL	0.02500 mL	10.848	-0.01320	0.91194	0.00068	10.0 s
Data point 35	1.50000 mL	0.07147 mL	0.07766 mL	0.02500 mL	11.042	-0.01688	0.92696	0.00087	10.0 s
Data point 36	1.50000 mL	0.07147 mL	0.08029 mL	0.02500 mL	11.233	-0.01537	0.91345	0.00079	10.0 s
Data point 37	1.50000 mL	0.07147 mL	0.08445 mL	0.02500 mL	11.405	-0.01171	0.86345	0.00062	10.0 s
Data point 38	1.50000 mL	0.07147 mL	0.09066 mL	0.02500 mL	11.573	-0.01031	0.88124	0.00054	10.0 s
Data point 39	1.50000 mL	0.07147 mL	0.10162 mL	0.02500 mL	11.763	-0.01094	0.83004	0.00059	10.0 s
Data point 40	1.50000 mL	0.07147 mL	0.11959 mL	0.02500 mL	11.957	-0.00977	0.83467	0.00053	10.0 s
Data point 41						-0.00638	0.73557	0.00037	10.0 s
Data point 42	1.50000 mL	0.07147 mL	0.16545 mL	0.02500 mL	12.226	-0.00566	0.58736	0.00036	10.0 s
Assay volumes	1.75000 mL	0.24447 mL	0.16545 mL	0.02500 mL					
	Data point 26 Data point 27 Data point 28 Data point 29 Data point 30 Data point 31 Data point 32 Data point 33 Data point 34 Data point 35 Data point 35 Data point 36 Data point 37 Data point 38 Data point 39 Data point 40 Data point 41 Data point 42	Data point 26	Data point 26       1.50000 mL       0.07147 mL         Data point 27       1.50000 mL       0.07147 mL         Data point 28       1.50000 mL       0.07147 mL         Data point 29       1.50000 mL       0.07147 mL         Data point 30       1.50000 mL       0.07147 mL         Data point 31       1.50000 mL       0.07147 mL         Data point 33       1.50000 mL       0.07147 mL         Data point 34       1.50000 mL       0.07147 mL         Data point 35       1.50000 mL       0.07147 mL         Data point 36       1.50000 mL       0.07147 mL         Data point 37       1.50000 mL       0.07147 mL         Data point 38       1.50000 mL       0.07147 mL         Data point 39       1.50000 mL       0.07147 mL         Data point 40       1.50000 mL       0.07147 mL         Data point 41       1.50000 mL       0.07147 mL         Data point 41       1.50000 mL       0.07147 mL         Data point 42       1.50000 mL       0.07147 mL	Data point 26         1.50000 mL         0.07147 mL         0.07178 mL           Data point 27         1.50000 mL         0.07147 mL         0.07187 mL           Data point 28         1.50000 mL         0.07147 mL         0.07197 mL           Data point 29         1.50000 mL         0.07147 mL         0.07211 mL           Data point 30         1.50000 mL         0.07147 mL         0.07237 mL           Data point 31         1.50000 mL         0.07147 mL         0.07270 mL           Data point 32         1.50000 mL         0.07147 mL         0.07324 mL           Data point 33         1.50000 mL         0.07147 mL         0.07404 mL           Data point 34         1.50000 mL         0.07147 mL         0.07521 mL           Data point 35         1.50000 mL         0.07147 mL         0.08029 mL           Data point 36         1.50000 mL         0.07147 mL         0.08445 mL           Data point 37         1.50000 mL         0.07147 mL         0.09066 mL           Data point 38         1.50000 mL         0.07147 mL         0.10162 mL           Data point 40         1.50000 mL         0.07147 mL         0.11959 mL           Data point 41         1.50000 mL         0.07147 mL         0.14821 mL           Data point 42	Data point 26         1.50000 mL         0.07147 mL         0.07178 mL         0.02500 mL           Data point 27         1.50000 mL         0.07147 mL         0.07187 mL         0.02500 mL           Data point 28         1.50000 mL         0.07147 mL         0.07197 mL         0.02500 mL           Data point 39         1.50000 mL         0.07147 mL         0.07231 mL         0.02500 mL           Data point 31         1.50000 mL         0.07147 mL         0.07270 mL         0.02500 mL           Data point 32         1.50000 mL         0.07147 mL         0.07270 mL         0.02500 mL           Data point 33         1.50000 mL         0.07147 mL         0.07404 mL         0.02500 mL           Data point 34         1.50000 mL         0.07147 mL         0.07404 mL         0.02500 mL           Data point 35         1.50000 mL         0.07147 mL         0.07521 mL         0.02500 mL           Data point 36         1.50000 mL         0.07147 mL         0.08029 mL         0.02500 mL           Data point 37         1.50000 mL         0.07147 mL         0.08445 mL         0.02500 mL           Data point 39         1.50000 mL         0.07147 mL         0.09066 mL         0.02500 mL           Data point 40         1.50000 mL         0.07147 mL	Data point 26         1.50000 mL         0.07147 mL         0.07178 mL         0.02500 mL         9.144           Data point 27         1.50000 mL         0.07147 mL         0.07187 mL         0.02500 mL         9.436           Data point 28         1.50000 mL         0.07147 mL         0.07197 mL         0.02500 mL         9.649           Data point 30         1.50000 mL         0.07147 mL         0.07237 mL         0.02500 mL         10.103           Data point 31         1.50000 mL         0.07147 mL         0.07270 mL         0.02500 mL         10.322           Data point 32         1.50000 mL         0.07147 mL         0.07324 mL         0.02500 mL         10.508           Data point 33         1.50000 mL         0.07147 mL         0.07404 mL         0.02500 mL         10.682           Data point 34         1.50000 mL         0.07147 mL         0.07521 mL         0.02500 mL         10.848           Data point 35         1.50000 mL         0.07147 mL         0.08029 mL         0.02500 mL         11.042           Data point 36         1.50000 mL         0.07147 mL         0.08029 mL         0.02500 mL         11.233           Data point 37         1.50000 mL         0.07147 mL         0.08445 mL         0.02500 mL         11.573	Data point 26         1.50000 mL         0.07147 mL         0.07178 mL         0.02500 mL         9.144         0.09101           Data point 27         1.50000 mL         0.07147 mL         0.07187 mL         0.02500 mL         9.436         0.03767           Data point 28         1.50000 mL         0.07147 mL         0.07197 mL         0.02500 mL         9.649         0.02300           Data point 30         1.50000 mL         0.07147 mL         0.07211 mL         0.02500 mL         10.103         -0.00539           Data point 31         1.50000 mL         0.07147 mL         0.07270 mL         0.02500 mL         10.322         -0.00602           Data point 32         1.50000 mL         0.07147 mL         0.07270 mL         0.02500 mL         10.508         -0.01359           Data point 33         1.50000 mL         0.07147 mL         0.07404 mL         0.02500 mL         10.682         -0.01593           Data point 34         1.50000 mL         0.07147 mL         0.07521 mL         0.02500 mL         10.848         -0.01593           Data point 35         1.50000 mL         0.07147 mL         0.0766 mL         0.02500 mL         11.042         -0.01688           Data point 37         1.50000 mL         0.07147 mL         0.08029 mL         0.02500	Data point 26         1.50000 mL         0.07147 mL         0.07178 mL         0.02500 mL         9.144         0.09101         0.85330           Data point 27         1.50000 mL         0.07147 mL         0.07187 mL         0.02500 mL         9.436         0.03767         0.77675           Data point 28         1.50000 mL         0.07147 mL         0.02500 mL         9.649         0.02300         0.63445           Data point 30         1.50000 mL         0.07147 mL         0.07237 mL         0.02500 mL         10.103         -0.00539         0.38347           Data point 31         1.50000 mL         0.07147 mL         0.07270 mL         0.02500 mL         10.322         -0.00602         0.47045           Data point 32         1.50000 mL         0.07147 mL         0.07324 mL         0.02500 mL         10.508         -0.01359         0.82284           Data point 33         1.50000 mL         0.07147 mL         0.07404 mL         0.02500 mL         10.682         -0.01593         0.90232           Data point 34         1.50000 mL         0.07147 mL         0.0766 mL         0.02500 mL         11.042         -0.01688         0.92696           Data point 36         1.50000 mL         0.07147 mL         0.08029 mL         0.02500 mL         11.405	Data point 26         1.50000 mL         0.07147 mL         0.07178 mL         0.02500 mL         9.144         0.09101         0.85330         0.00486           Data point 27         1.50000 mL         0.07147 mL         0.07187 mL         0.02500 mL         9.436         0.03767         0.77675         0.00211           Data point 28         1.50000 mL         0.07147 mL         0.07197 mL         0.02500 mL         9.649         0.02300         0.63445         0.00142           Data point 39         1.50000 mL         0.07147 mL         0.07211 mL         0.02500 mL         10.103         -0.00365         0.19347         0.00041           Data point 30         1.50000 mL         0.07147 mL         0.07227 mL         0.02500 mL         10.103         -0.00539         0.38347         0.00043           Data point 31         1.50000 mL         0.07147 mL         0.07270 mL         0.02500 mL         10.322         -0.00602         0.47045         0.00043           Data point 32         1.50000 mL         0.07147 mL         0.07324 mL         0.02500 mL         10.508         -0.01359         0.82284         0.00074           Data point 33         1.50000 mL         0.07147 mL         0.07404 mL         0.02500 mL         10.682         -0.01593         0.

#### Assay Settings

Setting	Value	<b>Original Value</b>	Date/Time changed	Imported from

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**Dorothy Levorse** Analyst name Yes

Separate reference vial Standard Experiment Settings

Number of titrations

Minimum pH 1.800 Maximum pH 12.200 pH step between points of 0.200 Minimum titrant addition 0.00002 mL Maximum titrant addition 0.10000 mL Argon flow rate 100%

Start titration using Cautious pH adjust

Advanced General Settings

Detect turbidity using Spectrometer Monitor at a wavelength of 500.0 nm Absorbance threshold of 0.100 Collect turbidity sensor data No Stir after titrant addition for 5 seconds For titrant addition, stir at 15%

Titrant Pre-Dose

Titrant pre-dose None

Assay Medium

Cosolvent in use No ISA water volume 1.50 mL Water added Automatic After water addition, stir for 5 seconds At a speed of 15% Buffer in use Yes

Buffer type Phosphate Buffer Volume of buffer introduced 0.025000 mL

Manual

5 seconds

Add buffer manually After medium addition, stir for

Sample Sonication

Sonicate No

Sample Dissolution

Perform a dissolution stage No

Report by: Dorothy Levorse 9/29/2017 12:25:06 PM



Sample name: M15 Experiment start time: 9/29/2017 2:33:30 AM Assay name: **UV-metric pKa** Analyst: **Dorothy Levorse** 

Assay ID: 171-29002 Instrument ID: T311053

Filename: C:\Sirius\_T3\Mehtap\20170928\_exp09\_uv\_pKa\17I-29002\_M15\_UV-metric pKa.t3r

### Assay Settings (continued)

Value	Original Value	Date/Time changed	Imported from
	<b>3</b>		
No			
Yes			
25.0°C			
0.5°C			
60 seconds			
15%			
Low to high pH			
Yes			
10 seconds			
Yes			
15%			
0 seconds			
20 points			
0.50 seconds			
n 0.00500 dpH/dt			
60 seconds			
To start pH			
60 seconds			
20%			
0.25 mL			
	Yes 25.0°C 0.5°C 60 seconds 15%  Low to high pH Yes 10 seconds  Yes 15% 0 seconds 20 points 0.50 seconds n 0.00500 dpH/dt 60 seconds  To start pH 60 seconds 20%	No Yes 25.0°C 0.5°C 60 seconds 15%  Low to high pH Yes 10 seconds  Yes 15% 0 seconds 20 points 0.50 seconds n 0.00500 dpH/dt 60 seconds  To start pH 60 seconds 20%	No  Yes 25.0°C 0.5°C 60 seconds 15%  Low to high pH Yes 10 seconds  Yes 15% 0 seconds 20 points 0.50 seconds n 0.00500 dpH/dt 60 seconds  To start pH 60 seconds 20%

## **Calibration Settings**

And then stir for

Setting	Value	Date/Time changed	Imported from
Four-Plus alpha	0.105	9/29/2017 2:33:29 AM	C:\Sirius_T3\17I-27006_Blank standardisation.t3r
Four-Plus S	1.0031	9/29/2017 2:33:29 AM	C:\Sirius_T3\17I-27006_Blank standardisation.t3r
Four-Plus jH	0.7	9/29/2017 2:33:29 AM	C:\Sirius_T3\17I-27006_Blank standardisation.t3r
Four-Plus jOH	-0.9	9/29/2017 2:33:29 AM	C:\Sirius_T3\17I-27006_Blank standardisation.t3r
Base concentration factor	1.011	9/29/2017 2:33:30 AM	C:\Sirius_T3\KOH17I22.t3r
Acid concentration factor	1.007	9/29/2017 2:33:29 AM	C:\Sirius_T3\17I-27006_Blank standardisation.t3r

Install date

30 seconds

Batch Id

#### Instrument Settings

Setting

Instrument owner	Merck		
Instrument ID	T311053		
Instrument type	T3 Simulator		
Software version	1.1.3.0		
Dispenser module		T3DM1100253	3/31/2009 6:24:52 AM
Dispenser 0	Water		3/31/2009 6:25:05 AM
Syringe volume	2.5 mL		
Firmware version	1.2.1(r2)		
Titrant	Water (0.15 M KCI)	8-18-17	9/26/2017 9:05:04 AM
Dispenser 2	Acid		3/31/2009 6:25:11 AM
Syringe volume	0.5 mL		
Firmware version	1.2.1(r2)		
Titrant	Acid (0.5 M HCI)	166940	9/8/2017 9:21:27 AM
Dispenser 1	Base		3/31/2009 6:25:21 AM
Syringe volume	0.5 mL		
Firmware version	1.2.1(r2)		
Titrant	Base (0.5 M KOH)	9-22-17	9/22/2017 4:02:42 PM
Dispenser 5	Cosolvent		3/31/2009 6:26:24 AM

Value



Sample name: M15 Experiment start time: 9/29/2017 2:33:30 AM

Assay name: UV-metric pKa Analyst: Dorothy Levorse

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Filename: C:\Sirius\_T3\Mehtap\20170928\_exp09\_uv\_pKa\17I-29002\_M15\_UV-metric pKa.t3r

## Instrument Settings (continued)

Setting Syringe volume	Value 2.5 mL	Batch Id	Install date
Firmware version Distribution valve 5	1.2.1(r2) Distribution Valve		3/31/2009 6:28:19 AM
Firmware version Port A Port B Dispenser 3 Syringe volume	1.1.3 Methanol (80%, 0.15 M KCI) Cyclohexane Buffer 0.5 mL	8-15-17	9/20/2017 4:38:16 PM 9/19/2017 2:15:02 PM 8/3/2010 6:05:16 AM
Firmware version Titrant Dispenser 6 Syringe volume	1.2.1(r2) Phosphate Buffer Octanol 0.5 mL		9/12/2017 12:32:29 PM 10/22/2010 11:52:43 AM
Firmware version Titrant Titrator	1.2.1(r2) Octanol	9-14-17 T3TM1100153	9/14/2017 10:30:38 AM 3/31/2009 6:24:17 AM
Horizontal axis firmware version Vertical axis firmware version Chassis I/O firmware version Probe I/O firmware version	1.17 Al1Dl2DO2 Stepper 2 1.17 Al1Dl2DO2 Stepper 2 1.11 Al1Dl0DO4 Norgren I/O 1.1.1	131W1100133	3/31/2009 0.24.17 AW
Electrode	T3 Electrode	T3E0769	8/15/2017 10:21:54 AM
E0 calibration Filling solution	-8.13 mV 3M KCI	KCL095	9/29/2017 2:33:53 AM 9/28/2017 1:58:38 PM
Liquids Wash 1 Wash 2 Buffer position 1 Buffer position 2	50% IPA:50% Water 0.5% Trition X-100 in H20 pH7 Wash pH 7		9/28/2017 1:57:12 PM 9/28/2017 1:57:15 PM 9/28/2017 1:57:18 PM 9/28/2017 1:57:25 PM
Storage position Wash water Waste	8.6e+003 mL 1.5e+003 mL	9-27-17	9/28/2017 1:57:49 PM 9/27/2017 4:24:06 PM 9/27/2017 4:24:14 PM
Temperature controller Turbidity detector Spectrometer		072390	8/5/2010 7:35:13 AM 3/31/2009 6:24:45 AM 11/23/2010 12:22:28 PM
Dip probe Wavelength coefficient A0 Wavelength coefficient A1 Wavelength coefficient A2	185.563 2.17439 -0.000285622	11086	
Total lamp lit time Calibrated on Integration time	269:59:45 9/26/2017 9:22:07 AM 11		11/23/2010 12:22:28 PM
Scans averaged Autoloader Left-right axis firmware version	10 1.17 Al1Dl2DO2 Stepper 2	T3AL1100237	11/10/2015 10:34:13 AM
Front-back axis firmware version Vertical axis firmware version Chassis I/O firmware version	1.17 Al1Dl2DO2 Stepper 2 1.17 Al1Dl2DO2 Stepper 2 1.11 Al1Dl0DO4 Norgren I/O		
Configuration Alternate titration position Alternate reference position Maximum standard vial volume Maximum alternate vial volume Automatic action idle period Titrant tube volume Syringe flush count Flowing wash pump volume Flowing wash stir duration	Titration position Reference position 3.50 mL 25.00 mL 5 minute(s) 1.3 mL 3.50 20.0 mL 5 s		

Flowing wash stir speed Solvent wash stir duration

30%

5 s



Sample name: M15 Experiment start time: 9/29/2017 2:33:30 AM
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Filename: C:\Sirius\_T3\Mehtap\20170928\_exp09\_uv\_pKa\17I-29002\_M15\_UV-metric pKa.t3r

# Instrument Settings (continued)

Setting	Value	Batch Id	d Install date
Solvent wash stir speed	30%		
Surfactant wash stir duration	5 s		
Surfactant wash stir speed	30%		
E0 calibration minimum number of points	10		
E0 calibration maximum standard deviation	0.01500		
E0 calibration timeout period	60 s		
E0 calibration stir duration	5 s		
E0 calibration preparation stir speed	30%		
E0 calibration buffer wash stir duration	5 s		
E0 calibration buffer wash stir speed	30%		
E0 calibration reading stir speed	0%		
Spectrometer calibration stir duration	5 s		
Spectrometer calibration stir speed	30%		
Spectrometer calibration wash pump volume	20.0 mL		
Spectrometer calibration wash stir duration	5 s		
Spectrometer calibration wash stir speed	30%		
Overhead dispense height	10000		
D.C ( O. (C			

# Refinement Settings

Setting	Value	Default value
Turbidity detection method	Spectrometer	Spectrometer
Turbidity wavelength to assess	500.0 nm	500.0 nm
Turbidity maximum absorbance	0.100	0.100
Turbidity probe threshold	50.00	50.00
Exclude turbid points	Yes	Yes
Low intensity warning threshold	100	100
Minimum absorbance change threshold	0.100	0.100
Eigenvector autocorrelation threshold	0.80	0.80
Maximum RMSD severe warning	0.250	0.250
Maximum RMSD warning	0.050	0.050