

Assay ID: 17K-09021 Instrument ID: T311053 Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Yasuda-Shedlovsky result

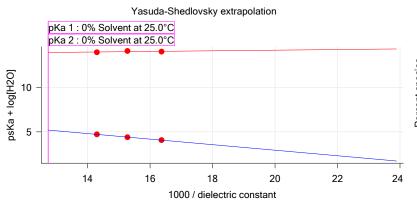
Extrapolation type pKa 0% SD Intercept Slope R² Ionic strength Temperature

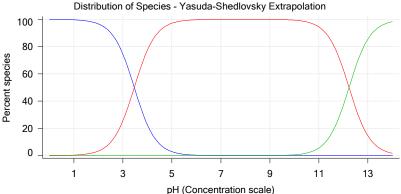
Yasuda-Shedlovsky 3.46 ±0.03 9.21 -314.3541 0.9991 0.163 M 25.0°C Yasuda-Shedlovsky 12.23 ±0.16 13.54 34.5706 0.2587 0.163 M 25.0°C

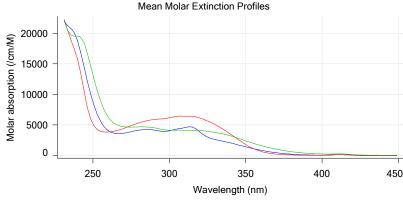
Component assay results

Titration	Methanol	Direction	Result	Dielectric	[H2O]	Ionic	Temperature		psKa	psKa
	weight%		type	constant		strength			1	2
17K-09021 Points 4 to 40	39.81 %	Up	UV-metric pKa	61.1	30.1 M	0.156 M	24.9°C	<u></u>	2.59 🔽	12.59
17K-09021 Points 42 to 82	30.15 %	Up	UV-metric pKa	65.4	35.8 M	0.164 M	25.0°C	<u></u>	2.84 🔽	12.58
17K-09021 Points 84 to 116	20.08 %	Up	UV-metric pKa	69.9	42.0 M	0.169 M	24.9°C	<u></u>	3.10 🔽	12.37

Graphs







UV-metric psKa Titration 1 of 3 17K-09021 Points 4 to 40

Results

pKa 1 **2.59** pKa 2 **12.59**

RMSD 0.005 0.002 0.003

Chi squared 0.0883

PCA calculated number of pKas 2

Average ionic strength 0.156 M
Average temperature 24.9°C

Analyte concentration range 94.3 µM to 89.1 µN

Methanol weight % 39.8 % Dielectric constant 61.1 Water concentration 30.1 M

94.3 μM to 89.1 μM 39.8 %

Report by: Dorothy Levorse 11/10/2017 2:18:52 PM



Assay ID: 17K-09021 Instrument ID: T311053 Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Results (continued)

Number of pKas source Predicted

Wavelength clipping 230.0 nm to 450.0 nm pH clipping 1.469 to 12.528

Warnings and errors

Errors None

Warnings Calculated pKa outside clip range

Assay Settings

Setting Value Original Value Date/Time changed Imported from

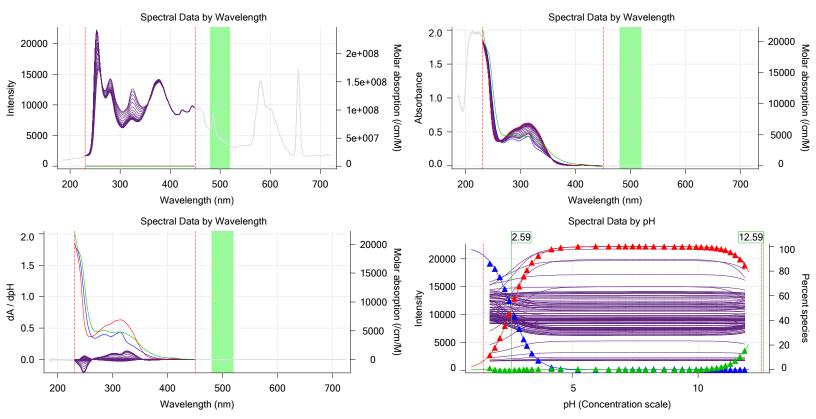
Buffer in use Ye Buffer type Pl

Phosphate Buffer

Assay Medium

Volume of buffer introduced 0.025000 mL Add buffer manually Manual

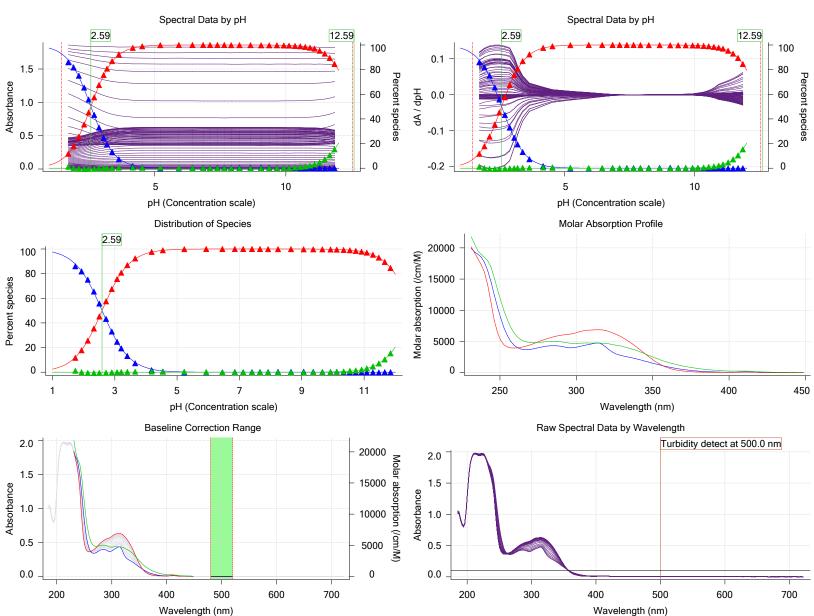
Graphs





Assay ID: 17K-09021 Instrument ID: T311053 Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Graphs (continued)



Titration 2 of 3 17K-09021 Points 42 to 82 UV-metric psKa

Results

pKa 1 2.84 pKa 2 12.58 RMSD 0.003 0.002 0.002 Chi squared 0.0635 PCA calculated number of pKas 2

Average ionic strength

0.164 M Average temperature 25.0°C Analyte concentration range

72.8 µM to 68.9 µM

Methanol weight % 30.2 % Dielectric constant 65.4 Water concentration 35.8 M



Assay ID: 17K-09021 Instrument ID: T311053 Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Results (continued)

Number of pKas source Predicted

Wavelength clipping 230.0 nm to 450.0 nm pH clipping 1.487 to 12.543

Warnings and errors

Errors None

Warnings Calculated pKa outside clip range

Assay Settings

Setting Value Original Value Date/Time changed Imported from

Buffer in use Yes

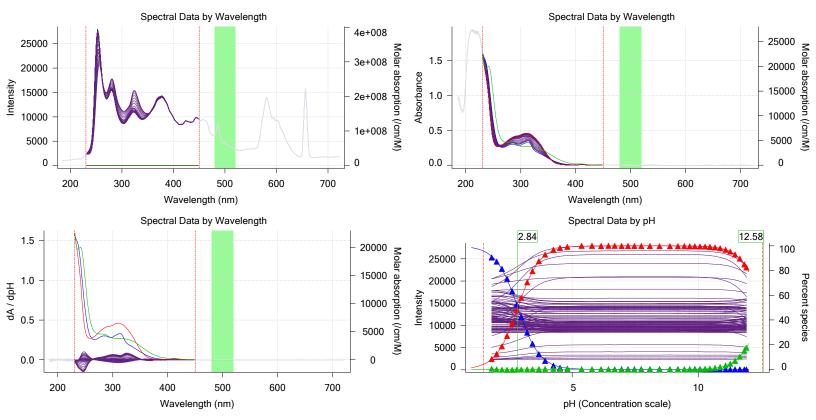
Phosphate Buffer

Assay Medium

Volume of buffer introduced 0.025000 mL Add buffer manually Manual

Graphs

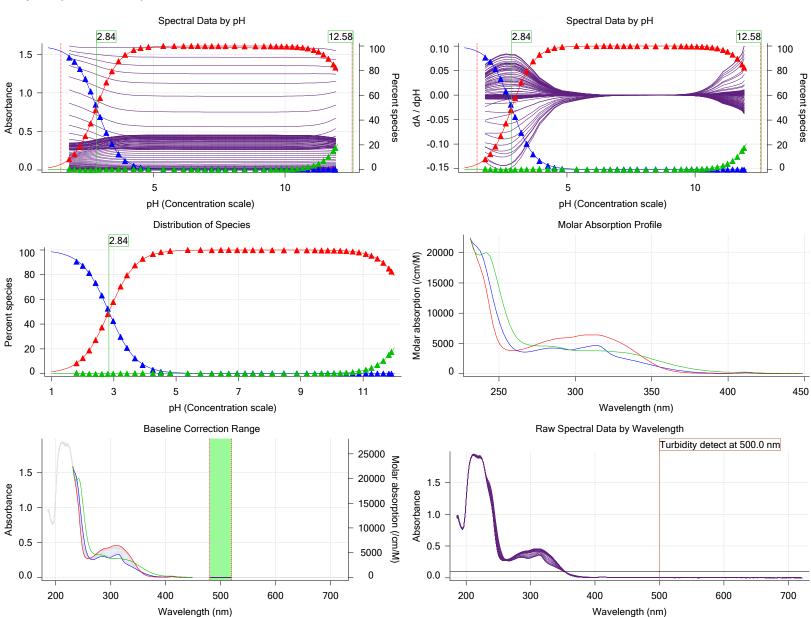
Buffer type





Assay ID: 17K-09021 Instrument ID: T311053 Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Graphs (continued)



UV-metric psKa Titration 3 of 3 17K-09021 Points 84 to 116

Results

pKa 1 3.10
pKa 2 12.37
RMSD 0.001 0.002 0.001
Chi squared 0.0102
PCA calculated number of pKas
Average ionic strength 0.169 M
Average temperature 24.9°C

Average temperature 24.9°C
Analyte concentration range 49.5 µM to 47.1 µM

Methanol weight % 20.1 % Dielectric constant 69.9 Water concentration 42.0 M



Assay ID: 17K-09021 Instrument ID: T311053 Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Results (continued)

Number of pKas source Predicted

Wavelength clipping pH clipping

230.0 nm to 450.0 nm

1.499 to 12.514

Warnings and errors

Errors None Warnings None

Assay Settings

Setting

Value Yes

Original Value Date/Time changed Imported from

Buffer in use Buffer type

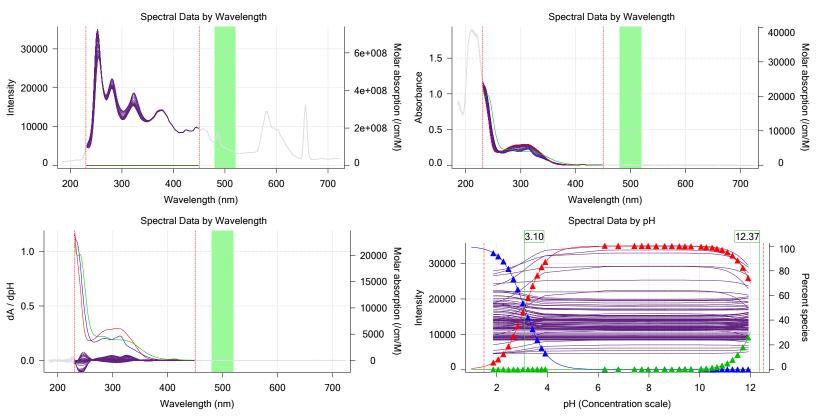
Phosphate Buffer

Assay Medium

Volume of buffer introduced 0.025000 mL Add buffer manually

Manual

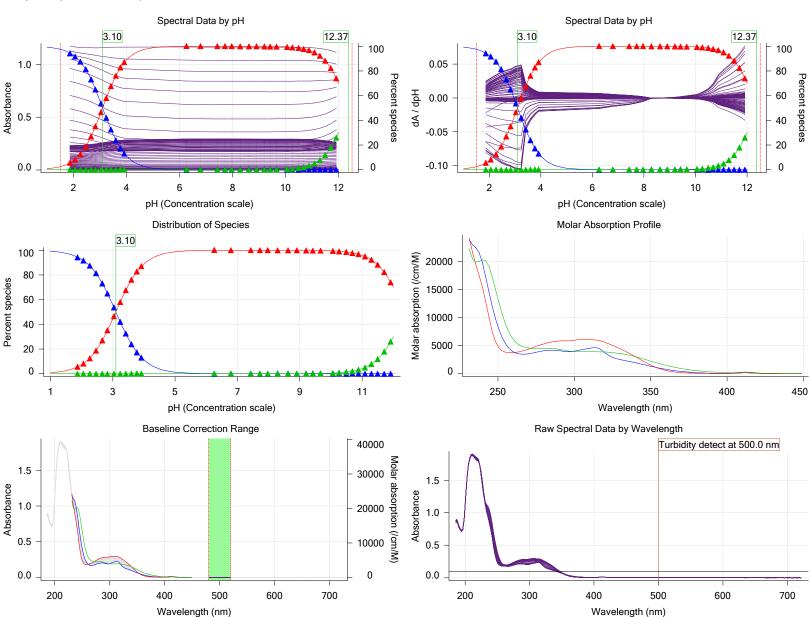
Graphs





Assay ID: 17K-09021 Instrument ID: T311053
Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Graphs (continued)



Assav Model

Assay Model			
Settings	Value	Date/Time changed	Imported from
Sample name	M06	11/9/2017 5:26:58 PM	User entered value
Sample by	Volume		Default value
Sample volume	0.0030 mL	11/9/2017 5:26:58 PM	User entered value
Solvent	DMSO		Default value
Sample concentration	0.034400 M	11/10/2017 2:18:04 PM	User entered value
Solubility	Unknown		Default value
Molecular weight	328.16	11/9/2017 5:27:07 PM	User entered value
Individual pKa ionic environments	No		Default value
Number of pKas	2	11/9/2017 5:26:58 PM	User entered value
Sample is a	Ampholyte	11/9/2017 5:26:58 PM	User entered value
pKa 1	3.03	11/9/2017 5:26:58 PM	User entered value
Туре	Base	11/9/2017 5:26:58 PM	User entered value
pKa 2	11.74	11/9/2017 5:26:58 PM	User entered value
Туре	Acid	11/9/2017 5:26:58 PM	User entered value



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Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Assay Model (continued)

Settings	Value	Date/Time changed	Imported from
logp (XH2 +)	-10.00	•	Default value
logP (neutral XH)	-10.00	11/9/2017 5:26:58 PM	User entered value
I==D /\/ \	40.00		Dafaultualua

logP (X -) -10.00

Default value

.og. (/ t	, 18.88	•	Dorault Value						
Events	3								
Time	Event	Water	Acid	Base	Methanol	Buffer	рН	dpH/dt	pH R-squar
3:27.0	Dark spectrum								ix-squai
3:28.5	Reference spectrum								
3:56.2	Volume reset due to vial change								
4:40.3	Initial pH = 8.17								
5:49.0	Data point 4	0.55997 mL	0.06216 mL	0.00000 mL	0.94003 mL	0.02500 mL	1.969	-0.01701	0.78851
6:17.5	Data point 5	0.55997 mL	0.06216 mL	0.02246 mL	0.94003 mL	0.02500 mL	2.167	0.00062	0.00118
6:34.3	Data point 6	0.55997 mL	0.06216 mL	0.03608 mL	0.94003 mL	0.02500 mL	2.361	0.03094	0.81226
6:51.0	Data point 7	0.55997 mL	0.06216 mL	0.04480 mL	0.94003 mL	0.02500 mL	2.560	0.01172	0.73440
7:07.6	Data point 8	0.55997 mL	0.06216 mL	0.05040 mL	0.94003 mL	0.02500 mL	2.733	0.01305	0.89789
7:24.3	Data point 9		0.06216 mL					0.01039	0.71592
7:40.8	Data point 10	0.55997 mL	0.06216 mL	0.05651 mL	0.94003 mL	0.02500 mL	3.127	0.01528	0.93344
7:57.5	Data point 11		0.06216 mL					0.01381	0.95142
8:14.0	Data point 12		0.06216 mL					0.01844	0.92319
8:40.8	Data point 13		0.06216 mL					0.01995	0.94685
8:57.3	Data point 14		0.06216 mL					0.04973	0.96872
9:18.9	Data point 15		0.06216 mL					0.09991	0.97879
9:53.7	Data point 16		0.06216 mL					0.09911	0.98584
10:39.5			0.06216 mL					0.11523	0.97215
11:56.1	Data point 18		0.06216 mL					0.09876	0.98759
12:54.7			0.06216 mL					0.09923	0.98360
	Data point 20		0.06216 mL					0.09921	0.98105
	Data point 21		0.06216 mL					0.09783	0.97970
	Data point 22		0.06216 mL					0.09670	0.97853
16:02.9			0.06216 mL					0.09575	0.95989
	Data point 24		0.06216 mL					0.09856	0.96051
	Data point 25		0.06216 mL					0.09853	0.97965
	Data point 26		0.06216 mL					0.09723	0.96642
	Data point 27		0.06216 mL					0.09800	0.98156
19:47.5			0.06216 mL					0.09685	0.96098
20:19.7			0.06216 mL					0.09864	0.95599
20:45.9			0.06216 mL					0.08872	0.96256
21:12.5			0.06216 mL						0.94318
21:29.0			0.06216 mL						0.90384
21:45.6			0.06216 mL						0.90289
	Data point 34		0.06216 mL						0.72741
	Data point 35		0.06216 mL						0.72087
	Data point 36		0.06216 mL						
	Data point 37		0.06216 mL						
	Data point 38		0.06216 mL						
	Data point 39		0.06216 mL						
	Data point 40		0.06216 mL						0.51486
	Reference spectrum	0.00991 IIIL	0.002 10 IIIL	0.03233 IIIL	U.STUUS IIIL	0.02300 IIIL	12.020	0.00411	0.01400
	Data point 42	0 83996 ml	0.16000 mL	0 00200 ml	0 94003 ml	0 02500 ml	1 027	-0 08045	0.94159
	Data point 43		0.16000 mL					0.00690	
			0.16000 mL					0.00863	
	Data point 44 Data point 45		0.16000 mL						0.63503 0.03819
	Data point 46		0.16000 mL					-0.00739	
	Data point 47		0.16000 mL						0.03087

0.83996 mL 0.16000 mL 0.15459 mL 0.94003 mL 0.02500 mL 3.151

0.83996 mL 0.16000 mL 0.15626 mL 0.94003 mL 0.02500 mL 3.386

28:33.3 Data point 48

28:49.8 Data point 49

0.01020 0.75473

0.01029 0.79354



Assay ID. 17K_09021 Instrument ID: T311053

Assay ID Filename		Mehtap\2017 [.]	1109_exp16_		istrument ID: 21_M06_UV- r	T3110 metric psKa.t				
Events	(continued)									
Time	Event	Water	Acid	Base	Methanol	Buffer	рН	dpH/dt	pH R-squared	pH SD
29:21.5			0.16000 mL					0.03045	0.97930	0.0
29:38.1	Data point 51		0.16000 mL					0.03131	0.96163	0.0
29:59.7			0.16000 mL					0.05734	0.98223	0.0
30:21.4	Data point 53	0.83996 mL	0.16000 mL	0.15863 mL	0.94003 mL	0.02500 mL	4.423	0.08999	0.98916	0.0
	Data point 54	0.83996 mL	0.16000 mL	0.15880 mL	0.94003 mL	0.02500 mL	4.680	0.10015	0.97978	0.0
	Data point 55		0.16000 mL					0.09620	0.95852	0.0
32:06.2			0.16000 mL					0.09880	0.98475	0.0
32:58.5	Data point 57		0.16000 mL					0.07794	0.68858	0.0
			0.16000 mL					0.09725	0.98103	0.0
	Data point 59		0.16000 mL					0.09986	0.97315	0.0
	Data point 60		0.16000 mL					0.09517	0.98344	0.0
	Data point 61		0.16000 mL					0.09747	0.97405	0.0
			0.16000 mL					0.09609	0.98785	0.0
	Data point 63		0.16000 mL					0.09920	0.97638	0.0
	Data point 64		0.16000 mL					0.09748	0.96911	0.0
38:03.7	-		0.16000 mL					0.09431	0.97450	0.0
38:50.1	Data point 66		0.16000 mL					0.09734	0.97057	0.0
39:36.3			0.16000 mL					0.09833	0.95747	0.0
40:17.0	Data point 68		0.16000 mL					0.10016	0.99282	0.0
40:52.7	Data point 69		0.16000 mL					0.09466	0.96433	0.0
41:18.3	Data point 70		0.16000 mL					0.08162	0.97469	0.0
41:40.0	Data point 75		0.16000 mL					0.05400	0.97618	0.0
42:11.8	Data point 72		0.16000 mL						0.89831	0.0
42:43.8	Data point 73		0.16000 mL						0.83505	0.0
43:15.6	Data point 74		0.16000 mL						0.54642	0.0
43:37.5	Data point 75		0.16000 mL						0.25964	0.0
44:09.4	Data point 76		0.16000 mL					-0.00381		0.0
44:26.1	Data point 77		0.16000 mL					-0.00185		0.0
44:42.7	Data point 78		0.16000 mL					-0.00660		0.0
44:59.4	Data point 79		0.16000 mL					-0.00791		0.0
45:16.1	Data point 80		0.16000 mL							0.0
45:32.9	Data point 81		0.16000 mL					0.00013	0.00050	0.0
45:49.6	Data point 82		0.16000 mL						0.16425	0.0
	Reference spectrum						5 . 0			0
	Data point 84	1.54998 ml	0.30419 mL	0.20875 ml	0.94003 ml	0.02500 ml	1.999	0.08262	0.91980	0.0
	Data point 85		0.30419 mL					-0.01124		0.0
			0.30419 mL					-0.07712		0.0
	Data point 87		0.30419 mL					-0.09009		0.0
	Data point 88		0.30419 mL					-0.07888		0.00
	Data point 89		0.30419 mL					-0.00180		0.0
52:11.1	•		0.30419 mL					-0.07282		0.00
	Data point 91		0.30419 mL					-0.07262		0.00
	Data point 92		0.30419 mL					-0.00333		0.00
	Data point 93		0.30419 mL					-0.07310		0.00
	Data point 93 Data point 94		0.30419 mL					-0.08003		0.00
	Data point 95		0.30419 mL					-0.05777		0.00
	Data point 95		0.30419 IIIL					0.00901		0.00

1.54998 mL 0.30419 mL 0.29386 mL 0.94003 mL 0.02500 mL 6.379

1.54998 mL 0.30419 mL 0.29431 mL 0.94003 mL 0.02500 mL 6.911

1.54998 mL 0.30419 mL 0.29464 mL 0.94003 mL 0.02500 mL 7.547

1.54998 mL 0.30419 mL 0.29485 mL 0.94003 mL 0.02500 mL 7.836

1.54998 mL 0.30419 mL 0.29497 mL 0.94003 mL 0.02500 mL 8.086

1.54998 mL 0.30419 mL 0.29504 mL 0.94003 mL 0.02500 mL 8.406

1.54998 mL 0.30419 mL 0.29511 mL 0.94003 mL 0.02500 mL 8.739

1.54998 mL 0.30419 mL 0.29518 mL 0.94003 mL 0.02500 mL 9.022

1.54998 mL 0.30419 mL 0.29527 mL 0.94003 mL 0.02500 mL 9.319

1.54998 mL 0.30419 mL 0.29539 mL 0.94003 mL 0.02500 mL 9.536

1.54998 mL 0.30419 mL 0.29556 mL 0.94003 mL 0.02500 mL 9.779

54:02.4 Data point 96

54:47.6 Data point 97

55:37.0 Data point 98

56:28.3 Data point 99 57:00.2 Data point 100

57:29.9 Data point 101

58:03.7 Data point 102

58:35.9 Data point 103

59:00.4 Data point 104

59:22.0 Data point 105

59:43.5 Data point 106

0.0

0.00

0.00

0.00

0.0

0.00

0.0

0.00

0.00

0.00

0.0

-0.09773 0.96141

-0.09412 0.95381

-0.10043 0.99192

-0.06576 0.90083

0.08638 0.85205

-0.00309 0.06453

-0.05981 0.85474

0.94862

0.91652

0.96346

0.30820

0.09779

0.09299

0.09907

0.01309



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Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Events (continued)

Time	Event	Water	Acid	Base	Methanol	Buffer	рН	dpH/dt	pH R-squared	pH SD
59:59.9	Data point 107	1.54998 mL	0.30419 mL	0.29584 mL	0.94003 mL	0.02500 mL	10.172	-0.08901	0.87585	0.0047
1:00:27.8	Data point 108	1.54998 mL	0.30419 mL	0.29645 mL	0.94003 mL	0.02500 mL	10.374	-0.03253	0.92023	0.0016
1:00:44.4	Data point 109	1.54998 mL	0.30419 mL	0.29744 mL	0.94003 mL	0.02500 mL	10.607	-0.09416	0.88669	0.0049
1:01:16.3	Data point 110	1.54998 mL	0.30419 mL	0.29911 mL	0.94003 mL	0.02500 mL	10.798	-0.02117	0.96872	0.0010
1:01:32.9	Data point 111	1.54998 mL	0.30419 mL	0.30160 mL	0.94003 mL	0.02500 mL	10.996	-0.09396	0.88293	0.0049
1:01:49.5	Data point 112	1.54998 mL	0.30419 mL	0.30555 mL	0.94003 mL	0.02500 mL	11.202	-0.09213	0.86354	0.0048
1:02:06.3	Data point 113	1.54998 mL	0.30419 mL	0.31190 mL	0.94003 mL	0.02500 mL	11.405	-0.08893	0.83779	0.0047
1:02:23.1	Data point 114	1.54998 mL	0.30419 mL	0.32211 mL	0.94003 mL	0.02500 mL	11.603	-0.07838	0.91589	0.0040
1:02:40.0	Data point 115	1.54998 mL	0.30419 mL	0.33841 mL	0.94003 mL	0.02500 mL	11.810	-0.08038	0.91472	0.0041
1:02:57.2	Data point 116	1.54998 mL	0.30419 mL	0.36533 mL	0.94003 mL	0.02500 mL	12.014	-0.07995	0.92157	0.0041
1:04:27.9	Assay volumes	1.54998 mL	0.46630 mL	0.36533 mL	0.94003 mL	0.02500 mL				

Assay Settings

Setting	Value	Original Value	Date/Time changed	Imported from
General Settings		•	•	•
Analyst name	Dorothy Levorse			
Separate reference vial	Yes			
Standard Experiment Settings				
Number of titrations	3			

2.000 Minimum pH Maximum pH 12.000 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 Yes Cosolvent type Methanol Cosolvent volume 0.94 mL Cosolvent added Automatic ISA water volume 0.56 mL Water added Automatic After water addition, stir for 5 seconds At a speed of 15% Buffer in use

Buffer type Phosphate Buffer Volume of buffer introduced 0.025000 mL Add buffer manually Manual After medium addition, stir for 5 seconds

Sample Sonication

Sonicate No

Sample Dissolution

Perform a dissolution stage No

Carbonate purge

Perform a carbonate purge

Temperature Control Wait for temperature

Report by: Dorothy Levorse 11/10/2017 2:18:52 PM

No

Yes



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Assay Settings (continued)

Setting	Value	Original Value Date/Time changed Imported from	
Required start temperature	25.0°C		

0.5°C Acceptable deviation Time to wait 60 seconds

Stir speed of 15%

Titration 1

Titrate from Low to high pH

Adjust to start pH Yes

After pH adjust stir for 10 seconds

Titration 2

Titrate from Low to high pH

Additional cosolvent volume 0.00 mL Add additional water 0.28 mL Automatic Additional water added After pH adjust stir for 10 seconds

Titration 3

Titrate from Low to high pH

Additional cosolvent volume 0.00 mL Add additional water 0.71 mL Additional water added Automatic After pH adjust stir for 10 seconds

Data Point Stability

Stir during data point collection Yes For point collection, stir at 15% Delay before data point collection 0 seconds Number of points to average 20 points Time interval between points 0.50 seconds Required maximum standard deviation 0.00500 dpH/dt Stability timeout after 60 seconds

Experiment cleanup

Adjust pH to cleanup To start pH And then stir for 60 seconds For cleaning, stir at 20% Then add water volume 0.25 mL And then stir for 30 seconds

Calibration Settings

Setting	Value	Date/Time changed	Imported from
Four-Plus alpha	0.109	11/9/2017 6:51:39 PM	C:\Sirius_T3\HCl17K09.t3r
Four-Plus S	1.0008	11/9/2017 6:51:39 PM	C:\Sirius_T3\HCl17K09.t3r
Four-Plus jH	0.6	11/9/2017 6:51:39 PM	C:\Sirius_T3\HCl17K09.t3r
Four-Plus jOH	-1.2	11/9/2017 6:51:39 PM	C:\Sirius_T3\HCl17K09.t3r
Base concentration factor	1.008	11/9/2017 6:51:39 PM	C:\Sirius_T3\KOH17K09.t3r
Acid concentration factor	0.998	11/9/2017 6:51:39 PM	C:\Sirius T3\HCl17K09.t3r

Instrument Settings

Setting	Value	Batch Id	Install date
Instrument owner	Merck		
Instrument ID	T311053		
Instrument type	T3 Simulator		
Software version	1.1.3.0		
Dispenser module		T3DM1100253	3/31/2009 5:24:52 AM
Dispenser 0	Water		3/31/2009 5:25:05 AM
Syringe volume	2.5 mL		
Firmware version	1.2.1(r2)		
Titrant	Water (0.15 M KCI)	10-10-2017	11/8/2017 11:33:30 AM
Dispenser 2	Acid		3/31/2009 5:25:11 AM



Assay ID: 17K-09021 Instrument ID: T311053
Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Instrument Settings (continued)

Setting	Value	Batch Id	Install date
Syringe volume	0.5 mL		
Firmware version	1.2.1(r2)		
Titrant	Acid (0.5 M HCI)	11-8-17	11/8/2017 11:32:21 AM
Dispenser 1	Base		3/31/2009 5:25:21 AM
Syringe volume	0.5 mL		
Firmware version	1.2.1(r2)		
Titrant	Base (0.5 M KOH)	10-30-17	10/30/2017 8:01:46 AM
Dispenser 5	Cosolvent		3/31/2009 5:26:24 AM
Syringe volume	2.5 mL		
Firmware version Distribution valve 5	1.2.1(r2) Distribution Valve		3/31/2009 5:28:19 AM
Firmware version	1.1.3		3/3 1/2009 5.26. T9 AW
Port A	Methanol (80%, 0.15 M KCI)	9-26-17	11/1/2017 10:56:16 AM
Port B	Cyclohexane	0 20 17	10/19/2017 2:11:05 PM
Port C	MeCN (50%, 0.15 M KCI)	10-30-17	10/30/2017 8:02:00 AM
Dispenser 3	Buffer		8/3/2010 5:05:16 AM
Syringe volume	0.5 mL		
Firmware version	1.2.1(r2)		
Titrant	Phosphate Buffer		11/8/2017 11:32:27 AM
Dispenser 6	Octanol		10/22/2010 10:52:43 AM
Syringe volume	0.5 mL		
Firmware version	1.2.1(r2)	0.44.47	40/40/0047 7 40 50 484
Titrant	Octanol	9-14-17	10/13/2017 7:46:59 AM
Titrator Horizontal axis firmware version	1 17 AI1DI2DO2 Stopper 2	1311/11100153	3/31/2009 5:24:17 AM
Vertical axis firmware version	1.17 Al1Dl2DO2 Stepper 2 1.17 Al1Dl2DO2 Stepper 2		
Chassis I/O firmware version	1.11 AI1DI0DO4 Norgren I/O		
Probe I/O firmware version	1.1.1		
Electrode	T3 Electrode	T3E0769	8/15/2017 9:21:54 AM
E0 calibration	-7.35 mV		11/9/2017 6:52:03 PM
Filling solution	3M KCI	KCL095	11/8/2017 11:31:02 AM
Liquids			
Wash 1	50% IPA:50% Water		11/9/2017 8:31:16 AM
Wash 2	0.5% Trition X-100 in H20		11/9/2017 8:31:19 AM
Buffer position 1	pH7 Wash		11/9/2017 8:31:22 AM
Buffer position 2	pH 7		11/9/2017 8:31:24 AM
Storage position	2 22 10021	10 10 17	11/9/2017 8:31:29 AM
Wash water Waste	3.3e+003 mL	10-13-17	10/13/2017 8:58:01 AM 10/13/2017 8:58:05 AM
Temperature controller	7.1e+003 mL		8/5/2010 6:35:13 AM
Turbidity detector			3/31/2009 5:24:45 AM
Spectrometer		072390	11/23/2010 11:22:28 AM
Dip probe		11086	
Wavelength coefficient A0	185.563		
Wavelength coefficient A1	2.17439		
Wavelength coefficient A2	-0.000285622		
Total lamp lit time	512:14:04		11/23/2010 11:22:28 AM
Calibrated on	11/8/2017 1:14:37 PM		
Integration time	10		
Scans averaged	10	T0 A1 44 00007	44/40/0045 0:04:40 AM
Autoloader	1 17 AI1DI2DO2 Stannar 2	T3AL1100237	11/10/2015 9:34:13 AM
Left-right axis firmware version Front-back axis firmware version	1.17 Al1Dl2DO2 Stepper 2 1.17 Al1Dl2DO2 Stepper 2		
Vertical axis firmware version	1.17 AI1DI2DO2 Stepper 2		
Chassis I/O firmware version	1.11 AI1DI0DO2 Stepper 2		
Configuration	/ 11/20004 Norgicii I/O		
Alternate titration position	Titration position		
Alternate reference position	Reference position		
'	<u>'</u>		

Batch Id Install date



Sample name: M06 Experiment start time: 11/9/2017 6:51:39 PM
Assay name: UV-metric psKa Analyst: Dorothy Levorse

Assay ID: 17K-09021 Instrument ID: T311053
Filename: C:\Sirius_T3\Mehtap\20171109_exp16_pKa\17K-09021_M06_UV-metric psKa.t3r

Instrument Settings (continued)

Setting	Value
Maximum standard vial volume	3.50 mL
Maximum alternate vial volume	25.00 mL
Automatic action idle period	5 minute(s)
Titrant tube volume	1.3 mL `´
Syringe flush count	3.50
Flowing wash pump volume	20.0 mL
Flowing wash stir duration	5 s
Flowing wash stir speed	30%
Solvent wash stir duration	5 s
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

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

Tray Information

Title

Location B1