

Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

pH-metric Result

logP (XH2 +) -0.73 ±0.56 (n=50) logP (neutral XH) 2.59 ±0.01 (n=50) logP (X -) 0.46

RMSD 1.511

18C-09015 Points 2 to 20

M18_octanol concentration factor 1.192
Carbonate 0.0000 mM
Acidity error 0.28168 mM

18C-09015 Points 21 to 41

M18_octanol concentration factor 1.079
Carbonate 0.1008 mM
Acidity error -0.00618 mM

18C-09015 Points 42 to 69

M18_octanol concentration factor 1.146
Carbonate 0.1707 mM
Acidity error 0.14218 mM

Warnings and errors

Errors None Warnings None

Sample logD and percent species

рН	M18_octanol logD	M18_octanol M18_octanolH2	M18_octanol M18_octanolH	M18_octanol M18_octanol		M18_octanol M18_octanolH*	M18_octanol M18_octanol*	
1.000	-0.69	83.14 %	0.00 %	0.00 %	15.49 %	1.37 %	0.00 %	
1.200	-0.67	82.48 %	0.01 %	0.00 %	15.36 %	2.15 %	0.00 %	Stomach pH
2.000	-0.46	74.02 %	0.03 %	0.00 %	13.79 %	12.16 %	0.00 %	
3.000	0.26	35.30 %	0.15 %	0.00 %	6.57 %	57.98 %	0.00 %	
4.000	1.20	5.66 %	0.24 %	0.00 %	1.05 %	93.04 %	0.00 %	
5.000	2.06	0.60 %	0.26 %	0.00 %	0.11 %	99.03 %	0.00 %	
6.000	2.49	0.06 %	0.26 %	0.00 %	0.01 %	99.67 %	0.00 %	
6.500	2.55	0.02 %	0.26 %	0.00 %	0.00 %	99.72 %	0.00 %	
7.000	2.58	0.01 %	0.26 %	0.00 %	0.00 %	99.73 %	0.00 %	
7.400	2.58	0.00 %	0.26 %	0.00 %	0.00 %	99.74 %	0.00 %	Blood pH
8.000	2.58	0.00 %	0.26 %	0.00 %	0.00 %	99.74 %	0.00 %	·
9.000	2.58	0.00 %	0.26 %	0.01 %	0.00 %	99.72 %	0.02 %	
10.000	2.50	0.00 %	0.26 %	0.06 %	0.00 %	99.52 %	0.17 %	
11.000	2.08	0.00 %	0.25 %	0.57 %	0.00 %	97.54 %	1.64 %	
12.000	1.28	0.00 %	0.21 %	4.73 %	0.00 %	81.41 %	13.65 %	



Sample name: M18_octanol Assay name:

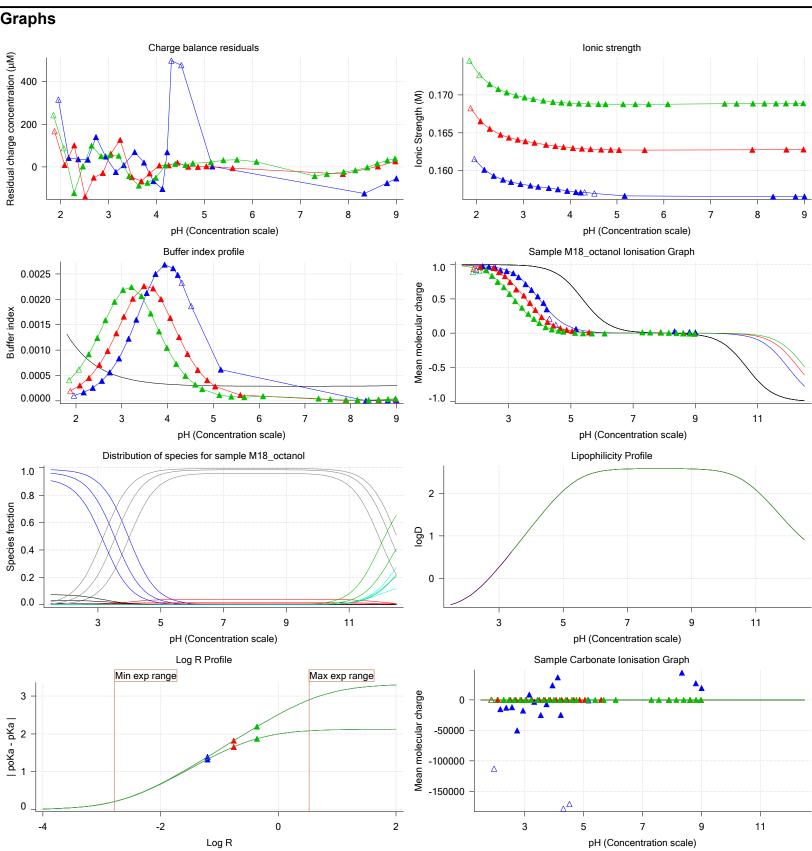
pH-metric high logP

18C-09015 Assay ID: Filename:

Experiment start time: 3/9/2018 9:53:01 PM

Pion Analyst: Instrument ID: T312060

C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

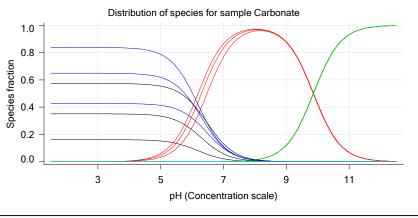




Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Graphs (continued)





Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

pH-metric high logP Titration 1 of 3 18C-09015 Points 2 to 20

Overall results

RMSD 2.905
Average ionic strength 0.158 M
Average temperature 24.9°C
Partition ratio 0.0626 : 1

Analyte concentration range 3669.6 µM to 3776.5 µM

Total points considered 16 of 19

Warnings and errors

Errors None

Warnings One or more logP values out of range

Four-Plus parameters

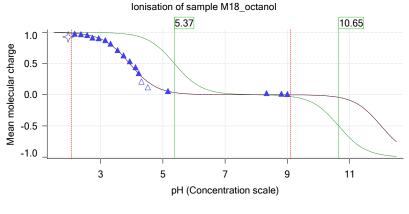
à	Alpha	0.102	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
à	S	0.9967	3/9/2018 9:53:01 PM	C:\Sirius T3\HCl18C09.t3r
à	jΗ	1.2	3/9/2018 9:53:01 PM	C:\Sirius T3\HCl18C09.t3r
	jОН	0.0	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r

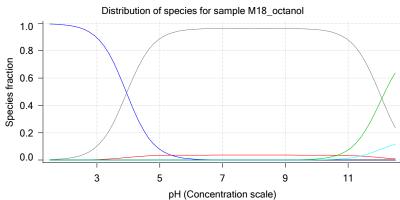
Titrants

Sample

₩.	M18_octanol concentration factor	1.192
	Base pKa 1	5.37
	Acid pKa 2	10.65
7	logP (XH2 +)	-7.94
7	logP (neutral XH)	2.63
à	logP (X -)	0.46

Sample graphs







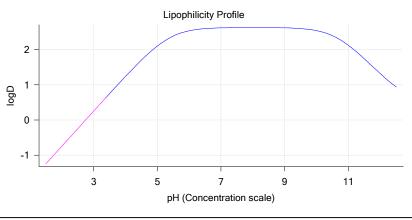
Assay ID:

Sample name: M18_octanol Experiment start time: 3/9/2018 9:53:01 PM
Assay name: pH-metric high logP Analyst: Pion

pH-metric high logP Analyst: Pion
18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

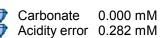
Sample graphs (continued)



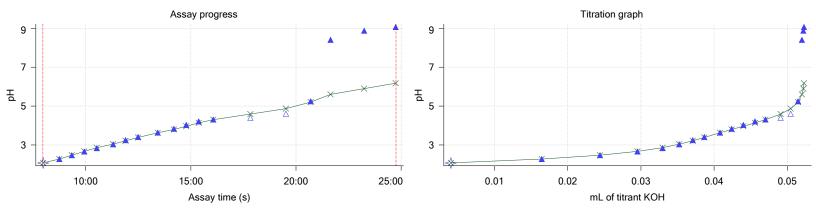
Sample logD and percent species

рН	M18_octanol	M18_octanol	M18_octanol	M18_octanol	M18_octanol	M18_octanol	M18_octanol	
	logD	M18_octanoIH2	—	M18_octanol	M18_octanolH2*		M18_octanol*	
1.000	-1.74	99.88 %	0.00 %	0.00 %	0.00 %	0.11 %	0.00 %	
1.200	-1.54	99.81 %	0.01 %	0.00 %	0.00 %	0.18 %	0.00 %	Stomach pH
2.000	-0.74	98.84 %	0.04 %	0.00 %	0.00 %	1.12 %	0.00 %	•
3.000	0.26	89.50 %	0.38 %	0.00 %	0.00 %	10.12 %	0.00 %	
4.000	1.24	46.01 %	1.96 %	0.00 %	0.00 %	52.03 %	0.00 %	
5.000	2.10	7.85 %	3.35 %	0.00 %	0.00 %	88.80 %	0.00 %	
6.000	2.54	0.84 %	3.60 %	0.00 %	0.00 %	95.55 %	0.00 %	
6.500	2.60	0.27 %	3.63 %	0.00 %	0.00 %	96.11 %	0.00 %	
7.000	2.62	0.09 %	3.63 %	0.00 %	0.00 %	96.28 %	0.00 %	
7.400	2.62	0.03 %	3.63 %	0.00 %	0.00 %	96.33 %	0.00 %	Blood pH
8.000	2.63	0.01 %	3.63 %	0.01 %	0.00 %	96.35 %	0.00 %	·
9.000	2.62	0.00 %	3.63 %	0.08 %	0.00 %	96.27 %	0.01 %	
10.000	2.54	0.00 %	3.60 %	0.81 %	0.00 %	95.45 %	0.15 %	
11.000	2.12	0.00 %	3.32 %	7.42 %	0.00 %	87.92 %	1.34 %	
12.000	1.32	0.00 %	1.85 %	41.51 %	0.00 %	49.15 %	7.49 %	

Carbonate and acidity



Other graphs





Sample name: M18_octanol Assay name:

pH-metric high logP

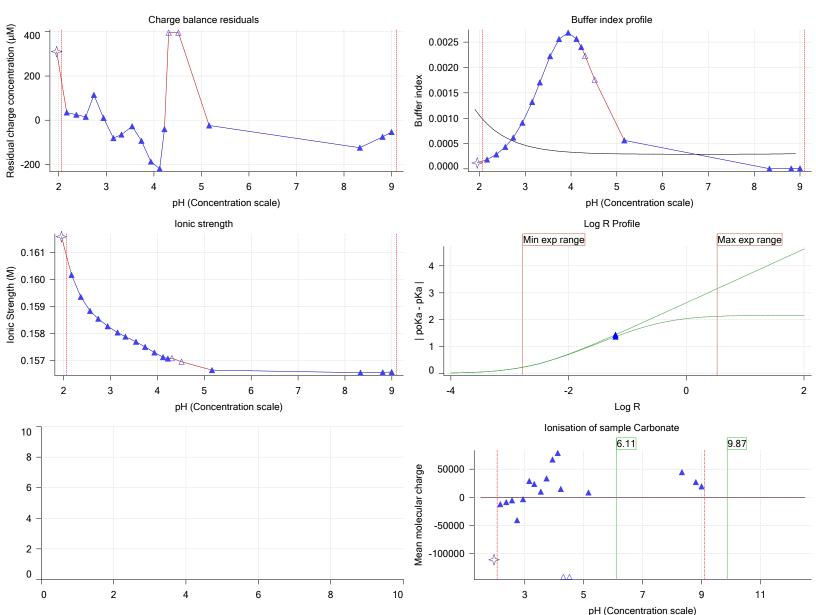
18C-09015 Assay ID: Filename:

Experiment start time: 3/9/2018 9:53:01 PM

Analyst: Pion Instrument ID: T312060

C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Other graphs (continued)





Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

pH-metric high logP Titration 2 of 3 18C-09015 Points 21 to 41

Overall results

RMSD 0.624
Average ionic strength 0.164 M
Average temperature 25.0°C
Partition ratio 0.1752 : 1

Analyte concentration range 3095.9 µM to 3187.0 µM

Total points considered 20 of 21

Warnings and errors

Errors None

Warnings One or more logP values out of range

Four-Plus parameters

à	Alpha	0.102	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
à	S	0.9967	3/9/2018 9:53:01 PM	C:\Sirius T3\HCl18C09.t3r
à	jΗ	1.2	3/9/2018 9:53:01 PM	C:\Sirius T3\HCl18C09.t3r
	jОН	0.0	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r

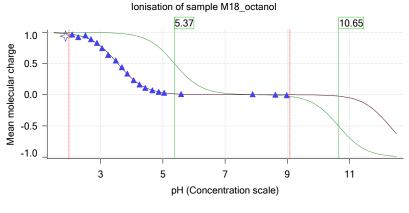
Titrants

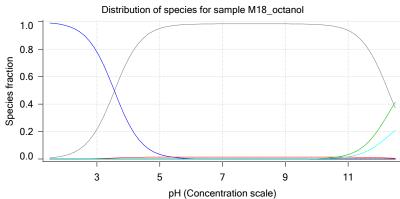
0.50 M HCI 0.999843 3/9/2018 9:53:01 PM C:\Sirius_T3\HCl18C09.t3r 0.50 M KOH 0.999845 3/9/2018 9:53:01 PM C:\Sirius_T3\KOH18B27.t3r

Sample

M18_octanol concentration factor	1.079
Base pKa 1	5.37
Acid pKa 2	10.65
logP (XH2 +)	-4.21
logP (neutral XH)	2.57
logP (X -)	0.46
	Base pKa 1 Acid pKa 2 logP (XH2 +) logP (neutral XH)

Sample graphs



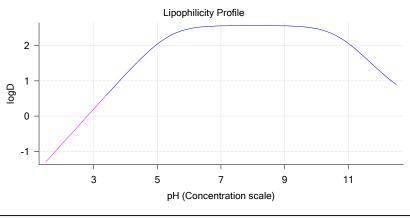




Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

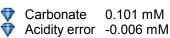
Sample graphs (continued)



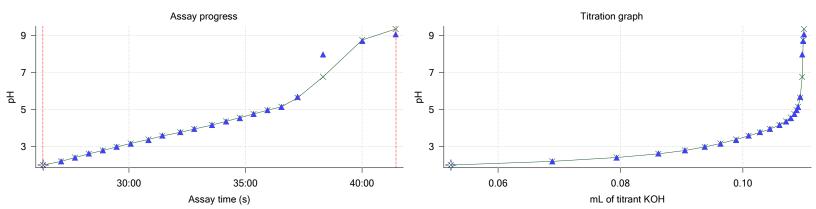
Sample logD and percent species

рН	M18_octanol	M18_octanol	M18_octanol	M18_octanol		M18_octanol	M18_octanol	Comment
	logD	M18_octanolH2	M18_octanolH	M18_octanol	M18_octanolH2*	M18_octanolH*	M18_octanol*	
1.000	-1.80	99.72 %	0.00 %	0.00 %	0.00 %	0.28 %	0.00 %	
1.200	-1.60	99.55 %	0.01 %	0.00 %	0.00 %	0.44 %	0.00 %	Stomach pH
2.000	-0.80	97.25 %	0.04 %	0.00 %	0.00 %	2.71 %	0.00 %	·
3.000	0.20	77.96 %	0.33 %	0.00 %	0.00 %	21.70 %	0.00 %	
4.000	1.18	26.13 %	1.11 %	0.00 %	0.00 %	72.75 %	0.00 %	
5.000	2.05	3.42 %	1.46 %	0.00 %	0.00 %	95.12 %	0.00 %	
6.000	2.48	0.35 %	1.50 %	0.00 %	0.00 %	98.14 %	0.00 %	
6.500	2.54	0.11 %	1.51 %	0.00 %	0.00 %	98.38 %	0.00 %	
7.000	2.56	0.04 %	1.51 %	0.00 %	0.00 %	98.46 %	0.00 %	
7.400	2.57	0.01 %	1.51 %	0.00 %	0.00 %	98.48 %	0.00 %	Blood pH
8.000	2.57	0.00 %	1.51 %	0.00 %	0.00 %	98.48 %	0.00 %	- I
9.000	2.56	0.00 %	1.51 %	0.03 %	0.00 %	98.44 %	0.02 %	ļ
10.000	2.48	0.00 %	1.50 %	0.34 %	0.00 %	97.99 %	0.17 %	ļ
11.000	2.07	0.00 %	1.44 %	3.22 %	0.00 %	93.72 %	1.62 %	
12.000	1.27	0.00 %	1.00 %	22.40 %	0.00 %	65.29 %	11.31 %	ļ

Carbonate and acidity



Other graphs





Assay name:

Sample name: M18_octanol

pH-metric high logP

Assay ID: Filename:

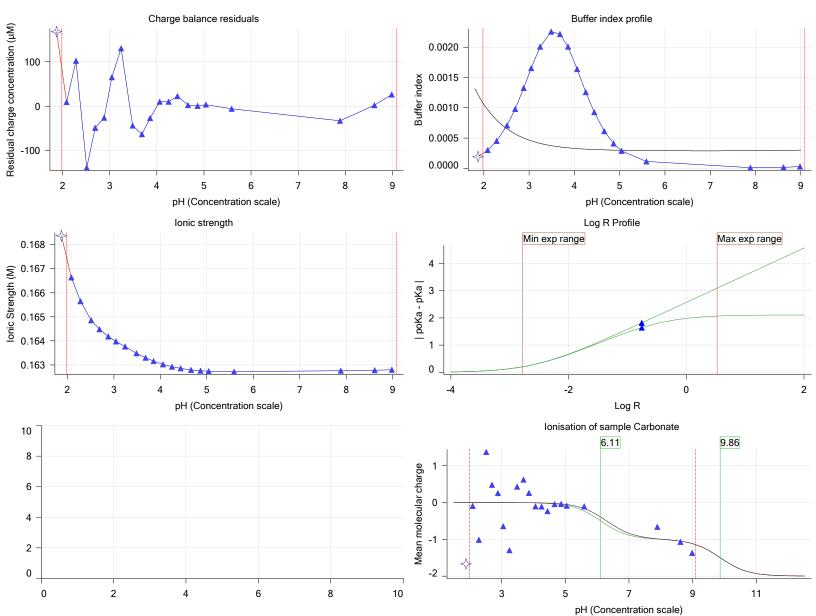
18C-09015

Experiment start time: 3/9/2018 9:53:01 PM

Pion Analyst: Instrument ID: T312060

C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Other graphs (continued)





Assay name: pH-metric high logP Analyst: Pion 18C-09015 Instrument ID: Assay ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

pH-metric high logP Titration 3 of 3 18C-09015 Points 42 to 69

Overall results

RMSD 0.425 0.169 M Average ionic strength Average temperature 25.0°C Partition ratio 0.4343:1

Analyte concentration range 2362.4 µM to 2420.9 µM

Total points considered 26 of 28

Warnings and errors

None Errors

Warnings One or more logP values out of range

Four-Plus parameters

Alpha	0.102	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
S	0.9967	3/9/2018 9:53:01 PM	C:\Sirius T3\HCl18C09.t3r
jΗ	1.2	3/9/2018 9:53:01 PM	C:\Sirius T3\HCl18C09.t3r
jОН	0.0	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r

Titrants

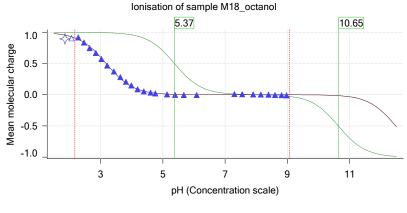
0.50 M HCI 0.999843 3/9/2018 9:53:01 PM C:\Sirius T3\HCI18C09.t3r 0.50 M KOH 0.999845 3/9/2018 9:53:01 PM C:\Sirius_T3\KOH18B27.t3r

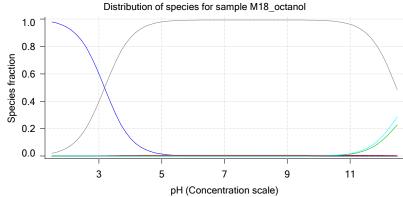
6

Sample

₩	M18_octanol concentration factor	1.146
	Base pKa 1	5.37
	Acid pKa 2	10.65
₩	logP (XH2 +)	-3.41
1	logP (neutral XH)	2.55
	logP (X -)	0.46

Sample graphs







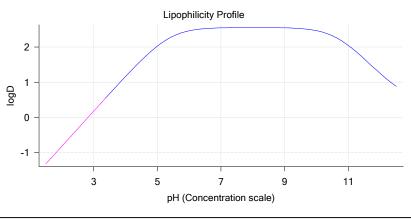
Assay ID:

Sample name: M18_octanol Experiment start time: 3/9/2018 9:53:01 PM
Assay name: pH-metric high logP Analyst: Pion

pH-metric high logP Analyst: Pion 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

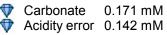
Sample graphs (continued)



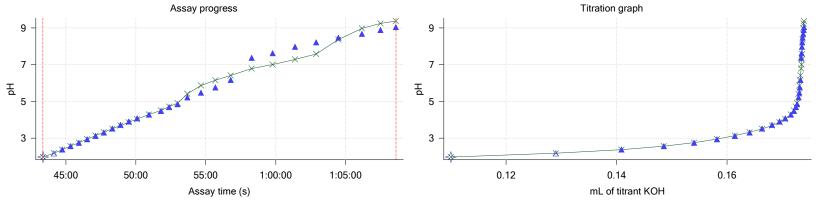
Sample logD and percent species

рН	M18_octanol	M18_octanol	M18_octanol	M18_octanol	M18_octanol	M18_octanol	M18_octanol	Comment
	logD	M18_octanolH2	M18_octanolH	M18_octanol	M18_octanolH2*	M18_octanolH*	M18_octanol*	
1.000	-1.80	99.32 %	0.00 %	0.00 %	0.02 %	0.66 %	0.00 %	
1.200	-1.61	98.94 %	0.01 %	0.00 %	0.02 %	1.04 %	0.00 %	Stomach pH
2.000	-0.81	93.72 %	0.04 %	0.00 %	0.02 %	6.22 %	0.00 %	
3.000	0.18	59.93 %	0.26 %	0.00 %	0.01 %	39.80 %	0.00 %	
4.000	1.17	13.02 %	0.56 %	0.00 %	0.00 %	86.43 %	0.00 %	
5.000	2.03	1.47 %	0.63 %	0.00 %	0.00 %	97.90 %	0.00 %	
6.000	2.46	0.15 %	0.64 %	0.00 %	0.00 %	99.21 %	0.00 %	
6.500	2.52	0.05 %	0.64 %	0.00 %	0.00 %	99.31 %	0.00 %	
7.000	2.54	0.01 %	0.64 %	0.00 %	0.00 %	99.35 %	0.00 %	
7.400	2.55	0.01 %	0.64 %	0.00 %	0.00 %	99.35 %	0.00 %	Blood pH
8.000	2.55	0.00 %	0.64 %	0.00 %	0.00 %	99.36 %	0.00 %	
9.000	2.54	0.00 %	0.64 %	0.01 %	0.00 %	99.33 %	0.02 %	
10.000	2.47	0.00 %	0.64 %	0.14 %	0.00 %	99.04 %	0.18 %	
11.000	2.05	0.00 %	0.62 %	1.38 %	0.00 %	96.26 %	1.73 %	
12.000	1.26	0.00 %	0.48 %	10.81 %	0.00 %	75.17 %	13.54 %	

Carbonate and acidity



Other graphs





Assay ID: Filename:

Sample name: M18_octanol Assay name:

pH-metric high logP

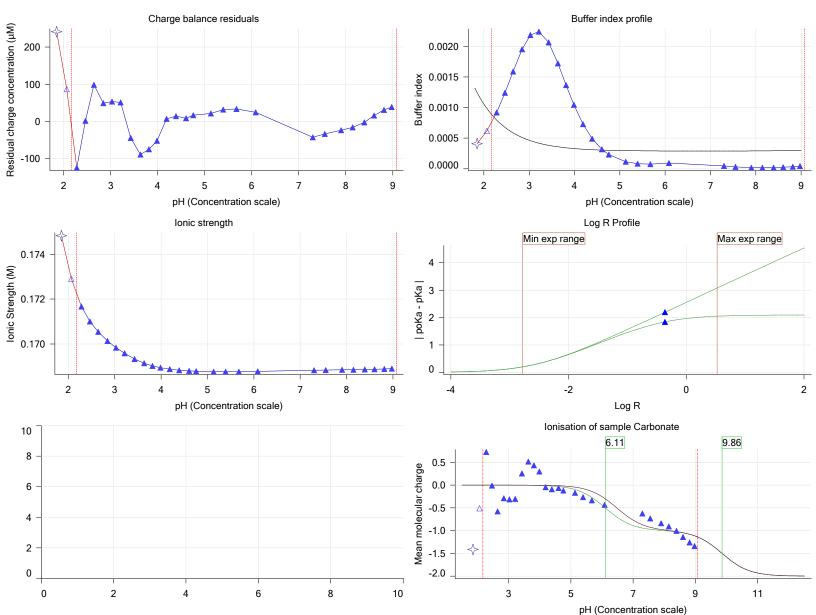
18C-09015

Experiment start time: 3/9/2018 9:53:01 PM

Pion Analyst: Instrument ID: T312060

C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Other graphs (continued)





Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Assay Model

Settings	Value	Date/Time changed	Imported from
Sample name	M18_octanol	2/27/2018 7:08:39 PM	User entered value
Sample by	Weight		Default value
Sample weight	0.001670 g	3/9/2018 2:22:44 PM	User entered value
Formula weight	267.11 g/mol	2/27/2018 7:08:39 PM	User entered value
Solubility	Unknown		Default value
Molecular weight	267.11	2/27/2018 7:08:39 PM	User entered value
Individual pKa ionic environments	No		Default value
Number of pKas	2	2/27/2018 7:08:39 PM	User entered value
Sample is a	Ampholyte	2/27/2018 7:08:39 PM	User entered value
pKa 1	5.37	2/27/2018 7:08:39 PM	User entered value
Type	Base	2/27/2018 7:08:39 PM	User entered value
pKa 2	10.65	2/27/2018 7:08:39 PM	User entered value
Type	Acid	2/27/2018 7:08:39 PM	User entered value
logp (XH2 +)	-0.35	2/28/2018 3:20:28 PM	User entered value
logP (neutral XH)	2.57	3/2/2018 4:34:50 PM	User entered value
logP (X -)	0.46	2/27/2018 7:09:34 PM	User entered value

Events

Events	•									
Time	Event	Water	Acid	Base	Octanol	рН	dpH/dt	pH R-squared	pH SD	dpH/e time
4:58.2 4:59.3	Manual volume addition Initial pH = 8.13				0.10000 mL					tiille
7:58.9	Data point 2	1.50000 mL	0.05148 mL	0.00405 mL	0.10000 mL	2.064	-0.00398	0.61752	0.00025	10.0
8:45.1	Data point 3	1.50000 mL	0.05148 mL	0.01646 mL	0.10000 mL	2.270	0.00032	0.01048	0.00015	10.0 s
9:20.7	Data point 4	1.50000 mL	0.05148 mL	0.02441 mL	0.10000 mL	2.467	0.00127	0.33156	0.00011	10.0 s
9:56.2	Data point 5	1.50000 mL	0.05148 mL	0.02954 mL	0.10000 mL	2.663	-0.00044	0.05449	0.00009	_
10:31.9	Data point 6	1.50000 mL	0.05148 mL	0.03295 mL	0.10000 mL	2.835	-0.00106	0.08335	0.00018	10.5
11:18.2	Data point 7	1.50000 mL	0.05148 mL	0.03523 mL	0.10000 mL	3.034	-0.00637	0.44601	0.00047	10.0
11:53.8	Data point 8	1.50000 mL	0.05148 mL	0.03709 mL	0.10000 mL	3.244	-0.00918	0.56183	0.00060	10.5
12:29.7	Data point 9	1.50000 mL	0.05148 mL	0.03866 mL	0.10000 mL	3.411	-0.01473	0.74716	0.00084	s 10.0 s
13:25.9	Data point 10	1.50000 mL	0.05148 mL	0.04080 mL	0.10000 mL	3.635	-0.01009	0.71263	0.00059	_
14:11.7	Data point 11	1.50000 mL	0.05148 mL	0.04240 mL	0.10000 mL	3.828	-0.01257	0.80770	0.00069	_
14:47.2	Data point 12	1.50000 mL	0.05148 mL	0.04400 mL	0.10000 mL	4.027	-0.00532	0.89260	0.00028	10.0 s
15:22.6	Data point 13	1.50000 mL	0.05148 mL	0.04558 mL	0.10000 mL	4.210	-0.01823	0.90318	0.00095	-
16:04.1	Data point 14	1.50000 mL	0.05148 mL	0.04701 mL	0.10000 mL	4.312	-0.10209	0.99736	0.00505	•
17·50 2	Data point 15	1 50000 ml	0.05148 mL	0.04008 ml	0 10000 ml	1 200	0 03333	0.00310	0.00160	at Time
17.30.2	Data point 15	1.30000 IIIL	0.00140 IIIL	0.04900 IIIL	U. TUUUU IIIL	4.380	-0.03232	0.55015	0.00100	out
	5	4 = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							0.00465	at

1.50000 mL 0.05148 mL 0.05047 mL 0.10000 mL 4.604 -0.02003 0.98669

1.50000 mL 0.05148 mL 0.05146 mL 0.10000 mL 5.249 -0.01859 0.86523

19:31.1 Data point 16

20:42.0 Data point 17

0.00100 45.5

0.00099 26.0



pH-metric high logP Pion Assay name: Analyst: Assay ID: 18C-09015 Instrument ID: T312060

Filename: $C:\Sirius_T3\\Mehtap\\20180309_exp31_logP_T3-2\\18C-09015_M18_octanol_pH-metric\ high\ logP.t3r$

Events (continued)

Time 21:38.6	Event Data point 18	Water 1.50000 mL	Acid 0.05148 mL	Base 0.05200 mL	Octanol 0.10000 mL	pH 8.408	dpH/dt -0.02877	pH R-squared 0.97980		dpH/dt time Timed out at 59.5 s
23:14.2	Data point 19	1.50000 mL	0.05148 mL	0.05219 mL	0.10000 mL	8.882	-0.01997	0.97577	0.00100	
24:44.4	Data point 20								0.00100	
26:19.4	Data point 21								0.00046	
27:05.6	Data point 22								0.00058	
27:41.3	Data point 23							0.58885	0.00019	
28:16.9	Data point 24								0.00078	
28:52.9	Data point 25								0.00083	
29:28.4	Data point 26								0.00021	
30:04.5	Data point 27								0.00091	
30:50.3	Data point 28								0.00059	
31:26.3	Data point 29								0.00079	
32:12.0	Data point 30								0.00075	
32:48.0	Data point 31								0.00081	
33:33.8	Data point 32								0.00038	
34:09.8	Data point 33								0.00046	
34:45.3	Data point 34								0.00091	
35:20.7	Data point 35								0.00074	
35:56.6	Data point 36								0.00080	
36:32.5	Data point 37								0.00088	
37:14.0	Data point 38								0.00099	
38:19.4	Data point 39									Timed out at
00.10.4	Data point 00	1.00000 1112	0.10040 IIIL	0.10000 IIIL	0.00000 IIIL	7.000	0.00004	0.00+00	0.00000	59.5 s
40:00.2	Data point 40	1 50000 ml	0 10948 ml	0 10985 ml	0.30000 ml	8 691	-0.01737	0 90449	0.00090	
41:26.4	Data point 41							0.98442	0.00100	
43:22.0	Data point 42								0.00054	
44:08.3	Data point 43							0.37114	0.00036	
44:44.0	Data point 44							0.03724	0.00067	
45:20.1	Data point 45							0.25892	0.00080	
45:55.7	Data point 46							0.52375	0.00059	
46:31.2	Data point 47							0.06322	0.00040	
47:07.2	Data point 48							0.90284	0.00042	
47:42.7	Data point 49							0.05752	0.00041	
48:18.7	Data point 50								0.00098	
48:54.2	Data point 51								0.00079	
49:29.6	Data point 52								0.00035	
50:05.6	Data point 53							0.17804	0.00051	
50:56.5	Data point 54								0.00053	
51:47.4	Data point 55								0.00085	
52:22.7	Data point 56								0.00086	
52:59.1	Data point 57								0.00086	
53:40.6	Data point 58								0.00099	
54:39.2	Data point 59								0.00094	
55:40.7	Data point 60								0.00099	
56:46.8	Data point 61								0.00100	
58:16.4	Data point 62									Timed out at
00.10.1	Bata point 02	1.00000 1112	0.172011112	0.170121112	0.00000 1112	1.011	0.12011	0.00771	0.0000	59.5 s
59:46.9	Data point 63	1.50000 mL	0.17251 mL	0.17350 mL	0.80000 mL	7.630	-0.07477	0.98222	0.00373	Timed out at
1:01:22.5	Data point 64	1.50000 mL	0.17251 mL	0.17357 mL	0.80000 mL	7.978	-0.05777	0.98086	0.00288	59.5 s Timed out at
	•								0.00159	59.5 s Timed out at
	Data point 65									59.5 s
1:04:28.8	Data point 66	1.50000 mL	0.17251 mL	0.17368 mL	0.80000 mL	8.468	-0.02381	0.91426	0.00123	Timed out at 59.5 s
1:06:09.5	Data point 67	1.50000 mL	0.17251 mL	0.17378 mL	0.80000 mL	8.677	-0.01737	0.85617	0.00093	





Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Events (continued)

Time	Event	Water	Acid	Base	Octanol	рН	dpH/dt	pH R-squared	pH SD	dpH/dt time
1:08:34.8	•	1.50000 mL	0.17251 mL	0.17394 mL	0.80000 mL 0.80000 mL 0.80000 mL				0.00098 0.00098	



Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

_				
Assay Settings				
Setting	Value	Original Value	Date/Time changed	Imported from
General Settings		-	_	-
Analyst name	Pion			
Standard Experiment Settings				
Number of titrations	3			
Minimum pH	2.000			
Maximum pH	9.000			
pH step between points of	0.200			
Minimum titrant addition	0.00002 mL			
Maximum titrant addition	0.100002 IIIL 0.10000 mL			
Argon flow rate	100%			
Start titration using	Cautious pH adjust			
Advanced General Settings				
Detect turbidity using	None			
Collect turbidity sensor data	No			
Collect UV spectra	No			
Stir after titrant addition for	5 seconds			
For titrant addition, stir at	10%			
Titrant Pre-Dose				
Titrant pre-dose	None			
Assay Medium				
ISA water volume	1.50 mL			
Water added	Automatic			
Partition solvent type	Octanol			
Partition volume	0.100 mL			
Partition solvent added	Manual in advance			
After partition addition, stir for	1 seconds			
Sample Sonication	Vaa			
Sonicate	Yes			
Adjust pH for sonication	No			
Sonicate for	60 seconds			
After sonication stir for	5 seconds			
Sample Dissolution				
Perform a dissolution stage	Yes			
Adjust and hold pH for dissolution				
Stir to dissolve for	120 seconds			
For dissolution, stir at	10%			
Carbonate purge				
Perform a carbonate purge	No			
Temperature Control				
Wait for temperature	Yes			
Required start temperature	25.0°C			
Acceptable deviation	0.5°C			
Time to wait	60 seconds			
Stir speed of	50%			
Titration 1	30 /0			
	المطعناء ماسيدا			
Titrate from	Low to high pH			
Adjust to start pH	Yes			
After pH adjust stir for	30 seconds			
Stir to allow partitioning for	15 seconds			
Stirrer speed for partitioning	50%			
Titration 2				
Titrate from	Low to high pH			
Add additional water	0.00 mL			
Additional partition solvent volume	0.200 mL			
Additional partition solvent added	Automatic			
After pH adjust stir for	30 seconds			

Report by: Dorothy Levorse 3/16/2018 1:51:00 PM

30 seconds

15 seconds

55%

After pH adjust stir for

Stir to allow partitioning for

Stirrer speed for partitioning



Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Assay Settings (continued)

Setting	Value	Original Value	Date/Time changed	Imported from
Titration 3		_	_	
Titrate from	Low to high pH			
Add additional water	0.00 mL			
Additional partition solvent volume	0.500 mL			
Additional partition solvent added	Automatic			
After pH adjust stir for	30 seconds			
Stir to allow partitioning for	15 seconds			
Stirrer speed for partitioning	60%			
Data Point Stability				
Stir during data point collection	No			
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	0.00100 dpH/dt			
Stability timeout after	60 seconds			

Calibration Settings

Value	Date/Time changed	Imported from
0.102	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
0.9967	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
1.2	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
0.0	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
1.000	3/9/2018 9:53:01 PM	C:\Sirius_T3\KOH18B27.t3r
1.000	3/9/2018 9:53:01 PM	C:\Sirius_T3\HCl18C09.t3r
	0.102 0.9967 1.2 0.0 1.000	0.0 3/9/2018 9:53:01 PM 1.000 3/9/2018 9:53:01 PM

Instrument Settings

Setting Instrument owner Instrument ID Instrument type Software version	Value Merck T312060 T3 Simulator 1.1.3.0	Batch Id	Install date
Dispenser module Dispenser 0 Syringe volume Firmware version	Water 2.5 mL	T3DM1200361	3/31/2009 6:24:52 AM 3/31/2009 6:25:05 AM
Titrant Dispenser 2 Syringe volume Firmware version	1.2.1(r2) Water (0.15 M KCI) Acid 0.5 mL 1.2.1(r2)	02-06-2018	2/27/2018 11:05:59 AM 3/31/2009 6:25:11 AM
Titrant Dispenser 1 Syringe volume Firmware version	Acid (0.5 M HCI) Base 0.5 mL 1.2.1(r2)	02-27-2018	2/27/2018 11:27:22 AM 3/31/2009 6:25:21 AM
Titrant Dispenser 5 Syringe volume Firmware version	Base (0.5 M KOH) Cosolvent 2.5 mL 1.2.1(r2)	9/22/2017	2/27/2018 11:21:22 AM 3/31/2009 6:26:24 AM
Distribution valve 5 Firmware version Port A	Distribution Valve 1.1.3 Methanol (80%, 0.15 M KCI)	02-08-2018	3/31/2009 6:28:19 AM 3/6/2018 10:28:59 AM
Port B Dispenser 3 Syringe volume Firmware version	Cyclohexane Buffer 0.5 mL 1.2.1(r2)	11-01-17	2/27/2018 11:37:57 AM 8/3/2010 6:05:16 AM
Titrant Dispenser 6	Dodecane Octanol	2018/01/31	2/28/2018 11:18:04 AM 10/22/2010 11:52:43 AM

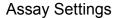


Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Instrument Settings (continued)

Setting	Value 0.5 mL	Batch Id	Install date
Syringe volume Firmware version	1.2.1(r2)		
Titrant	Octanol	01-31-2018	2/27/2018 10:59:35 AM
Titrator			3/31/2009 6:24:17 AM
Horizontal axis firmware version	1.17 Al1Dl2DO2 Stepper 2		
Vertical axis firmware version	1.17 Al1Dl2DO2 Stepper 2		
Chassis I/O firmware version	1.11 Al1DI0DO4 Norgren I/O		
Probe I/O firmware version	1.1.1		
Electrode	T3 Electrode	T3E0923	1/23/2018 3:01:00 PM
E0 calibration	+4.36 mV	1401.007	3/9/2018 9:53:29 PM
Filling solution	3M KCI	KCL097	3/9/2018 11:05:42 AM
Liquids	FOO/ IDA:FOO/ Motor		2/0/2019 11:04:22 AM
Wash 1 Wash 2	50% IPA:50% Water 0.5% Trition X-100 in H20		3/9/2018 11:04:22 AM 3/9/2018 11:04:25 AM
Buffer position 1	pH7 Wash		3/9/2018 11:04:27 AM
Buffer position 2	pH 7		3/9/2018 11:04:30 AM
Storage position	pri 7		3/9/2018 11:05:04 AM
Wash water	5e+003 mL	02-27-2018	2/27/2018 10:54:39 AM
Waste	1.1e+004 mL	0 2	11/28/2017 11:36:29 AM
Temperature controller			8/5/2010 7:35:13 AM
Turbidity detector			3/31/2009 6:24:45 AM
Spectrometer		074811	11/23/2010 12:22:28 PM
Dip probe		10196	
Wavelength coefficient A0	183.333		
Wavelength coefficient A1	2.21568		
Wavelength coefficient A2	-0.000289308		
Total lamp lit time	123:16:41		11/23/2010 12:22:28 PM
Calibrated on	2/27/2018 11:40:38 AM		
Integration time Scans averaged	40 10		
Autoloader	10	T3AL1200345	11/10/2015 10:34:13 AM
Left-right axis firmware version	1.17 Al1Dl2DO2 Stepper 2	10/L1200040	11/10/2013 10.34.13 AW
Front-back axis firmware version	1.17 Al1Dl2DO2 Stepper 2		
Vertical axis firmware version	1.17 Al1Dl2DO2 Stepper 2		
Chassis I/O firmware version	1.11 Al1Dl0DO4 Norgren I/O		
Configuration	•		
Alternate titration position	Titration position		
Alternate reference position	Reference position		
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 20.0 mL		
Flowing wash pump volume 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%		





Assay name: pH-metric high logP Analyst: Pion
Assay ID: 18C-09015 Instrument ID: T312060

Filename: C:\Sirius_T3\Mehtap\20180309_exp31_logP_T3-2\18C-09015_M18_octanol_pH-metric high logP.t3r

Instrument Settings (continued)

Setting	Value	Batch Id	Install date
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	None	None
Turbidity wavelength to assess	500.0 nm	500.0 nm
Turbidity maximum absorbance	0.100	0.100
Turbidity probe threshold	50.00	50.00