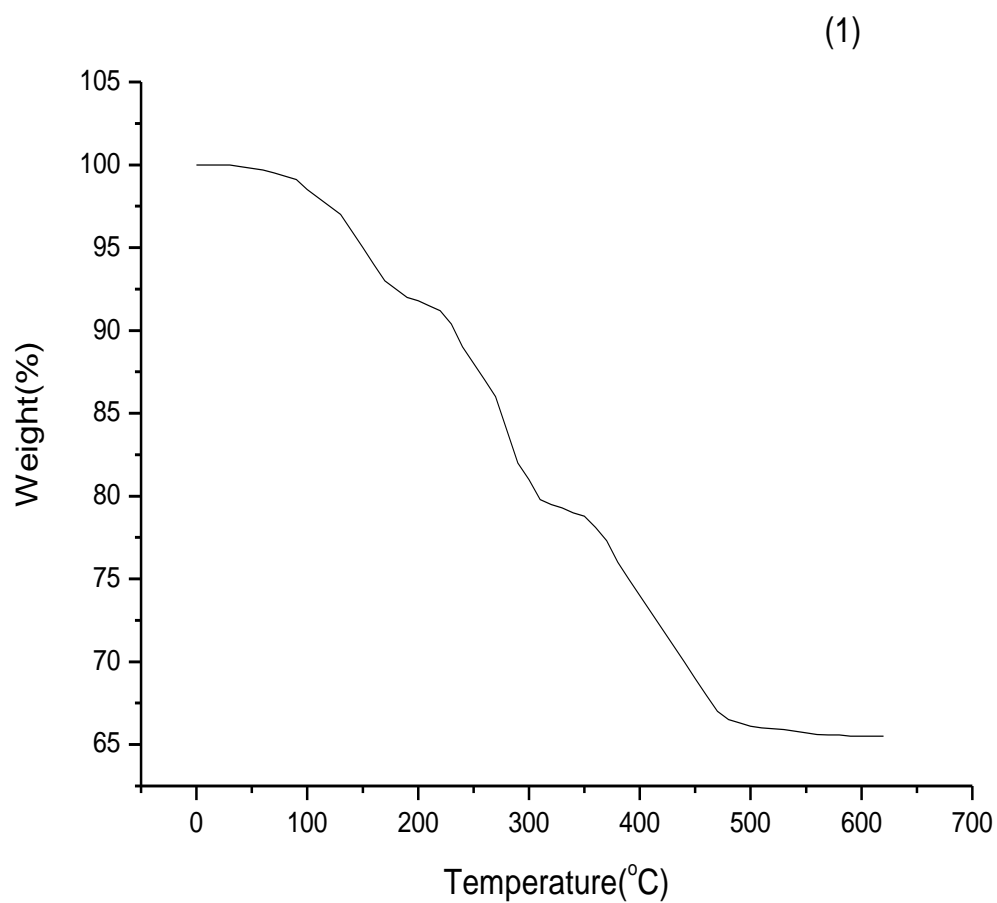


Thermal characterization of $[\text{Zn}(\text{en})\{\text{B}_6\text{O}_7(\text{OH})_6\}]\cdot 2\text{H}_2\text{O}$ (**1**) and $[\text{Zn}(\text{pn})\{\text{B}_6\text{O}_7(\text{OH})_6\}]\cdot 1.5\text{H}_2\text{O}$ (**2**).

TGA plot $[\text{Zn}(\text{en})\{\text{B}_6\text{O}_7(\text{OH})_6\}]\cdot 2\text{H}_2\text{O}$ (**1**) with tabulated data.



File: C:\...\Znen+B Run Date: 28-Jan-16 15:04
Program: Universal V3.7A Run Number: 1

TA Instruments Thermal Analysis -- DSC-TGA Standard

Sample: Znen+B

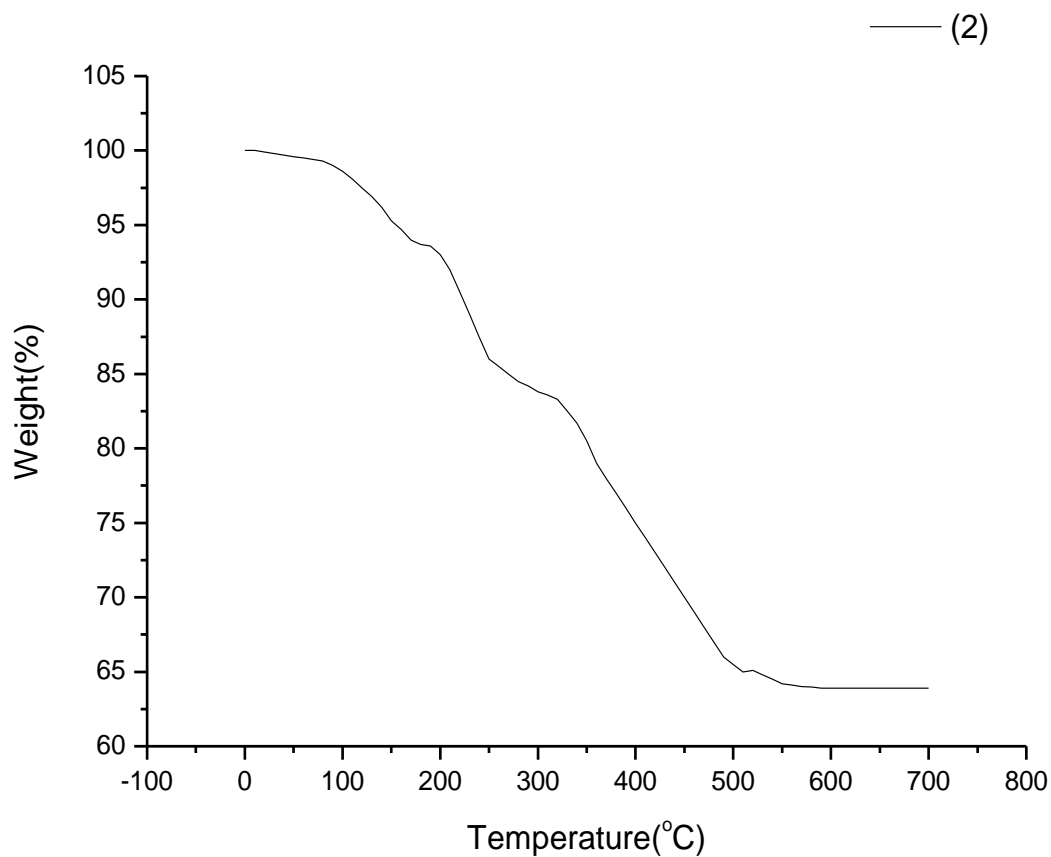
Size: 8.7750 mg
Cell Constant: 1.0000
Operator: Mohammed
Method: Ramp

Exotherm: Up

Temperature °C	Weight %	Heat Flow W/g
0	100	
10	100	
20	100	
30	100	
40	99.9	-0.5424
50	99.8	-0.4553
60	99.7	-0.4136
70	99.5	-0.3363
80	99.3	-0.2732
90	99.1	-0.229
100	98.5	-0.1815
110	98	-0.1315
120	97.5	-0.0826
130	97	-0.02984
140	96	0.02291
150	95	0.06585
160	94	0.09375
170	93	0.108
180	92.5	0.1118
190	92	0.1059
200	91.8	0.08009
210	91.5	0.002503
220	91.2	-0.1716
230	90.4	-0.4192
240	89	-0.5285
250	88	-0.4445
260	87	-0.3321
270	86	-0.2636
280	84	-0.2343
290	82	-0.2285
300	81	-0.2342
310	79.8	-0.2416
320	79.5	-0.237
330	79.3	-0.215
340	79	-0.1609
350	78.8	-0.06941
360	78.1	0.04278
370	77.3	0.134
380	76	0.1985
390	75	0.2444
400	74	0.2652
410	73	0.2659
420	72	0.2587
430	71	0.2513
440	70	0.2536
450	69	0.2627
460	68	0.2568
470	67	0.2224
480	66.5	0.1546
490	66.3	0.05573
500	66.1	-0.06192
510	66	-0.1767

520	65.95	-0.2829
530	65.9	-0.3706
540	65.8	-0.4496
550	65.7	-0.5242
560	65.6	-0.5964
570	65.59	-0.6718
580	65.59	-0.7691
590	65.5	-0.8961
600	65.5	-1.051
610	65.5	-1.209
620	65.5	-1.354

TGA plot $[\text{Zn}(\text{pn})\{\text{B}_6\text{O}_7(\text{OH})_6\}]\cdot 1.5\text{H}_2\text{O}$ (**2**) with tabulated data.



File: C:\...\Znpn+B Run Date: 10-Feb-16 14:10
 Program: Universal V3.7A Run Number: 1

TA Instruments Thermal Analysis -- DSC-TGA Standard

Sample: Znpn+B
 Size: 7.23 mg
 Cell Constant: 1.0000
 Operator: Mohammed
 Method: Ramp

Exotherm: Up

Temperature °C	Weight %	Heat Flow W/g
0	100	
10	100	
20	99.9	-1.216
30	99.8	-0.8054
40	99.7	-0.5424

50	99.6	-0.4553
60	99.5	-0.4136
70	99.4	-0.3363
80	99.3	-0.2732
90	99	-0.229
100	98.6	-0.1815
110	98.1	-0.1315
120	97.5	-0.0826
130	96.9	-0.02984
140	96.2	0.02291
150	95.3	0.06585
160	94.7	0.09375
170	94	0.108
180	93.7	0.1118
190	93.6	0.1059
200	93	0.08009
210	92	0.002503
220	90.5	-0.1716
230	89	-0.4192
240	87.5	-0.5285
250	86	-0.4445
260	85.5	-0.3321
270	85	-0.2636
280	84.5	-0.2343
290	84.2	-0.2285
300	83.8	-0.2342
310	83.6	-0.2416
320	83.3	-0.237
330	82.5	-0.215
340	81.7	-0.1609
350	80.5	-0.06941
360	79	0.04278
370	78	0.134
380	77	0.1985
390	76	0.2444
400	75	0.2652
410	74	0.2659
420	73	0.2587
430	72	0.2513
440	71	0.2536
450	70	0.2627
460	69	0.2568
470	68	0.2224
480	67	0.1546
490	66	0.05573
500	65.5	-0.06192

510	65	-0.1767
520	65.1	-0.2829
530	64.8	-0.3706
540	64.5	-0.4496
550	64.2	-0.5242
560	64.1	-0.5964
570	64	-0.6718
580	63.99	-0.7691
590	63.9	-0.8961
600	63.9	-1.051
610	63.9	-1.209
620	63.9	-1.354
630	63.9	-1.49
640	63.9	-1.622
650	63.9	-1.729
660	63.9	-1.814
670	63.9	-1.901
680	63.9	-1.964
690	63.9	-2.014
700	63.9	-2.035