

Table 1 Selected bond distances (Å) and angles (°) for Na[CL-14·2H₂O]

Bond distances			
Na-O(1)	2.579(4)	Na-O(2)	2.373(4)
Na-O(3)	2.361(4)	Na-O(2)#2	2.624(4)
Na-O(8)#1	2.842(4)	Na-N(3)	2.421(4)
Na-N(3)#1	2.539(4)		
Bond angles			
O(1)-Na-O(2)	80.27(14)	O(1)-Na-O(3)	160.14(17)
O(1)-Na-O(2)#2	118.96(13)	O(1)-Na-O(8)#1	80.20(13)
O(1)-Na-N(3)	60.76(13)	O(1)-Na-N(3)#1	108.80(14)
O(2)-Na-O(3)	94.71(15)	O(2)-Na-O(2)#2	77.21(14)
O(2)-Na-O(8)#1	132.78(15)	O(2)-Na-N(3)	101.82(14)
O(2)-Na-N(3)#1	162.32(16)	O(3)-Na-N(3)	138.94(16)
O(3)-Na-N(3)#1	81.52(14)	O(3)-Na-O(2)#2	77.97(13)
O(3)-Na-O(8)#1	89.60(13)	N(3)-Na-O(2)#2	69.67(13)
N(3)-Na-O(8)#1	105.20(14)	N(3)-Na-N(3)#1	71.41(14)
O(2)#2-Na-O(8)#1	148.86(13)	N(3)#1-Na-O(2)#2	85.11(13)
N(3)#1-Na-O(8)#1	64.71(12)		

Symmetry transformations used to generate equivalent atoms: #1 -x,-y,-z; #2 -x,-y,-z+1.

Table 2 Hydrogen-bond geometry (Å, °).

D-A···H	D-H	H···A	D···A	∠D-A···H
N(3)-H(3B)···O(8)	0.86	2.23	2.890(5)	134
N(3)-H(3B)···N(2)	0.86	2.48	2.818(5)	104
N(5)-H(5A)···O(4)	0.86	1.92	2.576(5)	132
N(5)-H(5A)···N(4)	0.86	2.50	2.833(6)	104
N(5)-H(5B)···O(5)	0.86	1.93	2.586(5)	133
N(5)-H(5B)···N(6)	0.86	2.53	2.861(6)	104
O(3)-H(3D)···O(5)#3	0.85	2.17	2.902(5)	144
O(3)-H(3C)···O(4)#4	0.82	2.37	3.189(5)	175
N(5)-H(5A)···O(6)#5	0.86	2.29	2.932(6)	131

N(5)-H(5B)···N(1)#5	0.86	2.41	3.078(6)	135
O(2)-H(2A)···O(1)#6	0.85	2.10	2.846(5)	145

Symmetry transformations used to generate equivalent atoms: #3-1+x, y, z; #4-x, -1/2+y, 1/2-z; #5 1-x, 1/2+y, 1/2-z; #6 x, 1/2-y, 1/2+z.

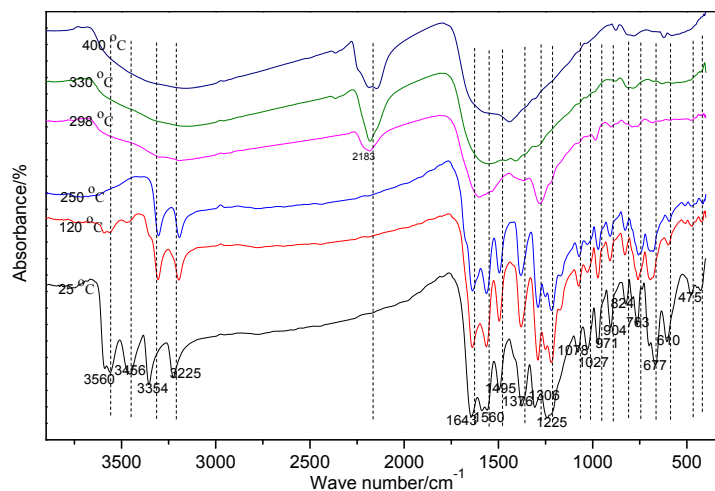


Fig. 1 The FTIR spectrums of the solid residues for Na[CL-14·2H₂O] thermal decomposition under the heating rate of 5 °C /min at different temperatures

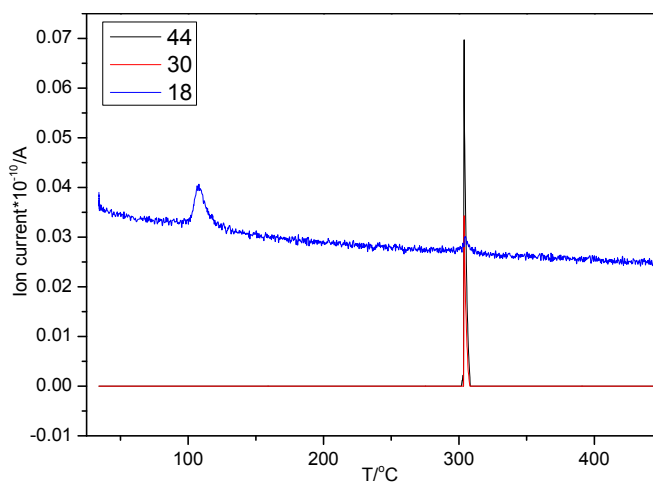


Fig. 2 MS signals of gas products for thermal decomposition of Na[CL-14·2H₂O] with nitrogen atmosphere at the heating rate of 5 °C/min

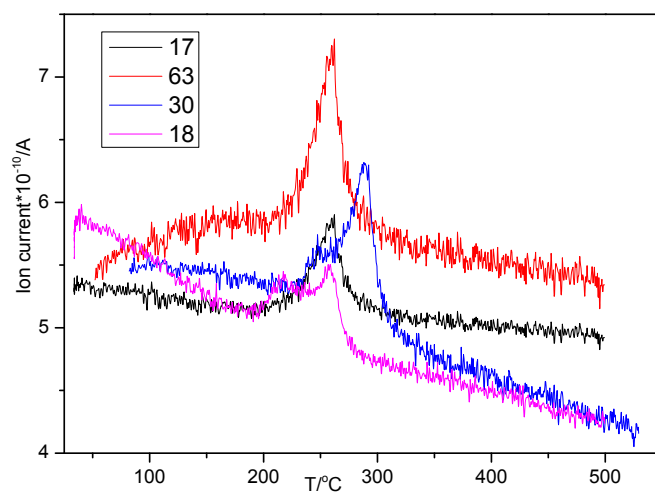


Fig. 3 MS signals of gas products for thermal decomposition of AN/Na[CL-14·2H₂O] with nitrogen atmosphere at the heating rate of 10 °C/min