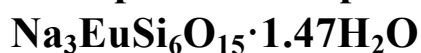


Electronic Supplementary Information

Synthesis, crystal structure, and luminescence properties of a new microporous europium silicate:



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Table S1 Atomic coordinates and equivalent isotropic displacement parameters for $\text{Na}_3\text{EuSi}_6\text{O}_{15}\cdot 1.47\text{H}_2\text{O}$

	x	y	z	U(eq)
Eu(1)	0.0000	0.3692(1)	0.6633(1)	0.007(1)
Si(1)	0.2902(4)	0.4501(1)	0.4131(4)	0.008(1)
Si(2)	0.2906(3)	0.2985(1)	0.9508(4)	0.008(1)
Si(3)	0.0000	0.4162(1)	0.1499(9)	0.007(1)
Si(4)	0.0000	0.3181(1)	0.12607(6)	0.007(1)
Na(1)	0.5000	0.3748(2)	0.6810(30)	0.031(2)
Na(2)	0.2585(16)	0.4618(4)	0.8731(16)	0.033(3)
Na(3)	0.2166(14)	0.2367(3)	0.5278(15)	0.026(2)
O(1)	0.2357(10)	0.4170(2)	0.5757(11)	0.014(2)
O(2)	0.2571(15)	0.5000	0.4809(18)	0.017(2)
O(3)	0.1778(10)	0.4436(2)	0.2170(10)	0.015(2)
O(4)	0.5000	0.4445(3)	0.3583(17)	0.017(2)
O(5)	0.5000	0.2998(3)	0.10223(15)	0.012(2)
O(6)	0.1789(9)	0.3026(2)	0.11461(16)	0.022(2)
O(7)	0.2500	0.2500	0.8602(16)	0.016(2)
O(8)	0.2450(10)	0.3333(2)	0.7953(12)	0.019(2)
O(9)	0.0000	0.3025(3)	0.1472(15)	0.017(2)
O(10)	0.0000	0.3716(3)	0.1277(16)	0.016(2)
O(11)	0.0000	0.4102(3)	-0.662(15)	0.016(2)
O(12W)	0.0000	0.5000	0.8150(30)	0.046(8)
O(13W)	0.0000	0.1919(6)	0.4530(30)	0.090(8)

Table S2 Selected bond lengths [\AA] and angles [deg] for $\text{Na}_3\text{EuSi}_6\text{O}_{15}\cdot 1.47\text{H}_2\text{O}$

Bond	Bond length (\AA)	Bond angle	Values [deg]
Eu(1)-O(11)#5	2.295(10)	O(11)#5-Eu(1)-O(8)	85.6(3)
Eu(1)-O(8)	2.313(7)	O(8)-Eu(1)-O(8)#1	102.6(4)
Eu(1)-O(8)#1	2.313(7)	O(11)#5-Eu(1)-O(1)#1	83.0(2)
Eu(1)-O(1)#1	2.357(7)	O(8)-Eu(1)-O(1)#1	168.1(3)
Eu(1)-O(1)	2.357(7)	O(8)#1-Eu(1)-O(1)#1	80.1(3)
Eu(1)-O(9)#8	2.455(10)	O(1)#1-Eu(1)-O(1)	94.9(4)
Eu(1)-O(10)#8	2.738(11)	O(11)#5-Eu(1)-O(9)#8	156.8(4)
Si(1)-O(1)	1.589(8)	O(8)-Eu(1)-O(9)#8	79.9(2)
Si(1)-O(4)	1.603(4)	O(1)#1-Eu(1)-O(9)#8	112.0(2)
Si(1)-O(2)	1.624(5)	O(11)#5-Eu(1)-O(10)#8	145.1(3)
Si(1)-O(3)	1.631(8)	O(8)-Eu(1)-O(10)#8	114.7(2)
Si(2)-O(5)	1.625(4)	O(1)#1-Eu(1)-O(10)#8	73.7(2)
Si(2)-O(7)	1.648(5)	O(9)#8-Eu(1)-O(10)#8	58.1(3)
Si(2)-O(6)	1.616(10)	O(11)#5-Eu(1)-Si(4)#8	175.5(3)
Si(2)-O(8)	1.571(8)	O(1)-Si(1)-O(4)	110.5(5)
Si(4)-O(6)	1.620(8)	O(1)-Si(1)-O(2)	110.6(5)
Si(4)-O(9)	1.574(12)	O(4)-Si(1)-O(2)	108.5(6)
Si(4)-O(10)	1.646(10)	O(1)-Si(1)-O(3)	114.3(4)
Si(4)-O(6)#1	1.620(8)	O(4)-Si(1)-O(3)	105.7(5)
		O(2)-Si(1)-O(3)	106.9(5)
		O(8)-Si(2)-O(6)	116.0(4)
		O(8)-Si(2)-O(5)	113.9(5)
		O(6)-Si(2)-O(5)	102.3(5)
		O(8)-Si(2)-O(7)	107.6(5)
		O(6)-Si(2)-O(7)	108.2(4)
		O(11)-Si(3)-O(3)#1	110.6(4)
		O(3)#1-Si(3)-O(3)	107.1(6)
		O(11)-Si(3)-O(10)#8	116.5(6)
		O(3)#1-Si(3)-O(10)#8	105.8(4)
		O(9)-Si(4)-O(6)#1	112.8(4)
		O(6)#1-Si(4)-O(6)	108.9(7)
		O(9)-Si(4)-O(10)	103.7(6)
		O(6)#1-Si(4)-O(10)	109.2(3)

Symmetry transformations used to generate equivalent atoms:

#1 -x,y,z #5 x,y,z+1 #8 x,y,z-1

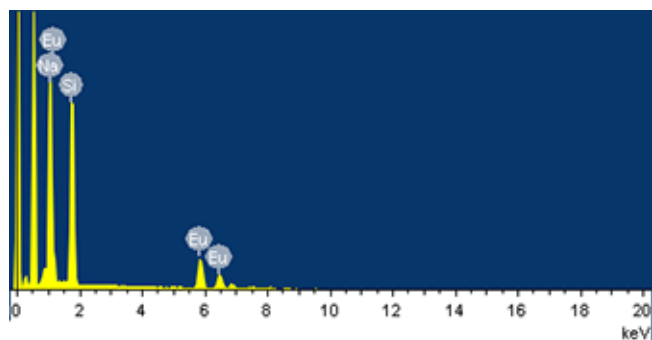


Figure S1 EDS spectrum of **1**.

Table S2 EDS analysis data of **1**

Na	Eu	Si
5.01	1.0	3.99

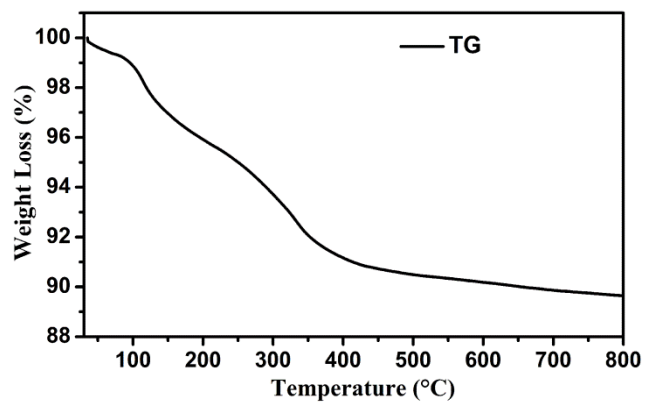


Figure S2 TG analysis result of **1**.