Table 1. Positional (x10^4) and equivalent thermal parameters (x10^3) of the non-H atoms for $\mathbf{K_4[V_2O_2(C_6H_5O_7)_2] \cdot 5.6H_2O}$ **(1)**.

	x	y	z	U(eq)
V(1)	5703(1)	3336(1)	4672(1)	26(1)
K(1)	8001(1)	905(1)	3347(1)	54(1)
K(2)	4140(2)	1042(1)	3599(1)	101(1)
O(3)	5804(2)	5440(2)	4659(1)	24(1)
O(5)	5180(2)	8202(3)	4924(2)	31(1)
O(8)	5679(3)	3336(3)	3619(2)	44(1)
O(9)	7128(3)	2232(3)	5024(2)	46(1)
C(1)	8187(3)	5121(4)	5604(2)	32(1)
O(1)	9068(3)	3880(3)	5983(2)	48(1)
O(2)	7515(3)	6159(4)	5990(2)	53(1)
C(2)	8050(3)	5258(5)	4621(2)	31(1)
C(3)	6693(3)	6174(4)	4254(2)	25(1)
C(4)	6213(3)	7850(4)	4460(2)	29(1)
O(4)	6782(3)	8775(3)	4172(2)	42(1)
C(5)	6735(3)	6281(5)	3258(2)	30(1)
C(6)	5503(3)	7244(4)	2764(2)	29(1)
O(6)	5500(3)	7040(3)	1966(2)	44(1)
O(7)	4609(2)	8171(3)	3101(2)	40(1)
V(2)	9641(1)	1410(1)	556(1)	38(1)
K(3)	7903(1)	1370(2)	7268(1)	78(1)
K(4)	3481(1)	4986(2)	767(1)	72(1)
O(13)	10808(2)	428(3)	-346(2)	33(1)
O(15)	11857(3)	-1512(3)	-1338(2)	41(1)
O(19)	9089(4)	3219(4)	31(3)	74(1)
O(18)	10667(3)	1300(5)	1287(2)	65(1)
C(11)	10459(4)	2608(5)	-2164(2)	37(1)
O(11)	10270(3)	1474(4)	-2352(2)	57(1)
O(12)	10005(3)	4023(3)	-2626(2)	49(1)
C(12)	11300(4)	2483(5)	-1407(2)	37(1)
C(13)	11814(3)	824(4)	-839(2)	33(1)
C(14)	12370(4)	-410(5)	-1427(2)	39(1)
O(14)	13220(3)	-318(4)	-1958(2)	52(1)
C(15)	12854(4)	794(5)	-225(3)	37(1)
C(16)	13445(4)	-766(5)	390(3)	41(1)
O(16)	13874(3)	-644(4)	1113(2)	56(1)
O(17)	13564(5)	-2009(4)	191(3)	96(2)
OW1	6704(4)	4473(5)	7527(3)	66(1)
OW2	6069(4)	4593(6)	1022(3)	78(1)
OW3	4120(5)	1940(5)	1775(4)	98(1)
OW4	9338(6)	3165(7)	2630(4)	104(2)
OW5	9621(9)	-1163(7)	4646(4)	121(3)
OW6	1541(9)	941(9)	3647(5)	95(2)
OW7	1465(13)	3918(14)	1005(12)	84(4)

E.s.d.s are given in parentheses. U(eq) (Å^2) is defined as one third of the trace of the orthogonalized Uij tensor.

Table 2. Anisotropic thermal parameters ($x10^3$) of the non-H atoms for **1**.

	U11	U22	U33	U23	U13	U12
V(1)	26(1)	23(1)	26(1)	-7(1)	2(1)	-7(1)
K(1)	53(1)	58(1)	50(1)	-22(1)	1(1)	-11(1)
K(2)	141(1)	42(1)	105(1)	-29(1)	-86(1)	11(1)
O(3)	25(1)	24(1)	25(1)	-5(1)	3(1)	-10(1)
O(5)	35(1)	25(1)	34(1)	-6(1)	-2(1)	-11(1)
O(8)	61(2)	46(2)	34(1)	-16(1)	11(1)	-26(1)
O(9)	31(1)	32(1)	69(2)	-5(1)	-3(1)	-4(1)
C(1)	29(2)	37(2)	29(2)	-1(2)	-9(1)	-9(2)
O(1)	48(2)	49(2)	35(1)	-3(1)	-21(1)	2(1)
O(2)	62(2)	50(2)	35(2)	-11(1)	-15(1)	2(2)
C(2)	25(2)	37(2)	27(2)	-1(2)	-5(1)	-9(2)
C(3)	23(2)	30(2)	22(2)	1(1)	-3(1)	-11(1)
C(4)	31(2)	30(2)	25(2)	3(1)	-9(1)	-13(1)
O(4)	46(2)	37(1)	47(2)	-1(1)	-2(1)	-23(1)
C(5)	27(2)	38(2)	22(2)	-2(1)	-1(1)	-8(2)
C(6)	31(2)	30(2)	25(2)	-2(1)	-5(1)	-12(1)
O(6)	47(2)	47(2)	28(1)	-8(1)	-14(1)	0(1)
O(7)	35(1)	47(2)	34(1)	-10(1)	-9(1)	-4(1)
V(2)	41(1)	40(1)	37(1)	-9(1)	4(1)	-19(1)
K(3)	41(1)	74(1)	127(1)	-31(1)	-12(1)	-20(1)
K(4)	99(1)	65(1)	54(1)	-7(1)	-3(1)	-34(1)
O(13)	37(1)	39(1)	26(1)	-2(1)	1(1)	-19(1)
O(15)	41(1)	48(2)	35(1)	-11(1)	2(1)	-14(1)
O(19)	79(2)	39(2)	90(3)	-2(2)	29(2)	-15(2)
O(18)	57(2)	110(3)	52(2)	-37(2)	9(2)	-47(2)
C(11)	33(2)	45(2)	31(2)	4(2)	-6(1)	-16(2)
O(11)	62(2)	53(2)	57(2)	5(1)	-32(2)	-23(2)
O(12)	57(2)	45(2)	40(2)	6(1)	-23(1)	-15(1)
C(12)	38(2)	48(2)	27(2)	6(2)	-7(2)	-23(2)
C(13)	31(2)	44(2)	23(2)	4(1)	-5(1)	-18(2)
C(14)	33(2)	54(2)	26(2)	-1(2)	-6(2)	-14(2)
O(14)	41(2)	78(2)	38(2)	-10(1)	8(1)	-24(2)
C(15)	37(2)	47(2)	28(2)	2(2)	-10(2)	-18(2)
C(16)	43(2)	46(2)	35(2)	2(2)	-16(2)	-16(2)
O(16)	66(2)	53(2)	37(2)	-5(1)	-29(1)	-3(2)
O(17)	154(4)	48(2)	83(3)	7(2)	-78(3)	-27(2)
OW1	76(2)	72(2)	56(2)	-12(2)	11(2)	-35(2)
OW2	88(3)	63(2)	64(2)	-28(2)	-22(2)	12(2)
OW3	108(4)	66(3)	114(4)	-16(2)	3(3)	-22(3)
OW4	125(4)	103(4)	97(4)	-52(3)	31(3)	-42(3)
OW5	174(7)	65(4)	76(4)	-34(3)	-56(5)	40(4)
OW6	140(7)	72(4)	71(4)	-25(4)	24(4)	-34(5)
OW7	71(8)	43(6)	146(14)	-24(7)	-4(8)	-25(6)

E.s.d.s are given in parentheses.

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Table 3. Positional ($x10^4$) and isotropic thermal parameters ($x10^3$) of the refined hydrogen atoms for **1**.

	x	y	z	U(eq)
HO12	9661(97)	4037(117)	-3140(67)	158(37)
HO16	14890(75)	-2320(90)	1645(51)	109(25)
H(2A)	8321(41)	4312(56)	4487(28)	39(11)
H(2B)	8613(45)	5811(54)	4338(30)	46(12)
H(5A)	6982(37)	5432(50)	3151(25)	25(10)
H(5B)	7387(38)	6870(47)	3031(26)	33(10)
H(12A)	10825(41)	3164(50)	-1068(29)	35(11)
H(12B)	11996(43)	2742(50)	-1669(29)	40(11)
H(15A)	12499(43)	1536(54)	118(30)	40(11)
H(15B)	13487(48)	770(55)	-564(32)	46(13)
HW1A	7005(63)	5053(77)	7085(44)	84(20)
HW2A	6145(61)	5093(77)	1405(45)	77(19)
HW2B	6620(56)	3791(72)	1172(36)	57(16)
HW3A	3032(27)	2193(31)	1782(17)	0(6)
HW4A	9757(133)	3331(164)	2138(89)	232(62)

E.s.d.s are given in parentheses. U(eq) (Å^2) is defined as one third of the trace of the orthogonalized Uij tensor.

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Table 4. Bond lengths [Å] and angles [deg] for **1**.

V(1)-O(9)	1.618(3)
V(1)-O(8)	1.634(3)
V(1)-O(5)#1	1.966(2)
V(1)-O(3)	1.970(2)
V(1)-O(3)#1	2.017(2)
V(1)-K(1)	3.5912(13)
V(1)-K(2)	3.808(2)
K(1)-OW5	2.742(6)
K(1)-O(4)#2	2.809(3)
K(1)-O(8)	2.840(3)
K(1)-O(14)#3	2.849(3)
K(1)-OW4	2.955(6)
K(1)-O(11)#3	2.982(4)
K(1)-O(9)	3.047(3)
K(1)-O(15)#3	3.058(3)
K(1)-C(14)#3	3.172(4)
K(1)-K(2)	4.235(3)
K(1)-K(3)#4	4.427(2)
K(2)-O(5)#1	2.741(3)
K(2)-O(2)#1	2.762(3)
K(2)-O(7)#2	2.762(3)
K(2)-OW3	2.784(6)
K(2)-O(5)#2	2.913(3)
K(2)-OW6	2.912(10)
K(2)-O(4)#2	3.022(3)
K(2)-O(8)	3.141(3)
K(2)-C(4)#2	3.145(3)
K(2)-C(4)#1	3.320(4)
K(2)-K(3)#5	4.110(2)
O(3)-C(3)	1.425(4)
O(3)-V(1)#1	2.017(2)
O(5)-C(4)	1.290(4)
O(5)-V(1)#1	1.966(2)
O(5)-K(2)#1	2.741(3)
O(5)-K(2)#6	2.913(3)
C(1)-O(2)	1.225(5)
C(1)-O(1)	1.282(4)
C(1)-C(2)	1.518(5)
O(1)-K(3)	3.294(4)
O(2)-K(2)#1	2.762(3)
C(2)-C(3)	1.533(4)
C(3)-C(5)	1.527(4)
C(3)-C(4)	1.537(5)
C(4)-O(4)	1.224(4)
C(4)-K(2)#6	3.145(3)
C(4)-K(2)#1	3.320(4)
O(4)-K(1)#6	2.809(3)

O(4)-K(2)#6	3.022(3)
C(5)-C(6)	1.508(5)
C(6)-O(7)	1.228(4)
C(6)-O(6)	1.288(4)
O(7)-K(3)#1	2.753(3)
O(7)-K(2)#6	2.762(3)
V(2)-O(19)	1.622(3)
V(2)-O(18)	1.624(3)
V(2)-O(13)	1.974(3)
V(2)-O(15)#3	1.977(3)
V(2)-O(13)#3	2.005(3)
K(3)-OW6#5	2.659(7)
K(3)-O(7)#1	2.753(3)
K(3)-O(11)#7	2.766(3)
K(3)-OW1	2.798(4)
K(3)-O(18)#4	3.029(4)
K(3)-O(16)#4	3.195(4)
K(3)-K(2)#5	4.110(2)
K(3)-K(1)#4	4.427(2)
K(3)-K(4)#1	4.765(2)
K(4)-OW7	2.713(13)
K(4)-OW2#8	2.758(5)
K(4)-O(17)#9	2.759(4)
K(4)-OW1#1	2.768(4)
K(4)-OW3	2.798(5)
K(4)-OW2	2.812(5)
K(4)-O(19)#8	2.968(5)
K(4)-K(4)#8	3.996(3)
K(4)-K(3)#1	4.765(2)
O(13)-C(13)	1.420(4)
O(13)-V(2)#3	2.005(3)
O(15)-C(14)	1.303(5)
O(15)-V(2)#3	1.977(3)
O(15)-K(1)#3	3.058(3)
O(19)-K(4)#8	2.968(5)
O(18)-K(3)#4	3.029(4)
C(11)-O(11)	1.221(5)
C(11)-O(12)	1.298(5)
C(11)-C(12)	1.510(5)
O(11)-K(3)#10	2.766(3)
O(11)-K(1)#3	2.982(4)
C(12)-C(13)	1.537(5)
C(13)-C(15)	1.534(5)
C(13)-C(14)	1.533(6)
C(14)-O(14)	1.223(5)
C(14)-K(1)#3	3.172(4)
O(14)-K(1)#3	2.849(3)
C(15)-C(16)	1.513(5)
C(16)-O(17)	1.203(6)
C(16)-O(16)	1.286(5)
O(16)-K(3)#4	3.195(4)

O(17)-K(4)#11	2.759(4)
OW1-K(4)#1	2.768(4)
OW2-K(4)#8	2.758(5)
OW6-K(3)#5	2.659(7)

O(9)-V(1)-O(8)	106.9(2)
O(9)-V(1)-O(5)#1	98.08(12)
O(8)-V(1)-O(5)#1	97.55(12)
O(9)-V(1)-O(3)	100.25(12)
O(8)-V(1)-O(3)	101.16(12)
O(5)#1-V(1)-O(3)	148.61(10)
O(9)-V(1)-O(3)#1	129.11(13)
O(8)-V(1)-O(3)#1	123.96(13)
O(5)#1-V(1)-O(3)#1	77.75(9)
O(3)-V(1)-O(3)#1	70.91(10)
O(9)-V(1)-K(1)	57.57(12)
O(8)-V(1)-K(1)	50.28(11)
O(5)#1-V(1)-K(1)	94.69(8)
O(3)-V(1)-K(1)	116.65(7)
O(3)#1-V(1)-K(1)	170.22(7)
O(9)-V(1)-K(2)	110.77(11)
O(8)-V(1)-K(2)	54.06(10)
O(5)#1-V(1)-K(2)	43.57(8)
O(3)-V(1)-K(2)	144.46(7)
O(3)#1-V(1)-K(2)	100.46(7)
K(1)-V(1)-K(2)	69.77(4)
OW5-K(1)-O(4)#2	73.0(2)
OW5-K(1)-O(8)	125.5(2)
O(4)#2-K(1)-O(8)	86.47(9)
OW5-K(1)-O(14)#3	130.2(2)
O(4)#2-K(1)-O(14)#3	75.00(9)
O(8)-K(1)-O(14)#3	88.93(9)
OW5-K(1)-OW4	103.5(3)
O(4)#2-K(1)-OW4	175.15(13)
O(8)-K(1)-OW4	92.99(13)
O(14)#3-K(1)-OW4	109.82(13)
OW5-K(1)-O(11)#3	78.23(14)
O(4)#2-K(1)-O(11)#3	91.49(9)
O(8)-K(1)-O(11)#3	153.89(9)
O(14)#3-K(1)-O(11)#3	65.48(9)
OW4-K(1)-O(11)#3	91.11(12)
OW5-K(1)-O(9)	74.33(14)
O(4)#2-K(1)-O(9)	81.14(8)
O(8)-K(1)-O(9)	52.55(8)
O(14)#3-K(1)-O(9)	135.81(9)
OW4-K(1)-O(9)	94.70(11)
O(11)#3-K(1)-O(9)	152.55(8)
OW5-K(1)-O(15)#3	133.5(2)
O(4)#2-K(1)-O(15)#3	117.84(8)
O(8)-K(1)-O(15)#3	100.86(8)
O(14)#3-K(1)-O(15)#3	44.05(8)

OW4-K(1)-O(15)#3	67.00(12)
O(11)#3-K(1)-O(15)#3	57.48(8)
O(9)-K(1)-O(15)#3	148.29(8)
OW5-K(1)-C(14)#3	128.04(14)
O(4)#2-K(1)-C(14)#3	93.87(10)
O(8)-K(1)-C(14)#3	102.65(9)
O(14)#3-K(1)-C(14)#3	22.63(9)
OW4-K(1)-C(14)#3	90.96(13)
O(11)#3-K(1)-C(14)#3	51.47(9)
O(9)-K(1)-C(14)#3	154.76(9)
O(15)#3-K(1)-C(14)#3	24.05(9)
OW5-K(1)-V(1)	99.5(2)
O(4)#2-K(1)-V(1)	80.03(7)
O(8)-K(1)-V(1)	26.26(6)
O(14)#3-K(1)-V(1)	111.38(7)
OW4-K(1)-V(1)	97.38(10)
O(11)#3-K(1)-V(1)	171.51(7)
O(9)-K(1)-V(1)	26.63(5)
O(15)#3-K(1)-V(1)	126.41(6)
C(14)#3-K(1)-V(1)	128.18(8)
OW5-K(1)-K(2)	115.0(2)
O(4)#2-K(1)-K(2)	45.44(6)
O(8)-K(1)-K(2)	47.87(6)
O(14)#3-K(1)-K(2)	59.55(6)
OW4-K(1)-K(2)	136.18(13)
O(11)#3-K(1)-K(2)	115.84(7)
O(9)-K(1)-K(2)	77.16(6)
O(15)#3-K(1)-K(2)	97.87(6)
C(14)#3-K(1)-K(2)	81.74(7)
V(1)-K(1)-K(2)	57.52(3)
OW5-K(1)-K(3)#4	60.5(2)
O(4)#2-K(1)-K(3)#4	113.94(7)
O(8)-K(1)-K(3)#4	158.91(7)
O(14)#3-K(1)-K(3)#4	101.06(7)
OW4-K(1)-K(3)#4	66.21(12)
O(11)#3-K(1)-K(3)#4	37.89(6)
O(9)-K(1)-K(3)#4	122.65(6)
O(15)#3-K(1)-K(3)#4	74.98(6)
C(14)#3-K(1)-K(3)#4	82.05(7)
V(1)-K(1)-K(3)#4	147.22(3)
K(2)-K(1)-K(3)#4	152.39(4)
O(5)#1-K(2)-O(2)#1	65.92(8)
O(5)#1-K(2)-O(7)#2	131.60(8)
O(2)#1-K(2)-O(7)#2	151.56(12)
O(5)#1-K(2)-OW3	140.27(14)
O(2)#1-K(2)-OW3	98.72(12)
O(7)#2-K(2)-OW3	79.40(12)
O(5)#1-K(2)-O(5)#2	69.92(8)
O(2)#1-K(2)-O(5)#2	122.63(10)
O(7)#2-K(2)-O(5)#2	62.46(8)
OW3-K(2)-O(5)#2	138.43(12)

O(5)#1-K(2)-OW6	114.1(2)
O(2)#1-K(2)-OW6	71.9(2)
O(7)#2-K(2)-OW6	79.9(2)
OW3-K(2)-OW6	93.1(2)
O(5)#2-K(2)-OW6	95.7(2)
O(5)#1-K(2)-O(4)#2	71.48(8)
O(2)#1-K(2)-O(4)#2	136.52(9)
O(7)#2-K(2)-O(4)#2	68.70(8)
OW3-K(2)-O(4)#2	108.67(14)
O(5)#2-K(2)-O(4)#2	43.83(7)
OW6-K(2)-O(4)#2	136.9(2)
O(5)#1-K(2)-O(8)	54.49(7)
O(2)#1-K(2)-O(8)	70.94(10)
O(7)#2-K(2)-O(8)	136.48(11)
OW3-K(2)-O(8)	86.16(13)
O(5)#2-K(2)-O(8)	109.69(8)
OW6-K(2)-O(8)	142.2(2)
O(4)#2-K(2)-O(8)	77.77(9)
O(5)#1-K(2)-C(4)#2	77.82(8)
O(2)#1-K(2)-C(4)#2	141.33(10)
O(7)#2-K(2)-C(4)#2	55.14(8)
OW3-K(2)-C(4)#2	118.28(13)
O(5)#2-K(2)-C(4)#2	24.19(8)
OW6-K(2)-C(4)#2	114.1(2)
O(4)#2-K(2)-C(4)#2	22.79(8)
O(8)-K(2)-C(4)#2	99.13(9)
O(5)#1-K(2)-C(4)#1	22.02(8)
O(2)#1-K(2)-C(4)#1	52.90(8)
O(7)#2-K(2)-C(4)#1	133.15(10)
OW3-K(2)-C(4)#1	147.42(12)
O(5)#2-K(2)-C(4)#1	72.73(8)
OW6-K(2)-C(4)#1	92.1(2)
O(4)#2-K(2)-C(4)#1	88.74(9)
O(8)-K(2)-C(4)#1	70.47(8)
C(4)#2-K(2)-C(4)#1	88.44(10)
O(5)#1-K(2)-V(1)	29.62(5)
O(2)#1-K(2)-V(1)	64.81(8)
O(7)#2-K(2)-V(1)	142.61(7)
OW3-K(2)-V(1)	110.79(12)
O(5)#2-K(2)-V(1)	92.25(6)
OW6-K(2)-V(1)	132.8(2)
O(4)#2-K(2)-V(1)	74.02(6)
O(8)-K(2)-V(1)	24.91(5)
C(4)#2-K(2)-V(1)	90.23(7)
C(4)#1-K(2)-V(1)	46.60(6)
O(5)#1-K(2)-K(3)#5	143.42(9)
O(2)#1-K(2)-K(3)#5	110.04(9)
O(7)#2-K(2)-K(3)#5	41.73(6)
OW3-K(2)-K(3)#5	75.59(11)
O(5)#2-K(2)-K(3)#5	85.51(6)
OW6-K(2)-K(3)#5	40.13(14)

O(4)#2-K(2)-K(3)#5	109.11(6)
O(8)-K(2)-K(3)#5	161.70(8)
C(4)#2-K(2)-K(3)#5	90.86(7)
C(4)#1-K(2)-K(3)#5	125.46(9)
V(1)-K(2)-K(3)#5	171.95(7)
C(3)-O(3)-V(1)	131.5(2)
C(3)-O(3)-V(1)#1	119.3(2)
V(1)-O(3)-V(1)#1	109.09(10)
C(4)-O(5)-V(1)#1	121.1(2)
C(4)-O(5)-K(2)#1	105.1(2)
V(1)#1-O(5)-K(2)#1	106.81(11)
C(4)-O(5)-K(2)#6	88.0(2)
V(1)#1-O(5)-K(2)#6	123.69(11)
K(2)#1-O(5)-K(2)#6	110.07(8)
V(1)-O(8)-K(1)	103.46(14)
V(1)-O(8)-K(2)	101.03(12)
K(1)-O(8)-K(2)	90.02(9)
V(1)-O(9)-K(1)	95.80(14)
O(2)-C(1)-O(1)	123.4(3)
O(2)-C(1)-C(2)	121.2(3)
O(1)-C(1)-C(2)	115.3(3)
C(1)-O(1)-K(3)	112.7(2)
C(1)-O(2)-K(2)#1	164.4(3)
C(1)-C(2)-C(3)	115.0(3)
O(3)-C(3)-C(5)	111.7(3)
O(3)-C(3)-C(2)	110.9(3)
C(5)-C(3)-C(2)	108.4(3)
O(3)-C(3)-C(4)	106.1(2)
C(5)-C(3)-C(4)	109.1(3)
C(2)-C(3)-C(4)	110.6(3)
O(4)-C(4)-O(5)	123.8(3)
O(4)-C(4)-C(3)	120.5(3)
O(5)-C(4)-C(3)	115.7(3)
O(4)-C(4)-K(2)#6	73.0(2)
O(5)-C(4)-K(2)#6	67.8(2)
C(3)-C(4)-K(2)#6	133.6(2)
O(4)-C(4)-K(2)#1	90.9(2)
O(5)-C(4)-K(2)#1	52.9(2)
C(3)-C(4)-K(2)#1	128.9(2)
K(2)#6-C(4)-K(2)#1	91.56(10)
C(4)-O(4)-K(1)#6	174.4(2)
C(4)-O(4)-K(2)#6	84.2(2)
K(1)#6-O(4)-K(2)#6	93.08(9)
C(6)-C(5)-C(3)	116.5(3)
O(7)-C(6)-O(6)	124.0(3)
O(7)-C(6)-C(5)	121.7(3)
O(6)-C(6)-C(5)	114.3(3)
C(6)-O(7)-K(3)#1	121.2(2)
C(6)-O(7)-K(2)#6	136.1(2)
K(3)#1-O(7)-K(2)#6	96.36(9)
O(19)-V(2)-O(18)	108.5(2)

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O(19)-V(2)-O(13)	99.9(2)
O(18)-V(2)-O(13)	100.79(14)
O(19)-V(2)-O(15)#3	96.4(2)
O(18)-V(2)-O(15)#3	98.41(14)
O(13)-V(2)-O(15)#3	149.27(11)
O(19)-V(2)-O(13)#3	127.0(2)
O(18)-V(2)-O(13)#3	124.5(2)
O(13)-V(2)-O(13)#3	71.17(11)
O(15)#3-V(2)-O(13)#3	78.20(11)
OW6#5-K(3)-O(7)#1	84.6(2)
OW6#5-K(3)-O(11)#7	104.3(2)
O(7)#1-K(3)-O(11)#7	169.80(11)
OW6#5-K(3)-OW1	154.0(2)
O(7)#1-K(3)-OW1	79.24(10)
O(11)#7-K(3)-OW1	90.66(11)
OW6#5-K(3)-O(18)#4	82.8(2)
O(7)#1-K(3)-O(18)#4	120.00(10)
O(11)#7-K(3)-O(18)#4	66.82(9)
OW1-K(3)-O(18)#4	122.95(12)
OW6#5-K(3)-O(16)#4	108.1(2)
O(7)#1-K(3)-O(16)#4	62.81(8)
O(11)#7-K(3)-O(16)#4	117.59(10)
OW1-K(3)-O(16)#4	82.38(11)
O(18)#4-K(3)-O(16)#4	66.30(9)
OW6#5-K(3)-O(1)	101.5(2)
O(7)#1-K(3)-O(1)	113.49(9)
O(11)#7-K(3)-O(1)	60.43(8)
OW1-K(3)-O(1)	67.40(10)
O(18)#4-K(3)-O(1)	126.49(8)
O(16)#4-K(3)-O(1)	149.41(9)
OW6#5-K(3)-K(2)#5	44.9(2)
O(7)#1-K(3)-K(2)#5	41.91(6)
O(11)#7-K(3)-K(2)#5	147.99(9)
OW1-K(3)-K(2)#5	121.03(9)
O(18)#4-K(3)-K(2)#5	95.92(7)
O(16)#4-K(3)-K(2)#5	74.70(7)
O(1)-K(3)-K(2)#5	124.64(7)
OW6#5-K(3)-K(1)#4	63.0(2)
O(7)#1-K(3)-K(1)#4	146.59(7)
O(11)#7-K(3)-K(1)#4	41.45(8)
OW1-K(3)-K(1)#4	127.05(9)
O(18)#4-K(3)-K(1)#4	66.56(7)
O(16)#4-K(3)-K(1)#4	132.78(7)
O(1)-K(3)-K(1)#4	68.55(6)
K(2)#5-K(3)-K(1)#4	107.63(5)
OW6#5-K(3)-K(4)#1	170.2(2)
O(7)#1-K(3)-K(4)#1	90.52(7)
O(11)#7-K(3)-K(4)#1	81.35(9)
OW1-K(3)-K(4)#1	30.91(8)
O(18)#4-K(3)-K(4)#1	92.36(8)
O(16)#4-K(3)-K(4)#1	62.11(7)

O(1)-K(3)-K(4)#1	88.28(6)
K(2)#5-K(3)-K(4)#1	127.86(5)
K(1)#4-K(3)-K(4)#1	122.72(3)
OW7-K(4)-OW2#8	105.4(4)
OW7-K(4)-O(17)#9	130.8(3)
OW2#8-K(4)-O(17)#9	71.27(14)
OW7-K(4)-OW1#1	91.8(4)
OW2#8-K(4)-OW1#1	159.05(14)
O(17)#9-K(4)-OW1#1	88.54(13)
OW7-K(4)-OW3	67.3(3)
OW2#8-K(4)-OW3	120.1(2)
O(17)#9-K(4)-OW3	157.9(2)
OW1#1-K(4)-OW3	77.21(14)
OW7-K(4)-OW2	151.5(3)
OW2#8-K(4)-OW2	88.34(13)
O(17)#9-K(4)-OW2	77.1(2)
OW1#1-K(4)-OW2	81.56(12)
OW3-K(4)-OW2	84.2(2)
OW7-K(4)-O(19)#8	56.3(3)
OW2#8-K(4)-O(19)#8	75.57(12)
O(17)#9-K(4)-O(19)#8	76.34(12)
OW1#1-K(4)-O(19)#8	105.65(12)
OW3-K(4)-O(19)#8	123.50(14)
OW2-K(4)-O(19)#8	152.18(13)
OW7-K(4)-K(4)#8	143.3(3)
OW2#8-K(4)-K(4)#8	44.71(10)
O(17)#9-K(4)-K(4)#8	67.70(13)
OW1#1-K(4)-K(4)#8	122.78(10)
OW3-K(4)-K(4)#8	105.97(12)
OW2-K(4)-K(4)#8	43.63(9)
O(19)#8-K(4)-K(4)#8	116.78(9)
OW7-K(4)-K(3)#1	97.2(3)
OW2#8-K(4)-K(3)#1	131.81(11)
O(17)#9-K(4)-K(3)#1	61.82(11)
OW1#1-K(4)-K(3)#1	31.29(9)
OW3-K(4)-K(3)#1	107.74(12)
OW2-K(4)-K(3)#1	91.40(9)
O(19)#8-K(4)-K(3)#1	83.12(9)
K(4)#8-K(4)-K(3)#1	118.52(5)
OW7-K(4)-K(2)	71.5(3)
OW2#8-K(4)-K(2)	145.34(10)
O(17)#9-K(4)-K(2)	137.68(9)
OW1#1-K(4)-K(2)	51.54(9)
OW3-K(4)-K(2)	25.72(11)
OW2-K(4)-K(2)	82.94(10)
O(19)#8-K(4)-K(2)	122.89(8)
K(4)#8-K(4)-K(2)	118.77(6)
K(3)#1-K(4)-K(2)	82.07(4)
C(13)-O(13)-V(2)	131.7(2)
C(13)-O(13)-V(2)#3	119.5(2)
V(2)-O(13)-V(2)#3	108.83(11)

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C(14)-O(15)-V(2)#3	119.8(2)
C(14)-O(15)-K(1)#3	82.9(2)
V(2)#3-O(15)-K(1)#3	129.76(12)
V(2)-O(19)-K(4)#8	129.3(2)
V(2)-O(18)-K(3)#4	131.7(2)
O(11)-C(11)-O(12)	122.9(3)
O(11)-C(11)-C(12)	123.3(3)
O(12)-C(11)-C(12)	113.7(3)
C(11)-O(11)-K(3)#10	125.4(3)
C(11)-O(11)-K(1)#3	127.5(3)
K(3)#10-O(11)-K(1)#3	100.66(11)
C(11)-C(12)-C(13)	114.3(3)
O(13)-C(13)-C(15)	110.7(3)
O(13)-C(13)-C(14)	106.5(3)
C(15)-C(13)-C(14)	110.4(3)
O(13)-C(13)-C(12)	110.8(3)
C(15)-C(13)-C(12)	108.3(3)
C(14)-C(13)-C(12)	110.1(3)
O(14)-C(14)-O(15)	123.3(4)
O(14)-C(14)-C(13)	120.9(4)
O(15)-C(14)-C(13)	115.8(3)
O(14)-C(14)-K(1)#3	63.7(2)
O(15)-C(14)-K(1)#3	73.0(2)
C(13)-C(14)-K(1)#3	139.4(2)
C(14)-O(14)-K(1)#3	93.7(2)
C(16)-C(15)-C(13)	114.7(3)
O(17)-C(16)-O(16)	123.4(4)
O(17)-C(16)-C(15)	122.4(4)
O(16)-C(16)-C(15)	114.1(4)
C(16)-O(16)-K(3)#4	110.8(3)
C(16)-O(17)-K(4)#11	146.0(4)
K(4)#1-OW1-K(3)	117.8(2)
K(4)#8-OW2-K(4)	91.66(13)
K(2)-OW3-K(4)	128.4(2)
K(3)#5-OW6-K(2)	95.0(3)

Symmetry transformations used to generate equivalent atoms:

#1 -x+1,-y+1,-z+1	#2 x,y-1,z	#3 -x+2,-y,-z
#4 -x+2,-y,-z+1	#5 -x+1,-y,-z+1	#6 x,y+1,z
#7 x,y,z+1	#8 -x+1,-y+1,-z	#9 x-1,y+1,z
#10 x,y,z-1	#11 x+1,y-1,z	