Supporting Information

An Isolated Doughnut-like Molybdenum(V) Cobaltophosphate Cluster Displaying Excellent Photocatalytic Performance of Carbon Dioxide Conversion

Cheng Li,^{a, #} Heng-Yu Jiang,^{b, #} Ji-Lei Wang,^a Run-Kun Kang,^a Hua Mei ^{a,†} and Yan Xu^{a,†}

^a College of Chemical Engineering, State Key Laboratory of Materials-Oriented Chemical Engineering, Nanjing Tech University, Nanjing 210009, P. R. China

^b College of Food Science and Light Industry, Nanjing Tech University, Nanjing 211816, P. R. China

Corresponding Author* yanxu@njtech.edu.cn

1.Experimental section

1.1 Materials and analytical methods

All the starting chemicals were commercially available and used with no further purification. PXRD analysis (5–50°) of the compound was performed on Bruker D8X diffractometer with the monochromatized Cu-K α ($\lambda = 0.15418$ nm) radiation. IR spectra (4000–400 cm⁻¹) were recorded by a Nicolet Impact 410 FTIR spectrometer using pressed KBr pellets. TG measurement (25–1000 °C) was carried out on a Diamond thermogravimetric analyzer in flowing N₂ atmosphere, with a heating rate of 10 °C min⁻¹. The UV-Vis diffuse reflectance spectrum ($\lambda = 200-800$ nm) was investigated on SHIMADZU UV-2600 spectrophotometer with BaSO₄ as reference. Mott-Schottky plots were measured by a CHI 440 electrochemical quartz crystal microbalance that was connected to a Digital-586 personal computer.

1.2 Preparation of [Co@{Co₁₆Mo₁₆}]

 $Co(CH_3COO)_2$ ·4H₂O (0.5 mmol, 0.1245 g), MoO₃ (0.5 mmol, 0.0719 g) and 4phenylpyridine (0.4 mmol, 0.066 g) were dissolved in a mixed solution of 1 mL tetrabutylammonium hydroxide, 4mL distilled water and 4 mL ethanol. The mixture was magnetic stirred for 30 min at room temperature, adjust the pH value of the mixture to about 3.5 with 85% H₃PO₄, and then continue to stir 120 min. The suspension was sealed into a stainless-steel autoclave with 25 mL Teflon-lined and maintained the temperature at 180 °C for 5 days. After falling to room temperature, yellow-brown diamond crystals were obtained by washing and filtering with distilled water. The yield of [Co@{Co₁₆Mo₁₆}] is 32% (based on Mo). Elemental analysis result (%): C,4.07; H,2.12; N,0.45. (Calcd (%):C, 3.95; H,2.17; N,0.42).

1.3X-ray crystallography

Single-crystal XRD data of the compound were collected at 296 K from a Bruker Apex II CCD with Mo-K α radiation ($\lambda = 0.71073$ Å). The crystal structure was resolved by using direct methods and then refined via full-matrix least-squares on F^2 by means of the SHELXL-2018/3 program package. Some water molecules were removed by SQUEEZE in the refinement, but accurately confirmed by TG and elemental analyses. A summary of the crystallographic data for the compound is provided in Table S1. CCDC-2157140 contains the supplementary crystallographic data for this paper.

1.4 Photocatalytic CO₂ reduction experiments

The photocatalytic performance of [Co@{Co₁₆Mo₁₆}] was evaluated by applying it to the photocatalytic reduction of CO₂ (CEL-SPH2N-S9, AULTT, China). The experiments were carried out in a 100 mL Pyrex flask. A 300 W xenon arc lamp (CEL-PF300-T8, AULTT, China) (photocurrent: 14.5A) was employed as a visible-light source through a UV-cutoff filter with a wavelength greater than 420 nm, which was installed 10 cm away from the reaction solution. In the system of CO₂ photocatalytic reduction, we put photocatalyst (5mg) into a mixed solvent of triethanolamine (TEOA, as a sacrificial base) and acetonitrile (1:4 v/v, 50 mL), and used [Ru(bpy)₃]Cl₂•6H₂O (11.3mg) as photosensitizer. The products were analyzed by performing gas chromatography (GC7920-TF2Z, AULTT, China).

1.5 Electrochemical measurements

The Mott–Schottky spots were carried out at ambient environment via using the electrochemical workstation (CHI 760e) in a standard three-electrode system: The carbon cloth (CC, 1 cm×1 cm) modified with catalyst samples, carbon rod and Ag/AgCl were used as the working electrode, counter electrode, and the reference electrode, respectively. The catalyst of 5 mg was grinded to powder and then dispersed in 1 mL of 0.5% Nafion solvent by ultrasonication to form a homogeneous ink. Subsequently, 200 μ L of the ink were deposited onto the carbon cloth, and dried in room temperature for Mott-Schottky spots measurements. The Mott-Schottky plots were measured over an alternating current (AC) frequency of 1000 Hz, 1500 Hz and 2000 Hz, and three electrodes were immersed in the 0.2 M Na₂SO₄ aqueous solution.

[Co@{Co ₁₆ Mo ₁₆ }]2D	Crystal system, space group	Unit cell dimensions	Volume
$[(Mo_2O_4)_8(HPO_4)_{14}(PO_4)_{10} \{ Co_{19}Na_4(H_2O)_{34} \}] \cdot 14H_2O$	Monoclinic P2 ₁ /n	a=15.63 Å b=17.28 Å c=29.87 Å	7955 Å ³

Table S1 Crystal unit cell parameters for $[Co@{Co_{16}Mo_{16}}]2D$.

Compound	[Co@{Co ₁₆ Mo ₁₆ }]
Formula	$C_{22}H_{145}Co_{17}Mo_{16}$
	$N_2 \ O_{183} \ P_{25}$
Formula weight	6677.49
Crystal system	Monoclinic
Space group	C2/c
<i>a</i> (Å)	a = 33.455(12)
<i>b</i> (Å)	b = 20.185(12)
<i>c</i> (Å)	c = 30.076(13)
α(°)	90°
β(°)	100.038(7)°
γ(°)	90°
$V(Å^3)$	19999(16)
Temperature (K)	296(2)
Ζ	4
$D_c (\mathrm{mg/m^3})$	2.218 Mg/m ³
Absorption	2 (55 mm)
coefficient (mm ⁻¹)	2.033 mm ⁻¹
F(000)	13044
Crystal size(mm)	0.14x0.12x 0.11mm3
Limiting indices	-39<=h<=39
	-24<=k<=24
	-35<=l<=35
Reflections	69944
collected	
Independent	17629 [R(int) =
reflections	0.1424]
Completeness	99.80%
Data/ restraints/	17629 / 208 / 1246
parameters	170297 2987 1240
Goodness on F^2	1.007
$R_1^{\rm a}, w R_2^{\rm b}$	R1 = 0.0625, wR2 =
[<i>I</i> >2sigma(<i>I</i>)]	0.1355
R_1, wR_2	R1 = 0.1246, wR2 =
(all data)	0.1508

Table S2 Crystallographic data of [Co@{Co₁₆Mo₁₆}].

^a $R_1 = \Sigma ||F_0| - |F_c|| / \Sigma |F_0|;$ ^b $wR_2 = \Sigma [w(F_0^2 - F_c^2)^2] / \Sigma [w(F_0^2)^2]^{1/2}$

2. Structural information



Fig. S1 (a)The image of $[Co@{Co_{16}Mo_{16}}]$ crystal under optical microscope. (b) The image of $[Co@{Co_{16}Mo_{16}}]2D$ crystal under optical microscope.



Fig. S2 (a)SEM pattern and (b, c) the mapping of Mo, Co elements of [Co@{Co₁₆Mo₁₆}].



Fig S3. Coordination modes of two kinds of Co^{II} in { $Co_{16}Mo_{16}$ }.



Fig. S4 (a)The simplified schematic diagram of the basic unit of $\{Co_4\}$ tetramer; (b)The simplified schematic diagram of the basic unit of $\{Mo_2\}$. (c) The simplified schematic diagram of the basic unit of Phosphate (PO₄). (d)The $\{Co_{16}Mo_{16}\}$ ball and stick diagram. (e)The Simplified skeleton diagram of $\{Co_{16}Mo_{16}\}$.



Fig. S5 (a) Side view (b) Plan view of [Co@{Co₁₆Mo₁₆}]. Free water, free ligands and hydrogen atoms are omitted for clarity.

3. Characterization information



Fig. S6 Experimental and simulated PXRD patterns of [Co@{Co₁₆Mo₁₆}].

PXRD curves were explored in order to evaluate the purity of $[Co@{Co_{16}Mo_{16}}]$ (as shown in Fig. S6). The results of experiments for $[Co@{Co_{16}Mo_{16}}]$ are the same as the fitting values, suggesting that products in this work are consistent with the pure materials.



Fig. S7 The IR spectrum of $[Co@{Co_{16}Mo_{16}}]$.

The infrared spectra of $[Co@{Co_{16}Mo_{16}}]$ is shown in Fig. S7. The absorption peak at 617-731 cm⁻¹ is attributed to the v(Mo-O-Mo) characteristic vibration peak. The absorption peak at 941-969 cm⁻¹ is attributed to the vibration peak of the v(Mo=O) bond, and 1012-1126 cm⁻¹ is attributed to the vibration of the v(P-O) bond. The absorption peak at 1443-1634 cm⁻¹ is attributed to the stretching vibration peaks of the C-C bond and C-N bond on the ligand. The absorption peak at 3100-3421 cm⁻¹ is attributed to the O–H bond stretching vibration from H₂O [1-3].



Fig. S8 The TG curve of [Co@{Co₁₆Mo₁₆}].

The TGA curve of $[Co@{Co_{16}Mo_{16}}]$ (as shown in Fig. S8) measured under synthetic air atmosphere from room temperature to 1200 °C at the hating rate of 10 °C min⁻¹. A continuous weight loss of 12.91 % (theoretical 12.67%) step from 25 to 320 °C corresponds to the loss of all lattice water and free water molecules.



Fig. S9 PXRD patterns of [Co@{Co₁₆Mo₁₆}] before and after four photocatalytic reaction cycles.



Fig. S10 IR spectra of [Co@{Co₁₆Mo₁₆}] before and after four photocatalytic reaction cycles.



4. CO₂ photocatalytic reduction

Fig. S11 GC profiles of CO₂ reduction to CO with [Co@{Co₁₆Mo₁₆}] as catalyst after reaction 8h.



Fig. S12 GC profiles of CO_2 reduction to CO without catalyst after reaction 8h.



Fig. S13 The on-line curve of the produced H_2 detected by GC-TCD.

				Formation	
Entry	CO (µmol)	CH ₄ (µmol)	TON _{CO}	rate _{CO}	Selectivity (%)
				(µmol/g/h)	
1 ^a	179.57	5.76	227.168	6764.31	96.89
2 ^b	none	none	_	_	_
3°	3.24	0.54	4.099	81.00	85.43
4 ^d	0.065	0.494	0.082	1.63	11.63
5 ^e	none	none	_	_	_
6 ^f	148.50	11.56	7.40	3712.50	92.78
7 ^g	2.21	0.64	0.062	69.06	77.50
8 ^h	none	none	_	_	_
9 ⁱ	none	none	—	_	_

Table S3 Investigations on reaction conditions for [Co@{Co₁₆Mo₁₆}].

^aReaction conditions: [Co@{Co₁₆Mo₁₆}] (5 mg, 0.79 μ mol), [Ru(bpy)₃]Cl₂·6H₂O (11.3 mg), mixed solvent (50 mL, MeCN/TEOA, 4/1), reaction gas (CO₂), $\lambda \ge 420$ nm, 6 °C, 8 h reaction time; TON_{CO} = n(CO)/n(catalyst); Formation rate = n(CO)/m(catalyst)/(reaction time); Selectivity = n(CO)/n(CO+CH₄)×100%, where n(CO) and n(catalyst) were the amounts of CO (mol) and the catalyst (mol), respectively. ^bDark condition. ^cNo catalyst [Co@{Co₁₆Mo₁₆}]. ^dNo [Ru(bpy)₃]Cl₂·6H₂O. ^eNo TEOA. ^fCo(OAc)₂ replaced [Co@{Co₁₆Mo₁₆}]. ^gMoO₃ replaced [Co@{Co₁₆Mo₁₆}]. ^h4-phenylpyridine replaced [Co@{Co₁₆Mo₁₆}]. ⁱAr replaced CO₂.

	Photosensitizer	Main	Rateco	Sectivityco		
Photocatalyst	Sacrificial agent	product	(µmol g ⁻¹ h ⁻¹)	(%)	TON	Ref.
[Co@{Co ₁₆ Mo ₁₆ }]	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	6764.3	96.89	90.3	this work
[Co@{Co ₁₆ Mo ₁₆ }]2D	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	1203.56	94.45	69.72	this work
$\frac{(C_{2}H_{5}OH)(C_{3}H_{5}N_{2})_{6}[Co_{3}(H_{6}P_{4}Mo_{6}O_{31})_{2}]}{\cdot H_{2}O}$	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	723.6		17.7	[4]
$\label{eq:h2bi} \begin{array}{c} (H_2 bbi)_2 \{ [Co_2(bbi)] [Co_{2.5}(H_2 O)_4] [H_9 CoP \\ \\ & 8 Mo_{12} O_{62}] \} \ 4 H_2 O \end{array}$	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	407.6	93.3		[5]
$\label{eq:2.1} \begin{split} Na_{6}[Co(H_{2}O)_{2}(H_{2}tib)]_{2}\{Co[Mo_{6}O_{15}(HPO_{4})_{4}]_{2}\}\cdot 5H_{2}O \end{split}$		СО	1.09	96.3	_	[6]
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		СО	0.94	96.4	_	[6]
[Co _{2.67} (SiW ₁₂ O ₄₀)(H ₂ O) ₄ (Htrz) ₄]·Cl _{1.33}	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	5235	52	55.31	[7]
Na ₁₀ Co ₄ (H ₂ O) ₂ (PW ₉ O ₃₄) ₂ @g-C ₃ N ₄	Bipyridine + CoCl ₂ triethanolamine	СО	107	94	_	[8]
$\frac{K_4 Na_{28}[\{Co_4(OH)_3(VO_4)\}_4(SiW_9O_{34})_4]}{66H_2O}$	[Ru(phen) ₃](PF ₆) ₂ triethanolamine	СО	0.084		10492	[9]
$[Co(en)_2]_6[V_{12}B_{18}O_{54}(OH)_6] \cdot 17H_2O$	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	5700		47.77	[10]
$H_{47}Na_2Co_4Mo_{24}(PO_4)_{11}O_{72}$ ·15 H_2O	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	1848.3	75.4	75.3	[11]
$[Ni_{6}(trz)_{2}(Htrz)_{13}][H_{4}P_{4}Mo_{11}O_{50}]\cdot7H_{2}O$	[Ru(bpy) ₃]Cl ₂ ·6H ₂ O triethanolamine	СО	689.86			[12]
TCOF-MnMo6	no	СО	37.25	100		[13]

Table S4 Comparison of reported other POM-based photocatalysts for CO_2 -to-CO conversion.

Table S	S5 ICP	results	of fresh	catalyst.	recovered	catalyst a	and sup	pernatant	after r	eaction.
				J)		2		1		

Sample	Co (mg/L)	Mo (mg/L)
Fresh catalyst	1.237	2.214
Recovered catalyst	1.199	2.107
Supernatant after reaction	-	0.067



Fig. S14 Catalyst recovery and ICP sample preparation.



Fig. S15 PXRD patterns of [Co@{Co₁₆Mo₁₆}]2D.

5. Selected bond lengths and bond angles

Mo(1)-O(3)	2.054(7)	O(3)-Mo(1)-O(9)	85.4(3)
Mo(1)-O(9)	2.099(6)	O(3)-Mo(1)-O(17)	79.7(3)
Mo(1)-O(10)	1.964(7)	O(9)-Mo(1)-O(17)	79.4(3)
Mo(1)-O(16)	1.932(6)	O(10)-Mo(1)-O(3)	88.9(3)
Mo(1)-O(17)	2.216(6)	O(10)-Mo(1)-O(9)	160.5(3)
Mo(1)-O(43)	1.674(7)	O(10)-Mo(1)-O(17)	81.2(2)
Mo(2)-O(1)	1.949(7)	O(16)-Mo(1)-O(3)	162.4(3)
Mo(2)-O(2)	1.943(6)	O(16)-Mo(1)-O(9)	86.6(3)
Mo(2)-O(7)	2.079(6)	O(16)-Mo(1)-O(10)	93.5(3)
Mo(2)-O(23)	2.116(6)	O(16)-Mo(1)-O(17)	83.4(3)
Mo(2)-O(31)	2.183(7)	O(43)-Mo(1)-O(3)	93.9(3)
Mo(2)-O(58)	1.675(8)	O(43)-Mo(1)-O(9)	95.9(3)
Mo(3)-O(5)	2.074(7)	O(43)-Mo(1)-O(10)	103.2(3)
Mo(3)-O(14)	2.171(7)	O(43)-Mo(1)-O(16)	102.4(3)
Mo(3)-O(18)	2.057(6)	O(43)-Mo(1)-O(17)	172.4(3)
Mo(3)-O(26)	1.959(6)	O(1)-Mo(2)-O(7)	88.8(3)
Mo(3)-O(28)	1.946(7)	O(1)-Mo(2)-O(23)	161.1(3)
Mo(3)-O(52)	1.687(7)	O(1)-Mo(2)-O(31)	81.4(3)
Mo(4)-O(12)	2.049(8)	O(2)-Mo(2)-O(1)	93.8(3)
Mo(4)-O(26)	1.956(7)	O(2)-Mo(2)-O(7)	162.4(3)
Mo(4)-O(28)	1.941(6)	O(2)-Mo(2)-O(23)	86.2(3)
Mo(4)-O(34)	2.421(7)	O(2)-Mo(2)-O(31)	83.4(3)
Mo(4)-O(57)	1.682(7)	O(7)-Mo(2)-O(23)	85.9(2)
Mo(4)-O(61)	2.056(6)	O(7)-Mo(2)-O(31)	79.8(3)
Mo(5)-O(10)	1.939(6)	O(23)-Mo(2)-O(31)	79.8(3)
Mo(5)-O(16)	1.941(6)	O(58)-Mo(2)-O(1)	103.6(3)
Mo(5)-O(19)	2.055(7)	O(58)-Mo(2)-O(2)	103.3(3)
Mo(5)-O(20)	2.456(6)	O(58)-Mo(2)-O(7)	92.9(3)
Mo(5)-O(29)	2.053(7)	O(58)-Mo(2)-O(23)	94.8(3)
Mo(5)-O(46)	1.678(7)	O(58)-Mo(2)-O(31)	171.2(3)
Mo(6)-O(6)	1.964(7)	O(5)-Mo(3)-O(14)	78.7(3)
Mo(6)-O(8)	2.086(6)	O(18)-Mo(3)-O(5)	84.4(3)
Mo(6)-O(21)	1.945(6)	O(18)-Mo(3)-O(14)	79.1(3)
Mo(6)-O(36)	2.070(6)	O(26)-Mo(3)-O(5)	89.5(3)
Mo(6)-O(42)	1.664(8)	O(26)-Mo(3)-O(14)	80.8(3)
Mo(6)-O(44)	2.182(7)	O(26)-Mo(3)-O(18)	159.8(3)

 $Table \ S6 \ Selected \ bond \ lengths \ (\mathring{A}) \ and \ bond \ angles \ (\degree) \ for \ [Co@{Co_{16}Mo_{16}}].$

Mo(7)-O(1)	1.941(6)	O(28)-Mo(3)-O(5)	161.7(3)
Mo(7)-O(2)	1.933(6)	O(28)-Mo(3)-O(14)	84.3(3)
Mo(7)-O(34)	2.447(7)	O(28)-Mo(3)-O(18)	85.7(3)
Mo(7)-O(40)	2.043(6)	O(28)-Mo(3)-O(26)	94.5(3)
Mo(7)-O(50)	2.052(7)	O(52)-Mo(3)-O(5)	93.5(3)
Mo(7)-O(51)	1.659(7)	O(52)-Mo(3)-O(14)	171.5(3)
Mo(8)-O(6)	1.939(6)	O(52)-Mo(3)-O(18)	97.0(3)
Mo(8)-O(11)	2.057(7)	O(52)-Mo(3)-O(26)	102.6(3)
Mo(8)-O(20)	2.421(7)	O(52)-Mo(3)-O(28)	103.0(3)
Mo(8)-O(21)	1.926(6)	O(12)-Mo(4)-O(34)	83.1(3)
Mo(8)-O(56)	2.055(7)	O(12)-Mo(4)-O(61)	85.8(3)
Mo(8)-O(64)	1.663(8)	O(26)-Mo(4)-O(12)	163.3(3)
Co(1)-O(1W)	2.087(7)	O(26)-Mo(4)-O(34)	80.5(3)
Co(1)-O(10)	2.030(7)	O(26)-Mo(4)-O(61)	87.8(3)
Co(1)-O(24)	2.125(7)	O(28)-Mo(4)-O(12)	86.1(3)
Co(1)-O(41)	2.191(7)	O(28)-Mo(4)-O(26)	94.7(3)
Co(1)-O(48)	2.080(7)	O(28)-Mo(4)-O(34)	82.5(2)
Co(1)-O(54)	2.195(7)	O(28)-Mo(4)-O(61)	159.9(3)
Co(2)-O(1A)	2.232(7)	O(57)-Mo(4)-O(12)	94.4(3)
Co(2)-O(2W)	2.077(7)	O(57)-Mo(4)-O(26)	101.6(3)
Co(2)-O(15)	2.081(7)	O(57)-Mo(4)-O(28)	103.2(3)
Co(2)-O(16)	2.034(6)	O(57)-Mo(4)-O(34)	173.6(3)
Co(2)-O(59)	2.097(6)	O(57)-Mo(4)-O(61)	95.8(3)
Co(2)-O(62)	2.089(8)	O(61)-Mo(4)-O(34)	78.2(2)
Co(3)-O(3W)	2.083(8)	O(10)-Mo(5)-O(16)	94.0(3)
Co(3)-O(1)	2.052(7)	O(10)-Mo(5)-O(19)	88.1(3)
Co(3)-O(4)	2.187(7)	O(10)-Mo(5)-O(20)	79.4(2)
Co(3)-O(15)	2.097(7)	O(10)-Mo(5)-O(29)	162.5(3)
Co(3)-O(30)	2.182(7)	O(16)-Mo(5)-O(19)	159.3(3)
Co(3)-O(59)	2.108(7)	O(16)-Mo(5)-O(20)	82.7(3)
Co(4)-O(4W)	2.075(8)	O(16)-Mo(5)-O(29)	87.2(3)
Co(4)-O(6)	2.044(7)	O(19)-Mo(5)-O(20)	77.4(2)
Co(4)-O(22)	2.135(6)	O(29)-Mo(5)-O(19)	84.8(3)
Co(4)-O(41)	2.200(7)	O(29)-Mo(5)-O(20)	83.5(2)
Co(4)-O(47)	2.116(7)	O(46)-Mo(5)-O(10)	102.5(3)
Co(4)-O(54)	2.190(7)	O(46)-Mo(5)-O(16)	104.3(3)
Co(5)-O(5W)	2.091(8)	O(46)-Mo(5)-O(19)	95.3(3)
Co(5)-O(4)	2.191(7)	O(46)-Mo(5)-O(20)	172.5(3)
Co(5)-O(26)	2.021(6)	O(46)-Mo(5)-O(29)	94.1(3)
Co(5)-O(30)	2.267(8)	O(6)-Mo(6)-O(8)	89.5(3)

$\begin{array}{cccc} Ca(3)-O(38) & 2.147(7) & O(6)-Ma(6)-O(36) & 161.4(3) \\ Ca(5)-O(39) & 2.087(7) & O(6)-Ma(6)-O(44) & 80.1(3) \\ Ca(6)-O(1A) & 2.344(7) & O(8)-Ma(6)-O(44) & 80.3(3) \\ Ca(6)-O(6W) & 2.081(9) & O(21)-Ma(6)-O(6) & 93.3(3) \\ Ca(6)-O(21) & 2.045(6) & O(21)-Ma(6)-O(6) & 163.3(3) \\ Ca(6)-O(38) & 2.037(7) & O(21)-Ma(6)-O(44) & 84.0(3) \\ Ca(6)-O(39) & 2.073(7) & O(21)-Ma(6)-O(44) & 84.0(3) \\ Ca(6)-O(62) & 2.048(7) & O(36)-Ma(6)-O(44) & 84.4(3) \\ Ca(7)-O(2A) & 2.283(7) & O(36)-Ma(6)-O(44) & 81.4(3) \\ Ca(7)-O(2A) & 2.283(7) & O(36)-Ma(6)-O(44) & 81.4(3) \\ Ca(7)-O(2A) & 2.283(7) & O(42)-Ma(6)-O(6) & 102.7(3) \\ Ca(7)-O(2A) & 2.072(6) & O(42)-Ma(6)-O(6) & 92.9(3) \\ Ca(7)-O(25) & 2.088(7) & O(42)-Ma(6)-O(6) & 92.9(3) \\ Ca(7)-O(28) & 2.034(7) & O(42)-Ma(6)-O(44) & 172.6(3) \\ Ca(7)-O(28) & 2.034(7) & O(42)-Ma(6)-O(44) & 172.6(3) \\ Ca(8)-O(2A) & 2.259(7) & O(1)-Ma(7)-O(34) & 79.3(3) \\ Ca(8)-O(2A) & 2.259(7) & O(1)-Ma(7)-O(50) & 87.7(3) \\ Ca(8)-O(2A) & 2.259(7) & O(1)-Ma(7)-O(40) & 162.2(3) \\ Ca(8)-O(2A) & 2.090(6) & O(1)-Ma(7)-O(50) & 87.7(3) \\ Ca(8)-O(25) & 2.074(7) & O(2)-Ma(7)-O(40) & 87.2(3) \\ Ca(8)-O(25) & 2.074(7) & O(2)-Ma(7)-O(40) & 87.2(3) \\ Ca(8)-O(25) & 2.074(7) & O(2)-Ma(7)-O(34) & 83.3(3) \\ Ca(9)-O(1W) & 2.097(8) & O(4)-Ma(7)-O(50) & 158.9(3) \\ Ca(9)-O(1W) & 2.092(9) & O(5)-Ma(7)-O(34) & 172.8(3) \\ O(38)-Ca(5)-O(4) & 92.9(3) & O(5)-Ma(7)-O(34) & 172.8(3) \\ O(38)-Ca(5)-O(4) & 92.9(3) & O(5)-Ma(7)-O(40) & 93.8(3) \\ O(39)-Ca(5)-O(4) & 92.9(3) & O(5)-Ma(7)-O(40) & 93.8(3) \\ O(39)-Ca(5)-O(4) & 92.9(3) & O(5)-Ma(8)-O(1) & 103.0(3) \\ Ca(9)-O(1W) & 2.092(9) & O(5)-Ma(7)-O(50) & 84.4(3) \\ O(38)-Ca(5)-O(4) & 92.9(3) & O(5)-Ma(8)-O(1) & 183.2(3) \\ O(38)-Ca(5)-O(4) & 92.9(3) & O(5)-Ma(8)-O(1) & 153.7(3) \\ O(38)-Ca(5)-O(4) & 92.9(3) & O(5)-Ma(8)-O(1) & 153.7(3) \\ O(38)-Ca(5)-O(4) & 93.3(3) & O(21)-Ma(8)-O(5) & 84.4(3) \\ O(38)-Ca(5)-O(4) & 84.4(3) & O(5)-Ma(8)-O(2)$				
Ca(5)-O(39) 2.087(7) O(6)-Ma(6)-O(44) 80.1(3) Ca(6)-O(1A) 2.344(7) O(8)-Ma(6)-O(44) 80.3(3) Ca(6)-O(W) 2.081(9) O(21)-Ma(6)-O(6) 93.3(3) Ca(6)-O(21) 2.045(6) O(21)-Ma(6)-O(6) 85.7(3) Ca(6)-O(38) 2.037(7) O(21)-Ma(6)-O(44) 84.0(3) Ca(6)-O(22) 2.048(7) O(36)-Ma(6)-O(44) 81.4(3) Ca(7)-O(2A) 2.283(7) O(36)-Ma(6)-O(6) 102.7(3) Ca(7)-O(2A) 2.088(7) O(42)-Ma(6)-O(6) 92.9(3) Ca(7)-O(2A) 2.038(7) O(42)-Ma(6)-O(1) 102.5(3) Ca(7)-O(2B) 2.034(7) O(42)-Ma(6)-O(44) 172.6(3) Ca(7)-O(2B) 2.034(7) O(42)-Ma(6)-O(44) 172.6(3) Ca(7)-O(2B) 2.034(7) O(2)-Ma(7)-O(34) 73.3(3) Ca(8)-O(2A) 2.259(7) O(1)-Ma(7)-O(40) 162.2(3) Ca(8)-O(2)#1 2.077(7) O(2)-Ma(7)-O(1) 94.3(3) Ca(8)-O(2)#1 2.097(8) O(2)-Ma(7)-O(34) 82.4(3) Ca(8)-O(2)#1	Co(5)-O(38)	2.147(7)	O(6)-Mo(6)-O(36)	161.4(3)
Ca(6)-O(1A) 2.344(7) O(8)-Ma(6)-O(44) 80.3(3) Ca(6)-O(6W) 2.081(9) O(21)-Ma(6)-O(6) 93.3(3) Ca(6)-O(21) 2.045(6) O(21)-Ma(6)-O(8) 163.3(3) Ca(6)-O(38) 2.037(7) O(21)-Ma(6)-O(44) 84.0(3) Ca(6)-O(2A) 2.048(7) O(36)-Ma(6)-O(44) 81.4(3) Ca(7)-O(2A) 2.283(7) O(42)-Ma(6)-O(6) 102.7(3) Ca(7)-O(2A) 2.038(7) O(42)-Ma(6)-O(8) 92.9(3) Ca(7)-O(24) 2.038(7) O(42)-Ma(6)-O(21) 102.5(3) Ca(7)-O(28) 2.034(7) O(42)-Ma(6)-O(24) 72.6(3) Ca(7)-O(28) 2.034(7) O(42)-Ma(6)-O(24) 72.6(3) Ca(8)-O(28) 2.034(7) O(42)-Ma(6)-O(24) 72.6(3) Ca(8)-O(28) 2.034(7) O(42)-Ma(6)-O(24) 72.6(3) Ca(8)-O(28) 2.034(7) O(42)-Ma(6)-O(44) 72.6(3) Ca(8)-O(28) 2.034(7) O(2)-Ma(7)-O(14) 72.6(3) Ca(8)-O(28) 2.046(6) O(1)-Ma(7)-O(14) 72.3(3) Ca(8)-O(29)/1 <td>Co(5)-O(39)</td> <td>2.087(7)</td> <td>O(6)-Mo(6)-O(44)</td> <td>80.1(3)</td>	Co(5)-O(39)	2.087(7)	O(6)-Mo(6)-O(44)	80.1(3)
Ca(6)-O(6W) 2.081(9) O(21)-Ma(6)-O(6) 93.3(3) Ca(6)-O(21) 2.045(6) O(21)-Ma(6)-O(8) 163.3(3) Ca(6)-O(38) 2.037(7) O(21)-Ma(6)-O(36) 85.7(3) Ca(6)-O(39) 2.073(7) O(21)-Ma(6)-O(44) 84.0(3) Ca(6)-O(2) 2.048(7) O(36)-Ma(6)-O(44) 81.4(3) Ca(7)-O(2A) 2.283(7) O(36)-Ma(6)-O(6) 102.7(3) Ca(7)-O(24)#1 2.072(6) O(42)-Ma(6)-O(8) 92.9(3) Ca(7)-O(24)#1 2.072(6) O(42)-Ma(6)-O(8) 92.9(3) Ca(7)-O(28) 2.034(7) O(42)-Ma(6)-O(44) 172.6(3) Ca(7)-O(28) 2.034(7) O(42)-Ma(6)-O(44) 172.6(3) Ca(8)-O(2A) 2.259(7) O(1)-Ma(7)-O(34) 73.3(3) Ca(8)-O(2) 2.060(6) O(1)-Ma(7)-O(10) 87.7(3) Ca(8)-O(2)#1 2.072(6) O(2)-Ma(7)-O(10) 87.7(3) Ca(8)-O(2)#1 2.072(7) O(2)-Ma(7)-O(10) 87.7(3) Ca(8)-O(2)#1 2.072(7) O(2)-Ma(7)-O(34) 87.2(3) Ca(8)-O(2)#1 </td <td>Co(6)-O(1A)</td> <td>2.344(7)</td> <td>O(8)-Mo(6)-O(44)</td> <td>80.3(3)</td>	Co(6)-O(1A)	2.344(7)	O(8)-Mo(6)-O(44)	80.3(3)
Ca(6)-O(21) 2.045(6) O(21)-Mo(6)-O(8) 163.3(3) Co(6)-O(38) 2.037(7) O(21)-Mo(6)-O(36) 85.7(3) Co(6)-O(39) 2.073(7) O(21)-Mo(6)-O(44) 84.0(3) Co(6)-O(2) 2.048(7) O(36)-Mo(6)-O(8) 86.4(3) Co(7)-O(2A) 2.283(7) O(36)-Mo(6)-O(6) 102.7(3) Co(7)-O(24) 2.034(7) O(42)-Mo(6)-O(6) 92.9(3) Co(7)-O(24) 2.034(7) O(42)-Mo(6)-O(21) 102.5(3) Co(7)-O(28) 2.034(7) O(42)-Mo(6)-O(21) 102.5(3) Co(7)-O(48)#1 2.077(7) O(42)-Mo(6)-O(44) 172.6(3) Co(8)-O(2A) 2.259(7) O(1)-Mo(7)-O(40) 162.2(3) Co(8)-O(2A) 2.059(7) O(1)-Mo(7)-O(40) 162.2(3) Co(8)-O(2) 2.060(6) O(1)-Mo(7)-O(40) 162.2(3) Co(8)-O(2) 2.060(6) O(1)-Mo(7)-O(40) 82.4(3) Co(8)-O(2) 2.072(6) O(2)-Mo(7)-O(1) 94.4(3) Co(8)-O(2)#1 2.100(7) O(2)-Mo(7)-O(40) 87.2(3) Co(8)-O(4)#1	Co(6)-O(6W)	2.081(9)	O(21)-Mo(6)-O(6)	93.3(3)
Ca(6)-O(38) 2.037(7) O(21)-Mo(6)-O(36) 85.7(3) Ca(6)-O(39) 2.073(7) O(21)-Mo(6)-O(44) 84.0(3) Ca(6)-O(62) 2.048(7) O(36)-Mo(6)-O(8) 86.4(3) Ca(7)-O(2A) 2.283(7) O(36)-Mo(6)-O(44) 81.4(3) Ca(7)-O(7W) 2.101(7) O(42)-Mo(6)-O(6) 102.7(3) Ca(7)-O(24)#1 2.072(6) O(42)-Mo(6)-O(12) 102.5(3) Ca(7)-O(25) 2.088(7) O(42)-Mo(6)-O(44) 172.6(3) Ca(7)-O(48)#1 2.077(7) O(42)-Mo(6)-O(44) 172.6(3) Ca(8)-O(2A) 2.259(7) O(1)-Ma(7)-O(34) 79.3(3) Ca(8)-O(2A) 2.259(7) O(1)-Ma(7)-O(40) 162.2(3) Ca(8)-O(2) 2.060(6) O(1)-Ma(7)-O(40) 87.2(3) Ca(8)-O(2) 2.060(6) O(1)-Ma(7)-O(40) 87.2(3) Ca(8)-O(2)#1 2.072(6) O(2)-Ma(7)-O(1) 94.4(3) Ca(8)-O(2)#1 2.010(7) O(2)-Ma(7)-O(40) 87.2(3) Ca(8)-O(4)#1 2.010(7) O(2)-Ma(7)-O(50) 84.6(3) Ca(8)-O(4)#1<	Co(6)-O(21)	2.045(6)	O(21)-Mo(6)-O(8)	163.3(3)
Ca(6)-O(39) 2.073(7) O(21)-Mo(6)-O(44) 84.0(3) Ca(6)-O(62) 2.048(7) O(36)-Mo(6)-O(8) 86.4(3) Ca(7)-O(2A) 2.283(7) O(36)-Mo(6)-O(44) 81.4(3) Ca(7)-O(2A) 2.283(7) O(42)-Mo(6)-O(6) 102.7(3) Ca(7)-O(24)#1 2.072(6) O(42)-Mo(6)-O(8) 92.9(3) Ca(7)-O(25) 2.088(7) O(42)-Mo(6)-O(44) 102.5(3) Ca(7)-O(28) 2.034(7) O(42)-Mo(6)-O(44) 172.6(3) Ca(7)-O(48)#1 2.077(7) O(42)-Mo(6)-O(44) 172.6(3) Ca(8)-O(2A) 2.259(7) O(1)-Mo(7)-O(40) 162.2(3) Ca(8)-O(2) 2.060(6) O(1)-Mo(7)-O(40) 87.7(3) Ca(8)-O(2) 2.060(6) O(1)-Mo(7)-O(40) 87.2(3) Ca(8)-O(2)/#1 2.072(6) O(2)-Mo(7)-O(40) 87.2(3) Ca(8)-O(2)/#1 2.010(7) O(2)-Ma(7)-O(40) 87.2(3) Ca(8)-O(47)#1 2.010(7) O(2)-Ma(7)-O(50) 84.6(3) Ca(9)-O(9W)#1 2.097(8) O(40)-Ma(7)-O(50) 84.6(3) Ca(9)-O	Co(6)-O(38)	2.037(7)	O(21)-Mo(6)-O(36)	85.7(3)
Ca(6)-O(62) 2.048(7) O(36)-Mo(6)-O(8) 86.4(3) Ca(7)-O(2A) 2.283(7) O(36)-Mo(6)-O(44) 81.4(3) Ca(7)-O(7W) 2.101(7) O(42)-Mo(6)-O(6) 102.7(3) Ca(7)-O(24)#1 2.072(6) O(42)-Mo(6)-O(8) 92.9(3) Ca(7)-O(25) 2.088(7) O(42)-Mo(6)-O(21) 102.5(3) Ca(7)-O(28) 2.034(7) O(42)-Mo(6)-O(44) 172.6(3) Ca(8)-O(2A) 2.259(7) O(1)-Mo(7)-O(34) 79.3(3) Ca(8)-O(2A) 2.094(9) O(1)-Mo(7)-O(40) 162.2(3) Ca(8)-O(2A) 2.094(9) O(1)-Mo(7)-O(40) 87.3(3) Ca(8)-O(2A) 2.094(9) O(1)-Mo(7)-O(40) 87.4(3) Ca(8)-O(2A) 2.094(9) O(1)-Mo(7)-O(40) 87.4(3) Ca(8)-O(2A) 2.072(6) O(2)-Mo(7)-O(10) 94.4(3) Ca(8)-O(2A) 2.072(6) O(2)-Mo(7)-O(40) 87.2(3) Ca(8)-O(47)#1 2.100(7) O(2)-Mo(7)-O(40) 87.2(3) Ca(8)-O(4)W1 2.097(8) O(40)-Mo(7)-O(50) 84.6(3) Ca(9)-O(1)W)#1<	Co(6)-O(39)	2.073(7)	O(21)-Mo(6)-O(44)	84.0(3)
Co(7)-O(2A) 2.283(7) O(36)-Mo(6)-O(44) 81.4(3) Co(7)-O(7W) 2.101(7) O(42)-Mo(6)-O(6) 102.7(3) Co(7)-O(24)#1 2.072(6) O(42)-Mo(6)-O(8) 92.9(3) Co(7)-O(25) 2.088(7) O(42)-Mo(6)-O(21) 102.5(3) Co(7)-O(28) 2.034(7) O(42)-Mo(6)-O(36) 95.6(3) Co(7)-O(48)#1 2.077(7) O(42)-Mo(6)-O(44) 172.6(3) Co(8)-O(2A) 2.259(7) O(1)-Mo(7)-O(34) 79.3(3) Co(8)-O(2A) 2.060(6) O(1)-Mo(7)-O(40) 162.2(3) Co(8)-O(22) 2.060(6) O(1)-Mo(7)-O(1) 94.4(3) Co(8)-O(22)#1 2.072(6) O(2)-Mo(7)-O(1) 82.4(3) Co(8)-O(22)#1 2.074(7) O(2)-Mo(7)-O(14) 87.7(3) Co(8)-O(2)#1 2.1097(8) O(40)-Mo(7)-O(50) 158.9(3) Co(9)-O(9W)#1 2.097(8) O(40)-Mo(7)-O(14) 83.3(3) Co(9)-O(10W)#1 2.074(8) O(50)-Mo(7)-O(1) 103.0(3) Co(9)-O(10W)#1 2.097(8) O(40)-Mo(7)-O(50) 84.6(3) <td< td=""><td>Co(6)-O(62)</td><td>2.048(7)</td><td>O(36)-Mo(6)-O(8)</td><td>86.4(3)</td></td<>	Co(6)-O(62)	2.048(7)	O(36)-Mo(6)-O(8)	86.4(3)
Co(7)-O(7W)2.101(7) $O(42)-Mo(6)-O(6)$ 102.7(3) $Co(7)-O(24)#1$ 2.072(6) $O(42)-Mo(6)-O(8)$ 92.9(3) $Co(7)-O(25)$ 2.088(7) $O(42)-Mo(6)-O(21)$ 102.5(3) $Co(7)-O(28)$ 2.034(7) $O(42)-Mo(6)-O(36)$ 95.6(3) $Co(7)-O(28)$ 2.077(7) $O(42)-Mo(6)-O(44)$ 172.6(3) $Co(8)-O(2A)$ 2.259(7) $O(1)-Mo(7)-O(34)$ 79.3(3) $Co(8)-O(2A)$ 2.094(9) $O(1)-Mo(7)-O(40)$ 162.2(3) $Co(8)-O(2)$ 2.060(6) $O(1)-Mo(7)-O(10)$ 87.7(3) $Co(8)-O(2)$ 2.074(7) $O(2)-Mo(7)-O(1)$ 94.4(3) $Co(8)-O(25)$ 2.074(7) $O(2)-Mo(7)-O(34)$ 82.4(3) $Co(8)-O(25)$ 2.074(7) $O(2)-Mo(7)-O(34)$ 87.2(3) $Co(9)-O(9W)$ 2.097(8) $O(2)-Mo(7)-O(34)$ 83.3(3) $Co(9)-O(9W)$ 2.097(8) $O(40)-Mo(7)-O(50)$ 84.6(3) $Co(9)-O(10W)$ #12.074(8) $O(40)-Mo(7)-O(34)$ 77.4(3) $Co(9)-O(10W)$ #12.092(9) $O(51)-Mo(7)-O(34)$ 77.4(3) $Co(9)-O(11W)$ #12.092(9) $O(51)-Mo(7)-O(34)$ 172.8(3) $O(3B)-Co(5)-O(4)$ 92.9(3) $O(51)-Mo(7)-O(40)$ 93.8(3) $O(3B)-Co(5)-O(5W)$ 84.8(3) $O(51)-Mo(7)-O(40)$ 93.8(3) $O(3B)-Co(5)-O(5W)$ 84.8(3) $O(51)-Mo(7)-O(40)$ 93.8(3) $O(3B)-Co(5)-O(4)$ 192.4(3) $O(6)-Mo(8)-O(11)$ 88.2(3) $O(3B)-Co(5)-O(5W)$ 84.8(3) $O(51)-Mo(7)-O(40)$ 93.8(3) $O(3B)-Co(5)-O(5W)$ 84.8(3) $O(51)-Mo(8)-O(11)$ <t< td=""><td>Co(7)-O(2A)</td><td>2.283(7)</td><td>O(36)-Mo(6)-O(44)</td><td>81.4(3)</td></t<>	Co(7)-O(2A)	2.283(7)	O(36)-Mo(6)-O(44)	81.4(3)
Co(7)-O(24)#1 $2.072(6)$ $O(42)-Mo(6)-O(8)$ $92.9(3)$ $Co(7)-O(25)$ $2.088(7)$ $O(42)-Mo(6)-O(21)$ $102.5(3)$ $Co(7)-O(28)$ $2.034(7)$ $O(42)-Mo(6)-O(36)$ $95.6(3)$ $Co(7)-O(48)#1$ $2.077(7)$ $O(42)-Mo(6)-O(44)$ $172.6(3)$ $Co(8)-O(2A)$ $2.259(7)$ $O(1)-Mo(7)-O(34)$ $79.3(3)$ $Co(8)-O(2A)$ $2.094(9)$ $O(1)-Mo(7)-O(40)$ $162.2(3)$ $Co(8)-O(2)$ $2.060(6)$ $O(1)-Mo(7)-O(40)$ $87.7(3)$ $Co(8)-O(2)$ $2.060(6)$ $O(1)-Mo(7)-O(1)$ $94.4(3)$ $Co(8)-O(2)$ $2.074(7)$ $O(2)-Mo(7)-O(1)$ $94.4(3)$ $Co(8)-O(2)$ $2.074(7)$ $O(2)-Mo(7)-O(34)$ $82.4(3)$ $Co(8)-O(47)#1$ $2.100(7)$ $O(2)-Mo(7)-O(40)$ $87.2(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(2)-Mo(7)-O(50)$ $158.9(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(40)-Mo(7)-O(34)$ $83.3(3)$ $Co(9)-O(1W)$ $2.074(8)$ $O(40)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(1W)/#1$ $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(1W)/#1$ $2.092(9)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(50)$ $93.8(3)$ $O(39)-Co(5)-O(4)$ $192.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(3)$ $159.3(3)$ $O(21)-Mo(8)-O(20)$ $82.2(3)$ </td <td>Co(7)-O(7W)</td> <td>2.101(7)</td> <td>O(42)-Mo(6)-O(6)</td> <td>102.7(3)</td>	Co(7)-O(7W)	2.101(7)	O(42)-Mo(6)-O(6)	102.7(3)
Co(7)-O(25) 2.088(7) O(42)-Mo(6)-O(21) 102.5(3) Co(7)-O(28) 2.034(7) O(42)-Mo(6)-O(36) 95.6(3) Co(7)-O(48)#1 2.077(7) O(42)-Mo(6)-O(44) 172.6(3) Co(8)-O(2A) 2.259(7) O(1)-Mo(7)-O(34) 79.3(3) Co(8)-O(2A) 2.094(9) O(1)-Mo(7)-O(40) 162.2(3) Co(8)-O(2) 2.060(6) O(1)-Mo(7)-O(50) 87.7(3) Co(8)-O(22)#1 2.072(6) O(2)-Mo(7)-O(1) 94.4(3) Co(8)-O(22)#1 2.074(7) O(2)-Mo(7)-O(40) 87.2(3) Co(8)-O(47)#1 2.100(7) O(2)-Mo(7)-O(40) 87.2(3) Co(9)-O(9W) 2.097(8) O(40)-Mo(7)-O(50) 84.6(3) Co(9)-O(9W)#1 2.097(8) O(40)-Mo(7)-O(1) 103.0(3) Co(9)-O(10W)#1 2.074(8) O(40)-Mo(7)-O(34) 87.2(3) Co(9)-O(10W)#1 2.092(9) O(51)-Mo(7)-O(1) 103.0(3) Co(9)-O(11W)#1 2.092(9) O(51)-Mo(7)-O(2) 104.2(3) O(38)-Co(5)-O(4) 92.9(3) O(51)-Mo(7)-O(40) 93.8(3)	Co(7)-O(24)#1	2.072(6)	O(42)-Mo(6)-O(8)	92.9(3)
Co(7)-O(28) 2.034(7) O(42)-Mo(6)-O(36) 95.6(3) Co(7)-O(48)#1 2.077(7) O(42)-Mo(6)-O(44) 172.6(3) Co(8)-O(2A) 2.259(7) O(1)-Mo(7)-O(34) 79.3(3) Co(8)-O(2A) 2.050(6) O(1)-Mo(7)-O(40) 162.2(3) Co(8)-O(2) 2.060(6) O(1)-Mo(7)-O(10) 94.4(3) Co(8)-O(2) 2.074(7) O(2)-Mo(7)-O(1) 94.4(3) Co(8)-O(25) 2.074(7) O(2)-Mo(7)-O(40) 87.2(3) Co(8)-O(47)#1 2.100(7) O(2)-Mo(7)-O(40) 87.2(3) Co(9)-O(9W) 2.097(8) O(2)-Mo(7)-O(50) 158.9(3) Co(9)-O(10W)#1 2.097(8) O(40)-Mo(7)-O(34) 83.3(3) Co(9)-O(10W)#1 2.097(8) O(40)-Mo(7)-O(34) 77.4(3) Co(9)-O(10W)#1 2.0974(8) O(50)-Mo(7)-O(34) 77.4(3) Co(9)-O(10W)#1 2.092(9) O(51)-Mo(7)-O(1) 103.0(3) Co(9)-O(11W)#1 2.092(9) O(51)-Mo(7)-O(2) 104.2(3) O(38)-Co(5)-O(4) 92.9(3) O(51)-Mo(7)-O(40) 93.8(3)	Co(7)-O(25)	2.088(7)	O(42)-Mo(6)-O(21)	102.5(3)
Co(7)-O(48)#1 2.077(7) O(42)-Mo(6)-O(44) 172.6(3) Co(8)-O(2A) 2.259(7) O(1)-Mo(7)-O(34) 79.3(3) Co(8)-O(2W) 2.094(9) O(1)-Mo(7)-O(40) 162.2(3) Co(8)-O(2) 2.060(6) O(1)-Mo(7)-O(50) 87.7(3) Co(8)-O(2) 2.074(7) O(2)-Mo(7)-O(1) 94.4(3) Co(8)-O(2)#1 2.072(6) O(2)-Mo(7)-O(40) 87.2(3) Co(8)-O(2)#1 2.100(7) O(2)-Mo(7)-O(40) 87.2(3) Co(9)-O(9W) 2.097(8) O(2)-Mo(7)-O(50) 158.9(3) Co(9)-O(9W)#1 2.097(8) O(40)-Mo(7)-O(50) 84.6(3) Co(9)-O(10W)#1 2.097(8) O(40)-Mo(7)-O(34) 83.3(3) Co(9)-O(10W)#1 2.097(8) O(50)-Mo(7)-O(1) 103.0(3) Co(9)-O(10W)#1 2.097(8) O(50)-Mo(7)-O(1) 103.0(3) Co(9)-O(10W)#1 2.092(9) O(51)-Mo(7)-O(1) 103.0(3) Co(9)-O(11W)#1 2.092(9) O(51)-Mo(7)-O(2) 104.2(3) O(38)-Co(5)-O(4) 92.9(3) O(51)-Mo(7)-O(4) 93.8(3)	Co(7)-O(28)	2.034(7)	O(42)-Mo(6)-O(36)	95.6(3)
Co(8)-O(2A) $2.259(7)$ $O(1)-Mo(7)-O(34)$ $79.3(3)$ $Co(8)-O(8W)$ $2.094(9)$ $O(1)-Mo(7)-O(40)$ $162.2(3)$ $Co(8)-O(2)$ $2.060(6)$ $O(1)-Mo(7)-O(50)$ $87.7(3)$ $Co(8)-O(2)#1$ $2.072(6)$ $O(2)-Mo(7)-O(1)$ $94.4(3)$ $Co(8)-O(25)$ $2.074(7)$ $O(2)-Mo(7)-O(40)$ $87.2(3)$ $Co(8)-O(47)#1$ $2.100(7)$ $O(2)-Mo(7)-O(40)$ $87.2(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(40)-Mo(7)-O(50)$ $158.9(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(11W)#1$ $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)#1$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(3)$ $93.3(3)$ $O(51)-Mo(8)-O(20)$ $82.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(56)$ $162.4(3)$ $O(6W)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(56)$	Co(7)-O(48)#1	2.077(7)	O(42)-Mo(6)-O(44)	172.6(3)
Co(8) - O(8W) $2.094(9)$ $O(1) - Mo(7) - O(40)$ $162.2(3)$ $Co(8) - O(2)$ $2.060(6)$ $O(1) - Mo(7) - O(50)$ $87.7(3)$ $Co(8) - O(22) # 1$ $2.072(6)$ $O(2) - Mo(7) - O(1)$ $94.4(3)$ $Co(8) - O(25)$ $2.074(7)$ $O(2) - Mo(7) - O(34)$ $82.4(3)$ $Co(8) - O(47) # 1$ $2.100(7)$ $O(2) - Mo(7) - O(40)$ $87.2(3)$ $Co(9) - O(9W)$ $2.097(8)$ $O(2) - Mo(7) - O(50)$ $158.9(3)$ $Co(9) - O(9W)$ $2.097(8)$ $O(40) - Mo(7) - O(50)$ $84.6(3)$ $Co(9) - O(10W) # 1$ $2.074(8)$ $O(40) - Mo(7) - O(50)$ $84.6(3)$ $Co(9) - O(10W)$ $2.074(8)$ $O(50) - Mo(7) - O(1)$ $103.0(3)$ $Co(9) - O(10W)$ $2.074(8)$ $O(50) - Mo(7) - O(1)$ $103.0(3)$ $Co(9) - O(11W) # 1$ $2.092(9)$ $O(51) - Mo(7) - O(1)$ $103.0(3)$ $Co(9) - O(11W)$ $2.092(9)$ $O(51) - Mo(7) - O(2)$ $104.2(3)$ $O(38) - Co(5) - O(4)$ $92.9(3)$ $O(51) - Mo(7) - O(40)$ $93.8(3)$ $O(39) - Co(5) - O(4)$ $102.4(3)$ $O(6) - Mo(8) - O(11)$ $88.2(3)$ $O(39) - Co(5) - O(4)$ $102.4(3)$ $O(6) - Mo(8) - O(5)$ $80.2(3)$ $O(39) - Co(5) - O(4)$ $102.4(3)$ $O(6) - Mo(8) - O(20)$ $80.2(3)$ $O(39) - Co(5) - O(1A)$ $174.2(3)$ $O(11) - Mo(8) - O(20)$ $82.5(3)$ $O(21) - Co(6) - O(1A)$ $86.3(3)$ $O(21) - Mo(8) - O(6)$ $94.7(3)$ $O(21) - Co(6) - O(1A)$ $84.4(3)$ $O(26) - Mo(8) - O(11)$ $85.2(3)$ $O(21) - Co(6) - O(1A)$	Co(8)-O(2A)	2.259(7)	O(1)-Mo(7)-O(34)	79.3(3)
Co(8)-O(2) $2.060(6)$ $O(1)-Mo(7)-O(50)$ $87.7(3)$ $Co(8)-O(22)#1$ $2.072(6)$ $O(2)-Mo(7)-O(1)$ $94.4(3)$ $Co(8)-O(25)$ $2.074(7)$ $O(2)-Mo(7)-O(34)$ $82.4(3)$ $Co(8)-O(47)#1$ $2.100(7)$ $O(2)-Mo(7)-O(40)$ $87.2(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(2)-Mo(7)-O(50)$ $158.9(3)$ $Co(9)-O(9W)#1$ $2.097(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(10W)$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $71.4(3)$ $Co(9)-O(11W)#1$ $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(6)$ $94.7(3)$ $O(4W)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $82.2(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(6)$ $86.1(3)$ $O(21)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(21)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O$	Co(8)-O(8W)	2.094(9)	O(1)-Mo(7)-O(40)	162.2(3)
Co(8)-O(22)#1 $2.072(6)$ $O(2)-Mo(7)-O(1)$ $94.4(3)$ $Co(8)-O(25)$ $2.074(7)$ $O(2)-Mo(7)-O(34)$ $82.4(3)$ $Co(8)-O(47)#1$ $2.100(7)$ $O(2)-Mo(7)-O(40)$ $87.2(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(2)-Mo(7)-O(50)$ $158.9(3)$ $Co(9)-O(9W)$ #1 $2.097(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(11W)#1$ $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)#1$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(30)$ $159.3(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(4)$ $92.9(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $90.3(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(6)$ $162.4(3)$ $O(6W)-Co(6)-O(1A)$ $78.3(3)$ $O(21)-Mo(8)-O(6)$ $86.2(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(6)$ $82.5(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(56)$ $86.1(3)$ $O(21)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(21)-Co(6)-O(1A)$ $84.4(3)$ $O($	Co(8)-O(2)	2.060(6)	O(1)-Mo(7)-O(50)	87.7(3)
Co(8)-O(25) $2.074(7)$ $O(2)-Mo(7)-O(34)$ $82.4(3)$ $Co(8)-O(47)#1$ $2.100(7)$ $O(2)-Mo(7)-O(40)$ $87.2(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(2)-Mo(7)-O(50)$ $158.9(3)$ $Co(9)-O(9W)$ #1 $2.097(8)$ $O(40)-Mo(7)-O(34)$ $83.3(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)$ #1 $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(11W)$ #1 $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)$ #1 $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(6)$ $94.7(3)$ $O(4W)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(1A)$ $98.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ <t< td=""><td>Co(8)-O(22)#1</td><td>2.072(6)</td><td>O(2)-Mo(7)-O(1)</td><td>94.4(3)</td></t<>	Co(8)-O(22)#1	2.072(6)	O(2)-Mo(7)-O(1)	94.4(3)
Co(8)-O(47)#1 $2.100(7)$ $O(2)-Mo(7)-O(40)$ $87.2(3)$ $Co(9)-O(9W)$ $2.097(8)$ $O(2)-Mo(7)-O(50)$ $158.9(3)$ $Co(9)-O(9W)#1$ $2.097(8)$ $O(40)-Mo(7)-O(34)$ $83.3(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(10W)$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(11W)$ $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(30)$ $159.3(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(40)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(56)$ $86.1(3)$ $O(21)-Co(6)-O(6Q)$ $97.0(3)$ $O(21)-Mo(8)-O(56)$ $86.1(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ <td>Co(8)-O(25)</td> <td>2.074(7)</td> <td>O(2)-Mo(7)-O(34)</td> <td>82.4(3)</td>	Co(8)-O(25)	2.074(7)	O(2)-Mo(7)-O(34)	82.4(3)
Co(9)-O(9W)2.097(8) $O(2)-Mo(7)-O(50)$ 158.9(3) $Co(9)-O(9W)#1$ 2.097(8) $O(40)-Mo(7)-O(34)$ 83.3(3) $Co(9)-O(10W)#1$ 2.074(8) $O(40)-Mo(7)-O(50)$ 84.6(3) $Co(9)-O(10W)$ 2.074(8) $O(50)-Mo(7)-O(34)$ 77.4(3) $Co(9)-O(11W)#1$ 2.092(9) $O(51)-Mo(7)-O(1)$ 103.0(3) $Co(9)-O(11W)$ 2.092(9) $O(51)-Mo(7)-O(2)$ 104.2(3) $O(38)-Co(5)-O(4)$ 92.9(3) $O(51)-Mo(7)-O(40)$ 93.8(3) $O(38)-Co(5)-O(30)$ 159.3(3) $O(51)-Mo(7)-O(40)$ 93.8(3) $O(39)-Co(5)-O(5W)$ 84.8(3) $O(51)-Mo(7)-O(50)$ 95.7(3) $O(39)-Co(5)-O(5W)$ 84.8(3) $O(51)-Mo(7)-O(50)$ 95.7(3) $O(39)-Co(5)-O(4)$ 102.4(3) $O(6)-Mo(8)-O(11)$ 88.2(3) $O(39)-Co(5)-O(30)$ 90.3(3) $O(6)-Mo(8)-O(20)$ 80.2(3) $O(39)-Co(5)-O(38)$ 77.6(3) $O(6)-Mo(8)-O(20)$ 78.2(2) $O(21)-Co(6)-O(1A)$ 174.2(3) $O(11)-Mo(8)-O(20)$ 82.5(3) $O(21)-Co(6)-O(1A)$ 98.3(3) $O(21)-Mo(8)-O(11)$ 159.7(3) $O(21)-Co(6)-O(6W)$ 86.3(3) $O(21)-Mo(8)-O(11)$ 159.7(3) $O(21)-Co(6)-O(6D)$ 86.3(3) $O(21)-Mo(8)-O(56)$ 86.1(3) $O(38)-Co(6)-O(1A)$ 84.4(3) $O(56)-Mo(8)-O(11)$ 85.2(3) $O(38)-Co(6)-O(6W)$ 98.4(3) $O(56)-Mo(8)-O(11)$ 85.2(3) $O(38)-Co(6)-O(6W)$ 98.4(3) $O(56)-Mo(8)-O(6)$ 82.6(3) $O(38)-Co(6)-O(6W)$ 98.4(3) $O(56)-Mo(8)-O(6)$ 82.6(3) $O(38)-Co(6)-O$	Co(8)-O(47)#1	2.100(7)	O(2)-Mo(7)-O(40)	87.2(3)
Co(9)-O(9W)#1 $2.097(8)$ $O(40)-Mo(7)-O(34)$ $83.3(3)$ $Co(9)-O(10W)#1$ $2.074(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(11W)#1$ $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(11)$ $159.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(6W)$ $98.4(3)$ $O(56)-Mo(8)-O(6)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	Co(9)-O(9W)	2.097(8)	O(2)-Mo(7)-O(50)	158.9(3)
Co(9)-O(10W)#1 $2.074(8)$ $O(40)-Mo(7)-O(50)$ $84.6(3)$ $Co(9)-O(10W)$ $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(11W)#1$ $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(30)$ $159.3(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(11)$ $159.7(3)$ $O(21)-Co(6)-O(1A)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(6W)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	Co(9)-O(9W)#1	2.097(8)	O(40)-Mo(7)-O(34)	83.3(3)
Co(9)-O(10W) $2.074(8)$ $O(50)-Mo(7)-O(34)$ $77.4(3)$ $Co(9)-O(11W)$ #1 $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(30)$ $159.3(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(11)$ $159.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(62)$ $97.0(3)$ $O(21)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	Co(9)-O(10W)#1	2.074(8)	O(40)-Mo(7)-O(50)	84.6(3)
Co(9)-O(11W)#1 $2.092(9)$ $O(51)-Mo(7)-O(1)$ $103.0(3)$ $Co(9)-O(11W)$ $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(30)$ $159.3(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(4W)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(62)$ $97.0(3)$ $O(21)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(1A)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	Co(9)-O(10W)	2.074(8)	O(50)-Mo(7)-O(34)	77.4(3)
Co(9)-O(11W) $2.092(9)$ $O(51)-Mo(7)-O(2)$ $104.2(3)$ $O(38)-Co(5)-O(4)$ $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(30)$ $159.3(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(4W)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(62)$ $97.0(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	Co(9)-O(11W)#1	2.092(9)	O(51)-Mo(7)-O(1)	103.0(3)
O(38)-Co(5)-O(4) $92.9(3)$ $O(51)-Mo(7)-O(34)$ $172.8(3)$ $O(38)-Co(5)-O(30)$ $159.3(3)$ $O(51)-Mo(7)-O(40)$ $93.8(3)$ $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(5W)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(6W)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(11)$ $159.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(62)$ $97.0(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(6W)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	Co(9)-O(11W)	2.092(9)	O(51)-Mo(7)-O(2)	104.2(3)
O(38)-Co(5)-O(30)159.3(3) $O(51)-Mo(7)-O(40)$ 93.8(3) $O(39)-Co(5)-O(5W)$ $84.8(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(6W)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(11)$ $159.7(3)$ $O(21)-Co(6)-O(62)$ $97.0(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(62)$ $97.0(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(1A)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(1A)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	O(38)-Co(5)-O(4)	92.9(3)	O(51)-Mo(7)-O(34)	172.8(3)
O(39)-Co(5)-O(5W) $84.8(3)$ $O(51)-Mo(7)-O(50)$ $95.7(3)$ $O(39)-Co(5)-O(4)$ $102.4(3)$ $O(6)-Mo(8)-O(11)$ $88.2(3)$ $O(39)-Co(5)-O(30)$ $90.3(3)$ $O(6)-Mo(8)-O(20)$ $80.2(3)$ $O(39)-Co(5)-O(38)$ $77.6(3)$ $O(6)-Mo(8)-O(56)$ $162.4(3)$ $O(6W)-Co(6)-O(1A)$ $174.2(3)$ $O(11)-Mo(8)-O(20)$ $78.2(2)$ $O(21)-Co(6)-O(1A)$ $98.3(3)$ $O(21)-Mo(8)-O(6)$ $94.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(11)$ $159.7(3)$ $O(21)-Co(6)-O(6W)$ $86.3(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(21)-Co(6)-O(62)$ $97.0(3)$ $O(21)-Mo(8)-O(20)$ $82.5(3)$ $O(38)-Co(6)-O(1A)$ $84.4(3)$ $O(56)-Mo(8)-O(11)$ $85.2(3)$ $O(38)-Co(6)-O(6W)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(6W)$ $98.4(3)$ $O(56)-Mo(8)-O(20)$ $82.6(3)$ $O(38)-Co(6)-O(21)$ $98.2(3)$ $O(64)-Mo(8)-O(6)$ $102.6(3)$	O(38)-Co(5)-O(30)	159.3(3)	O(51)-Mo(7)-O(40)	93.8(3)
$\begin{array}{ccccccc} O(39)-Co(5)-O(4) & 102.4(3) & O(6)-Mo(8)-O(11) & 88.2(3) \\ O(39)-Co(5)-O(30) & 90.3(3) & O(6)-Mo(8)-O(20) & 80.2(3) \\ O(39)-Co(5)-O(38) & 77.6(3) & O(6)-Mo(8)-O(56) & 162.4(3) \\ O(6W)-Co(6)-O(1A) & 174.2(3) & O(11)-Mo(8)-O(20) & 78.2(2) \\ O(21)-Co(6)-O(1A) & 98.3(3) & O(21)-Mo(8)-O(6) & 94.7(3) \\ O(21)-Co(6)-O(6W) & 86.3(3) & O(21)-Mo(8)-O(11) & 159.7(3) \\ O(21)-Co(6)-O(39) & 169.1(3) & O(21)-Mo(8)-O(20) & 82.5(3) \\ O(21)-Co(6)-O(62) & 97.0(3) & O(21)-Mo(8)-O(56) & 86.1(3) \\ O(38)-Co(6)-O(1A) & 84.4(3) & O(56)-Mo(8)-O(11) & 85.2(3) \\ O(38)-Co(6)-O(6W) & 98.4(3) & O(56)-Mo(8)-O(20) & 82.6(3) \\ O(38)-Co(6)-O(21) & 98.2(3) & O(64)-Mo(8)-O(6) & 102.6(3) \\ \end{array}$	O(39)-Co(5)-O(5W)	84.8(3)	O(51)-Mo(7)-O(50)	95.7(3)
$\begin{array}{cccccccc} O(39)-Co(5)-O(30) & 90.3(3) & O(6)-Mo(8)-O(20) & 80.2(3) \\ O(39)-Co(5)-O(38) & 77.6(3) & O(6)-Mo(8)-O(56) & 162.4(3) \\ O(6W)-Co(6)-O(1A) & 174.2(3) & O(11)-Mo(8)-O(20) & 78.2(2) \\ O(21)-Co(6)-O(1A) & 98.3(3) & O(21)-Mo(8)-O(6) & 94.7(3) \\ O(21)-Co(6)-O(6W) & 86.3(3) & O(21)-Mo(8)-O(11) & 159.7(3) \\ O(21)-Co(6)-O(39) & 169.1(3) & O(21)-Mo(8)-O(20) & 82.5(3) \\ O(21)-Co(6)-O(62) & 97.0(3) & O(21)-Mo(8)-O(56) & 86.1(3) \\ O(38)-Co(6)-O(1A) & 84.4(3) & O(56)-Mo(8)-O(11) & 85.2(3) \\ O(38)-Co(6)-O(6W) & 98.4(3) & O(56)-Mo(8)-O(20) & 82.6(3) \\ O(38)-Co(6)-O(21) & 98.2(3) & O(64)-Mo(8)-O(6) & 102.6(3) \\ \end{array}$	O(39)-Co(5)-O(4)	102.4(3)	O(6)-Mo(8)-O(11)	88.2(3)
$\begin{array}{ccccccc} O(39)-Co(5)-O(38) & 77.6(3) & O(6)-Mo(8)-O(56) & 162.4(3) \\ O(6W)-Co(6)-O(1A) & 174.2(3) & O(11)-Mo(8)-O(20) & 78.2(2) \\ O(21)-Co(6)-O(1A) & 98.3(3) & O(21)-Mo(8)-O(6) & 94.7(3) \\ O(21)-Co(6)-O(6W) & 86.3(3) & O(21)-Mo(8)-O(11) & 159.7(3) \\ O(21)-Co(6)-O(39) & 169.1(3) & O(21)-Mo(8)-O(20) & 82.5(3) \\ O(21)-Co(6)-O(62) & 97.0(3) & O(21)-Mo(8)-O(56) & 86.1(3) \\ O(38)-Co(6)-O(1A) & 84.4(3) & O(56)-Mo(8)-O(11) & 85.2(3) \\ O(38)-Co(6)-O(6W) & 98.4(3) & O(56)-Mo(8)-O(20) & 82.6(3) \\ O(38)-Co(6)-O(21) & 98.2(3) & O(64)-Mo(8)-O(6) & 102.6(3) \\ \end{array}$	O(39)-Co(5)-O(30)	90.3(3)	O(6)-Mo(8)-O(20)	80.2(3)
$\begin{array}{ccccc} O(6W)-Co(6)-O(1A) & 174.2(3) & O(11)-Mo(8)-O(20) & 78.2(2) \\ O(21)-Co(6)-O(1A) & 98.3(3) & O(21)-Mo(8)-O(6) & 94.7(3) \\ O(21)-Co(6)-O(6W) & 86.3(3) & O(21)-Mo(8)-O(11) & 159.7(3) \\ O(21)-Co(6)-O(39) & 169.1(3) & O(21)-Mo(8)-O(20) & 82.5(3) \\ O(21)-Co(6)-O(62) & 97.0(3) & O(21)-Mo(8)-O(56) & 86.1(3) \\ O(38)-Co(6)-O(1A) & 84.4(3) & O(56)-Mo(8)-O(11) & 85.2(3) \\ O(38)-Co(6)-O(6W) & 98.4(3) & O(56)-Mo(8)-O(20) & 82.6(3) \\ O(38)-Co(6)-O(21) & 98.2(3) & O(64)-Mo(8)-O(6) & 102.6(3) \\ \end{array}$	O(39)-Co(5)-O(38)	77.6(3)	O(6)-Mo(8)-O(56)	162.4(3)
$\begin{array}{cccc} O(21)-Co(6)-O(1A) & 98.3(3) & O(21)-Mo(8)-O(6) & 94.7(3) \\ O(21)-Co(6)-O(6W) & 86.3(3) & O(21)-Mo(8)-O(11) & 159.7(3) \\ O(21)-Co(6)-O(39) & 169.1(3) & O(21)-Mo(8)-O(20) & 82.5(3) \\ O(21)-Co(6)-O(62) & 97.0(3) & O(21)-Mo(8)-O(56) & 86.1(3) \\ O(38)-Co(6)-O(1A) & 84.4(3) & O(56)-Mo(8)-O(11) & 85.2(3) \\ O(38)-Co(6)-O(6W) & 98.4(3) & O(56)-Mo(8)-O(20) & 82.6(3) \\ O(38)-Co(6)-O(21) & 98.2(3) & O(64)-Mo(8)-O(6) & 102.6(3) \\ \end{array}$	O(6W)-Co(6)-O(1A)	174.2(3)	O(11)-Mo(8)-O(20)	78.2(2)
$\begin{array}{cccc} O(21)-Co(6)-O(6W) & 86.3(3) & O(21)-Mo(8)-O(11) & 159.7(3) \\ O(21)-Co(6)-O(39) & 169.1(3) & O(21)-Mo(8)-O(20) & 82.5(3) \\ O(21)-Co(6)-O(62) & 97.0(3) & O(21)-Mo(8)-O(56) & 86.1(3) \\ O(38)-Co(6)-O(1A) & 84.4(3) & O(56)-Mo(8)-O(11) & 85.2(3) \\ O(38)-Co(6)-O(6W) & 98.4(3) & O(56)-Mo(8)-O(20) & 82.6(3) \\ O(38)-Co(6)-O(21) & 98.2(3) & O(64)-Mo(8)-O(6) & 102.6(3) \\ \end{array}$	O(21)-Co(6)-O(1A)	98.3(3)	O(21)-Mo(8)-O(6)	94.7(3)
O(21)-Co(6)-O(39)169.1(3)O(21)-Mo(8)-O(20)82.5(3)O(21)-Co(6)-O(62)97.0(3)O(21)-Mo(8)-O(56)86.1(3)O(38)-Co(6)-O(1A)84.4(3)O(56)-Mo(8)-O(11)85.2(3)O(38)-Co(6)-O(6W)98.4(3)O(56)-Mo(8)-O(20)82.6(3)O(38)-Co(6)-O(21)98.2(3)O(64)-Mo(8)-O(6)102.6(3)	O(21)-Co(6)-O(6W)	86.3(3)	O(21)-Mo(8)-O(11)	159.7(3)
O(21)-Co(6)-O(62)97.0(3)O(21)-Mo(8)-O(56)86.1(3)O(38)-Co(6)-O(1A)84.4(3)O(56)-Mo(8)-O(11)85.2(3)O(38)-Co(6)-O(6W)98.4(3)O(56)-Mo(8)-O(20)82.6(3)O(38)-Co(6)-O(21)98.2(3)O(64)-Mo(8)-O(6)102.6(3)	O(21)-Co(6)-O(39)	169.1(3)	O(21)-Mo(8)-O(20)	82.5(3)
O(38)-Co(6)-O(1A)84.4(3)O(56)-Mo(8)-O(11)85.2(3)O(38)-Co(6)-O(6W)98.4(3)O(56)-Mo(8)-O(20)82.6(3)O(38)-Co(6)-O(21)98.2(3)O(64)-Mo(8)-O(6)102.6(3)	O(21)-Co(6)-O(62)	97.0(3)	O(21)-Mo(8)-O(56)	86.1(3)
O(38)-Co(6)-O(6W)98.4(3)O(56)-Mo(8)-O(20)82.6(3)O(38)-Co(6)-O(21)98.2(3)O(64)-Mo(8)-O(6)102.6(3)	O(38)-Co(6)-O(1A)	84.4(3)	O(56)-Mo(8)-O(11)	85.2(3)
O(38)-Co(6)-O(21) 98.2(3) O(64)-Mo(8)-O(6) 102.6(3)	O(38)-Co(6)-O(6W)	98.4(3)	O(56)-Mo(8)-O(20)	82.6(3)
	O(38)-Co(6)-O(21)	98.2(3)	O(64)-Mo(8)-O(6)	102.6(3)

O(38)-Co(6)-O(39)	80.5(3)	O(64)-Mo(8)-O(11)	95.5(3)
O(38)-Co(6)-O(62)	152.7(3)	O(64)-Mo(8)-O(20)	173.1(3)
O(39)-Co(6)-O(1A)	92.4(3)	O(64)-Mo(8)-O(21)	103.4(3)
O(39)-Co(6)-O(6W)	83.2(3)	O(64)-Mo(8)-O(56)	94.2(3)
O(62)-Co(6)-O(1A)	71.1(3)	O(1W)-Co(1)-O(24)	101.3(3)
O(62)-Co(6)-O(6W)	105.0(3)	O(1W)-Co(1)-O(41)	166.6(3)
O(62)-Co(6)-O(39)	88.6(3)	O(1W)-Co(1)-O(54)	94.5(3)
O(7W)-Co(7)-O(2A)	175.9(3)	O(10)-Co(1)-O(1W)	87.5(3)
O(24)#1-Co(7)-O(2A)	84.9(3)	O(10)-Co(1)-O(24)	92.9(3)
O(24)#1-Co(7)-O(7W)	99.2(3)	O(10)-Co(1)-O(41)	88.5(2)
O(24)#1-Co(7)-O(25)	154.8(3)	O(10)-Co(1)-O(48)	165.9(3)
O(24)#1-Co(7)-O(48)#1	79.4(3)	O(10)-Co(1)-O(54)	102.2(3)
O(25)-Co(7)-O(2A)	72.6(3)	O(24)-Co(1)-O(41)	91.7(3)
O(25)-Co(7)-O(7W)	103.3(3)	O(24)-Co(1)-O(54)	158.7(3)
O(28)-Co(7)-O(2A)	93.4(3)	O(41)-Co(1)-O(54)	73.9(3)
O(28)-Co(7)-O(7W)	86.4(3)	O(48)-Co(1)-O(1W)	83.7(3)
O(28)-Co(7)-O(24)#1	97.9(3)	O(48)-Co(1)-O(24)	78.1(3)
O(28)-Co(7)-O(25)	94.7(3)	O(48)-Co(1)-O(41)	102.5(3)
O(28)-Co(7)-O(48)#1	171.4(3)	O(48)-Co(1)-O(54)	89.5(3)
O(48)#1-Co(7)-O(2A)	94.5(3)	O(2W)-Co(2)-O(1A)	176.3(3)
O(48)#1-Co(7)-O(7W)	86.0(3)	O(2W)-Co(2)-O(15)	99.2(3)
O(48)#1-Co(7)-O(25)	91.0(3)	O(2W)-Co(2)-O(59)	85.6(3)
O(8W)-Co(8)-O(2A)	176.6(3)	O(2W)-Co(2)-O(62)	104.9(3)
O(8W)-Co(8)-O(47)#1	85.6(3)	O(15)-Co(2)-O(1A)	83.7(3)
O(2)-Co(8)-O(2A)	93.3(3)	O(15)-Co(2)-O(59)	79.8(3)
O(2)-Co(8)-O(8W)	86.0(3)	O(15)-Co(2)-O(62)	154.0(3)
O(2)-Co(8)-O(22)#1	97.3(3)	O(16)-Co(2)-O(1A)	90.4(3)
O(2)-Co(8)-O(25)	94.5(3)	O(16)-Co(2)-O(2W)	86.9(3)
O(2)-Co(8)-O(47)#1	171.0(3)	O(16)-Co(2)-O(15)	99.6(3)
O(22)#1-Co(8)-O(2A)	82.8(3)	O(16)-Co(2)-O(59)	172.3(3)
O(22)#1-Co(8)-O(8W)	100.5(3)	O(16)-Co(2)-O(62)	91.6(3)
O(22)#1-Co(8)-O(25)	153.9(3)	O(59)-Co(2)-O(1A)	97.2(3)
O(22)#1-Co(8)-O(47)#1	81.2(3)	O(62)-Co(2)-O(1A)	72.7(3)
O(25)-Co(8)-O(2A)	73.4(3)	O(62)-Co(2)-O(59)	92.1(3)
O(25)-Co(8)-O(8W)	103.4(3)	O(3W)-Co(3)-O(4)	167.8(3)
O(25)-Co(8)-O(47)#1	90.4(3)	O(3W)-Co(3)-O(15)	100.4(3)
O(47)#1-Co(8)-O(2A)	95.3(3)	O(3W)-Co(3)-O(30)	95.7(3)
O(9W)#1-Co(9)-O(9W)	180.0(4)	O(3W)-Co(3)-O(59)	85.1(3)
O(10W)#1-Co(9)-O(9W)	87.2(3)	O(1)-Co(3)-O(3W)	86.1(3)
O(10W)#1-Co(9)-O(9W)#1	92.8(3)	O(1)-Co(3)-O(4)	88.3(3)

O(22)-Co(4)-O(41)	90.8(3)	O(1)-Co(3)-O(15)	93.9(3)
O(22)-Co(4)-O(54)	158.3(3)	O(1)-Co(3)-O(30)	101.5(3)
O(47)-Co(4)-O(22)	79.4(2)	O(1)-Co(3)-O(59)	167.7(3)
O(47)-Co(4)-O(41)	103.0(3)	O(15)-Co(3)-O(4)	90.8(2)
O(47)-Co(4)-O(54)	89.1(3)	O(15)-Co(3)-O(30)	158.4(3)
O(54)-Co(4)-O(41)	73.9(2)	O(15)-Co(3)-O(59)	79.2(2)
O(5W)-Co(5)-O(4)	165.6(3)	O(30)-Co(3)-O(4)	74.8(2)
O(5W)-Co(5)-O(30)	94.7(3)	O(59)-Co(3)-O(4)	101.9(3)
O(5W)-Co(5)-O(38)	100.9(3)	O(59)-Co(3)-O(30)	87.9(3)
O(4)-Co(5)-O(30)	73.1(2)	O(4W)-Co(4)-O(22)	101.3(3)
O(26)-Co(5)-O(5W)	86.6(3)	O(4W)-Co(4)-O(41)	167.4(3)
O(26)-Co(5)-O(4)	88.7(3)	O(4W)-Co(4)-O(47)	82.8(3)
O(26)-Co(5)-O(30)	102.5(3)	O(4W)-Co(4)-O(54)	95.3(3)
O(26)-Co(5)-O(38)	92.1(3)	O(6)-Co(4)-O(4W)	87.6(3)
O(26)-Co(5)-O(39)	165.2(3)	O(6)-Co(4)-O(22)	93.1(3)
O(6)-Co(4)-O(47)	166.4(3)	O(6)-Co(4)-O(41)	88.3(3)
O(6)-Co(4)-O(54)	101.5(3)		

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

Reference

- [1] W. Yao, C. Qin, N. Xu, J. Zhou, C. Sun, L. Liu, Z. Su, CrystEngComm, 21 (2019) 6423-6431.
- [2] K. Yu, B.B. Zhou, Y. Yu, Z.H. Su, G.Y. Yang, Inorg Chem, 50 (2011) 1862-1867.
- [3] R.K. Kang, Y.Y. Dong, J.P. Cao, X.M. Luo, Z.Y. Du, D. Zhu, Y. Xu, Chemistry, 27 (2021) 1301-1305.
- [4] Z. Y. Du, Z. Chen, R. K. Kang, Y. M. Han, J. Ding, J. P. Cao, W. Jiang, M. Fang, H. Mei, Y. Xu, Inorg. Chem. 59 (2020) 12876-12883.
- [5] J.N. Li, Z.Y. Du, N.F. Li, Y.M. Han, T.T. Zang, M.X. Yang, X.M. Liu, J.L. Wang, H. Mei, Y. Xu, Dalton Trans, 50 (2021) 9137-9143.
- [6] J. Du, Y. Y. Ma, X. Xin, H. Na, Y. N. Zhao, H. Q. Tan, Z. G. Han, Y. G. Li, Z. H. Kang, Chem. Eng. J. 398 (2020), 125518.
- [7] W. Yao, C. Qin, N. Xu, J. Zhou, C. Y. Sun, L. Liu, Z. M. Su, Crystengcomm. 21 (2019) 6423-6431.
- [8] J. Zhou, W. C. Chen, C. Y. Sun, L. Han, C. Qin, M. M. Chen, X. L. Wang, E. B. Wang, Z. M. Su, ACS. Appl. Mater. Interfaces. 9 (2017), 11689-11695.
- [9] L. Z. Qiao, M. Song, A. F. Geng, S. Yao, Chin. Chem. Lett. 30 (2019) 1273-1276.
- [10] X. Yu, C. C. Zhao, J. X. Gu, C. Y. Sun, H. Y. Zheng, L. K. Yan, M. Sun, X. L. Wang, Z. M. Su, Inorg. Chem. 60 (2021), 7364-7371.
- [11] X.M. Liu, R.K. Kang, J.L. Wang, J.N.A. Li, Q.L. Chen, Y. Xu, Chempluschem. 86 (2021) 1014-1020.
- [12] M. Li, Y. Fu, S. You, Y. Yang, C. Qin, L. Zhao and Z. Su, Inorg. Chem. Commun. 134 (2021), 109009.
- [13] M. Lu, M. Zhang, J. Liu, T. Y. Yu, J. N. Chang, L. J. Shang, S. L. Li and Y. Q. Lan, J Am Chem Soc, 144 (2022) 1861-1871.