

Coordination polymer {[Cu(im)₂]₃K[β-Mo₈O₂₆]}_n

Li-Min Wang* and De-Qing Chu*

Selected bond lengths (Å) and angles (°) for the crystallographically independent unit of compound **1**:

Mo(1)-O(4)	1.697(8)	Mo(1)-O(7)	1.705(9);	Mo(1)-O(10)	1.932(8)
Mo(1)-O(9)	1.934(8)	Mo(1)-O(8)#1	2.263(7)	Mo(1)-O(13)#1	2.476(7)
Mo(2)-O(6)	1.686(8)	Mo(2)-O(1)	1.716(8)	Mo(2)-O(10)	1.916(9)
Mo(2)-O(12)	2.002(9)	Mo(2)-O(13)#1	2.310(6)	Mo(2)-O(11)#1	2.337(7)
Mo(3)-O(5)	1.686(9)	Mo(3)-O(3)	1.713(8)	Mo(3)-O(9)	1.881(9)
Mo(3)-O(11)	2.015(8)	Mo(3)-O(13)#1	2.320(7)	Mo(3)-O(12)#1	2.322(8)
Mo(4)-O(2)	1.698(7)	Mo(4)-O(8)	1.746(8)	Mo(4)-O(11)	1.942(7)
Mo(4)-O(12)	1.964(8)	Mo(4)-O(13)#1	2.135(7)	Mo(4)-O(13)	2.358(7)
Mo(5)-O(19)	1.683(8)	Mo(5)-O(14)	1.695(8)	Mo(5)-O(21)	1.866(9)
Mo(5)-O(24)	2.023(8)	Mo(5)-O(26)	2.314(7)	Mo(5)-O(25)	2.351(7)
Mo(6)-O(15)	1.687(8)	Mo(6)-O(23)#2	1.760(8)	Mo(6)-O(24)	1.918(7)
Mo(6)-O(25)#2	1.968(8)	Mo(6)-O(26)	2.143(8)	Mo(6)-O(26)#2	2.329(7)
Mo(7)-O(20)	1.695(9)	Mo(7)-O(16)	1.703(8)	Mo(7)-O(22)	1.890(8)
Mo(7)-O(25)#2	1.997(8)	Mo(7)-O(24)#2	2.315(7)	Mo(7)-O(26)	2.322(7)
Mo(8)-O(17)	1.698(8)	Mo(8)-O(18)	1.707(9)	Mo(8)-O(22)	1.909(8)
Mo(8)-O(21)	1.932(7)	Mo(8)-O(23)	2.302(7)	Mo(8)-O(26)	2.458(8)
Mo(4)-O(8)-Mo(1)#1	118.7(4)	Mo(3)-O(9)-Mo(1)	116.1(5)		
Mo(2)-O(10)-Mo(1)	115.7(4)	Mo(4)-O(11)-Mo(3)	109.4(3)		
Mo(4)-O(11)-Mo(2)#1	109.6(3)	Mo(3)-O(11)-Mo(2)#1	104.1(3)		
Mo(4)-O(12)-Mo(2)	108.0(4)	Mo(4)-O(12)-Mo(3)#1	110.0(3)		
Mo(2)-O(12)-Mo(3)#1	105.1(3)	Mo(4)#1-O(13)-Mo(2)#1	92.3(3)		
Mo(4)#1-O(13)-Mo(3)#1	92.8(3)	Mo(2)#1-O(13)-Mo(3)#1	162.6(4)		
Mo(4)#1-O(13)-Mo(4)	104.4(3)	Mo(2)#1-O(13)-Mo(4)	97.3(3)		
Mo(3)#1-O(13)-Mo(4)	97.5(2)	Mo(4)#1-O(13)-Mo(1)#1	164.3(4)		
Mo(2)#1-O(13)-Mo(1)#1	85.7(2)	Mo(3)#1-O(13)-Mo(1)#1	84.8(2)		
Mo(4)-O(13)-Mo(1)#1	91.3(3)	Mo(5)-O(21)-Mo(8)	117.2(4)		
Mo(7)-O(22)-Mo(8)	116.7(4)	Mo(6)#2-O(23)-Mo(8)	114.9(4)		
Mo(6)-O(24)-Mo(5)	109.4(3)	Mo(6)-O(24)-Mo(7)#2	110.4(4)		
Mo(5)-O(24)-Mo(7)#2	104.0(3)	Mo(6)#2-O(25)-Mo(7)#2	108.6(4)		
Mo(6)#2-O(25)-Mo(5)	109.0(3)	Mo(7)#2-O(25)-Mo(5)	103.6(3)		
Mo(6)-O(26)-Mo(5)	92.3(3)	Mo(6)-O(26)-Mo(7)	92.2(3)		

Mo(5)-O(26)-Mo(7)	161.9(4)	Mo(6)-O(26)-Mo(6)#2	104.9(3)		
Mo(5)-O(26)-Mo(6)#2	98.7(3)	Mo(7)-O(26)-Mo(6)#2	97.0(3)		
Mo(6)-O(26)-Mo(8)	163.4(4)	Mo(5)-O(26)-Mo(8)	85.5(2)		
Mo(7)-O(26)-Mo(8)	85.1(2)	Mo(6)#2-O(26)-Mo(8)	91.7(3)		
Symmetry codes: #1 -x+1,-y-1,-z+1 #2 -x+1,-y,-z					
:					
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Mo(2)-O(12)	2.002(9)	Mo(2)-O(13)#1	2.310(6)	Mo(2)-O(11)#1	2.337(7)
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Mo(5)-O(19)	1.683(8)	Mo(5)-O(14)	1.695(8)	Mo(5)-O(21)	1.866(9)
Mo(5)-O(24)	2.023(8)	Mo(5)-O(26)	2.314(7)	Mo(5)-O(25)	2.351(7)
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Mo(7)-O(25)#2	1.997(8)	Mo(7)-O(24)#2	2.315(7)	Mo(7)-O(26)	2.322(7)
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Mo(8)-O(21)	1.932(7)	Mo(8)-O(23)	2.302(7)	Mo(8)-O(26)	2.458(8)
Mo(4)-O(8)-Mo(1)#1	118.7(4)	Mo(3)-O(9)-Mo(1)	116.1(5)		
Mo(2)-O(10)-Mo(1)	115.7(4)	Mo(4)-O(11)-Mo(3)	109.4(3)		
Mo(4)-O(11)-Mo(2)#1	109.6(3)	Mo(3)-O(11)-Mo(2)#1	104.1(3)		
Mo(4)-O(12)-Mo(2)	108.0(4)	Mo(4)-O(12)-Mo(3)#1	110.0(3)		
Mo(2)-O(12)-Mo(3)#1	105.1(3)	Mo(4)#1-O(13)-Mo(2)#1	92.3(3)		
Mo(4)#1-O(13)-Mo(3)#1	92.8(3)	Mo(2)#1-O(13)-Mo(3)#1	162.6(4)		
Mo(4)#1-O(13)-Mo(4)	104.4(3)	Mo(2)#1-O(13)-Mo(4)	97.3(3)		
Mo(3)#1-O(13)-Mo(4)	97.5(2)	Mo(4)#1-O(13)-Mo(1)#1	164.3(4)		
Mo(2)#1-O(13)-Mo(1)#1	85.7(2)	Mo(3)#1-O(13)-Mo(1)#1	84.8(2)		
Mo(4)-O(13)-Mo(1)#1	91.3(3)	Mo(5)-O(21)-Mo(8)	117.2(4)		
Mo(7)-O(22)-Mo(8)	116.7(4)	Mo(6)#2-O(23)-Mo(8)	114.9(4)		
Mo(6)-O(24)-Mo(5)	109.4(3)	Mo(6)-O(24)-Mo(7)#2	110.4(4)		
Mo(5)-O(24)-Mo(7)#2	104.0(3)	Mo(6)#2-O(25)-Mo(7)#2	108.6(4)		
Mo(6)#2-O(25)-Mo(5)	109.0(3)	Mo(7)#2-O(25)-Mo(5)	103.6(3)		
Mo(6)-O(26)-Mo(5)	92.3(3)	Mo(6)-O(26)-Mo(7)	92.2(3)		
Mo(5)-O(26)-Mo(7)	161.9(4)	Mo(6)-O(26)-Mo(6)#2	104.9(3)		
Mo(5)-O(26)-Mo(6)#2	98.7(3)	Mo(7)-O(26)-Mo(6)#2	97.0(3)		
Mo(6)-O(26)-Mo(8)	163.4(4)	Mo(5)-O(26)-Mo(8)	85.5(2)		
Mo(7)-O(26)-Mo(8)	85.1(2)	Mo(6)#2-O(26)-Mo(8)	91.7(3)		
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