

Discrete and polymeric ensembles based on dinuclear molybdenum(VI) building blocks with adaptive carbohydrazide ligands: from the design to catalytic epoxidation

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Electronic Supplementary Information

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Molecular and crystal structures

Table S1. General and crystal data, summary of intensity data collection and structure refinement for **1a**, **1b·CH₃CN**, **5a·CH₃OH**, **5a·0.64CH₃OH**, **5b·CH₃CN**, **6a**, **6b·2CH₃CN** and **H₄L**⁶

Identification code	1a	1b·CH₃CN	5a·CH₃OH	5a·0.64CH₃OH	5b·CH₃CN	6a	6b·2CH₃CN	H₄L ⁶
Empirical formula	C ₁₇ H ₁₈ Mo ₂ N ₄ O ₉	C ₂₃ H ₂₁ Mo ₂ N ₉ O ₇	C ₂₀ H ₂₆ Mo ₂ N ₄ O ₁₂	C _{19.64} H ₂₂ Mo ₂ N ₄ O _{11.64}	C ₂₅ H ₂₅ Mo ₂ N ₉ O ₉	C ₁₉ H ₂₂ Mo ₂ N ₄ O ₁₁	C ₂₇ H ₂₈ Mo ₂ N ₁₀ O ₉	C ₁₇ H ₁₈ N ₄ O ₅
<i>M_r</i>	614.23	727.37	706.33	692.21	787.42	674.28	828.47	358.35
<i>T</i> /K	295(2)	150(2)	150(2)	150(2)	150(2)	295(2)	150(2)	298(2)
Crystal system	triclinic	monoclinic	triclinic	triclinic	triclinic	triclinic	triclinic	monoclinic
Space group	<i>P</i> -1	<i>P</i> 2 ₁ / <i>n</i>	<i>P</i> -1	<i>P</i> -1	<i>P</i> -1	<i>P</i> -1	<i>P</i> -1	<i>C</i> 2/ <i>c</i>
<i>a</i> /Å	7.2762(3)	8.6920(4)	9.6337(5)	7.4466(4)	8.2715(3)	7.4676(3)	8.6152(4)	9.3305(8)
<i>b</i> /Å	11.2625(3)	26.7430(8)	11.0989(6)	13.8570(9)	12.1751(5)	11.7394(4)	13.1856(7)	10.2881(7)
<i>c</i> /Å	25.8472(7)	11.6059(4)	13.1012(8)	14.0640(8)	15.0901(5)	14.8772(6)	15.5721(8)	18.0461(16)
<i>α</i> /°	88.871(2)	90	112.619(5)	112.516(5)	85.958(3)	105.949(3)	75.325(4)	90
<i>β</i> /°	86.314(3)	96.219(4)	98.807(5)	98.637(4)	87.645(3)	103.394(3)	74.393(4)	104.692(8)
<i>γ</i> /°	89.709(2)	90	94.858(4)	97.085(5)	81.166(3)	96.009(3)	85.158(4)	90
<i>V</i> /Å ³	2113.32(12)	2681.92(17)	1261.91(13)	1299.16(14)	1497.20(10)	1199.98(8)	1647.89(15)	1675.7(2)
<i>Z</i>	4	4	2	2	2	2	2	4
<i>ρ</i> _{calc} /g cm ⁻³	1.931	1.801	1.859	1.774	1.747	1.866	1.67	1.420
<i>μ</i> /mm ⁻¹	1.245	0.997	1.064	1.031	0.905	1.111	0.827	0.107
F(000)	1216	1448	708	689.9	788	672	832	752.0
Crystal size/mm ³	0.38 × 0.25 × 0.03	0.30 × 0.03 × 0.01	0.42 × 0.32 × 0.09	0.13 × 0.07 × 0.06	0.4 × 0.3 × 0.1	0.18 × 0.10 × 0.03	0.3 × 0.2 × 0.1	0.2 × 0.2 × 0.05
Radiation	Mo Kα (λ = 0.71073 Å)							
2θ range/°	8.18 to 52.998	8.264 to 57.994	8.342 to 66.08	5.42 to 59	4.2 to 65.71	8.448 to 58	4.724 to 58.998	8.26 to 53.974
Index ranges	-9 ≤ <i>h</i> ≤ 9 -14 ≤ <i>k</i> ≤ 14 -32 ≤ <i>l</i> ≤ 29	-11 ≤ <i>h</i> ≤ 11 -36 ≤ <i>k</i> ≤ 36 -9 ≤ <i>l</i> ≤ 15	-14 ≤ <i>h</i> ≤ 14 -16 ≤ <i>k</i> ≤ 16 -19 ≤ <i>l</i> ≤ 20	-10 ≤ <i>h</i> ≤ 10 -17 ≤ <i>k</i> ≤ 19 -19 ≤ <i>l</i> ≤ 19	-10 ≤ <i>h</i> ≤ 12 -18 ≤ <i>k</i> ≤ 17 -22 ≤ <i>l</i> ≤ 22	-10 ≤ <i>h</i> ≤ 8 -16 ≤ <i>k</i> ≤ 15 -18 ≤ <i>l</i> ≤ 20	-11 ≤ <i>h</i> ≤ 11 -18 ≤ <i>k</i> ≤ 18 -21 ≤ <i>l</i> ≤ 20	-11 ≤ <i>h</i> ≤ 11 -13 ≤ <i>k</i> ≤ 13 -22 ≤ <i>l</i> ≤ 22
Reflections collected	15343	22137	28141	22705	18424	12820	18887	7739
Independent reflections	8699 [<i>R</i> _{int} = 0.0259, <i>R</i> _{sigma} = 0.0456]	6465 [<i>R</i> _{int} = 0.0636, <i>R</i> _{sigma} = 0.0865]	8570 [<i>R</i> _{int} = 0.0378, <i>R</i> _{sigma} = 0.0427]	7244 [<i>R</i> _{int} = 0.0916, <i>R</i> _{sigma} = 0.1160]	9788 [<i>R</i> _{int} = 0.0315, <i>R</i> _{sigma} = 0.0513]	6347 [<i>R</i> _{int} = 0.0399, <i>R</i> _{sigma} = 0.0703]	9170 [<i>R</i> _{int} = 0.0488, <i>R</i> _{sigma} = 0.0770]	1821 [<i>R</i> _{int} = 0.0566, <i>R</i> _{sigma} = 0.0697]

Data/restraints/ parameters	8699/12/593	6465/2/377	8570/3/357	7244/12/356	9788/1/437	6347/2/335	9170/2/443	1821/5/125
g_1, g_2 in w^a	0.0013, 15.8437	0.0343, 0.3084	0.0401, 1.5379	0.0511, 0.9217	0.0277, 0.6461	0.0343, 0	0.0391, 0	0.0317, 0
Goodness-of-fit on F_o^2, S^b	1.194	1.019	1.045	1.054	1.061	1.001	1.021	1.053
Final R and wR^c values [$I \geq 2\sigma(I)$]	$R_1 = 0.0529, wR_2 =$ 0.1176	$R_1 = 0.0472, wR_2 =$ 0.0853	$R_1 = 0.0364, wR_2 =$ 0.0859	$R_1 = 0.0633, wR_2 =$ 0.1267	$R_1 = 0.0344, wR_2 =$ 0.0723	$R_1 = 0.0433, wR_2 =$ 0.0814	$R_1 = 0.0433, wR_2 =$ 0.0906	$R_1 = 0.0664, wR_2 =$ 0.1061
Final R and wR^c values [all data]	$R_1 = 0.0597, wR_2 =$ 0.1205	$R_1 = 0.0865, wR_2 =$ 0.0977	$R_1 = 0.0521, wR_2 =$ 0.0968	$R_1 = 0.1156, wR_2 =$ 0.1477	$R_1 = 0.0508, wR_2 =$ 0.0803	$R_1 = 0.0783, wR_2 =$ 0.0929	$R_1 = 0.0724, wR_2 =$ 0.1001	$R_1 = 0.1372, wR_2 =$ 0.1242
Largest diff. peak/hole / $e \text{ \AA}^{-3}$	0.90/-0.71	0.76/-0.59	1.56/-0.84	1.26/-1.17	1.29/-0.81	0.73/-0.59	0.80/-0.66	0.14/-0.14

$$^a w = 1/[\sigma^2(F_o^2) + (g_1 P)^2 + g_2 P] \text{ where } P = (F_o^2 + 2F_c^2)/3$$

$$^b S = \{\Sigma[w(F_o^2 - F_c^2)^2]/(N_r - N_p)\}^{1/2} \text{ where } N_r = \text{number of independent reflections, } N_p = \text{number of refined parameters.}$$

$$^c R = \Sigma||F_o| - |F_c|| / \Sigma|F_o|; wR = \{\Sigma[w(F_o^2 - F_c^2)^2]/\Sigma[w(F_o^2)^2]\}^{1/2}$$

Description of molecular and crystal structure of H₄L⁶

Molecule of H₄L⁶ is almost planar and in the solid state assumes a *syn* conformation. Both hydroxyaryl subunits participate in intramolecular hydrogen bond (O1–H1···N1), as well as intermolecular hydrogen bonding (N2–H2···O1) with adjacent molecules building a supramolecular chain C₁¹(7) motif (Figure S2).

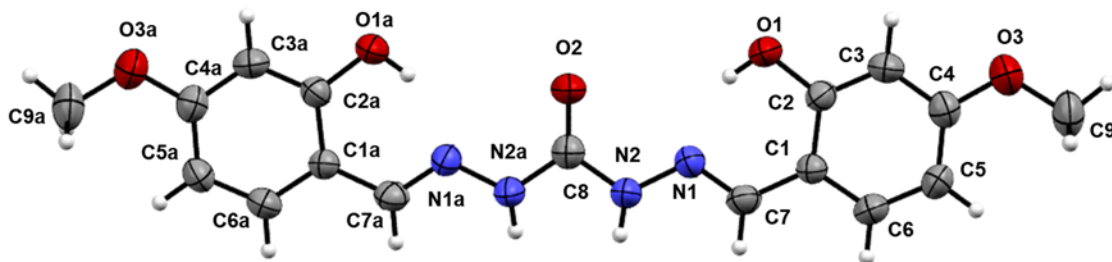


Figure S1. Mercury-ORTEP view of molecular structure of H₄L⁶. The displacement ellipsoids are drawn at 50% probability level. Hydrogen atoms are presented as spheres of arbitrary small radii.

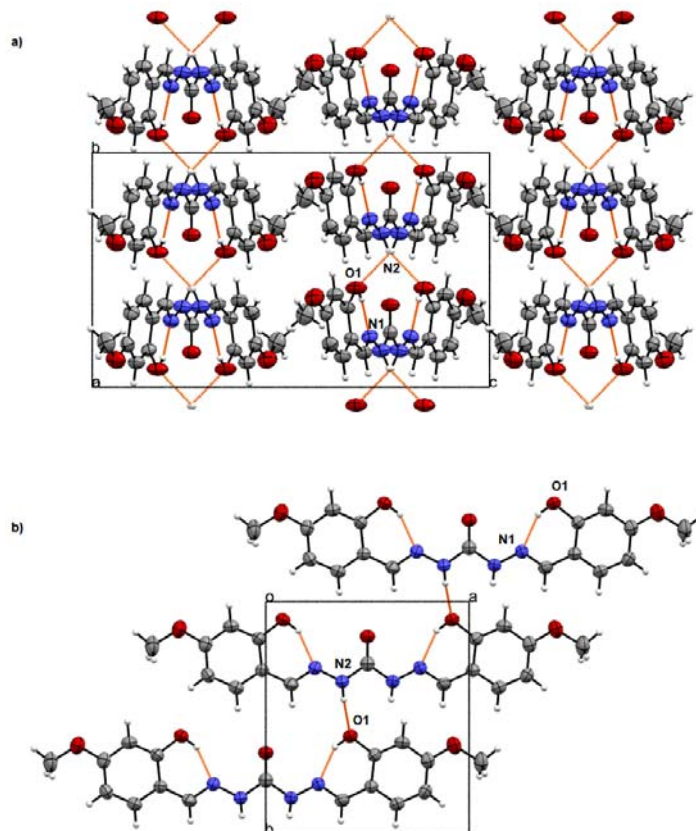


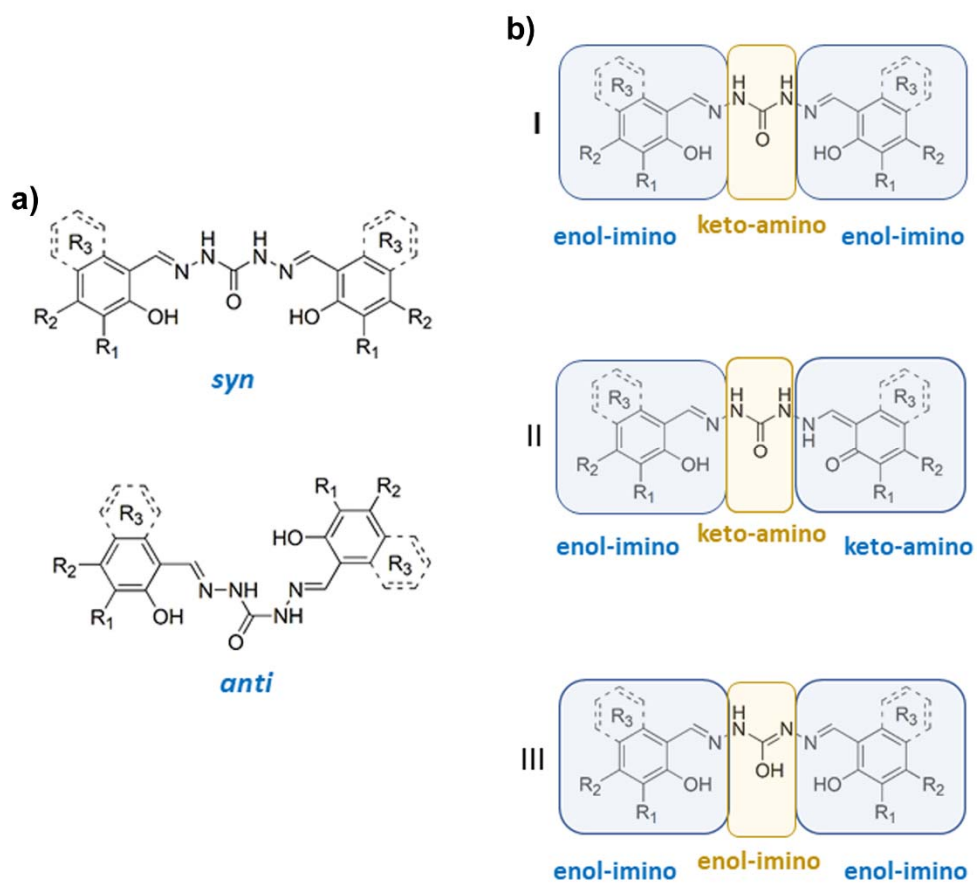
Figure S2. Crystal packing in H₄L⁶ shown down the: (a) *a*-axis; and (b) *c*-axis. Hydrogen bonds of the O–H···N type are presented by orange dashed lines. Hydrogen bonds of the N2–H2···O1 type shape supramolecular motifs C₁¹(7) and R₄⁴(32).

Table S2. Bond lengths and bond angles for H₄L⁶.

Bond	Length / Å	Angle	Angle / °
C1–C6	1.388(4)	C2–C1–C6	117.1(2)
C1–C7	1.443(4)	C2–C1–C7	121.8(2)
C1–C2	1.407(3)	C6–C1–C7	121.09(19)
C2–C3	1.370(4)	O1–C2–C1	121.2(2)
C3–C4	1.386(4)	O1–C2–C3	118.25(19)
C4–C5	1.388(3)	C1–C2–C3	120.6(2)
C5–C6	1.381(4)	C2–C3–C4	121.0(2)
N1–N2	1.368(3)	C3–C4–C5	119.8(2)
N1–C7	1.283(3)	O3–C4–C3	115.23(19)
N2–H2	0.854(18)	O3–C4–C5	125.0(2)
N2–C8	1.372(3)	C4–C5–C6	118.6(2)
O1–C2	1.371(3)	C1–C6–C5	122.9(2)
O1–H1	0.84(2)	N1–C7–C1	120.08(19)
O2–C8	1.214(4)	N2–C8–N2a	110.6(2)
O3–C4	1.363(3)	O2–C8–N2	124.68(13)
O3–C9	1.420(3)	N2–N1–C7	118.64(19)
		N1–N2–H2	122.6(19)
		N1–N2–C8	118.68(19)
		C8–N2–H2	115.4(18)
		C2–O1–H1	106.9(14)
		C4–O3–C9	118.6(2)

Table S3. Geometry of hydrogen bonds (Å, °) for H₄L⁶.

D-H...A	D-H	H...A	D...A	∠D-H...A	Symmetry code
H ₄ L ⁶					
O1-H1...N1	0.84(2)	1.81(2)	2.571(3)	150(2)	-
N2-H2...O1	0.854(18)	2.246(19)	3.060(3)	159.2(19)	3/2-x, 1/2+y, 1/2-z



Scheme S1. Some of the possible: a) conformers and b) tautomers for H₄L¹-H₄L⁶.

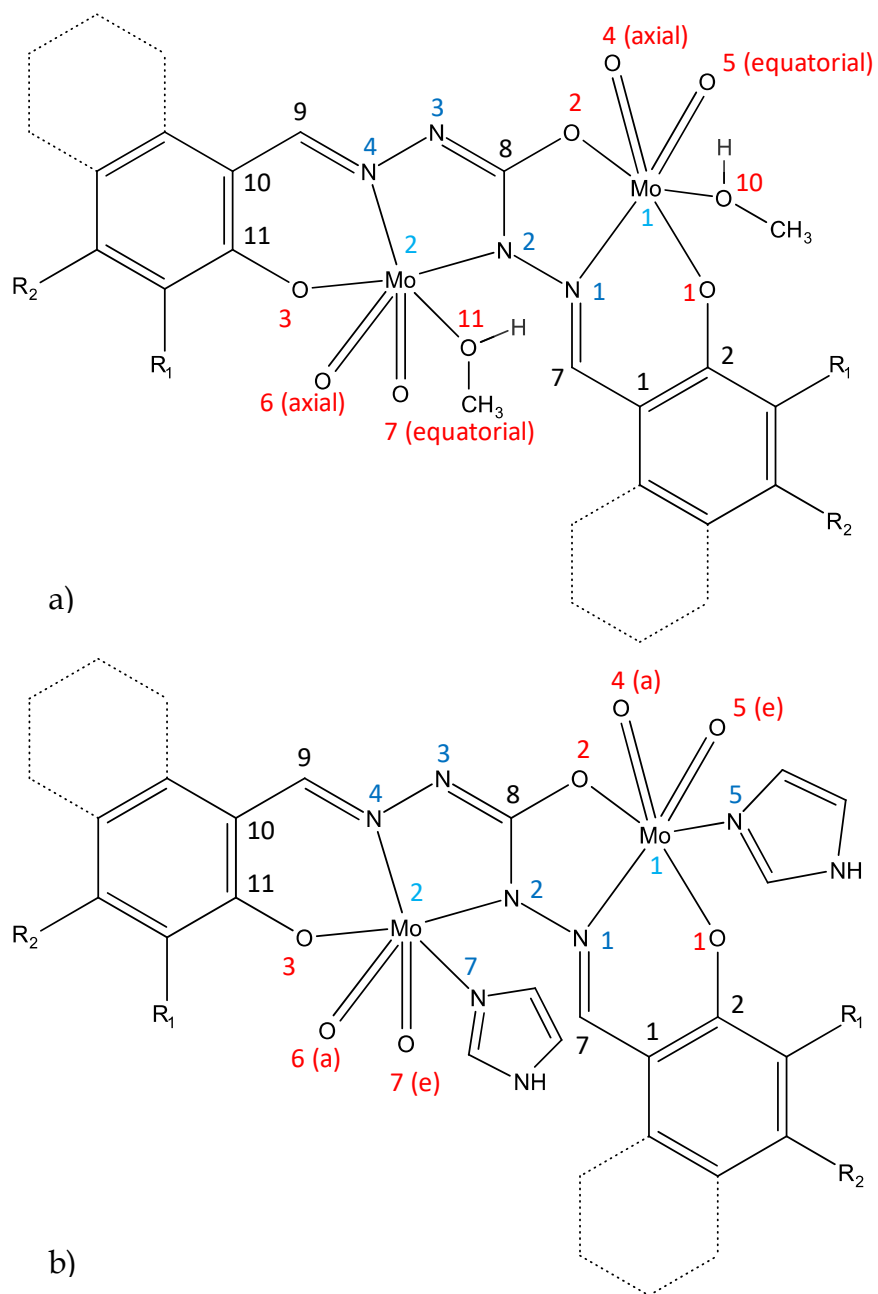


Figure S3. The numbering scheme for relevant atoms used in description of geometric parameters of the crystal structures of a) methanol complexes and b) imidazole complexes. Carbon atoms are represented by black, molybdenum by cyan, oxygen by red and nitrogen by blue numbers. Hydrogen atoms have the same number as its parent atom.

Table S4. Selected bond lengths (in Å) in reported crystal structures. Atoms are numbered according to Figure S3.

Bond	1a	1b·CH₃CN	5a·CH₃O H	5a'·0.64C H₃OH	5b·CH₃CN	6a	6b·2CH₃C N
Mo1–O1	1.907(5), 1.903(5)	1.916(2)	1.911(2)	1.916(4)	1.9057(16)	1.908(2)	1.917(2)
Mo1–N1	2.276(5), 2.271(5)	2.277(3)	2.275(2)	2.279(5)	2.2913(17)	2.287(3)	2.280(3)
Mo1–O2	1.999(4), 1.999(4)	1.996(2)	2.014(2)	2.015(4)	2.0173(16)	2.000(2)	2.007(2)
Mo1–O4	1.689(6), 1.698(5)	1.710(3)	1.699(2)	1.702(5)	1.7118(17)	1.694(3)	1.706(3)
Mo1–O5	1.701(5), 1.709(5)	1.702(2)	1.7121(18)	1.712(4)	1.7022(16)	1.705(3)	1.704(2)
Mo1–O10	2.358(5), 2.302(5)	N/A	2.251(2)	2.268(5)	N/A	2.316(3)	N/A
Mo1–N5	N/A	2.295(4)	N/A	N/A	2.306(2)	N/A	2.353(3)
Mo2–N2	2.103(5), 2.121(5)	2.142(3)	2.109(2)	2.123(6)	2.1556(17)	2.106(3)	2.114(3)
Mo2–N4	2.251(6), 2.249(5)	2.244(3)	2.228(2)	2.242(5)	2.2561(17)	2.231(3)	2.243(3)
Mo2–O3	1.926(5), 1.926(5)	1.942(2)	1.916(2)	1.914(5)	1.9339(15)	1.923(2)	1.951(2)
Mo2–O6	1.691(5), 1.688(5)	1.696(3)	1.692(2)	1.688(6), 1.703(9)	1.6954(17)	1.691(3)	1.720(3)
Mo2–O7	1.702(5), 1.698(5)	1.707(3)	1.701(2)	1.693(5), 1.718(7)	1.7098(16)	1.703(3)	1.707(2)
Mo2–O11	2.342(5), 2.344(4)	N/A	2.388(2)	2.416(7), 2.255(10)	N/A	2.364(3)	N/A
Mo2–N7	N/A	2.372(4)	N/A	N/A	2.3577(17)	N/A	2.325(3)
O1–C2	1.361(8), 1.357(8)	1.358(4)	1.353(3)	1.364(6)	1.352(3)	1.341(5)	1.352(4)

O2-C8	1.301(7), 1.306(7)	1.315(4)	1.301(3)	1.317(9)	1.308(3)	1.305(5)	1.314(5)
O3-C11	1.344(9), 1.347(8)	1.344(5)	1.340(3)	1.354(8)	1.347(3)	1.349(5)	1.344(4)
N1-C7	1.281(9), 1.270(8)	1.283(5)	1.291(3)	1.275(8)	1.284(3)	1.289(5)	1.287(4)
N1-N2	1.392(7), 1.396(7)	1.397(4)	1.385(3)	1.378(7)	1.395(2)	1.396(4)	1.396(4)
N2-C8	1.384(7), 1.358(7)	1.370(5)	1.369(3)	1.374(8)	1.359(3)	1.367(5)	1.384(4)
N3-C8	1.312(7), 1.317(7)	1.315(5)	1.314(4)	1.320(9)	1.323(3)	1.302(5)	1.304(4)
N3-N4	1.398(8), 1.397(7)	1.400(4)	1.393(3)	1.401(8)	1.399(2)	1.401(4)	1.395(4)
N4-C9	1.286(9), 1.295(8)	1.292(5)	1.294(4)	1.307(9)	1.291(3)	1.290(5)	1.287(4)
C1-C7	1.446(11), 1.466(8)	1.448(5)	1.453(4)	1.458(9)	1.453(3)	1.440(5)	1.446(5)
C9-C10	1.429(10), 1.445(8)	1.445(5)	1.437(4)	1.441(10)	1.446(3)	1.436(6)	1.442(6)

Table S5. Selected angles (in °) in reported crystal structures. Atoms are numbered according to Figure S3.

Angle	1a	1b·CH ₃ CN	5a·CH ₃ OH	5a'·0.64C H ₃ OH	5b·CH ₃ CN	6a	6b·2CH ₃ C N
O1–Mo1–O2	148.16(19), 150.46(19)	150.66(10)	151.28(8)	150.59(18)	151.56(7)	150.49(10)	151.29(10)
O1–Mo1–N1	80.75(19), 82.46(18)	82.55(11)	81.56(8)	82.11(18)	82.86(6)	82.27(10)	82.54(10)
O2–Mo1–O5	99.4(2), 94.4(2)	95.85(11)	95.05(9)	94.77(18)	95.11(7)	95.00(11)	95.81(10)
O4–Mo1–O5	105.8(3), 105.3(2)	105.53(12)	105.79(11)	106.1(2)	105.90(8)	105.85(14)	105.26(12)
O5–Mo1–N1	160.6(2), 160.1(2)	162.97(12)	159.35(10)	160.71(19)	161.43(7)	159.09(12)	161.24(11)
O1–Mo1–O4	99.1(2), 97.2(2)	96.10(11)	99.08(10)	97.73(18)	99.14(8)	99.22(12)	98.23(12)
O2–Mo1–N1	71.37(18), 71.82(18)	72.01(11)	72.49(7)	72.42(17)	72.02(6)	72.16(9)	72.47(9)
O4–Mo1–N1	92.5(2), 91.1(2)	88.23(12)	91.72(9)	90.07(19)	88.58(7)	92.20(12)	90.80(11)
O1–Mo1–O5	102.2(2), 106.1(2)	105.40(11)	105.78(9)	105.54(19)	105.65(7)	104.62(12)	104.19(11)
O2–Mo1–O4	97.2(2), 97.6(2)	97.44(11)	93.89(9)	96.78(19)	93.47(8)	96.28(11)	96.07(12)
O3–Mo2–O6	99.7(2), 100.4(2)	97.34(12)	100.55(10)	93.4(5), 103.2(3)	99.82(8)	100.54(12)	96.18(12)
O3–Mo2–N4	81.36(19), 81.84(19)	80.77(10)	82.42(8)	82.0(2)	81.35(6)	81.95(10)	82.50(10)
O6–Mo2–N2	98.5(2), 96.1(2)	97.06(13)	93.57(10)	91.7(3)	94.28(7)	93.91(12)	97.92(11)
O7–Mo2–N2	96.8(2), 94.8(2)	97.57(12)	93.69(9)	93.7(2), 99.9(4)	98.09(7)	96.56(12)	94.25(11)
N2–Mo2–N4	70.18(18), 70.66(18)	70.49(12)	70.97(8)	71.3(2)	70.66(6)	71.43(10)	71.18(10)
O3–Mo2–O7	105.1(2), 104.7(2)	105.44(11)	105.69(10)	105.6(4), 103.8(2)	104.45(7)	103.03(11)	106.66(11)

O6–Mo2–N4	93.8(2), 98.3(2)	91.62(12)	101.35(9)	89.5(5), 101.2(3)	90.65(7)	102.15(12)	92.81(10)
O7–Mo2–N4	159.5(2), 153.1(2)	159.80(13)	150.10(9)	169.7(4), 146.6(2)	160.65(7)	74.86(10)	158.30(11)
O3–Mo2–N2	147.1(2), 149.65(19)	148.08(12)	151.89(8)	151.6(2)	148.73(7)	151.87(10)	150.61(10)
O6–Mo2–O7	104.0(2), 105.9(2)	106.32(13)	105.19(10)	96.9(6), 109.2(3)	106.20(8)	104.15(13)	105.38(11)
Mo1–N1–C7	125.0(5), 124.9(4)	125.5(3)	126.82(18)	125.8(4)	126.37(14)	126.3(2)	124.8(2)
N2–N1–C7	119.5(6), 120.7(5)	120.1(3)	119.2(2)	120.0(5)	119.94(17)	120.3(3)	121.0(3)
Mo1–N1–N2	115.0(4), 114.1(3)	114.3(2)	113.61(15)	114.1(4)	113.67(12)	113.35(19)	113.83(17)
Mo2–N2–C8	119.2(4), 117.8(4)	117.0(2)	118.38(17)	117.3(4)	117.43(13)	118.1(2)	117.1(2)
N1–N2–C8	109.7(4), 110.4(4)	110.8(3)	111.4(2)	111.5(5)	111.25(16)	111.3(3)	111.5(3)
Mo2–N2–N1	130.9(4), 131.8(3)	131.6(3)	130.15(16)	130.2(4)	131.20(13)	130.5(2)	131.19(19)
N4–N3–C8	109.5(5), 109.9(4)	109.4(3)	110.99(19)	109.8(5)	110.34(16)	111.3(3)	110.4(3)
Mo2–N4–N3	119.5(4), 118.1(4)	119.0(2)	118.20(14)	118.5(4)	118.61(12)	117.5(2)	118.17(18)
Mo2–N4–C9	125.0(5), 126.4(4)	124.8(3)	126.31(17)	127.1(5)	125.69(14)	127.7(3)	125.6(2)
N3–N4–C9	115.3(6), 115.3(5)	115.9(3)	115.5(2)	114.3(5)	115.32(17)	114.6(3)	116.3(3)
Mo1–O1–C2	129.3(5), 130.3(4)	129.7(2)	135.45(18)	130.0(4)	135.81(14)	137.2(2)	132.2(2)
Mo1–O2–C8	123.4(4), 122.8(4)	123.2(2)	121.49(17)	121.5(4)	122.02(14)	122.5(2)	122.81(18)
Mo2–O3–C11	134.8(4), 136.8(4)	128.4(2)	136.38(19)	134.7(4)	131.63(14)	139.0(2)	129.8(2)
O1–C2–C1	120.8(7), 121.1(6)	121.1(3)	122.9(3)	122.4(5)	123.12(19)	122.2(3)	122.3(3)
N1–C7–C1	122.6(6), 122.8(6)	123.2(3)	123.8(2)	123.9(6)	124.05(18)	124.7(3)	124.2(3)

O2-C8-N2	119.7(5), 120.1(5)	119.7(3)	120.4(2)	119.9(6)	71.58(10)	71.58(10)	119.4(3)
O2-C8-N3	118.7(5), 117.3(5)	117.3(3)	118.7(2)	117.2(6)	116.21(18)	118.3(3)	118.1(3)
N2-C8-N3	121.6(5), 122.6(5)	123.0(3)	120.9(2)	122.9(6)	122.89(19)	121.7(3)	122.5(3)
N4-C9- C10	125.3(6), 125.3(6)	123.4(3)	125.8(2)	124.4(6)	124.9(2)	125.7(4)	124.7(3)
O3-C11- C10	122.4(7), 122.6(5)	121.6(3)	122.2(2)	122.4(6)	122.83(19)	121.1(3)	122.0(3)

Table S6. Selected geometric parameters of planes generated in reported crystal structures. Atoms are numbered according to Figure S3. Planes are defined in following manner:

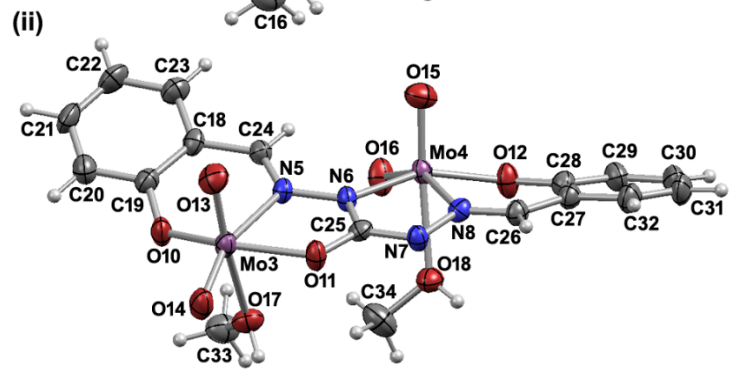
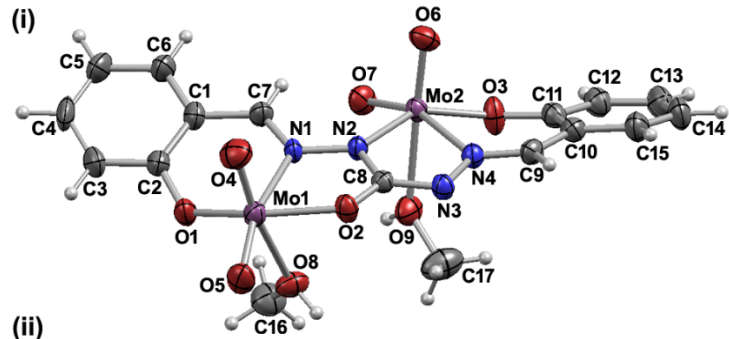
R1 – L.S. plane defined by the atoms C1 C2 C3 C4 C5 C6

R2 – L.S. plane defined by the atoms C10 C11 C12 C13 C14 C15

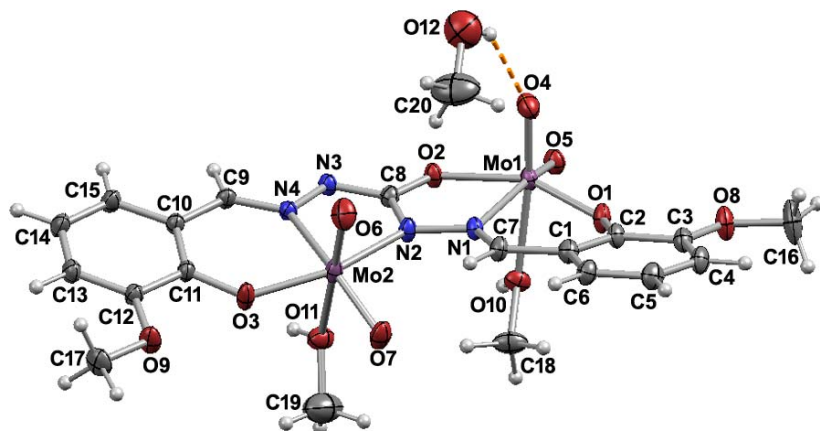
L1 – exact plane defined by the atoms O1 N1 O2

L2 – exact plane defined by the atoms N2 N4 O3

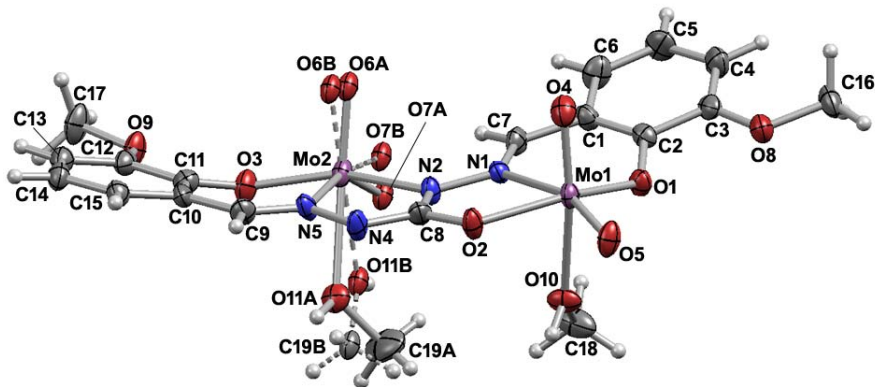
Geometric parameter	1a	1b·CH ₃ CN	5a·CH ₃ OH	5a'·0.64CH ₃ OH	5b·CH ₃ CN	6a	6b·2CH ₃ CN
$d(\text{Mo1-L1}) / \text{Å}$	0.320(4) 0.297(4)	0.299(3)	0.2551(18)	0.303(4)	0.2735(16)	0.301(2)	0.290(2)
$d(\text{Mo2-L2}) / \text{Å}$	0.361(5) 0.280(5)	0.309(3)	0.196(2)	0.212(4)	0.3082(16)	0.196(3)	0.285(2)
$\angle(\text{R1-L1}) / ^\circ$	20.6(3) 19.1(3)	19.87(14)	8.54(9)	18.2(2)	4.04(10)	2.93(14)	13.36(15)
$\angle(\text{R2-L2}) / ^\circ$	8.6(2) 6.1(3)	21.8(2)	7.90(12)	12.7(3)	14.35(14)	3.03(16)	17.30(15)
$\angle(\text{L1-L2}) / ^\circ$	29.77(18) 26.7(2)	15.4(2)	17.41(10)	13.2(2)	9.40(11)	11.18(14)	23.64(10)



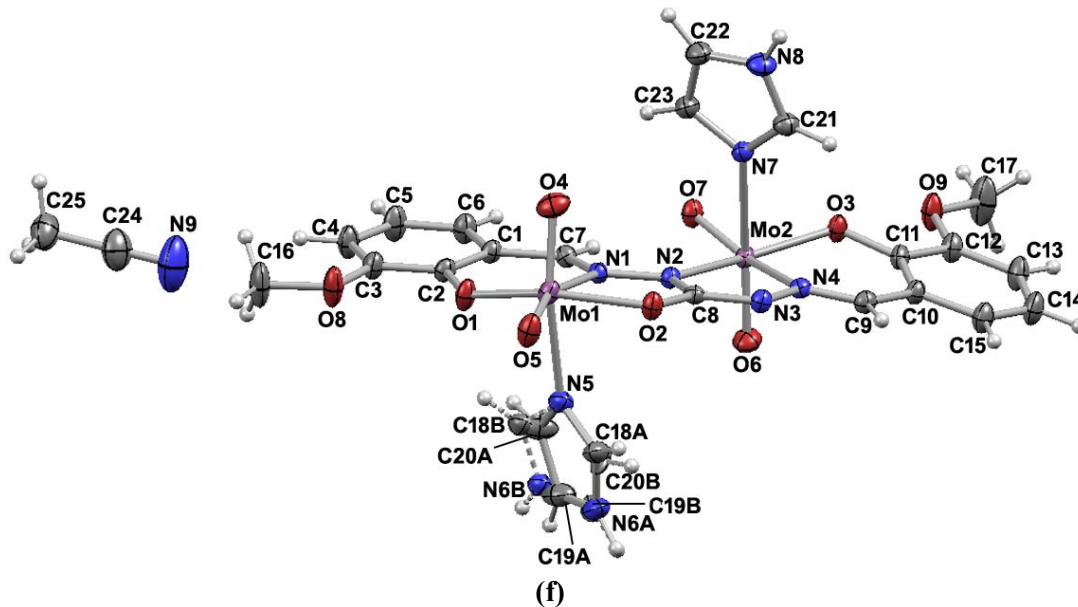
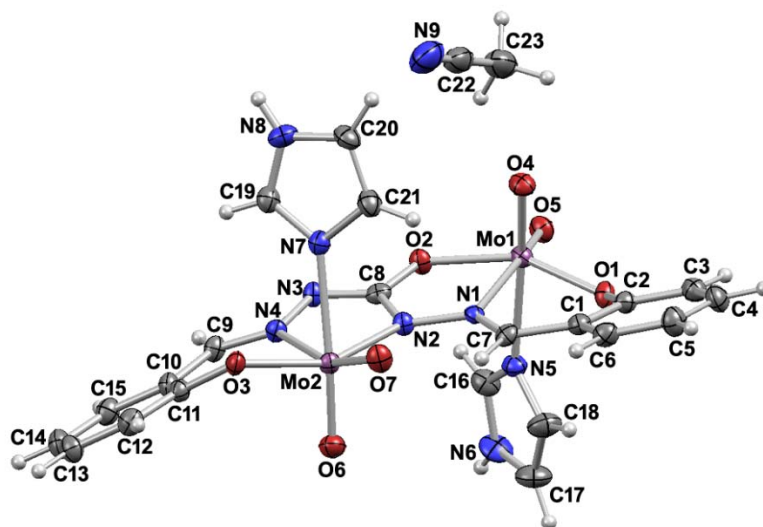
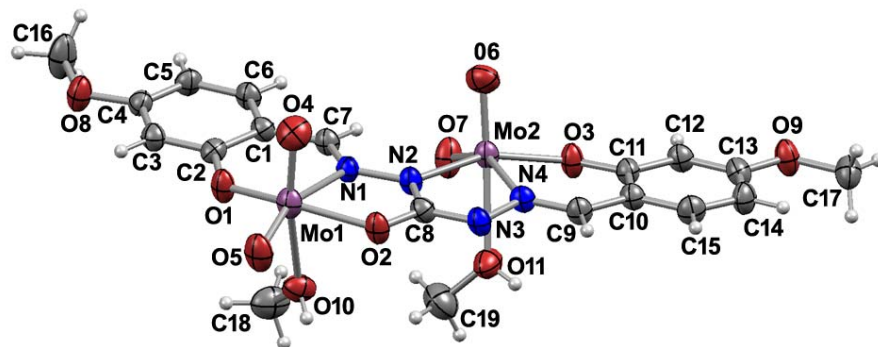
(a)



(b)



(c)



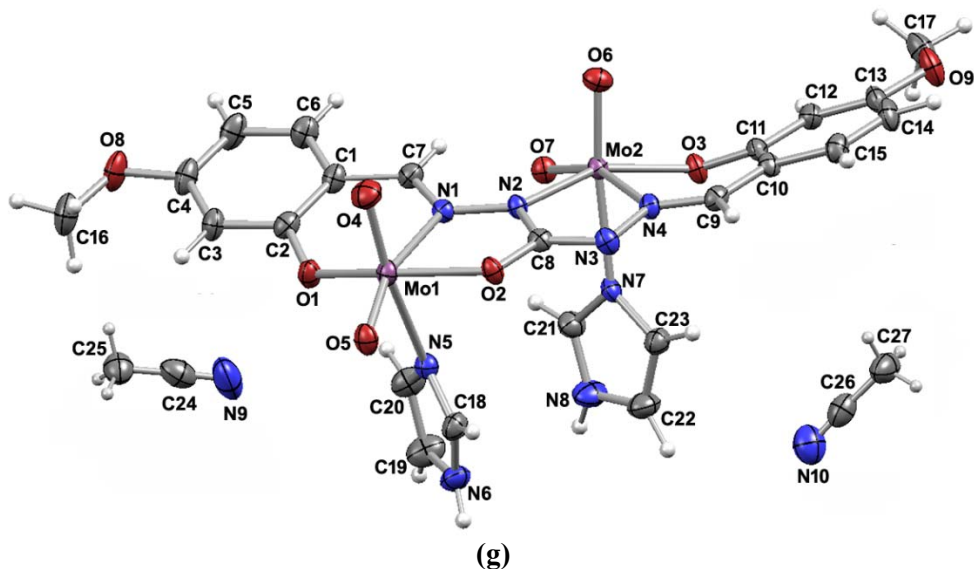


Figure S4. Mercury-ORTEP view of molecular structures of: (a) **1a**, showing both molecules ((i) and (ii)) of the asymmetric unit (for clarity, molecules are not shown in their true position within the asymmetric unit); (b) **5a**· CH_3OH ; (c) **5a'**· $0.64\text{CH}_3\text{OH}$; (d) **6a**; (e) **1b**· CH_3CN ; (f) **5b**· CH_3CN , and (g) **6b**· $2\text{CH}_3\text{CN}$. For clarity, in (a) and (g) molecules constituting the asymmetric unit are not shown in their true position. The displacement ellipsoids are drawn at 50% probability level. Hydrogen atoms are presented as spheres of arbitrary small radii.

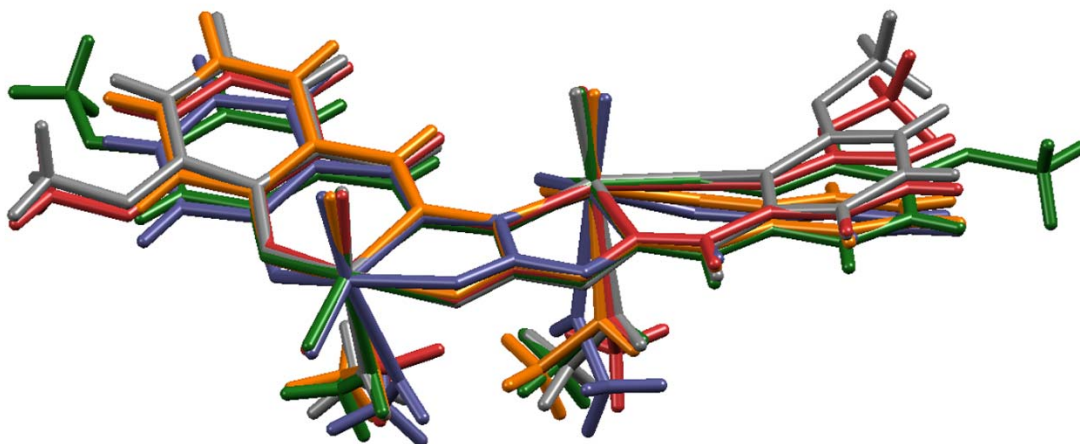


Figure S5. Overlapping diagram for methanol-based complexes described in this work, **1a** (molecule (i) - blue, molecule (ii)-orange), **5a**· CH_3OH (red), **5a'**· $0.64\text{CH}_3\text{OH}$ (gray) and **6a** (green).

Table S7. Geometry of hydrogen bonds and C–H···O interactions (Å, °) for **1a**, **5a·CH₃OH**, **5a'·0.64CH₃OH**, **6a**, **1b·CH₃CN**, **5b·CH₃CN** and **6b·2CH₃CN**

D–H···A	D–H	H···A	D···A	∠D–H···A	Symmetry code
1a					
O8–H8O···N3	0.84(4)	2.00(4)	2.801(7)	160(5)	2–x, –y, –z
O9–H9O···O7	0.83(3)	2.18(6)	2.929(7)	149(5)	2–x, 1–y, –z
O17–H17O···N7	0.84(3)	1.84(2)	2.665(7)	166(4)	–x, 1–y, 1–z
O18–H18O···O14	0.84(5)	2.01(5)	2.795(6)	155(4)	–x, 1–y, 1–z
C4–H4···O14	0.9300	2.5500	3.360(9)	146.00	1–x, 1–y, –z
C21–H2···O5(<i>parst</i>)	0.9300	2.690	3.5608(1)	156.30(1)	–x+1, –y, –z
C17–H17A···O2	0.9600	2.5100	3.284(9)	138.00	2–x, –y, –z
C17–H17C···O6	0.9600	2.3200	3.144(10)	144.00	1+x, y, z
C26–H26···O13	0.9300	2.4500	3.305(8)	152.00	1–x, 1–y, 1–z
C34–H34A···O11	0.9600	2.5900	3.340(9)	135.00	–x, 1–y, 1–z
5a·CH₃OH					
O10–H10O···N3	0.81(3)	1.82(3)	2.611(3)	166(3)	1–x, –y, –z
O11–H11O···O5	0.81(3)	2.09(3)	2.876(3)	163(3)	1–x, –y, –z
O12–H12O···O4	0.88(3)	2.25(5)	3.004(4)	144(5)	
C6–H6···O6	0.9500	2.4200	3.195(3)	138.00	1–x, 1–y, 1–z
C14–H14···O7	0.9500	2.4400	3.128(4)	129.00	1+x, y, z
C16–H16C···O4	0.9800	2.5600	3.028(5)	109.00	–x, 1–y, –z
C17–H17B···O8	0.9800	2.4000	3.147(3)	132.00	1+x, y, 1+z
5a'·0.64CH₃OH					
O10–H10···N3	0.84(3)	1.80(4)	2.627(7)	167(7)	1–x, 1–y, 2–z
O11A–H11A···O5	0.84(2)	2.12(3)	2.940(8)	164(12)	1–x, 1–y, 2–z
C9–H9···O4	0.9500	2.5800	3.343(8)	138.00	2–x, 1–y, 2–z

C15–H15···O4	0.9500	2.4900	3.310(9)	145.00	$2-x, 1-y, 2-z$
C17–H17B···O8	0.9800	2.5200	3.245(9)	130.00	$1+x, 1+y, z$
C18–H18B···O6A	0.9800	2.5700	3.315(11)	132.00	$-1+x, y, z$
C18–H18B···O6B	0.9800	2.4800	3.301(18)	142.00	$-1+x, y, z$
6a					
O10–H10O···N3	0.79(3)	1.87(3)	2.653(4)	172(3)	$2-x, 1-y, 1-z$
O11–H11O···O5	0.79(3)	2.36(4)	3.060(4)	148(3)	$2-x, 1-y, 1-z$
C3–H3···O5	0.9300	2.5400	3.444(5)	166.00	$2-x, -y, 1-z$
C12–H12···O7	0.9300	2.5800	3.487(5)	165.00	$1-x, 1-y, -z$
C15–H15···O4	0.930	3.4027(1)	2.6005(1)	144.75	$-x+1, -y+1, -z+1$
1b·CH₃CN					
N6–H6N···O4	0.87(3)	1.95(3)	2.782(4)	159(4)	$-1+x, y, z$
N8–H8N···N3	0.87(4)	2.09(4)	2.945(5)	168(4)	$2-x, 1-y, 2-z$
C13–H13···O4	0.9500	2.5700	3.507(5)	168.00	$3/2-x, -1/2+y, 3/2-z$
C15–H15···O2	0.9500	2.5000	3.434(5)	167.00	$1-x, 1-y, 2-z$
C23–H23B···O1	0.9800	2.5400	3.267(6)	131.00	$1/2+x, 3/2-y, 1/2+z$
5b·CH₃CN					
N8–H8N···N3	0.89(3)	1.97(3)	2.841(3)	169(3)	$-x, 2-y, 1-z$
N6A–H6NA···O4	0.88(8)	2.002(2)	2.807(10)	151.45(50)	$1+x, y, z$
N6B–H6NB···O3	0.88(2)	2.685(2)	3.287(20)	127(1)	$-x+1, -y+1, -z+1$
C15–H15···O2	0.9500	2.5200	3.471(3)	174.00	$1-x, 2-y, 1-z$
C17–H17A···O5	0.9800	2.5800	3.358(4)	137.00	$x, y, -1+z$
C17–H17B···O8	0.9800	2.4100	3.315(4)	153.00	$x, y, -1+z$
6b·2CH₃CN					
N6–H6N···N3	0.84(4)	2.09(4)	2.867(5)	154(4)	$2-x, 1-y, -z$

N8-H8N...O6	0.91(4)	2.00(4)	2.824(5)	149(5)	$1+x, y, z$
C6-H6...O7	0.9500	2.5300	3.122(6)	121.00	$1-x, 1-y, 1-z$
C17-H17C...O4	0.9800	2.4100	3.344(6)	159.00	$x, 1+y, z$
C19-H19...O6	0.9500	2.6000	3.276(6)	129.00	$1+x, y, z$
C22-H22...O5	0.9500	2.4500	3.193(5)	135.00	$2-x, 1-y, -z$
C25-H25A...O6	0.9800	2.5400	3.351(7)	140.00	-
C27-H27B...O5	0.9800	2.5900	3.446(7)	147.00	$1-x, -y, 1-z$

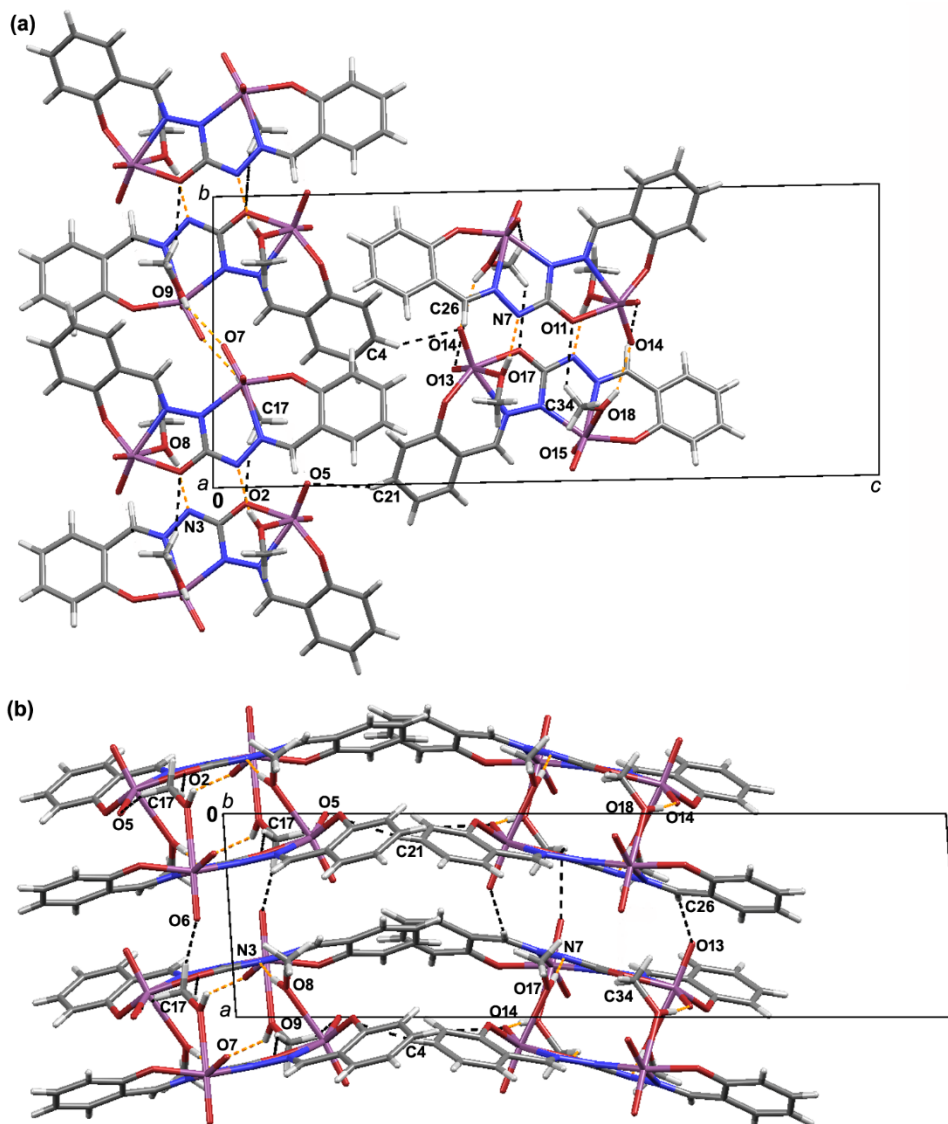


Figure S6. Crystal packing in **1a** shown down the: (a) *a*-axis; and (b) *b*-axis. Hydrogen bonds of the N–H···N and O–H···N type are presented by orange dashed lines, while C–H···O interactions are highlighted as black dashed lines. Supramolecular chains form through O8–H8···N3 ($R_2^2(12)$ motif) and O9–H9···O7 ($R_2^2(8)$ motif) hydrogen bonds, whereas the dimers rely on O17–H17O···N7 ($R_2^2(12)$ motif) and O18–H18O···O14 ($R_2^2(14)$ motif) hydrogen bonds.¹

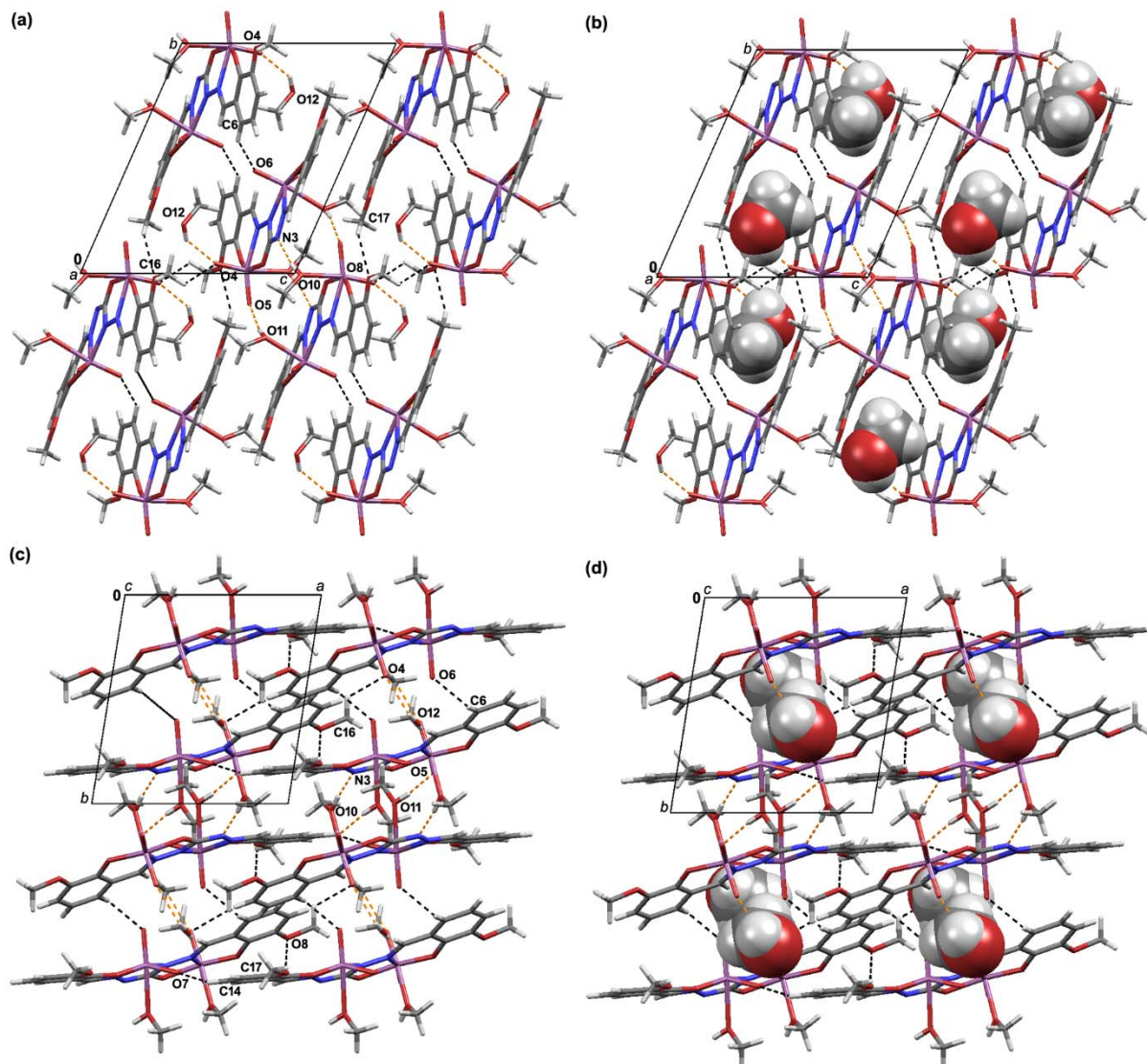


Figure S7. Crystal packing in **5a**·**CH₃OH** shown down the: (a) and (b) *b*-axis; and (c) and (d) *c*-axis. Crystal solvent (methanol) molecules are depicted in a spacefill style. Hydrogen bonds of the N–H···N and O–H···N type are presented by orange dashed lines, whereas C–H···O interactions are highlighted as black dashed lines. Supramolecular dimers form through O10–H10O···N3 ($R_2^2(12)$ motif) and O11–H11O···O5 ($R_2^2(14)$ motif) hydrogen bonds.¹

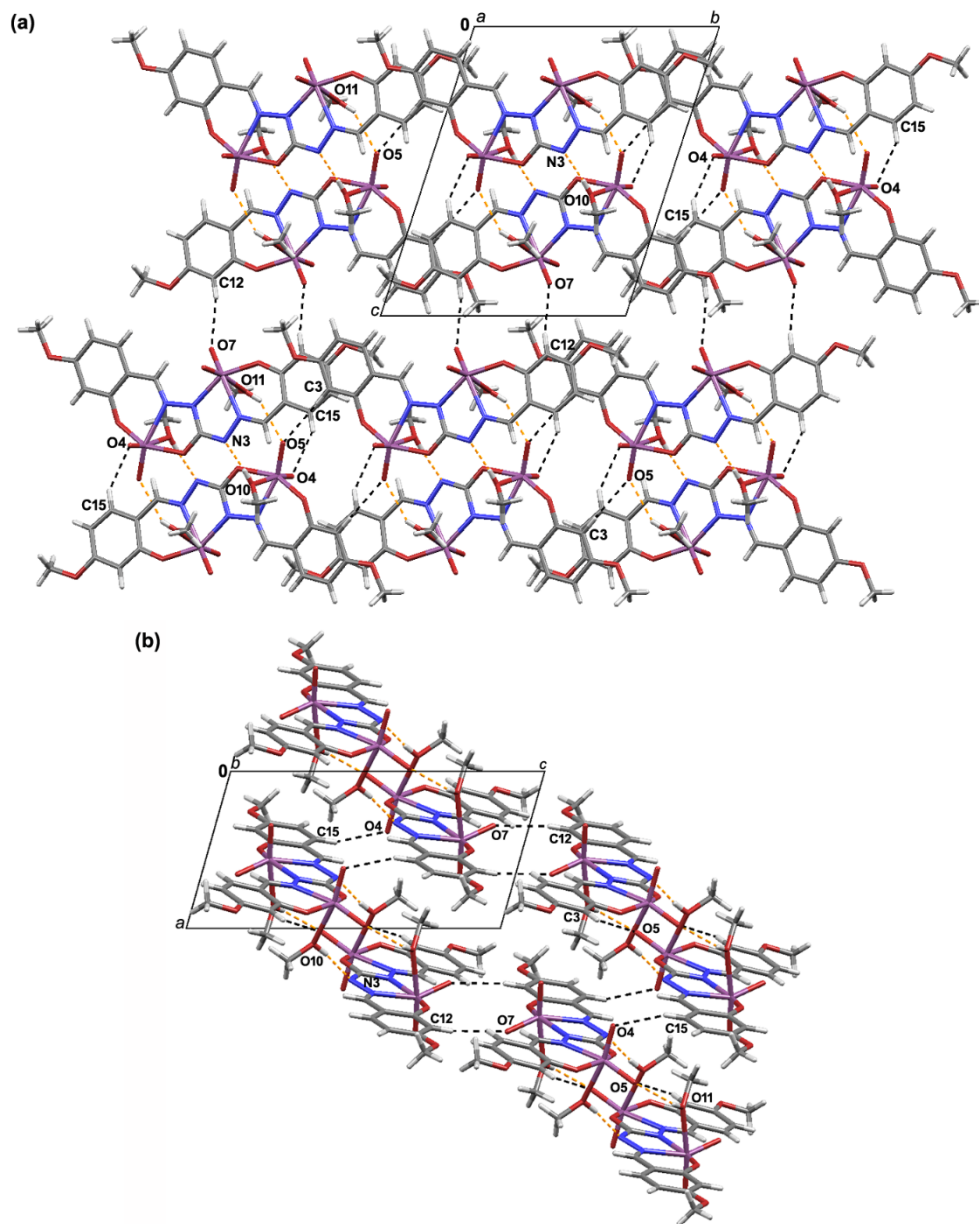


Figure S8. Crystal packing in **6a** shown down the: (a) *a*-axis; and (b) *b*-axis. Hydrogen bonds of the N–H···N and O–H···N type are presented by orange dashed lines, while C–H···O interactions are highlighted as black dashed lines. Supramolecular dimers form through O10–H10O···N3 ($R_2^2(12)$ motif) and O11–H11O···O5 ($R_2^2(14)$ motif) hydrogen bonds.¹

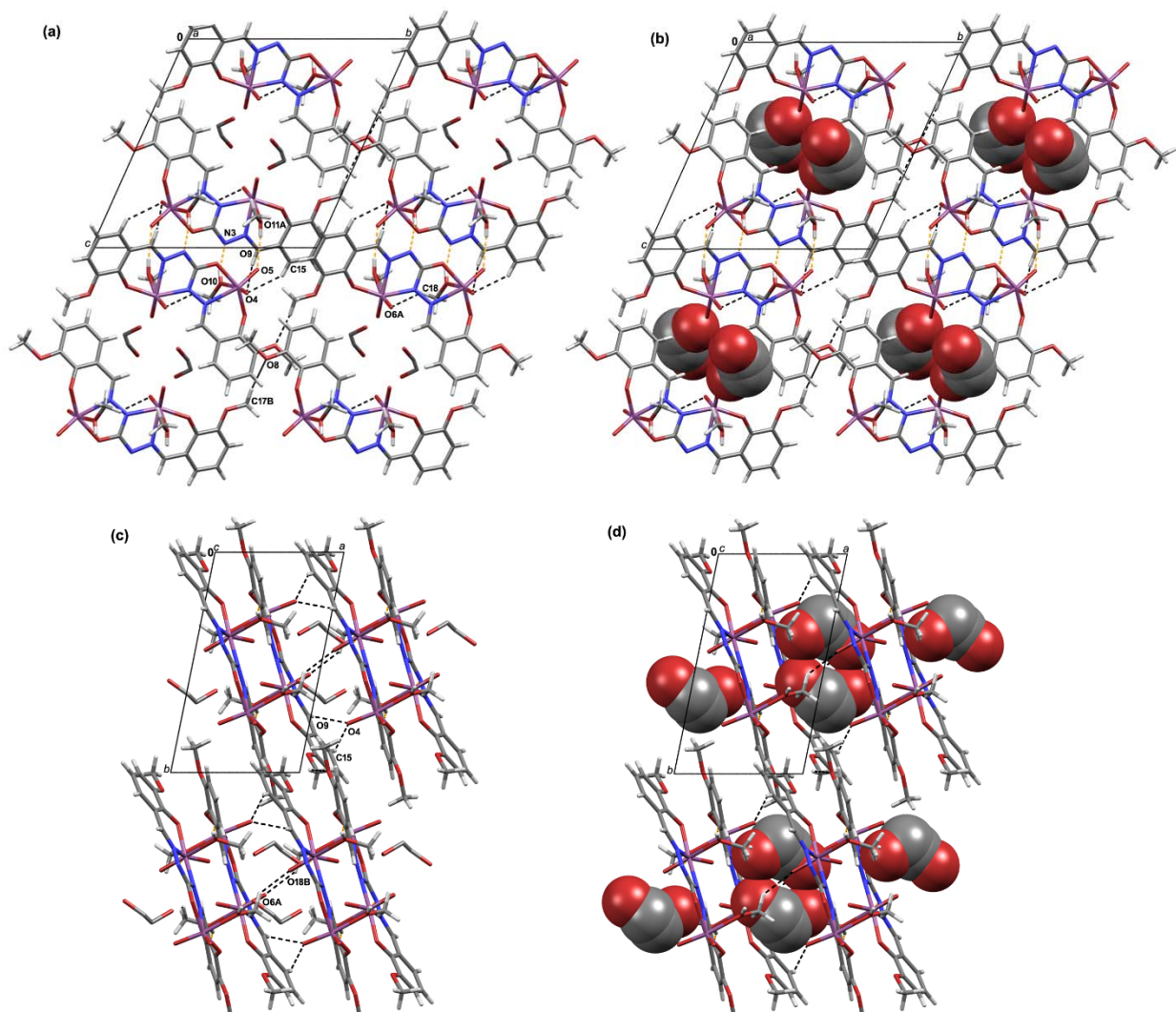


Figure S9. Crystal packing in $5a' \cdot 0.64\text{CH}_3\text{OH}$ shown down the: (a) and (b) b -axis; and (c) and (d) c -axis. Disordered solvent (methanol) molecules (in both positions A and B) are depicted in a spacefill style. Hydrogen bonds of the $\text{N}-\text{H} \cdots \text{N}$ and $\text{O}-\text{H} \cdots \text{N}$ type are presented by orange dashed lines, whereas $\text{C}-\text{H} \cdots \text{O}$ interactions are highlighted as black dashed lines. Supramolecular dimers form *via* $\text{O}10-\text{H}10\text{O} \cdots \text{N}3$ ($R_2^2(12)$ motif) and $\text{O}11\text{A}-\text{H}11\text{A} \cdots \text{O}5$ ($R_2^2(14)$ motif) hydrogen bonds.¹

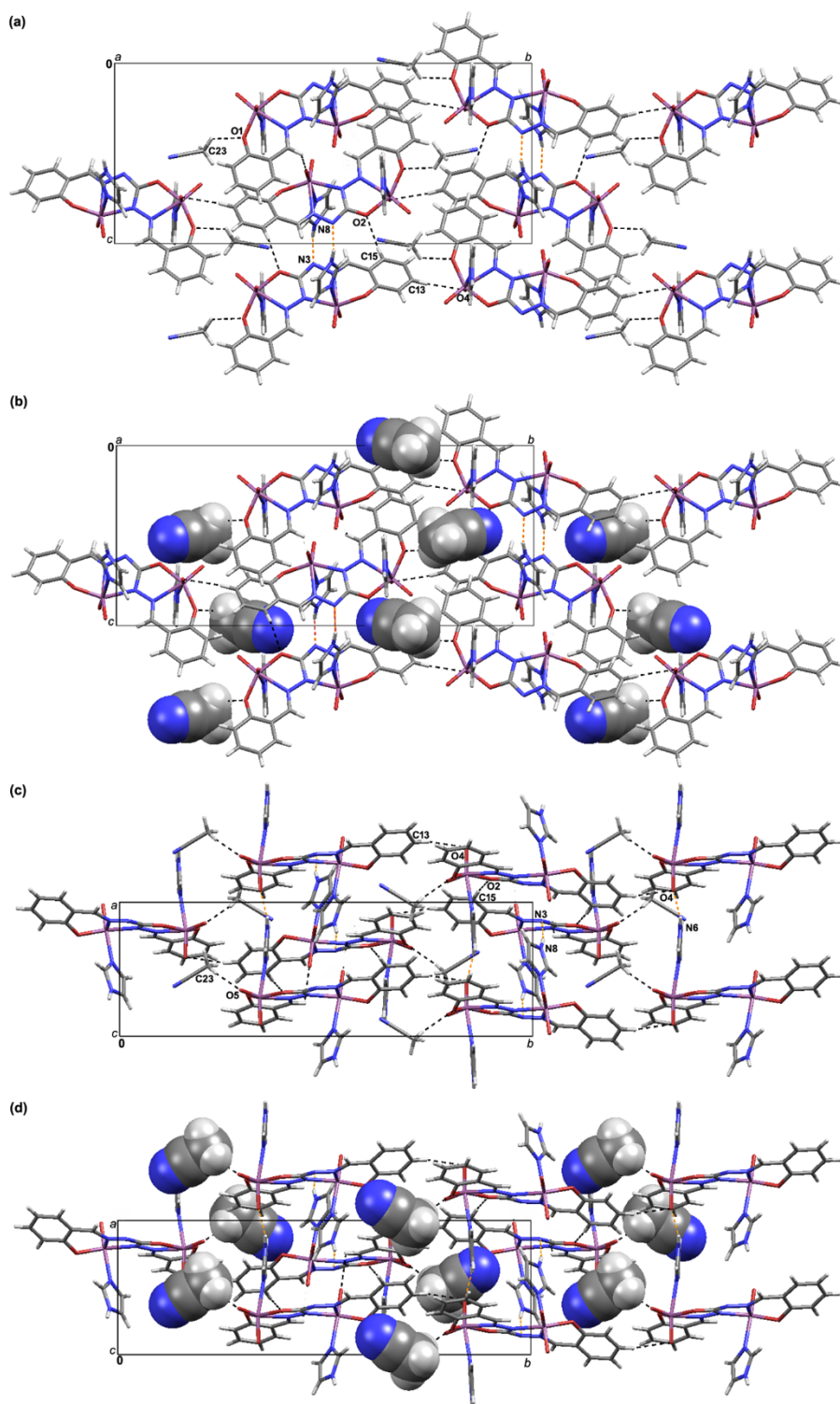


Figure S10. Crystal packing in **1b**·CH₃CN shown down the: (a) and (b) *a*-axis; and (c) and (d) *c*-axis. Crystal solvent (acetonitrile) molecules are depicted in a spacefill style. Hydrogen bonds of the N–H···N and O–H···N type are presented by orange dashed lines, whereas C–H···O interactions are highlighted as black dashed lines. Supramolecular chains form through N8–H8N···N3 ($R_2^2(14)$ motif) and N6–H6N···O4 ($C_1^1(6)$ motif) hydrogen bonds.¹

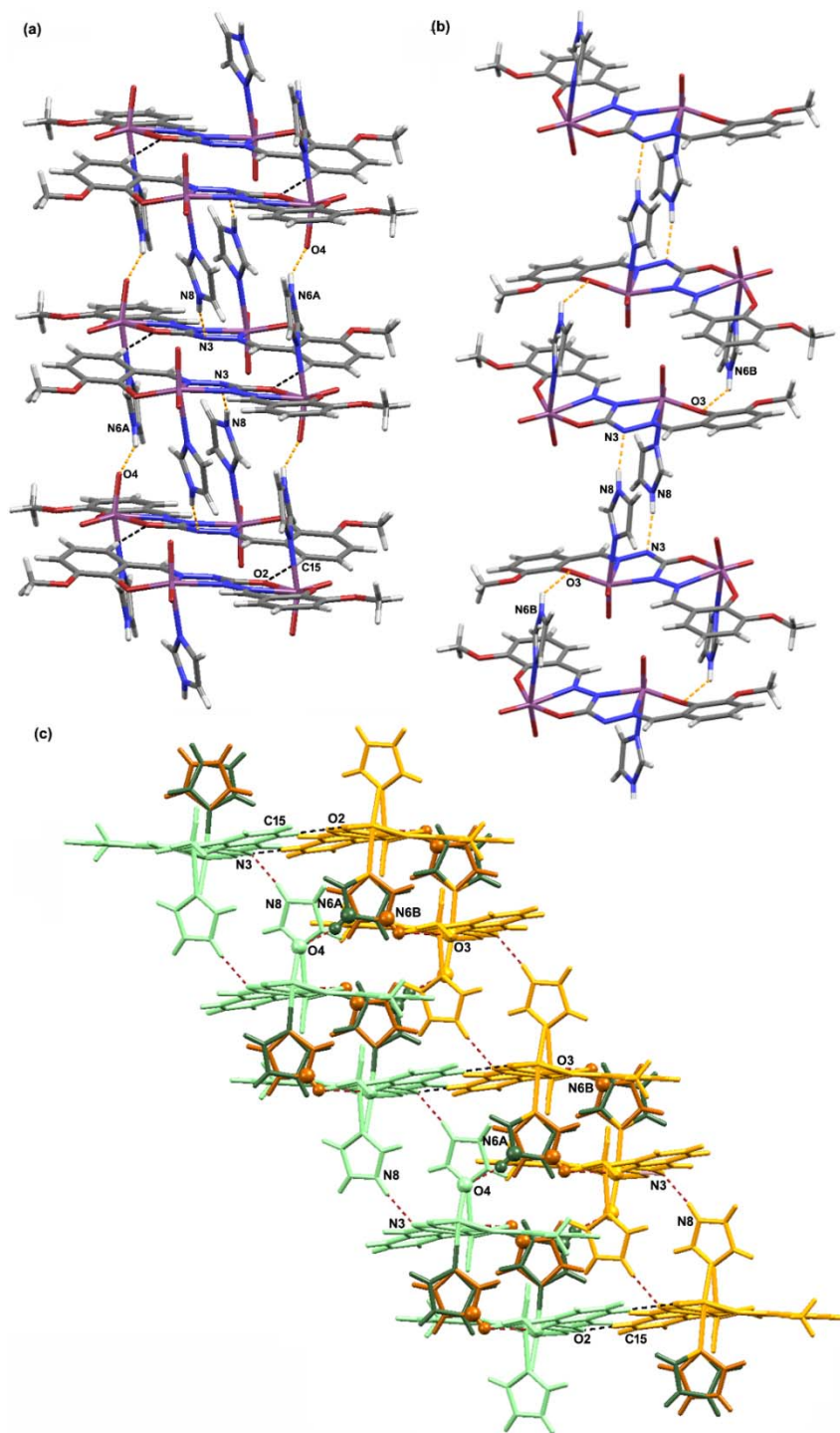


Figure S11. Chains found in **5b**·CH₃CN when considering: (a) only major component A; (b) only minor component B; (c) both components, with chains in (a) depicted in green, and chains in (b) in orange. In (a) and (b) hydrogen bonds of the N–H···N and O–H···N type are presented by orange dashed lines, while C–H···O interactions are highlighted as black dashed lines. In (c) hydrogen bonds of the N–H···N and O–H···N type are presented as red dashed lines C–H···O interactions as black dashed lines. Supramolecular chains form through N8–H8N···N3 ($R_2^2(14)$ motif) and N6–H6N···O4 ($C_1^1(6)$ motif) hydrogen bonds.¹

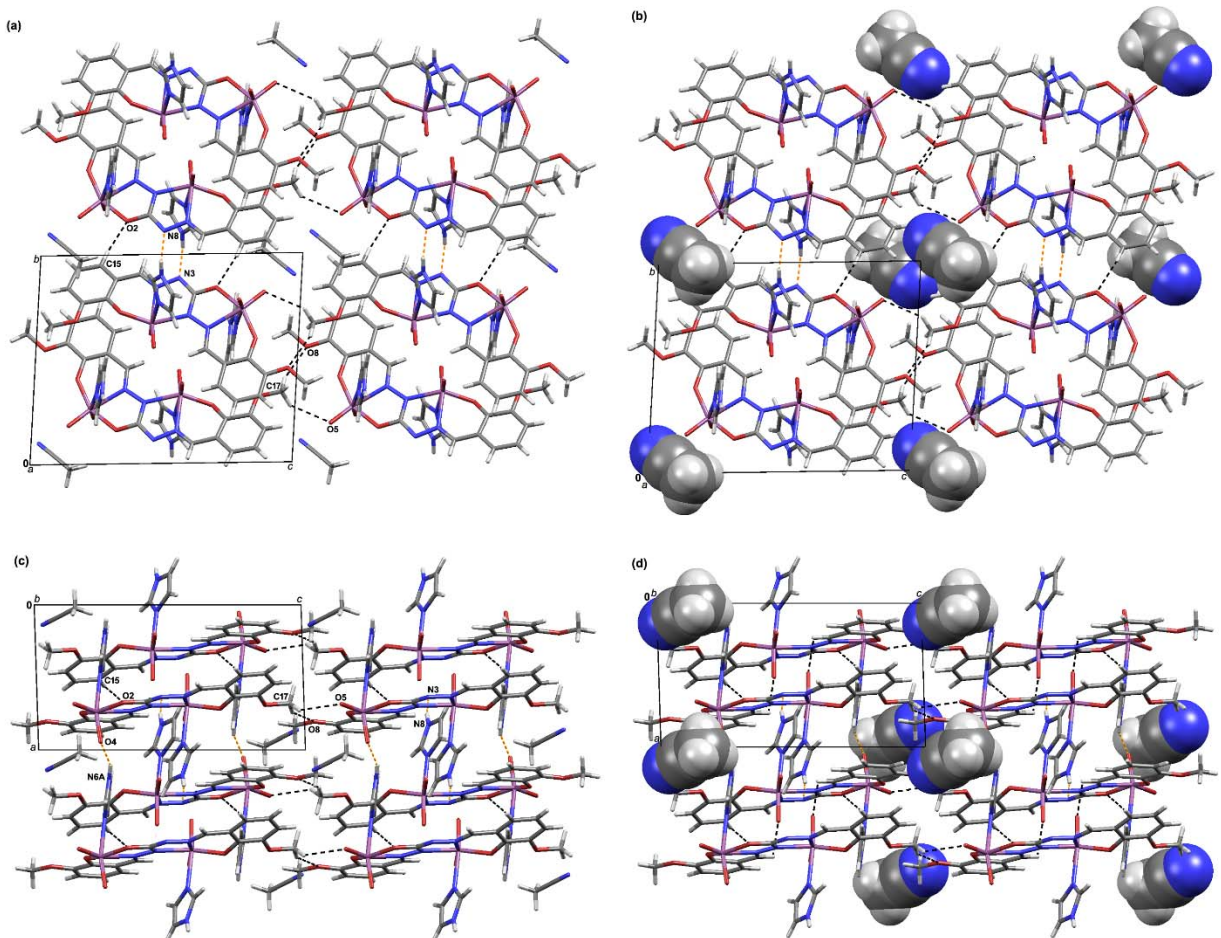


Figure S12. Crystal packing in **5b**·CH₃CN shown down the: (a) and (b) *a*-axis; and (c) and (d) *b*-axis. Crystal solvent (acetonitrile) molecules are depicted in a spacefill style. Hydrogen bonds of the N–H···N and O–H···N type are presented by orange dashed lines, whereas C–H···O interactions are highlighted as black dashed lines.

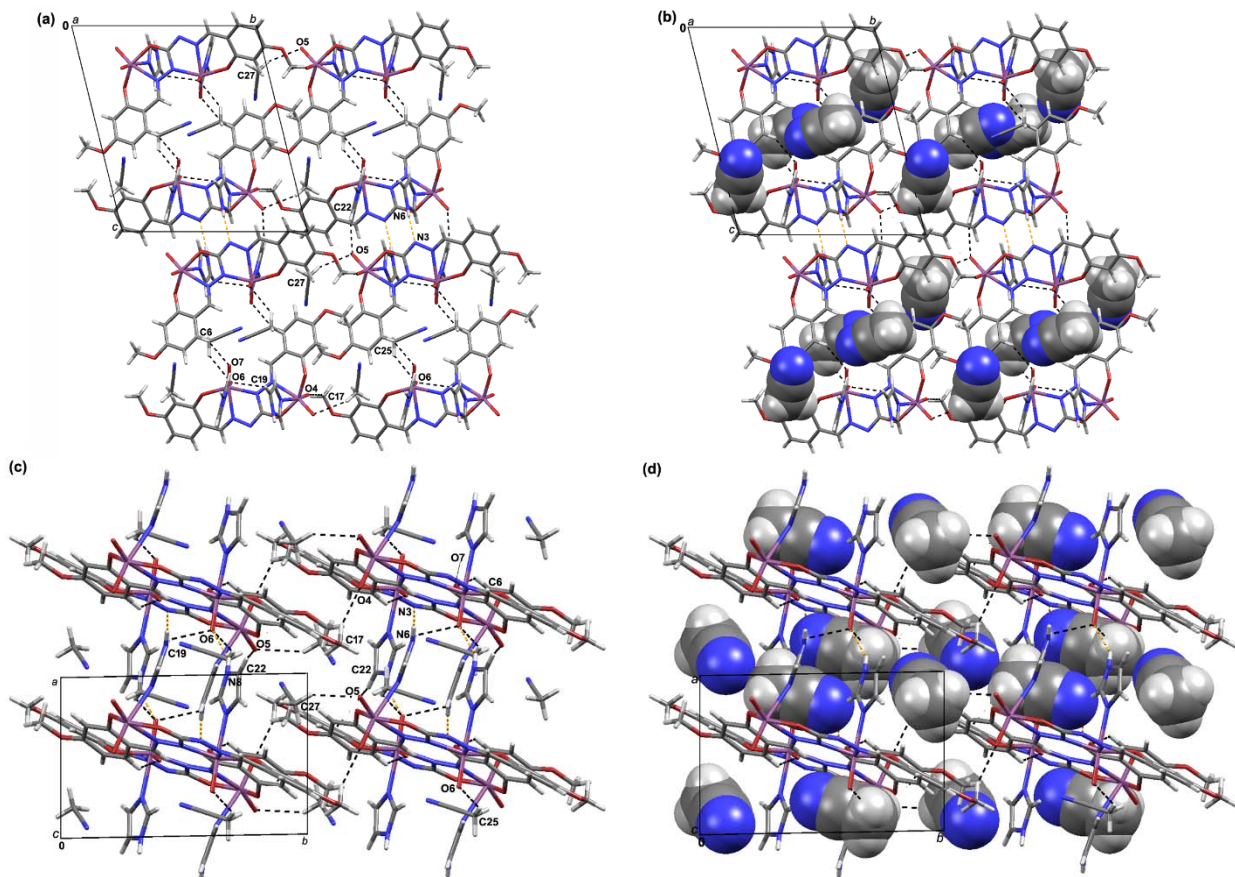


Figure S13. Crystal packing in **6b**·2CH₃CN shown down the: (a) and (b) *a*-axis; and (c) and (d) *c*-axis. Crystal solvent (acetonitrile) molecules are depicted in a spacefill style. Hydrogen bonds of the N–H⋯N and O–H⋯N type are presented by orange dashed lines, whereas C–H⋯O interactions are highlighted as black dashed lines.

Spectroscopic characterization

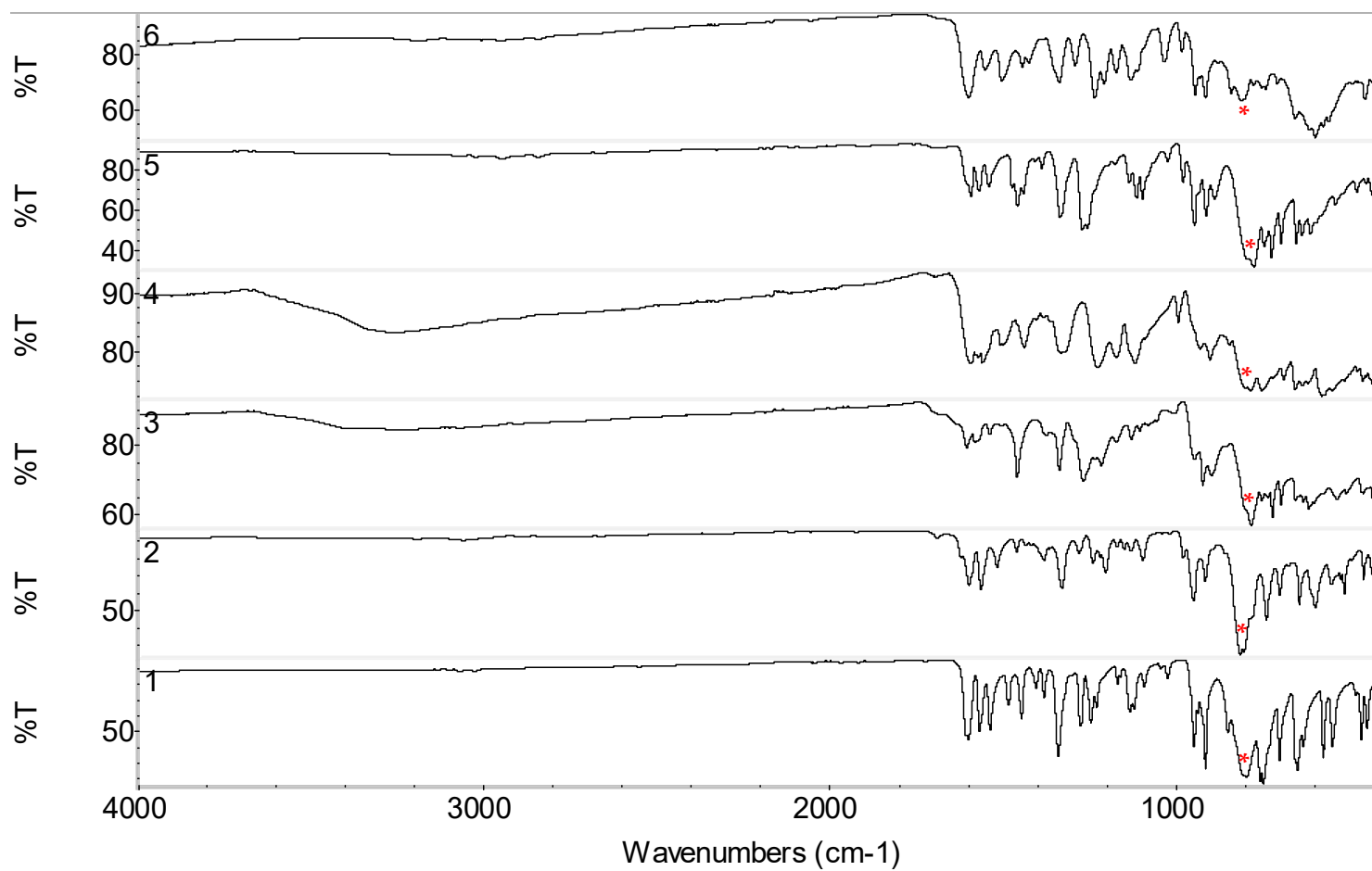


Figure S14. ATR-FTIR spectra of **1**, **2**, **3**, **4**, **5** and **6**. All polynuclear complexes show characteristic Mo=O...Mo bands at $\sim 800\text{ cm}^{-1}$, marked by asterisk (*).

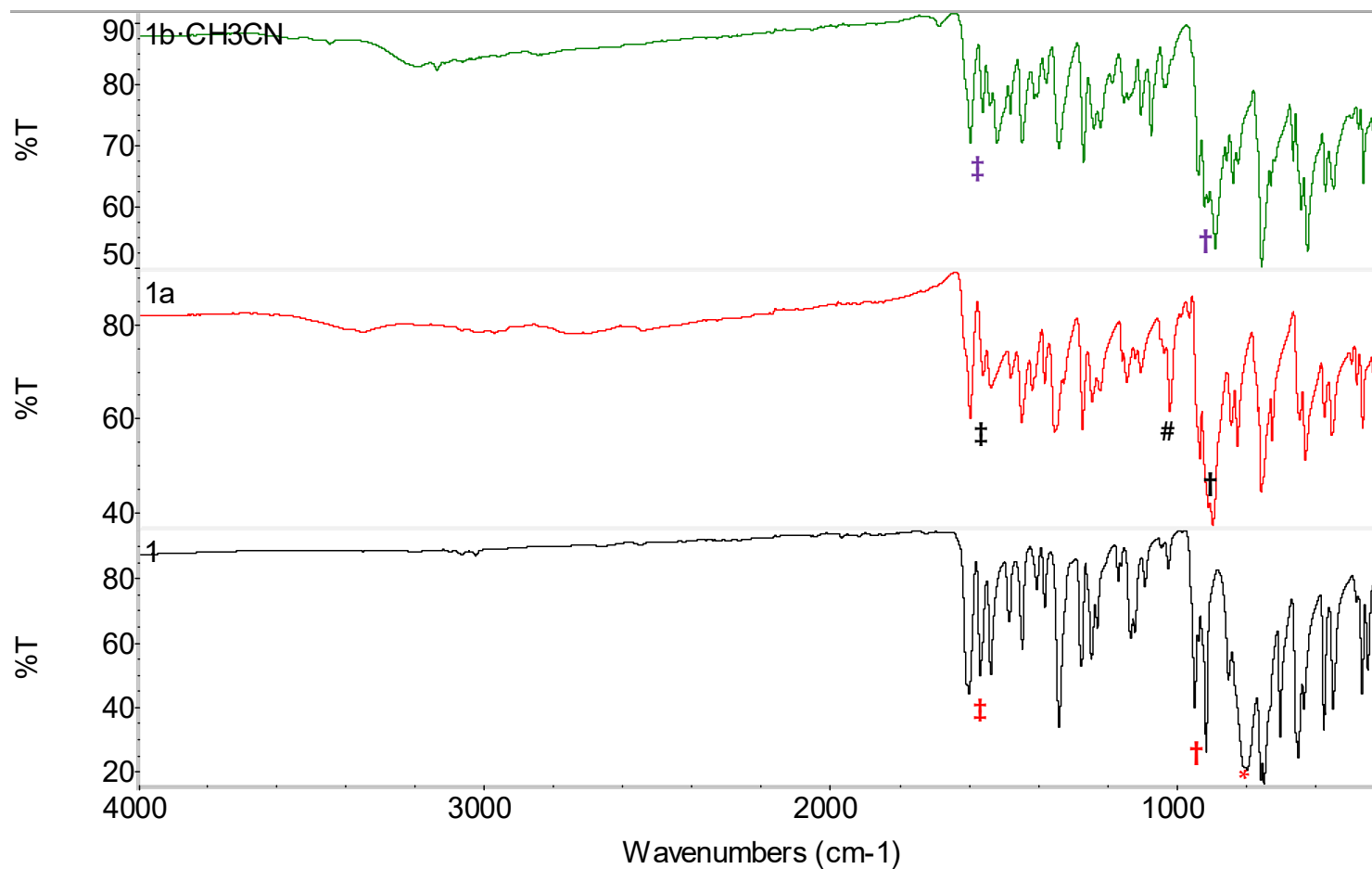


Figure S15. ATR-FTIR spectra of **1**, **1a** and **1b·CH₃CN**. Mo=O...Mo bands are represented by asterisk (*), {MoO₂}²⁺ asymmetric stretching band by dagger (†), methanolic C–O stretching band by hash (#) and C=C, C=N stretching bands by double dagger (‡). Spectra of **1a** and **1b·CH₃CN** show no characteristic Mo=O...Mo bands.

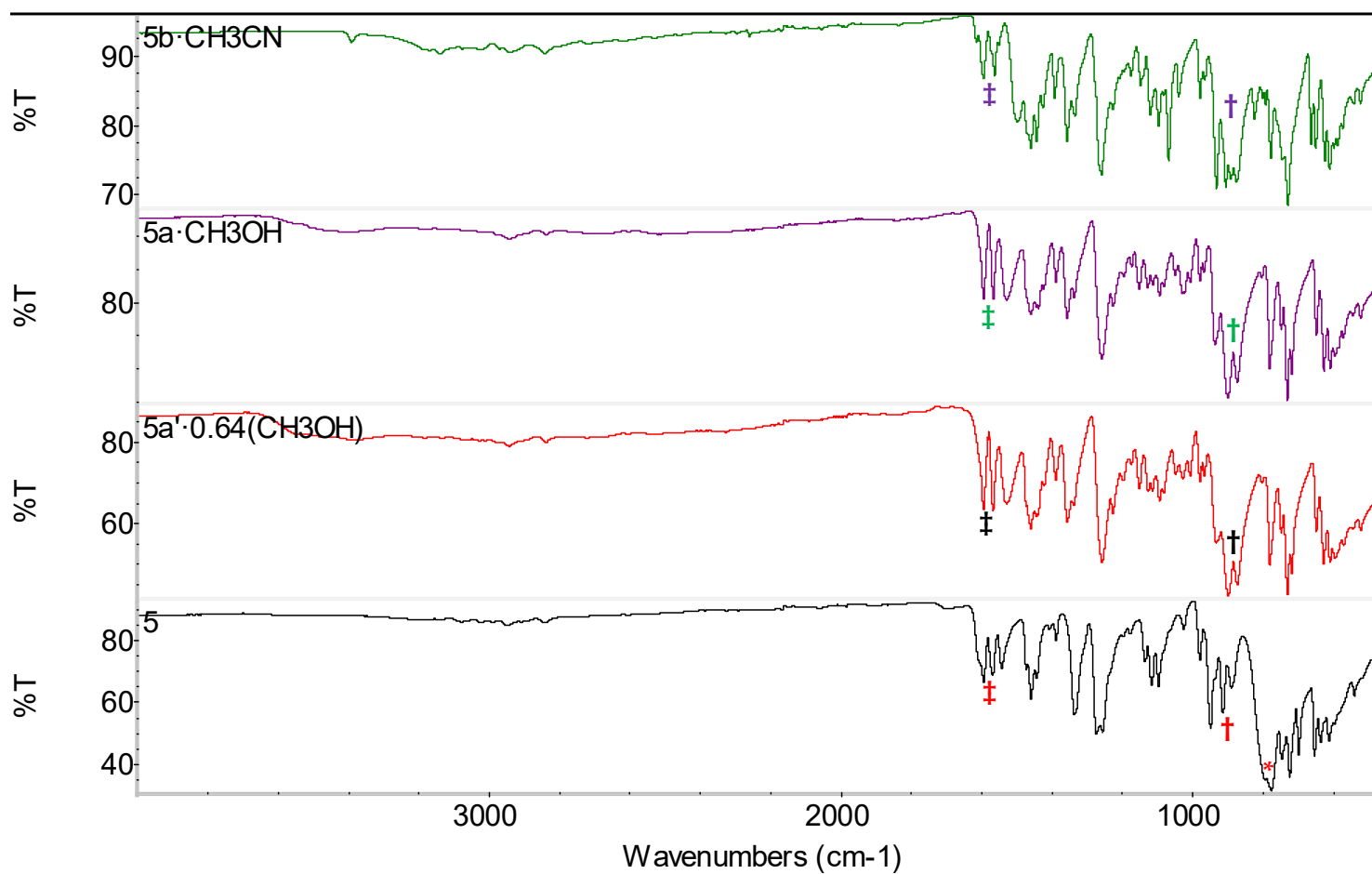


Figure S16. ATR-FTIR spectra of **5**, **5a·CH₃OH**, **5a'·0.64CH₃OH** and **5b·CH₃CN**. Mo=O···Mo bands are represented by asterisk (*), {MoO₂}²⁺ asymmetric stretching band by dagger (†) and C=C, C=N stretching bands by double dagger (‡). Spectra of **5a·CH₃OH**, **5a'·0.64CH₃OH** and **5b·CH₃CN** show no characteristic Mo=O···Mo bands.

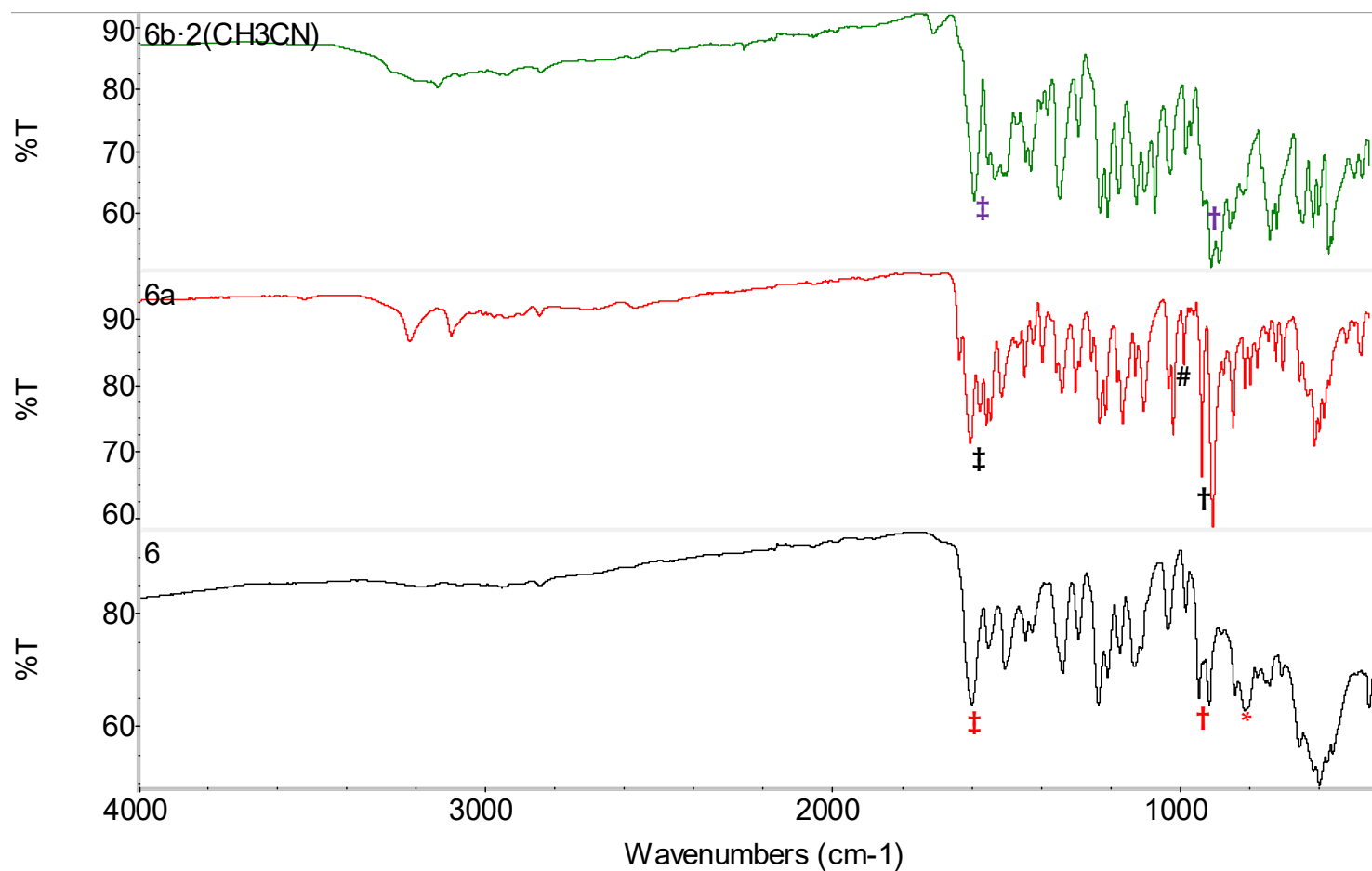


Figure S17. ATR-FTIR spectra of **6**, **6a** and **6b·2CH₃CN**. Mo=O···Mo bands are represented by asterisk (*), {MoO₂}²⁺ asymmetric stretching band by dagger (†), methanolic C–O stretching band by hash (#) and C=C, C=N stretching bands by double dagger (‡). Spectra of **6a** and **6b·2CH₃CN** show no characteristic Mo=O···Mo bands, but significant differences arise in their spectra, which is an indication that two do have different structures.

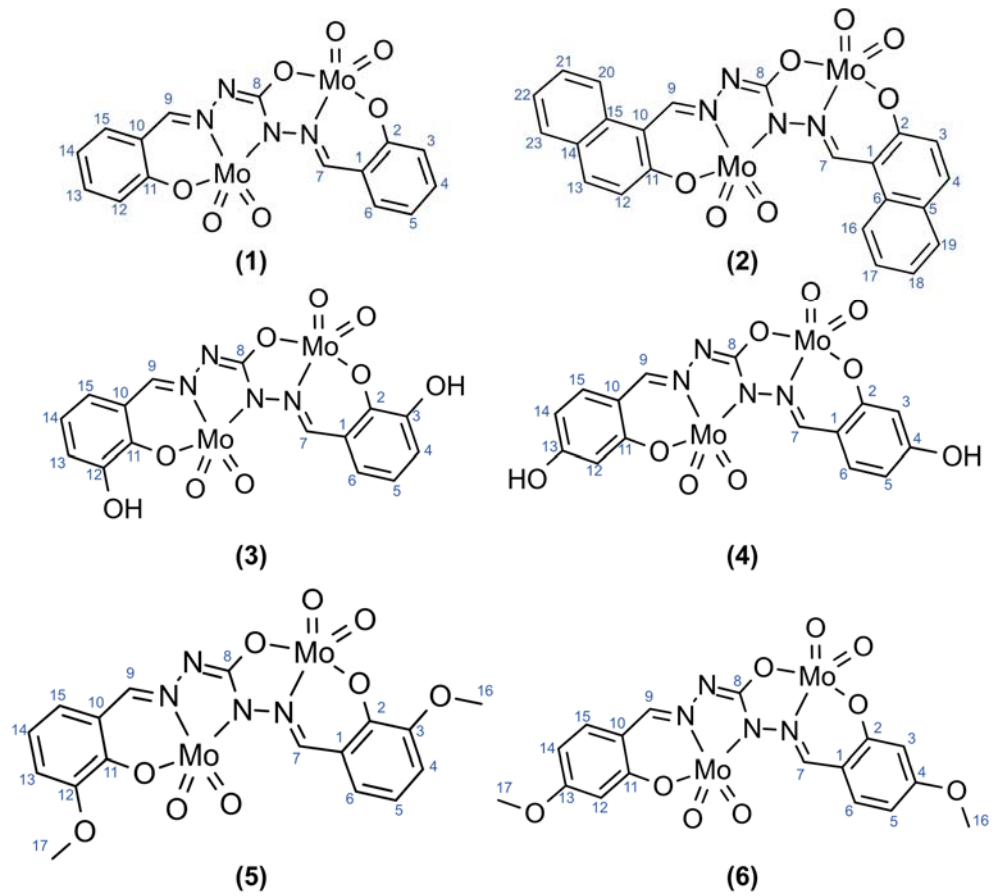


Figure S18. The NMR numbering scheme.

Table S8. ^1H and ^{13}C chemical shifts for H_4L^{1-6} and **1–6** in $\text{DMSO-}d_6$ at 298 K.

Atoms	H_4L^1		1		H_4L^2		2	
	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm
1, 10	–	120.1	–	121.0 121.6	–	109.4	–	112.3 112.9
2, 11	–	152.4	–	158.9 159.3	–	156.7	–	159.3 160.0
3, 12	6.92	116.7	6.99 6.95	118.7 118.1	7.24	118.6	7.27 7.22	119.8 120.4
4, 13	7.26	128.6	7.49 7.49	133.9 133.9	7.90	131.9	8.10 8.11	134.6 135.3
5, 14	6.90	119.6	7.12 7.07	122.5 122.3	–	127.9	–	129.6 129.5
6, 15	7.71	128.4	7.68 7.66	133.9 134.4	–	131.5	–	132.6 132.5
16, 20					8.35	121.7	8.24 8.45	121.0 122.3
17, 21					7.60	127.6	7.78 7.65	129.2 128.9
18, 22					7.40	123.4	7.55 7.50	125.3 125.2
19, 23					7.88	128.7	8.02 7.96	129.8 129.4
7, 9	8.48	144.3	8.63 8.60	150.8 144.3	9.20	143.2	9.63 9.43	140.3 147.3
8	–	157.1	–	171.2	–	151.6	–	171.0
OH(2)	10.86	–	–	–	11.88	–	–	–
Atoms	H_4L^3		3		H_4L^4		4	
	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm
1, 10	–	120.0	–	121.6 122.1	–	111.5	–	113.2 113.7
2, 11	–	145.3	–	147.7 148.0	–	158.4	–	160.5 161.2
3, 12	–	145.6	–	146.4 146.1	6.30	102.5	6.33 6.28	104.9 104.3
4, 13	6.82	116.5	7.07 7.09	120.5 120.0	–	160.0	–	163.1 163.8
5, 14	6.72	119.0	6.93 6.87	122.3 122.5	6.34	107.5	6.48 6.54	110.8 110.5
6, 15	7.13	118.6	7.03 7.01	123.8 123.9	7.44	129.7	7.44 7.45	135.2 135.3
7, 9	8.42	144.1	8.60 8.51	144.4 150.8	8.28	144.3	8.47 8.40	144.5 150.9
8	–	152.0	–	171.2	–	152.1	–	170.4
OH(2)	10.25	–	–	–	10.73	–	–	–
OH(3)	9.28	–	9.44	–	9.76	–	10.40 10.42	–
Atoms	H_4L^5		5		H_4L^6		6	
	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm	δ_{H} , ppm	δ_{C} , ppm
1, 10	–	120.4	–	121.3	–	113.2	–	114.3

			–	121.9			–	114.8
2, 11	–	146.7	–	148.4	–	158.7	–	160.5
			–	148.7			–	161.1
3, 12	–	148.4	–	148.7	6.46	101.4	6.55	102.8
			–	149.0			6.59	103.4
4, 13	6.83	113.4	7.19	116.1	–	161.9	–	164.2
			7.22	126.7			–	164.8
5, 14	6.98	119.3	7.00	122.2	6.49	106.6	6.71, 6.69	109.7
			7.06	122.2			6.67, 6.65	109.8
6, 15	7.33	120.1	7.20	124.9	7.57	129.9	7.56	134.8
			7.24	125.0			7.58	134.9
7, 9	8.47	140.6	8.56	144.2	8.33	141.8	8.48	144.2
			8.61	150.8			8.53	150.7
8	–	152.4	–	171.2	–	152.4	–	170.5
OH(2)	10.87	–	–	–	10.67	–	–	–
16, 17	3.82	56.3	3.82	56.4	3.76	55.6	3.82	56.2
			3.83				3.83	

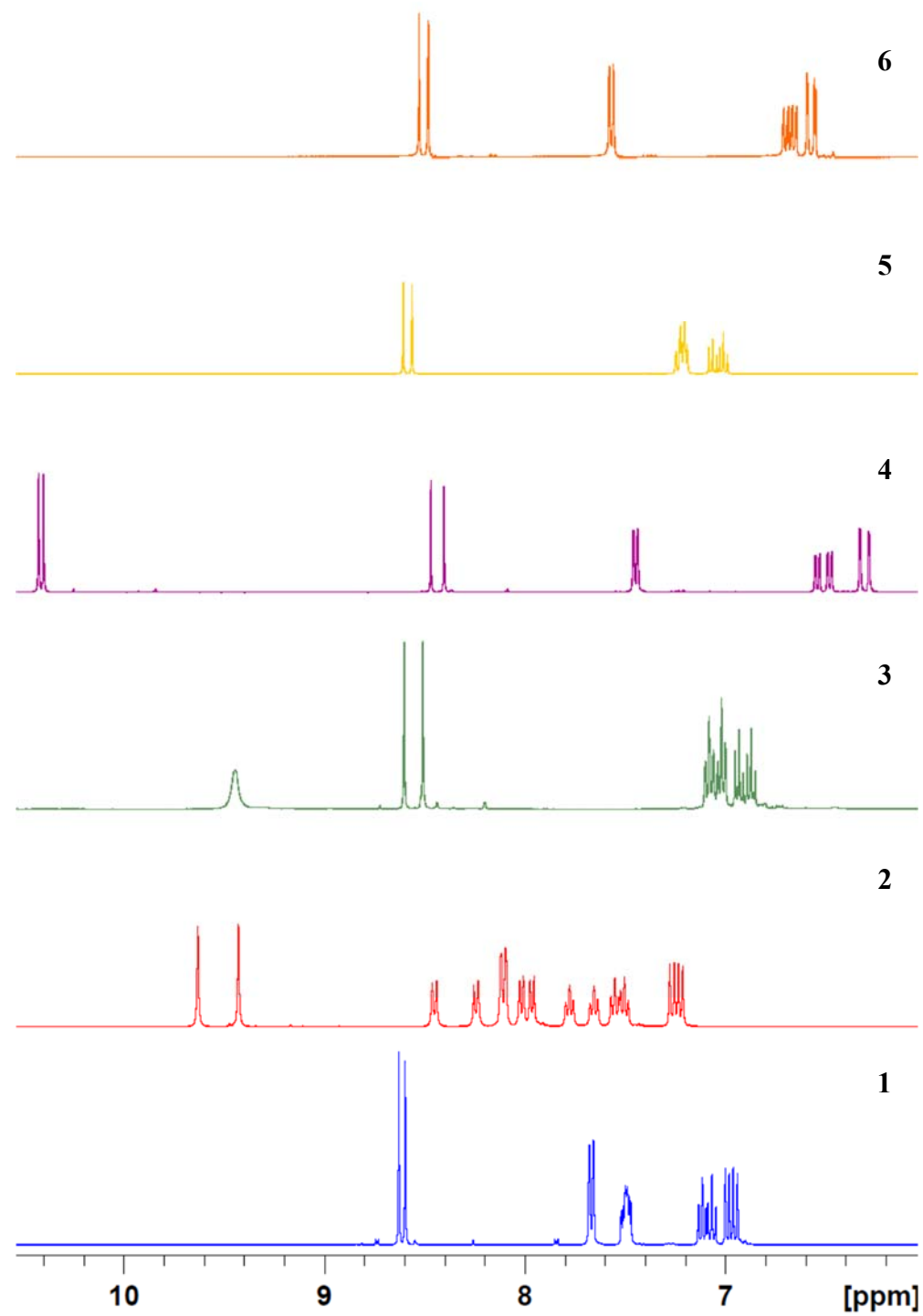


Figure S19. ¹H NMR spectra of (from bottom to top): **1**, **2**, **3**, **4**, **5** and **6** in DMSO-*d*₆ at room temperature.

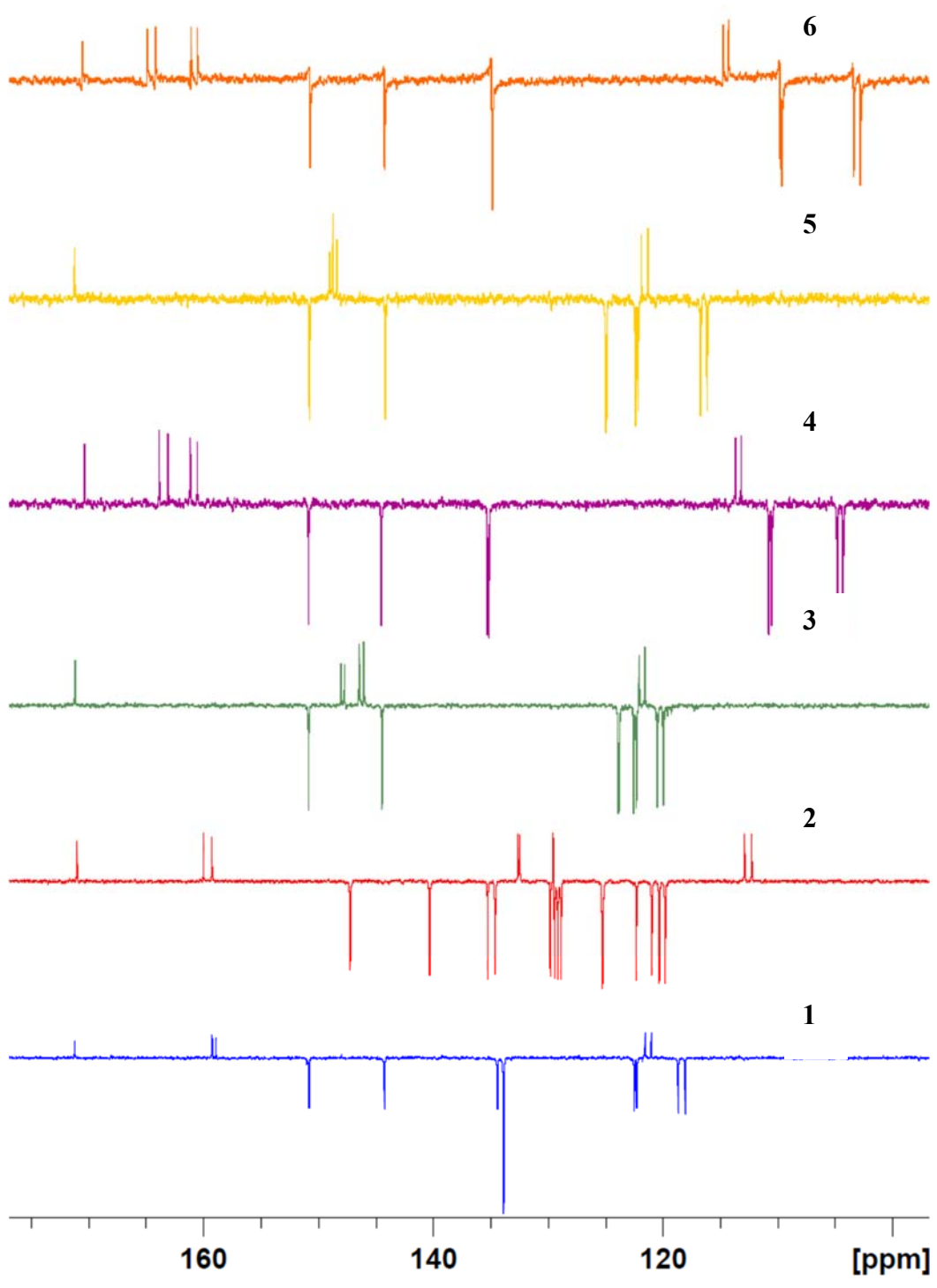


Figure S20. DEPTQ ¹³C NMR spectra of (from bottom to top): 1, 2, 3, 4, 5 and 6 in DMSO-*d*₆ at room temperature.

Stability study of complexes

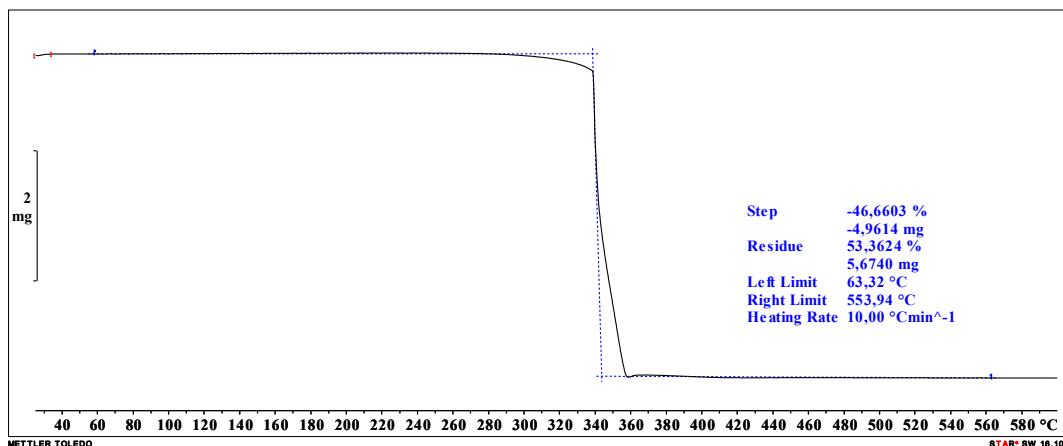


Figure S21. TG curve of 1.

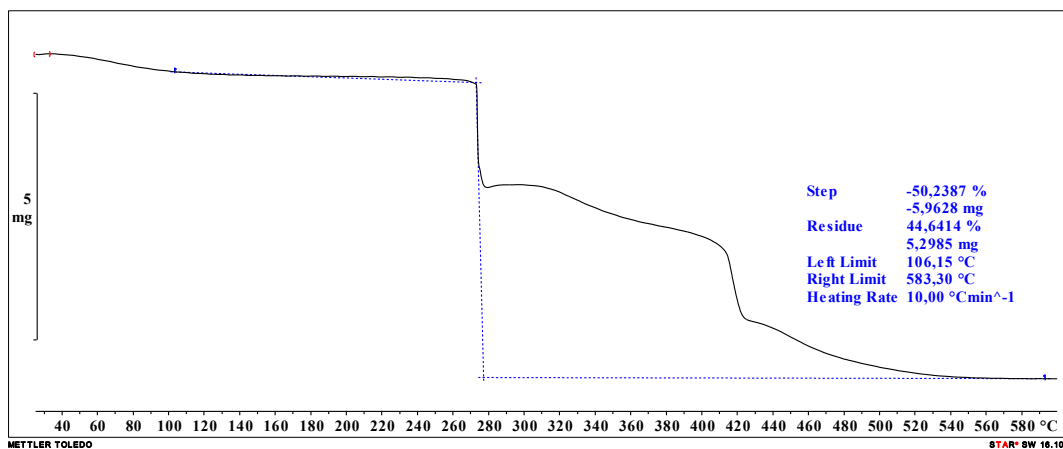


Figure S22. TG curve of 2.

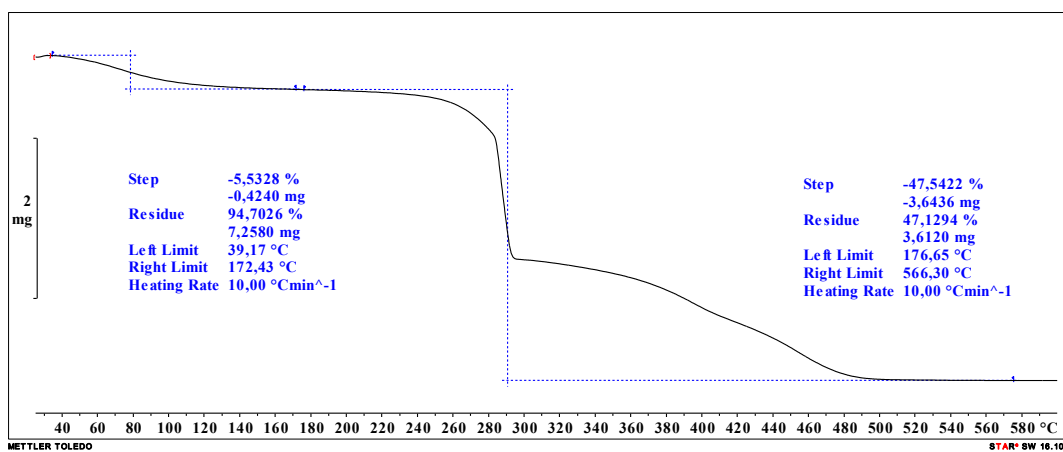


Figure S23. TG curve of 3. (MoO₃ content is calculated by dividing step 2 residue with step 1 residue.)

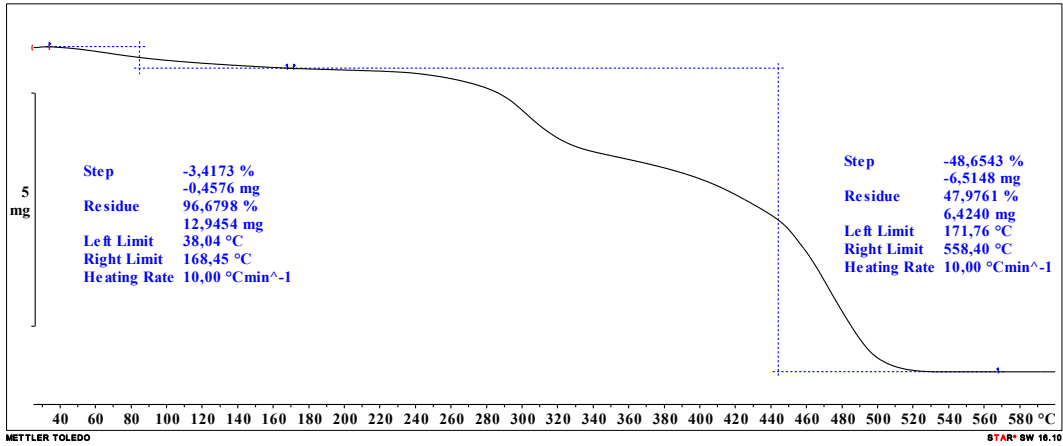


Figure S24. TG curve of 4. (MoO_3 content is calculated by dividing Step 2 residue by Step 1 residue.)

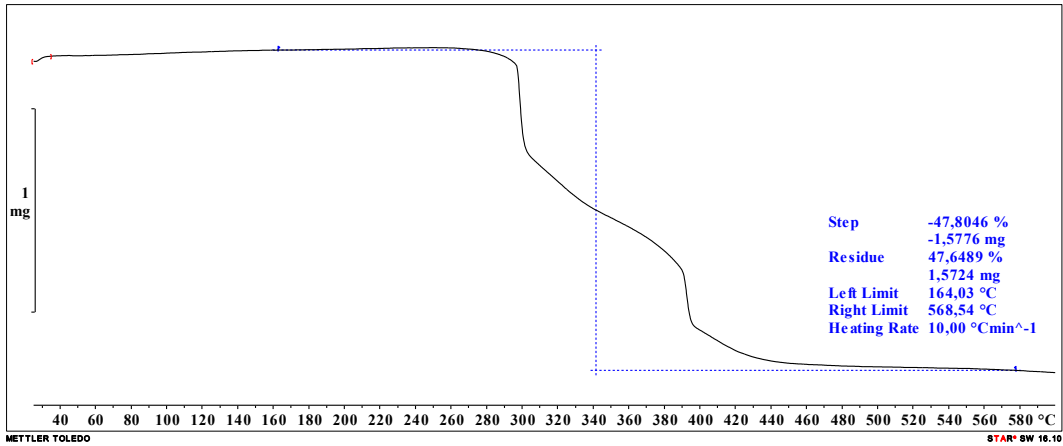


Figure S25. TG curve of 5.

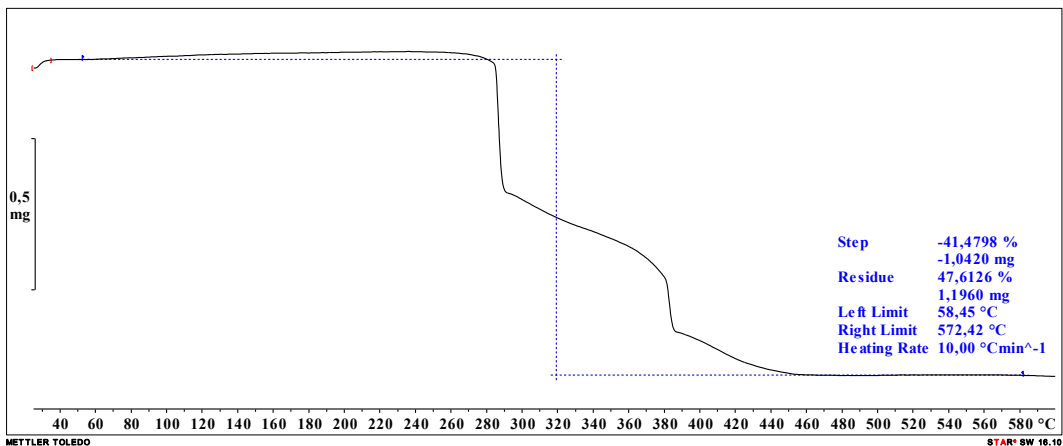


Figure S26. TG curve of 6.

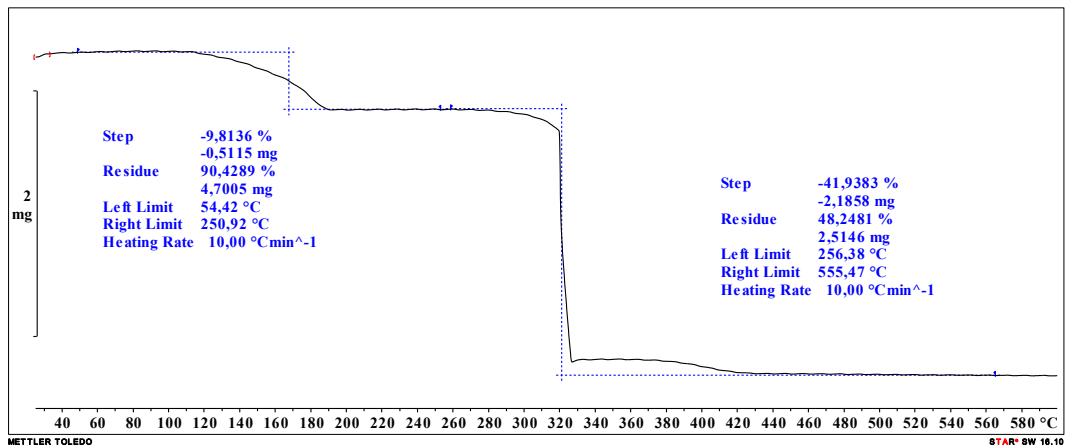


Figure S27. TG curve of 1a.

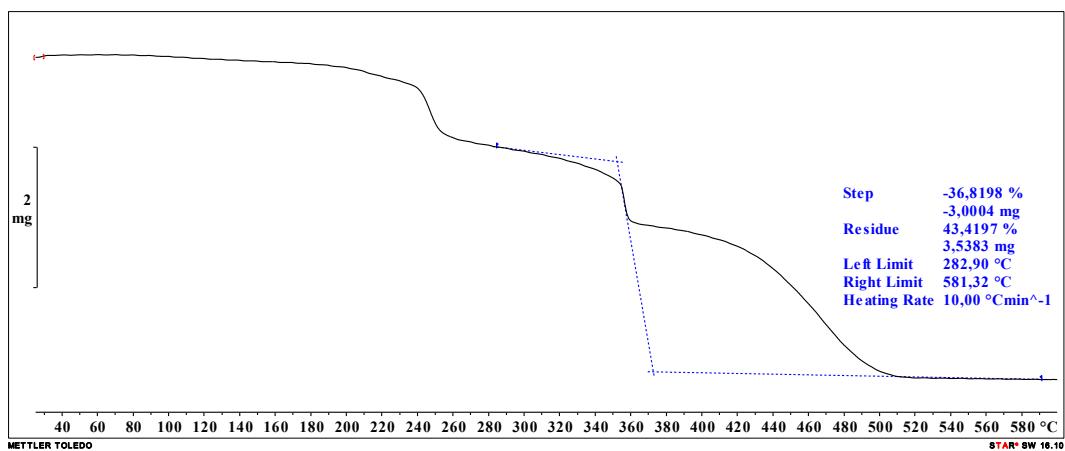


Figure S28. TG curve of 1b·CH₃CN.

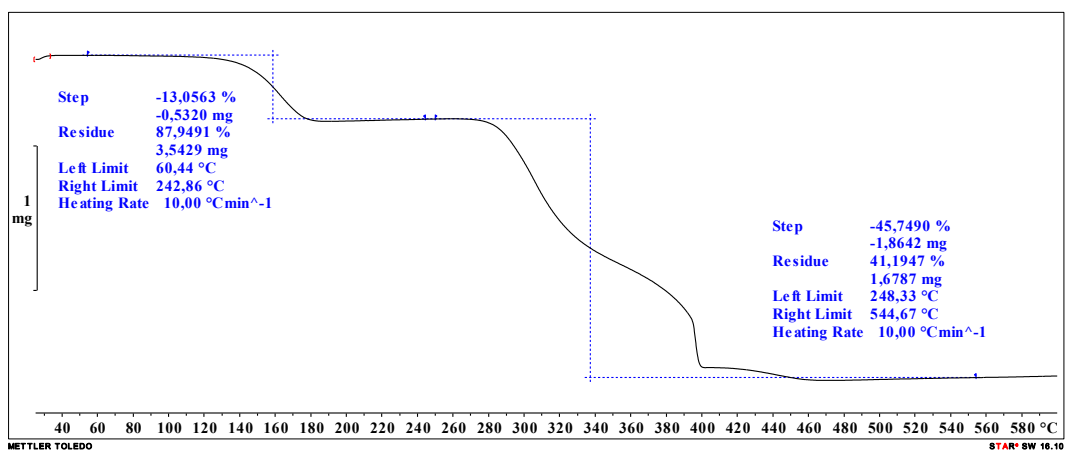


Figure S29. TG curve of 5a·CH₃OH.

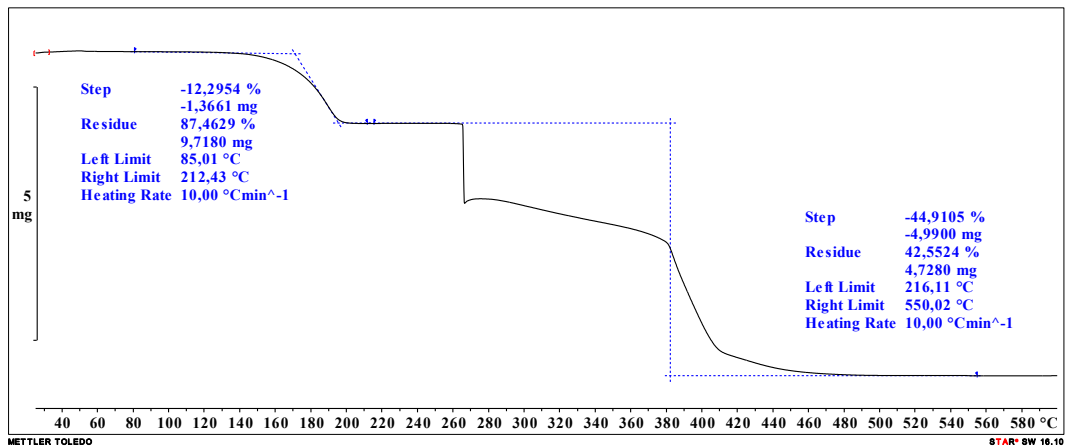


Figure S30. TG curve of $5a' \cdot 0.64CH_3OH$.

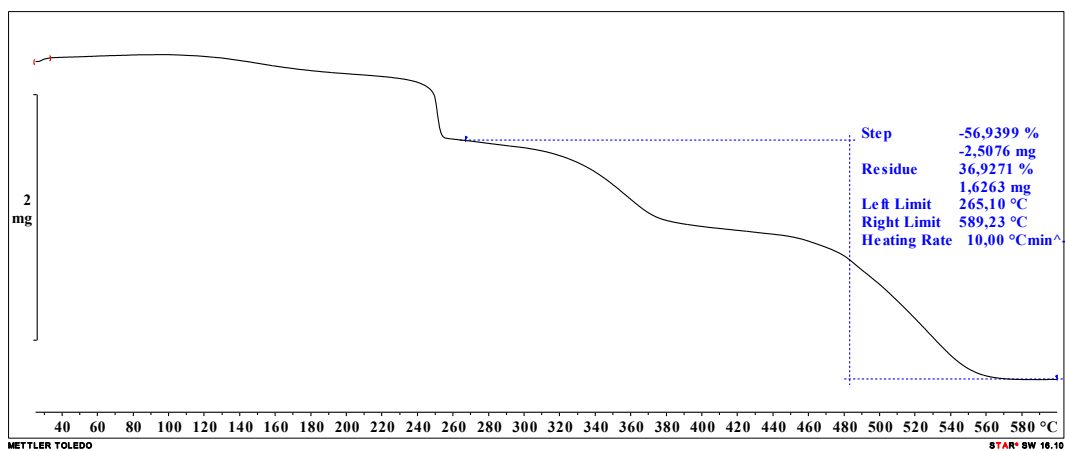


Figure S31. TG curve of $5b \cdot CH_3CN$.

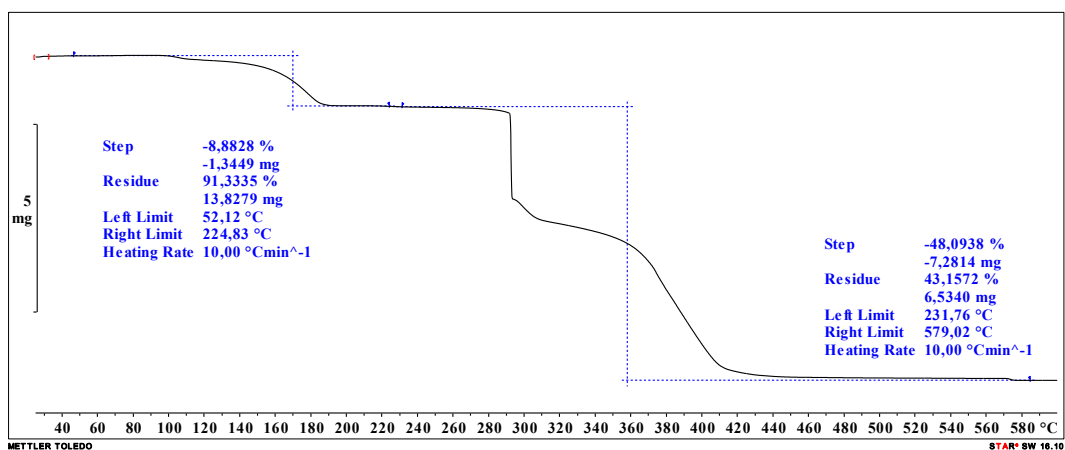


Figure S32. TG curve of $6a$.

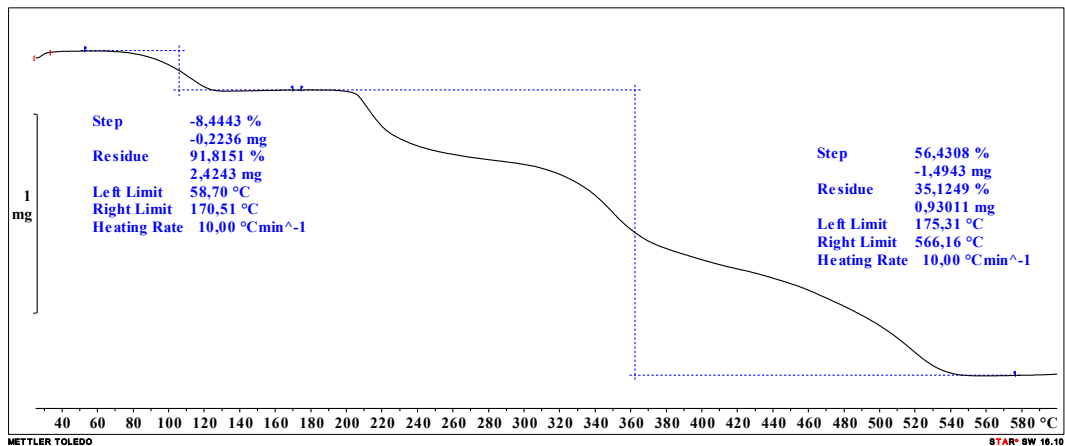


Figure S33. TG curve of **6b**·2CH₃CN

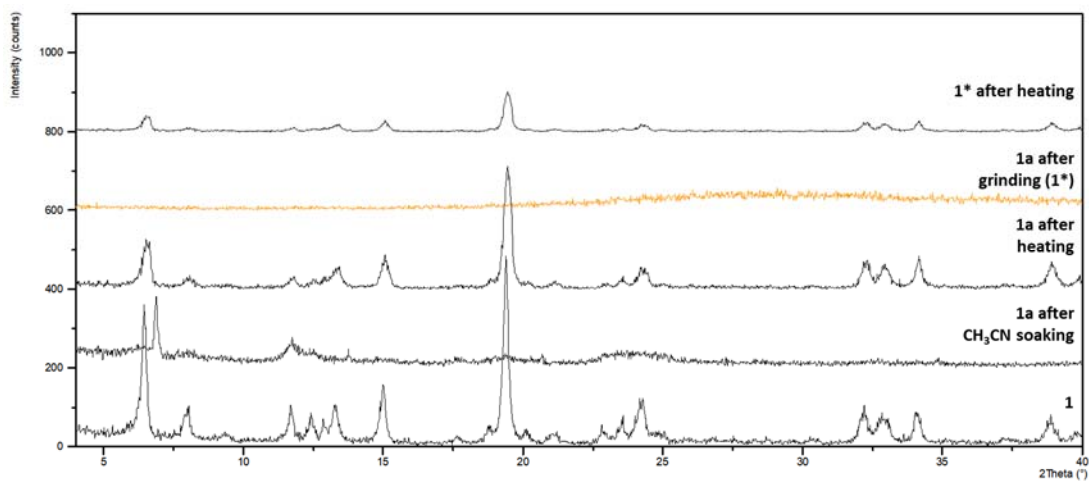


Figure S34. PXRD patterns of (from bottom to top) **1**, **1a** after soaking in acetonitrile, **1a** after heating to 180 °C, **1a** after grinding (**1***) and **1*** after heating.

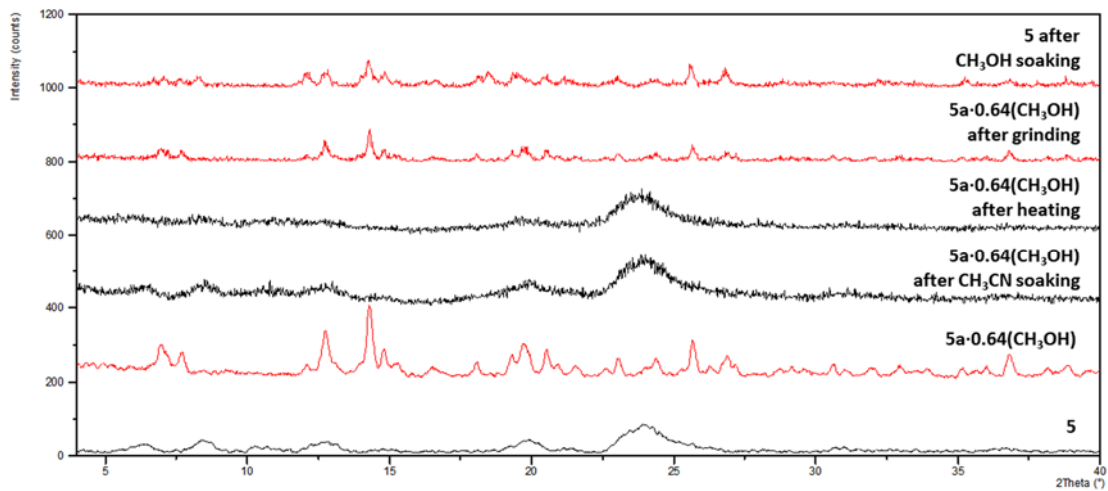


Figure S35. PXRD patterns of (from bottom to top) **5**, **5a'·0.64CH₃OH**, **5a'·0.64CH₃OH** after soaking in acetonitrile, **5a'·0.64CH₃OH** after heating to 180 °C, **5a'·0.64CH₃OH** after grinding and **5** after soaking in methanol.

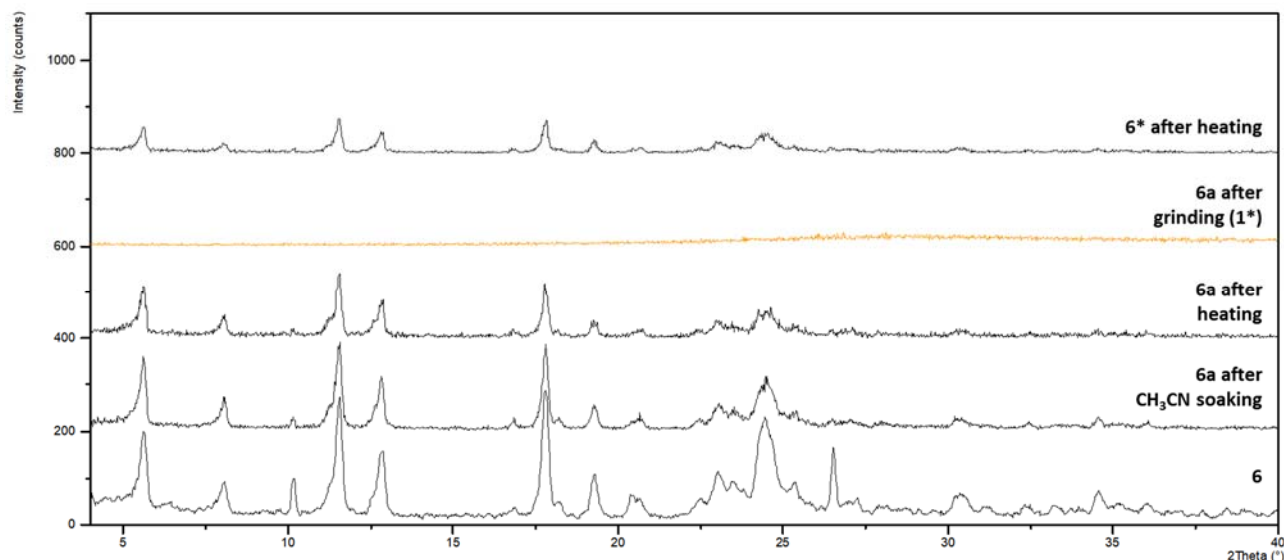


Figure S36. PXRD patterns of (from bottom to top) **6**, **6a** after soaking in acetonitrile, **6a** after heating to 180 °C, **6a** after grinding (**6***) and **6*** after heating.

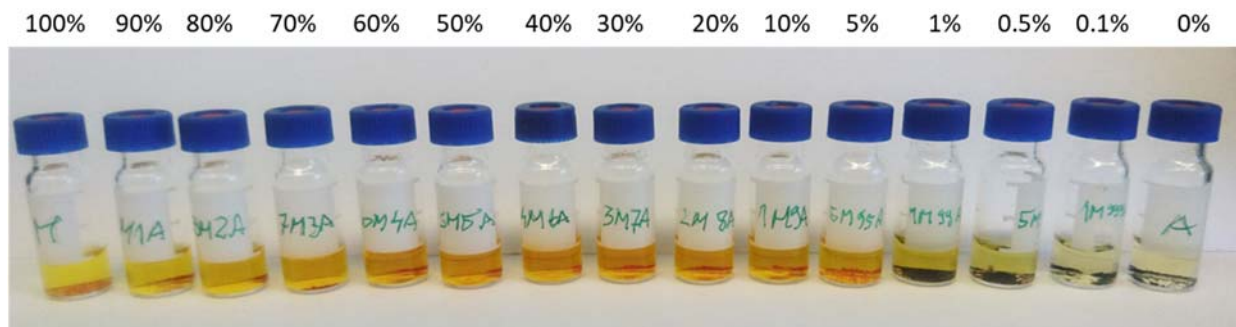


Figure S37. Soaking experiments with **5a'·0.64CH₃OH**, with percent value above each flask representing the volume ratio of methanol in mixture with acetonitrile. Experiments with **1a** and **6a** yielded similar results.

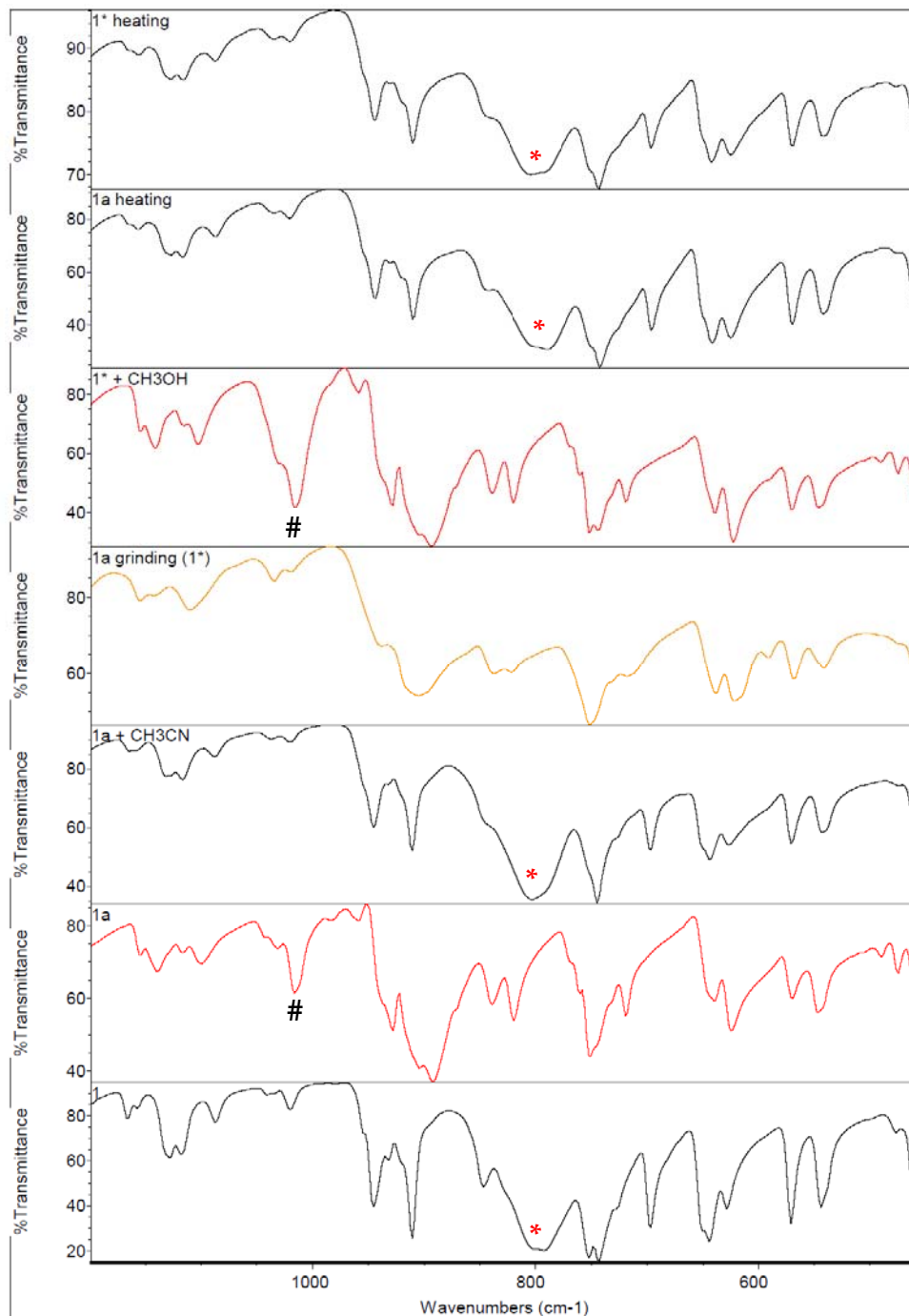


Figure S38. ATR-FTIR spectra of compounds (from bottom to top): **1**, **1a**, **1a** after soaking in acetonitrile, **1a** after grinding (**1***), **1*** after soaking in methanol, **1a** after desolvation by heating to 180 °C and **1*** after heating at 180 °C. Strong broad peak at $\sim 800\text{ cm}^{-1}$ marked with asterisk (*) corresponds to Mo=O \cdots Mo interactions present in polymeric **1**. Peak marked with hash (#) corresponds to coordinated methanol C–O stretch present in **1a**. Both peaks are absent in **1***, which corroborates that **1*** is coordinatively unsaturated dinuclear complex.

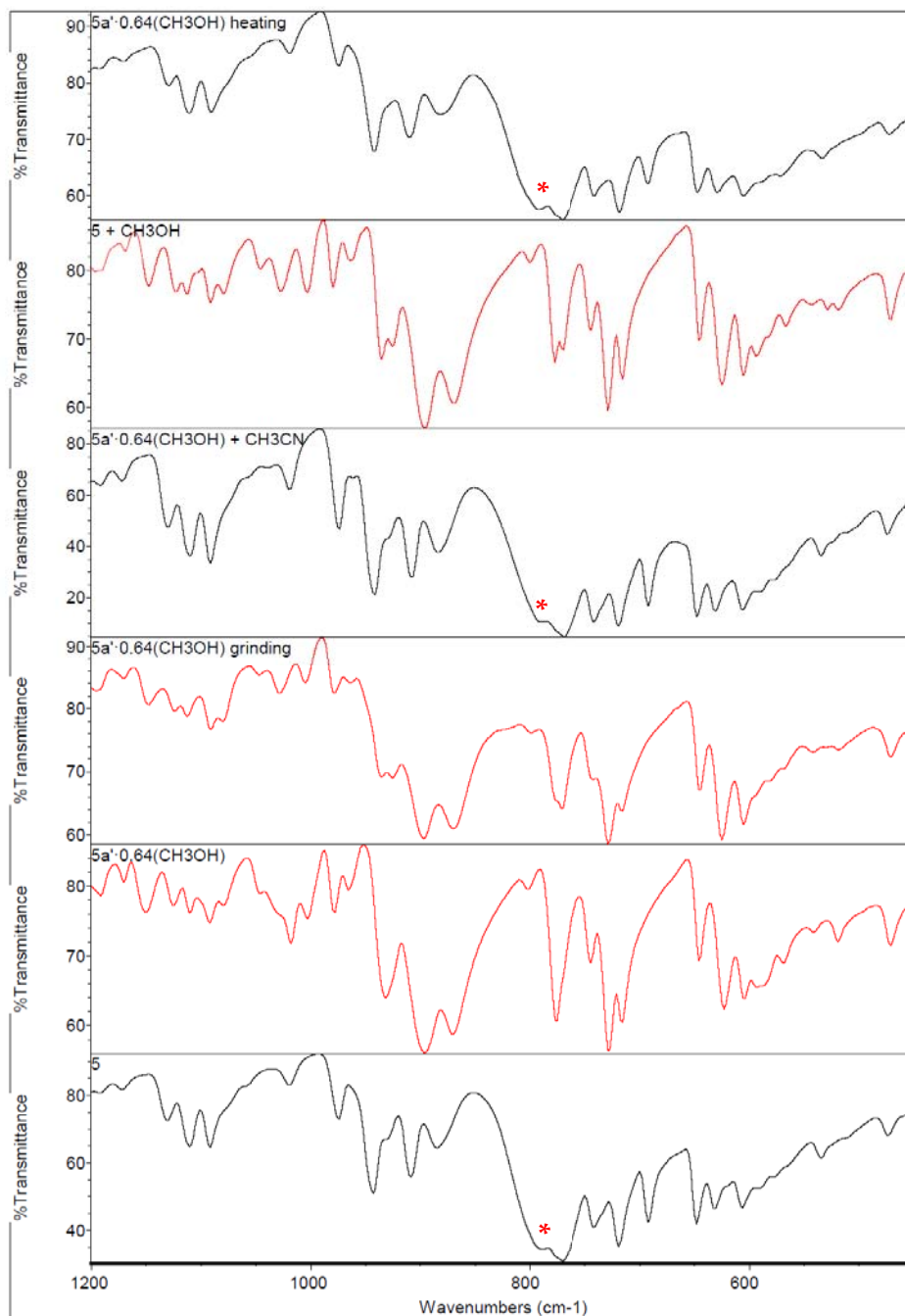


Figure S39. ATR-FTIR spectra of (from bottom to top) **5**, **5a'·0.64CH₃OH**, **5a'·0.64CH₃OH** after grinding, **5a'·0.64CH₃OH** after soaking in acetonitrile, **5** after soaking in methanol and **5a'·0.64CH₃OH** after desolvation by heating to 180 °C. Strong broad peak at $\sim 780\text{ cm}^{-1}$ marked with asterisk (*) corresponds to Mo=O \cdots Mo interactions present in polymeric **5**.

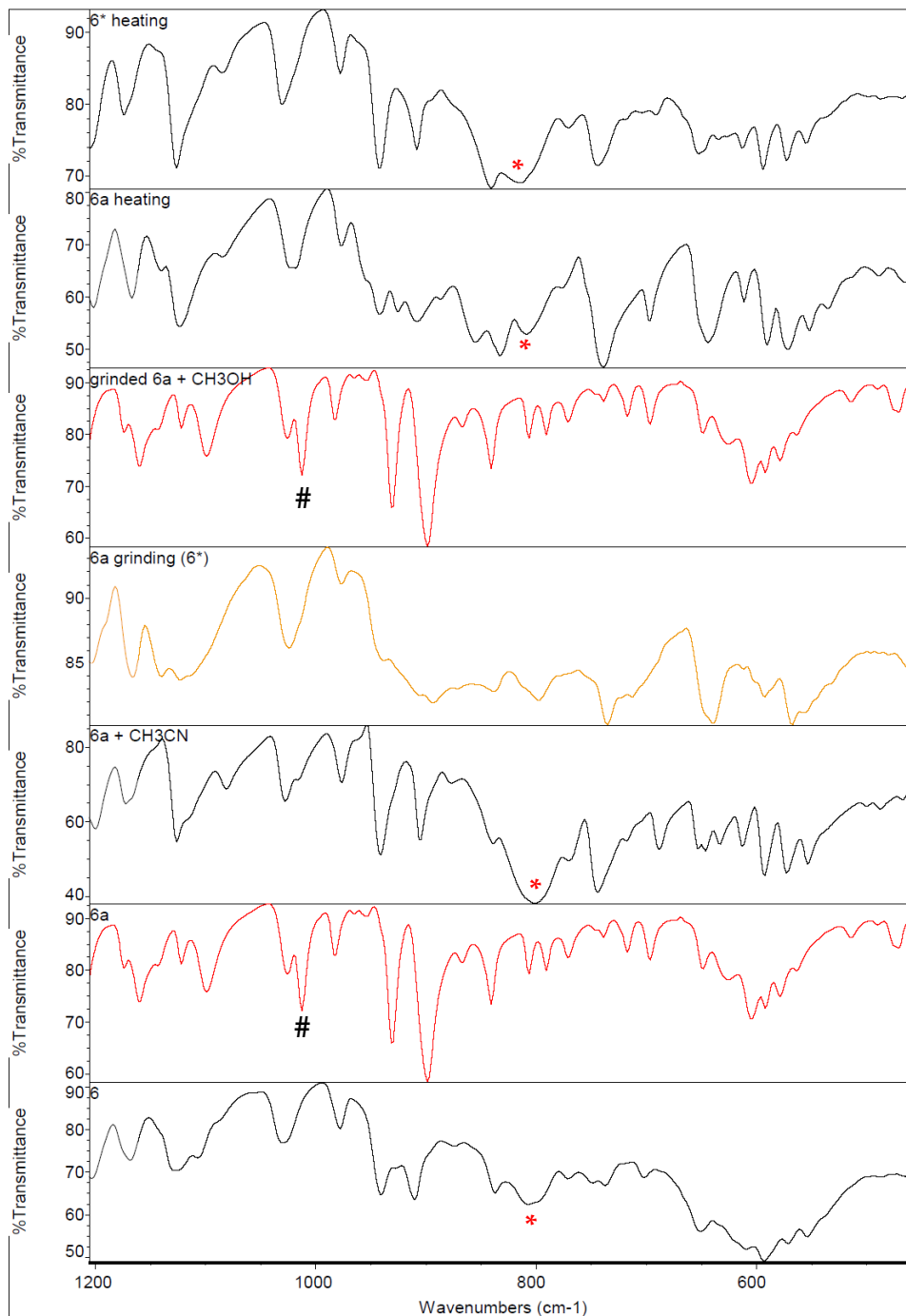


Figure S40. ATR-FTIR spectra of (from bottom to top) **6**, **6a**, **6a** after soaking in acetonitrile, **6a** after grinding (**6***), **6*** after soaking in methanol, **6a** after desolvation by heating to 180 °C and **6*** after heating at 180 °C. Strong broad peak at $\sim 800\text{ cm}^{-1}$ marked with asterisk (*) corresponds to $\text{Mo}=\text{O}\cdots\text{Mo}$ interactions present in polymeric **6**. Peak marked with hash (#) corresponds to coordinated methanol C–O stretch present in **6a**. Both peaks are very weakly expressed, if not absent in **6***, which corroborates that **6*** is coordinatively unsaturated dinuclear complex.

Theoretical calculations

Table S9. Relative enthalpies and enthalpy differences $\Delta H_{cis-trans}$ of the different species (in kcal mol⁻¹).

$H(\text{kcal mol}^{-1})$	L^1		L^5		L^6	
	Gas	PCM	Gas	PCM	Gas	PCM
<i>cis</i> -[(MoO ₂) ₂ (L ¹)]	0	0	0	0	0	0
<i>trans</i> -[(MoO ₂) ₂ (L ¹)]	-0.1	+0.7	-0.1	+0.2	+1.5	+1.4
$\Delta H_{cis-trans}$	+0.1	-0.7	+0.1	-0.2	-1.5	-1.4
<i>cis</i> -[(MoO ₂) ₂ (L ¹)(Im ^{ONO})]	-16.2	-13.3	-15.6	-12.8	-15.3	-12.7
<i>trans</i> -[(MoO ₂) ₂ (L ¹)(Im ^{ONO})]	-15.5	-12.3	-15.1	-12.3	-13.2	-10.8
$\Delta H_{cis-trans}$	-0.7	-1.0	-0.5	-0.5	-2.1	-1.9
<i>cis</i> -[(MoO ₂) ₂ (L ¹)(Im) ₂]	-26.0	-21.2	-25.2	-21.1	-24.5	-20.0
<i>trans</i> -[(MoO ₂) ₂ (L ¹)(Im) ₂]	-28.8	-21.1	-28.1	-20.5	-25.7	-18.6
$\Delta H_{cis-trans}$	+2.8	-0.1	+2.9	-0.6	+1.3	-1.4

Experimental data

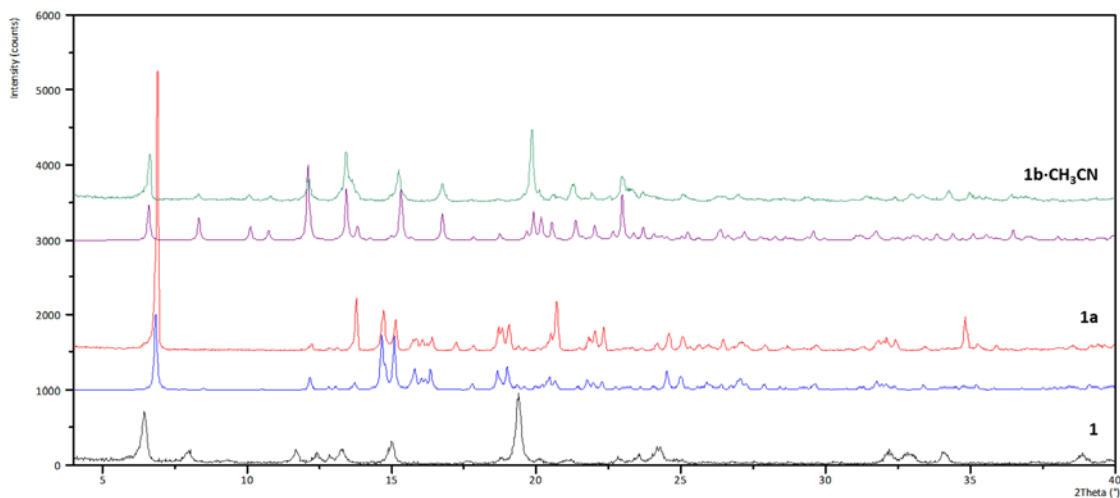


Figure S41. PXRD patterns of (from bottom to top): **1**, **1a** (calculated from crystal structure), **1a**, **1b·CH₃CN** (calculated from crystal structure) and **1b·CH₃CN**.

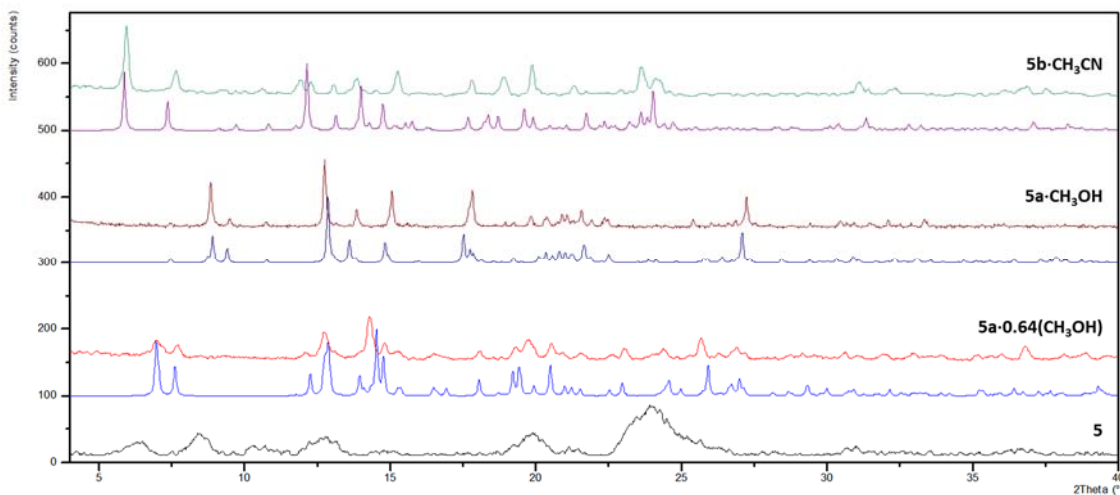


Figure S42. PXRD patterns of (from bottom to top) **5**, **5a'·0.64CH₃OH** (calculated from crystal structure), **5a'·0.64CH₃OH**, **5a·CH₃OH** (calculated from crystal structure), **5a·CH₃OH**, **5b·CH₃CN** (calculated from crystal structure) and **5b·CH₃CN**. Slight differences between calculated and experimental patterns for **5a'·0.64CH₃OH**, **5a·CH₃OH** and **5b·CH₃CN** can be ascribed to differences in diffraction experiment temperatures.

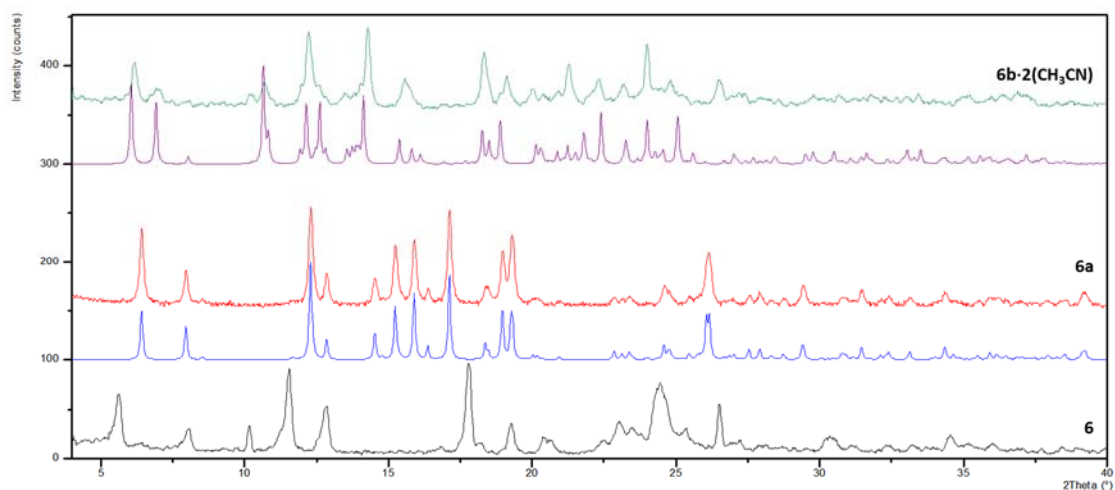


Figure S43. PXRD patterns of (from bottom to top) **6**, **6a** (calculated from crystal structure), **6a**, **6b·2CH₃CN** (calculated from crystal structure) and **6b·2CH₃CN**. Slight differences between calculated and experimental patterns for **6b·2CH₃CN** can be ascribed to differences in diffraction experiment temperatures as well as possible sample desolvation

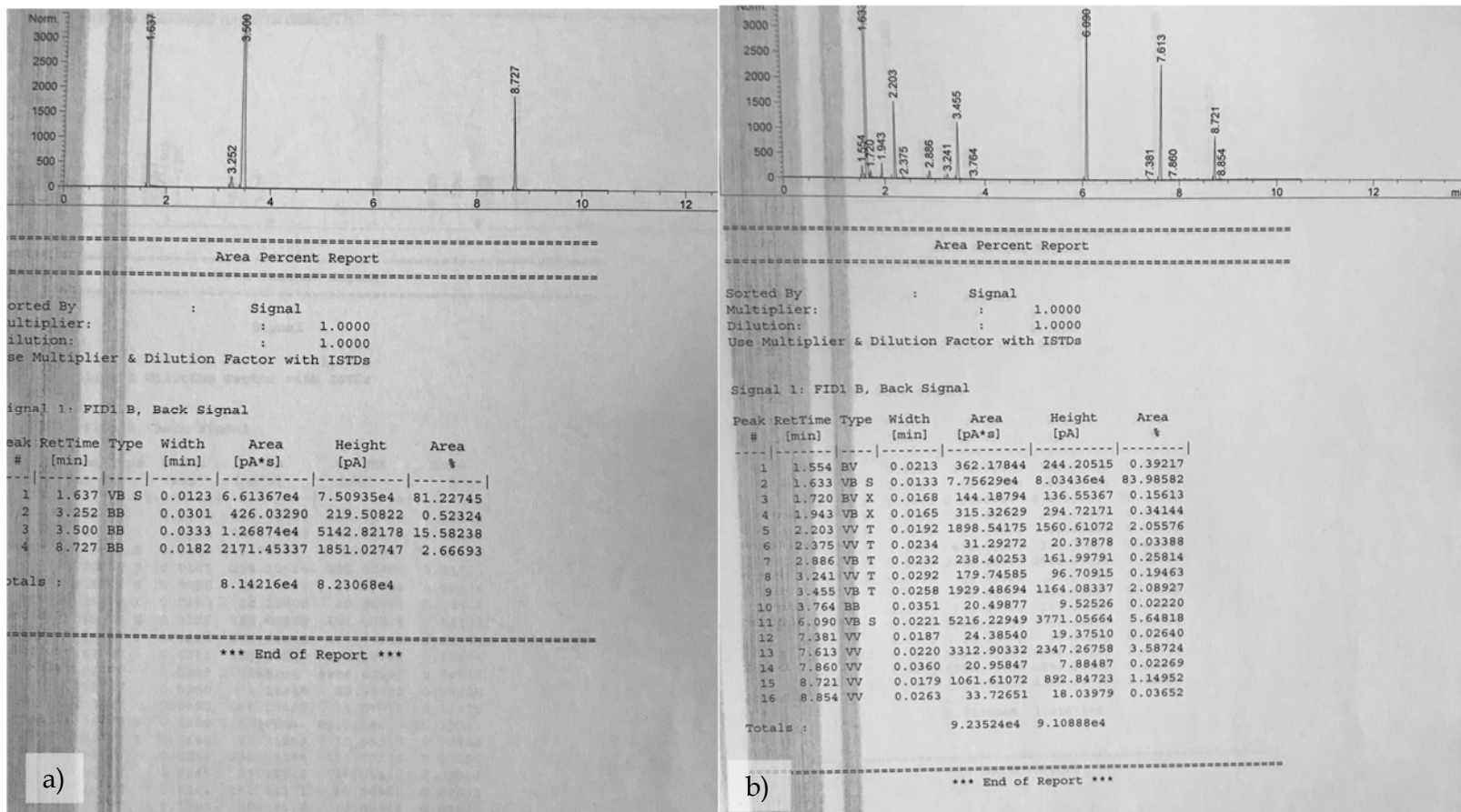

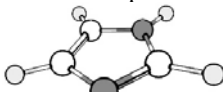


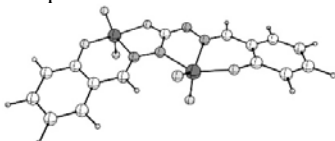
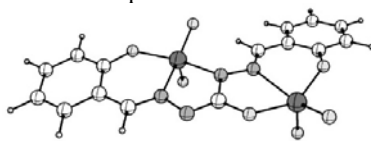
Figure S44. GC spectra for general cyclooctene epoxidation reaction: a) start of the investigated reaction, and b) the end of the investigated reaction. Retention time 1.633 min corresponds to diethyl ether, 3.500 min to cyclooctene, 6.090 min to cyclooctene oxide, and 8.727 min to acetophenone (the internal reference).

Table S10. Structures optimized by DFT calculation in gaseous phase and acetonitrile solution. Numerical data represent atomic number followed by Cartesian coordinates (in Å) of atoms in the structure.

Imidazole

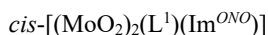
Gas phase				Acetonitrile phase			
							
7	0.146041000	-1.226478000	0.000034000	7	0.158176000	-1.225544000	-0.000236000
7	-0.765321000	0.799051000	-0.000005000	7	-0.770397000	0.787479000	-0.000376000
1	-1.470107000	1.521821000	0.000063000	1	-1.483968000	1.507156000	0.002448000
6	-0.982277000	-0.551200000	-0.000022000	6	-0.981898000	-0.556344000	0.000109000
1	-1.977006000	-0.976883000	-0.000049000	1	-1.974068000	-0.986033000	-0.000035000
6	1.139427000	-0.271043000	-0.000016000	6	1.146180000	-0.260053000	0.000413000
1	2.184705000	-0.549327000	-0.000056000	1	2.195687000	-0.524609000	0.000422000
6	0.601970000	0.992051000	0.000014000	6	0.590712000	0.996689000	-0.000151000
1	1.042655000	1.977532000	-0.000018000	1	1.017933000	1.988186000	-0.000776000

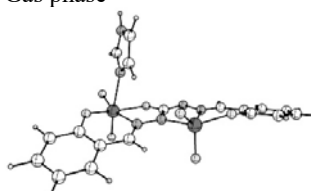
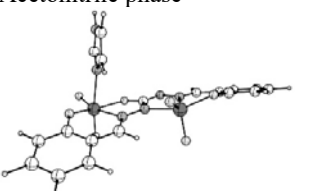
cis-[(MoO₂)₂(L¹)]

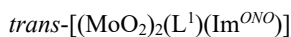
Gas phase				Acetonitrile phase			
							
42	-2.767242000	-1.793974000	0.049513000	42	-2.764257000	-1.784708000	0.006163000
42	1.653721000	1.010846000	0.024152000	42	1.654262000	0.997822000	-0.005058000
8	-0.887223000	-2.392216000	-0.234544000	8	-0.880959000	-2.420472000	-0.196173000
8	3.524050000	1.273135000	-0.400889000	8	3.525088000	1.292314000	-0.382239000
8	-4.000586000	-0.439992000	-0.565967000	8	-4.044607000	-0.445834000	-0.514094000
8	-3.456987000	-3.136097000	-0.719461000	8	-3.485979000	-3.176461000	-0.668327000
8	0.936442000	2.160413000	-1.010571000	8	0.937437000	2.267066000	-0.907239000
8	1.478800000	1.528735000	1.630935000	8	1.519644000	1.396042000	1.642548000
7	-0.034004000	-0.249206000	-0.110945000	7	-0.041003000	-0.258713000	-0.172727000
8	-3.024230000	-1.912582000	1.718593000	8	-2.974558000	-1.859199000	1.688908000
7	2.313711000	-1.130827000	-0.100322000	7	2.323678000	-1.137805000	-0.064900000
7	1.363861000	-2.130653000	-0.169331000	7	1.364874000	-2.137698000	-0.117275000
7	-1.375428000	0.066689000	-0.071817000	7	-1.387471000	0.056469000	-0.121078000
6	0.165193000	-1.614490000	-0.157889000	6	0.168466000	-1.621101000	-0.151987000
6	3.547093000	-1.562344000	-0.050877000	6	3.557539000	-1.563003000	-0.006988000
1	3.659353000	-2.646097000	-0.030563000	1	3.693408000	-2.642913000	0.037540000
6	5.874977000	1.391720000	-0.204996000	6	5.875694000	1.404733000	-0.215029000
1	5.812373000	2.465078000	-0.349508000	1	5.816960000	2.477084000	-0.372563000
6	-1.760193000	1.306340000	0.022143000	6	-1.774776000	1.296107000	-0.030018000
1	-1.008646000	2.087162000	0.100043000	1	-1.027390000	2.081858000	0.034171000
6	4.735206000	-0.758751000	-0.024226000	6	4.737914000	-0.746104000	0.000753000
6	4.691122000	0.645119000	-0.199210000	6	4.694341000	0.656525000	-0.188970000
6	-3.136600000	1.734372000	0.006760000	6	-3.149174000	1.730552000	-0.014332000
6	-4.209507000	0.858344000	-0.284918000	6	-4.239589000	0.861493000	-0.249293000
6	5.990189000	-1.385023000	0.140464000	6	5.995646000	-1.370082000	0.159869000
1	6.022745000	-2.463804000	0.269330000	1	6.027751000	-2.446980000	0.299622000
6	7.096619000	0.748488000	-0.029360000	6	7.100603000	0.763204000	-0.045819000
6	-5.520923000	1.347027000	-0.336078000	6	-5.549981000	1.350485000	-0.252847000
1	-6.320989000	0.653342000	-0.572107000	1	-6.366811000	0.661813000	-0.444160000
6	-3.419243000	3.097309000	0.243030000	6	-3.414168000	3.099110000	0.213314000
1	-2.593824000	3.770703000	0.459469000	1	-2.575963000	3.768419000	0.386776000
6	7.160554000	-0.642466000	0.144379000	6	7.165894000	-0.625682000	0.142725000
1	8.118850000	-1.133837000	0.278158000	1	8.126017000	-1.115404000	0.270348000
6	-5.770676000	2.692439000	-0.086309000	6	-5.782050000	2.702243000	-0.011251000
6	-4.720027000	3.574751000	0.205258000	6	-4.714756000	3.581999000	0.221797000
1	-4.922133000	4.623669000	0.396974000	1	-4.904062000	4.634661000	0.406080000
1	8.010815000	1.335313000	-0.031015000	1	8.013981000	1.350924000	-0.066399000
1	-6.792474000	3.059636000	-0.121622000	1	-6.802829000	3.073470000	-0.008016000

trans-[(MoO₂)₂(L¹)]

Gas phase				Acetonitrile phase			
42	2.757335000	-1.802589000	0.115681000	42	2.763567000	-1.765842000	0.012333000
42	-1.658597000	1.025493000	-0.104485000	42	-1.672313000	1.007860000	-0.036325000
8	0.890605000	-2.372797000	-0.270654000	8	0.883098000	-2.383315000	0.278127000
8	-3.505551000	1.248288000	0.428145000	8	-3.541802000	1.305996000	0.352501000
8	3.470522000	-3.163602000	-0.596877000	8	3.278808000	-3.122558000	-0.883942000
8	4.020084000	-0.467016000	-0.475057000	8	3.929104000	-0.425458000	-0.737589000
8	-1.564987000	1.598865000	-1.698705000	8	-1.581514000	1.265403000	-1.713048000
8	-0.914753000	2.149146000	0.941616000	8	-0.974186000	2.372868000	0.736185000
8	2.928545000	-1.902428000	1.797048000	8	3.370871000	-1.912258000	1.590853000
7	-2.312147000	-1.122481000	-0.095220000	7	-2.329508000	-1.134984000	0.133405000
7	0.038294000	-0.232502000	-0.064588000	7	0.036949000	-0.233366000	0.202930000
7	1.383970000	0.078458000	-0.041852000	7	1.391060000	0.063219000	0.119980000
7	-1.357818000	-2.115781000	-0.178371000	7	-1.364106000	-2.122479000	0.226395000
6	-0.161574000	-1.595426000	-0.169507000	6	-0.171542000	-1.595269000	0.236747000
6	-4.681336000	0.627993000	0.255407000	6	-4.703591000	0.655937000	0.147111000
6	-3.545061000	-1.557570000	-0.110046000	6	-3.558933000	-1.567906000	0.066267000
1	-3.656120000	-2.636476000	-0.215857000	1	-3.691849000	-2.649083000	0.055476000
6	4.231306000	0.839016000	-0.235396000	6	4.198672000	0.850591000	-0.386105000
6	3.157428000	1.734459000	-0.016717000	6	3.176479000	1.710227000	0.080638000
6	-5.863552000	1.367571000	0.376126000	6	-5.887805000	1.399603000	0.117770000
1	-5.793563000	2.429897000	0.584586000	1	-5.836655000	2.476193000	0.245949000
6	-4.733946000	-0.761772000	-0.006435000	6	-4.739035000	-0.752196000	0.000127000
6	3.444376000	3.104627000	0.166811000	6	3.503557000	3.049179000	0.388626000
1	2.618449000	3.792589000	0.328463000	1	2.715337000	3.709695000	0.739404000
6	1.777004000	1.317780000	-0.018500000	6	1.802378000	1.295031000	0.202883000
1	1.029324000	2.105624000	0.022220000	1	1.070021000	2.079140000	0.380494000
6	5.548366000	1.314688000	-0.262315000	6	5.505122000	1.324725000	-0.541393000
1	6.349251000	0.605298000	-0.442236000	1	6.268687000	0.649874000	-0.914965000
6	-7.092645000	0.730849000	0.232314000	6	-7.105638000	0.749925000	-0.071404000
1	-8.005861000	1.311805000	0.325188000	1	-8.020594000	1.334961000	-0.095791000
6	5.802074000	2.667616000	-0.062859000	6	5.803858000	2.644373000	-0.209462000
1	6.827783000	3.025099000	-0.079330000	1	6.823883000	3.001378000	-0.319207000
6	-7.165062000	-0.646650000	-0.025462000	6	-7.161616000	-0.643507000	-0.224258000
1	-8.129044000	-1.133134000	-0.133890000	1	-8.115540000	-1.140102000	-0.370778000
6	4.750088000	3.569918000	0.152766000	6	4.805133000	3.511091000	0.258453000
1	4.955106000	4.624677000	0.305459000	1	5.047012000	4.538023000	0.513263000
6	-5.995733000	-1.382173000	-0.138428000	6	-5.989500000	-1.383897000	-0.182123000
1	-6.034549000	-2.450427000	-0.335294000	1	-6.013980000	-2.464414000	-0.293103000



Gas phase				Acetonitrile phase			
							
42	2.616019000	-1.197803000	-1.004900000	42	2.598372000	-1.219332000	-0.989096000
42	-1.912503000	1.089670000	0.196268000	42	-1.936641000	1.078425000	0.210594000
8	0.727788000	-1.886064000	-1.297213000	8	0.712466000	-1.916698000	-1.242264000
8	-3.734932000	0.965609000	0.852692000	8	-3.759564000	0.992618000	0.861965000
8	3.798735000	-0.020558000	-0.002236000	8	3.821942000	-0.039033000	-0.059057000
8	3.428424000	-2.695625000	-1.011562000	8	3.416589000	-2.716787000	-1.080227000
8	-1.103465000	1.619513000	1.602297000	8	-1.115452000	1.827015000	1.514475000
8	-1.931198000	2.352416000	-0.941151000	8	-2.027869000	2.205672000	-1.061870000
7	-0.211589000	0.052305000	-0.439925000	7	-0.216994000	0.027707000	-0.378860000
8	2.833228000	-0.507672000	-2.541278000	8	2.735342000	-0.499724000	-2.535430000
7	2.008152000	-1.891319000	1.280324000	7	2.102227000	-1.872380000	1.271203000
7	-2.503312000	-0.888077000	-0.692719000	7	-2.529542000	-0.919003000	-0.640439000
7	-1.528137000	-1.759972000	-1.121847000	7	-1.538090000	-1.791707000	-1.049651000
7	1.100379000	0.456221000	-0.376019000	7	1.098963000	0.432437000	-0.348571000
7	1.873989000	-3.290204000	2.973011000	7	1.845190000	-3.197241000	3.006112000
1	1.967881000	-4.139251000	3.511293000	1	1.798700000	-4.046874000	3.557607000
6	-0.340093000	-1.223205000	-0.972843000	6	-0.357161000	-1.246338000	-0.903246000
6	-3.729152000	-1.292138000	-0.899033000	6	-3.751534000	-1.331195000	-0.838566000
1	-3.824535000	-2.235147000	-1.436849000	1	-3.864143000	-2.284748000	-1.353756000
6	2.274739000	-3.120346000	1.689597000	6	2.118399000	-3.134814000	1.687817000
1	2.751495000	-3.881810000	1.091100000	1	2.330037000	-3.997843000	1.075664000
6	-6.095531000	1.075518000	0.825305000	6	-6.119757000	1.097373000	0.807538000
1	-6.042112000	1.921826000	1.502115000	1	-6.078009000	1.961744000	1.462753000
6	1.411957000	-1.244338000	2.346019000	6	1.807329000	-1.100735000	2.382598000
1	1.090110000	-0.216082000	2.279246000	1	1.740856000	-0.024874000	2.327932000
6	1.410458000	1.691381000	-0.128235000	6	1.417122000	1.670888000	-0.132352000
1	0.621311000	2.431926000	-0.019068000	1	0.638297000	2.419892000	-0.014532000
6	-4.931396000	-0.626642000	-0.479571000	6	-4.948446000	-0.644103000	-0.438797000
6	1.319619000	-2.101470000	3.408936000	6	1.643615000	-1.915601000	3.470617000
1	0.923932000	-1.978821000	4.404960000	1	1.412126000	-1.708090000	4.504049000
6	-4.901039000	0.486815000	0.393535000	6	-4.924160000	0.493967000	0.403344000
6	2.768395000	2.169958000	0.013605000	6	2.780009000	2.149793000	-0.026940000
6	3.900640000	1.314189000	0.070124000	6	3.918690000	1.302589000	0.010991000
6	-6.182843000	-1.124498000	-0.902054000	6	-6.197137000	-1.152817000	-0.859087000
1	-6.204932000	-1.982940000	-1.568601000	1	-6.211438000	-2.031321000	-1.498458000
6	-7.314761000	0.570837000	0.382421000	6	-7.336902000	0.582482000	0.365545000
6	5.175833000	1.867254000	0.261768000	6	5.195239000	1.858299000	0.174670000
1	6.022812000	1.190580000	0.308988000	1	6.050148000	1.190160000	0.212794000
6	2.963586000	3.561168000	0.150421000	6	2.971779000	3.543359000	0.096512000
1	2.093893000	4.212687000	0.112217000	1	2.097815000	4.189076000	0.074148000
6	-7.364414000	-0.531033000	-0.484144000	6	-7.381097000	-0.543353000	-0.470080000
1	-8.319876000	-0.918639000	-0.823054000	1	-8.334467000	-0.938281000	-0.806578000
6	5.337045000	3.243034000	0.380849000	6	5.353051000	3.237343000	0.283215000
6	4.229013000	4.100032000	0.325206000	6	4.239645000	4.088039000	0.243446000
1	4.357979000	5.173607000	0.419912000	1	4.365292000	5.162694000	0.331151000
6	6.333813000	3.652899000	0.519679000	6	6.350427000	3.651314000	0.402463000
1	-8.236785000	1.038007000	0.717005000	1	-8.260360000	1.061009000	0.679199000

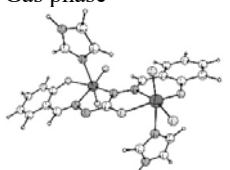
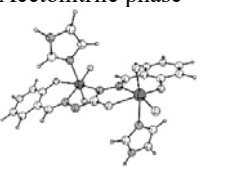


Gas phase				Acetonitrile phase			
42	-2.574451000	-1.213518000	-1.092421000	42	-2.559536000	-1.293329000	-1.034896000
42	1.947141000	1.099744000	0.278804000	42	1.940848000	1.111149000	0.219038000
8	-0.676787000	-1.919094000	-1.154402000	8	-0.665872000	-1.970617000	-1.114959000
8	3.849707000	1.405763000	0.045163000	8	3.851223000	1.411181000	0.091857000
8	-3.401982000	-2.689047000	-1.243806000	8	-3.373597000	-2.793017000	-1.115637000
8	-3.834202000	-0.060535000	-0.159193000	8	-3.854414000	-0.110947000	-0.223765000
8	1.715434000	0.964119000	1.956544000	8	1.713283000	0.890316000	1.889620000
8	1.370541000	2.614950000	-0.254036000	8	1.344386000	2.671477000	-0.177803000
8	-2.611648000	-0.475650000	-2.622648000	8	-2.598735000	-0.644524000	-2.617836000
7	2.550424000	-0.881819000	-0.589792000	7	2.566730000	-0.903541000	-0.583160000
7	0.236703000	0.087042000	-0.406568000	7	0.228896000	0.076456000	-0.459469000
7	-1.089936000	0.466797000	-0.350034000	7	-1.107690000	0.434632000	-0.404348000
7	1.565920000	-1.764220000	-0.974606000	7	1.573397000	-1.793046000	-0.949071000
7	-2.158888000	-1.885655000	1.233302000	7	-2.141927000	-1.782792000	1.298492000
6	0.379228000	-1.217210000	-0.855834000	6	0.391425000	-1.242720000	-0.849343000
6	4.989618000	0.707503000	-0.014268000	6	4.994422000	0.710492000	0.001448000
7	-1.409086000	-3.037409000	2.949793000	7	-1.350325000	-2.697564000	3.134229000
1	-0.856807000	-3.692331000	3.484284000	1	-0.770375000	-3.264132000	3.743241000
6	3.766749000	-1.349415000	-0.699476000	6	3.782543000	-1.367496000	-0.681475000
1	3.838471000	-2.375015000	-1.061237000	1	3.878531000	-2.398792000	-1.020086000
6	-3.942122000	1.273272000	-0.036159000	6	-3.974392000	1.226656000	-0.110699000
6	-2.811347000	2.124571000	0.062447000	6	-2.848904000	2.085798000	-0.033075000
6	6.199423000	1.355923000	0.264857000	6	6.202412000	1.365211000	0.267067000
1	6.174191000	2.404394000	0.542624000	1	6.181376000	2.412856000	0.550194000
6	4.984201000	-0.657013000	-0.387959000	6	4.990801000	-0.653072000	-0.378884000
6	-3.023468000	3.504188000	0.269082000	6	-3.070960000	3.468268000	0.147511000
1	-2.155826000	4.154312000	0.350642000	1	-2.208059000	4.125589000	0.215179000
6	-1.437685000	1.664225000	-0.005118000	6	-1.471112000	1.637683000	-0.096053000
1	-0.670294000	2.399335000	0.226580000	1	-0.714338000	2.389444000	0.116229000
6	-5.231178000	1.817676000	0.061988000	6	-5.267998000	1.757272000	-0.014400000
1	-6.076836000	1.141733000	-0.014097000	1	-6.112277000	1.076585000	-0.066014000
6	7.396755000	0.652835000	0.175051000	6	7.404269000	0.669241000	0.157192000
1	8.330662000	1.163189000	0.393409000	1	8.337139000	1.186542000	0.363073000
6	-5.407932000	3.184434000	0.249777000	6	-5.455143000	3.127582000	0.147894000
1	-6.414530000	3.588243000	0.316507000	1	-6.464732000	3.523014000	0.215808000
6	-1.297650000	-2.812779000	1.617934000	6	-1.235657000	-2.620712000	1.792931000
1	-0.602155000	-3.327704000	0.972356000	1	-0.501706000	-3.168324000	1.222384000
6	7.410907000	-0.700017000	-0.197478000	6	7.421136000	-0.681849000	-0.219803000
1	8.350515000	-1.238753000	-0.267364000	1	8.362791000	-1.214899000	-0.305000000
6	-2.398975000	-2.208732000	3.442424000	6	-2.381330000	-1.875224000	3.531281000
1	-2.676474000	-2.198282000	4.484762000	1	-2.665369000	-1.768638000	4.566982000
6	-4.301442000	4.037004000	0.356288000	6	-4.354602000	3.990827000	0.230327000
1	-4.439841000	5.103252000	0.505506000	1	-4.501506000	5.058394000	0.361198000
6	6.215216000	-1.342699000	-0.478595000	6	6.224900000	-1.331794000	-0.486540000
1	6.209294000	-2.389484000	-0.771901000	1	6.218635000	-2.377229000	-0.782630000
6	-2.854223000	-1.502800000	2.362385000	6	-2.866691000	-1.313440000	2.381143000
1	-3.631976000	-0.757360000	2.310138000	1	-3.679688000	-0.615116000	2.257796000

cis-[(MoO₂)₂(L^I)(Im)₂]

Gas phase				Acetonitrile phase			
42	-2.805690000	0.466578000	-1.628670000	42	-2.755136000	0.483079000	-1.665429000
42	1.772112000	-1.137983000	0.442825000	42	1.819911000	-1.102874000	0.451182000
8	-0.922900000	1.090079000	-2.006019000	8	-0.889238000	1.153447000	-1.977090000
8	3.673007000	-0.931348000	0.835936000	8	3.716747000	-0.931284000	0.842836000
8	-4.044488000	-0.176577000	-0.265481000	8	-4.055414000	-0.250828000	-0.435200000
8	-3.653497000	1.733509000	-2.382569000	8	-3.612458000	1.714439000	-2.484688000
8	1.036049000	-1.480006000	1.956496000	8	1.082100000	-1.614300000	1.915656000
8	1.815251000	-2.607828000	-0.406850000	8	1.894661000	-2.492265000	-0.544701000
7	0.006579000	-0.374566000	-0.462544000	7	0.031245000	-0.318617000	-0.431603000
7	1.769957000	1.181113000	1.493716000	7	1.773327000	1.061038000	1.586073000
8	-2.866085000	-0.859613000	-2.688542000	8	-2.679104000	-0.842222000	-2.746637000
7	-2.418342000	2.113293000	0.170381000	7	-2.542037000	2.061170000	0.157542000
7	2.327933000	0.245378000	-1.265864000	7	2.370536000	0.321523000	-1.225745000
7	1.328038000	0.936919000	-1.910733000	7	1.357227000	0.999196000	-1.873578000
7	-1.307316000	-0.712288000	-0.253264000	7	-1.288418000	-0.667921000	-0.249796000
7	-1.707980000	3.941268000	1.164691000	7	-1.933605000	3.811355000	1.340135000
1	-1.157220000	4.767098000	1.346628000	1	-1.408870000	4.628357000	1.631145000
6	0.146877000	0.551652000	-1.476706000	6	0.182144000	0.611185000	-1.437146000
7	1.708132000	2.556748000	3.213721000	7	1.349136000	2.491837000	3.203132000
1	1.597375000	2.881803000	4.163217000	1	0.992176000	2.866256000	4.075190000
6	3.530064000	0.422532000	-1.729732000	6	3.569909000	0.516920000	-1.687448000
1	3.616625000	1.052761000	-2.616148000	1	3.666516000	1.163090000	-2.560538000
6	-1.532372000	3.091453000	0.122236000	6	-1.678206000	3.066716000	0.244680000
1	-0.776481000	3.212955000	-0.638480000	1	-0.876484000	3.273555000	-0.446527000
6	1.505947000	1.285561000	2.783840000	6	1.188268000	1.225315000	2.768836000
1	1.177311000	0.472559000	3.413588000	1	0.660024000	0.462002000	3.318165000
6	5.992026000	-1.268818000	0.586452000	6	6.040521000	-1.231112000	0.585758000
1	5.990334000	-1.761846000	1.553250000	1	6.049330000	-1.755244000	1.526554000
6	2.158038000	2.438007000	1.074680000	6	2.334942000	2.284602000	1.261836000
1	2.424785000	2.627970000	0.046128000	1	2.881238000	2.435745000	0.343776000
6	-3.199167000	2.343475000	1.283978000	6	-3.386544000	2.179412000	1.248168000
1	-4.013192000	1.681676000	1.535486000	1	-4.194889000	1.484484000	1.414125000
6	-1.633507000	-1.695146000	0.523889000	6	-1.624457000	-1.643435000	0.533043000
1	-0.851931000	-2.276468000	1.007903000	1	-0.850384000	-2.203950000	1.052060000
6	4.739820000	-0.135335000	-1.174206000	6	4.780417000	-0.049041000	-1.139173000
1	-2.771810000	3.478730000	1.917745000	1	-3.016686000	3.266484000	1.993904000
6	-3.117161000	3.989242000	2.803234000	1	-3.412943000	3.691403000	2.903318000
6	4.773083000	-0.791673000	0.083879000	6	4.819539000	-0.748672000	0.095481000
6	-3.001531000	-2.084043000	0.807894000	6	-2.992025000	-2.061054000	0.779641000
6	-4.139430000	-1.338862000	0.402879000	6	-4.138497000	-1.379714000	0.295949000
6	2.127345000	3.308973000	2.131555000	6	2.076766000	3.185103000	2.260299000
1	2.374388000	4.356084000	2.217488000	1	2.338739000	4.224582000	2.385694000
6	5.947065000	0.021559000	-1.886849000	6	5.987745000	0.147084000	-1.843831000
1	5.919377000	0.528228000	-2.848599000	1	5.955219000	0.690617000	-2.784509000
6	7.164397000	-1.110294000	-0.146109000	6	7.213673000	-1.033996000	-0.139157000
6	-5.422274000	-1.787207000	0.751593000	6	-5.419847000	-1.853983000	0.609971000
1	-6.273132000	-1.195723000	0.428602000	1	-6.279633000	-1.307833000	0.233795000
6	-3.202176000	-3.261307000	1.558944000	6	-3.184599000	-3.214217000	1.571623000
1	-2.329156000	-3.828991000	1.871787000	1	-2.307677000	-3.736509000	1.945648000
6	7.148168000	-0.463012000	-1.389087000	6	7.192716000	-0.343560000	-1.358940000
1	8.064883000	-0.340448000	-1.957446000	1	8.110140000	-0.188701000	-1.918297000
6	-5.587867000	-2.957942000	1.484086000	6	-5.576636000	-2.998685000	1.386985000
6	-4.474443000	-3.702882000	1.893406000	6	-4.455852000	-3.685333000	1.872112000
1	-4.602785000	-4.616708000	2.465312000	1	-4.577413000	-4.577288000	2.478959000
1	-6.590276000	-3.292286000	1.737802000	1	-6.577146000	-3.354183000	1.617299000
1	8.099323000	-1.492202000	0.255023000	1	8.151560000	-1.418056000	0.252421000

trans-[(MoO₂)₂(L¹)(Im)₂]

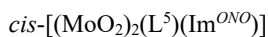
Gas phase				Acetonitrile phase			
							
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8	-0.926138000	1.387186000	1.684317000	8	-0.895170000	1.316319000	1.743260000
8	3.742811000	-0.785678000	-0.904993000	8	3.755465000	-0.825547000	-0.922934000
8	-3.634126000	1.583562000	2.471921000	8	-3.602389000	1.603453000	2.490702000
8	-4.071237000	-0.139007000	0.232430000	8	-4.067471000	-0.130677000	0.262329000
8	1.717724000	0.596515000	-2.267675000	8	1.691214000	0.484643000	-2.244006000
8	1.191010000	-2.003123000	-1.605069000	8	1.202124000	-2.111202000	-1.514951000
8	-2.436332000	-0.872550000	2.383021000	8	-2.478704000	-0.882345000	2.403185000
7	2.305903000	1.071007000	0.562036000	7	2.327314000	1.008957000	0.564645000
7	0.021176000	0.066412000	0.019424000	7	0.030286000	0.005576000	0.059920000
7	-1.2990651000	-0.313991000	-0.172936000	7	-1.289297000	-0.338497000	-0.146825000
7	1.291428000	1.563161000	1.342853000	7	1.321242000	1.478291000	1.382901000
7	1.998098000	-1.823946000	1.121189000	7	2.034212000	-1.844150000	1.138843000
7	-2.767504000	2.340907000	-0.187661000	7	-2.720099000	2.322909000	-0.159394000
7	2.890299000	-3.132043000	2.650505000	7	2.762991000	-2.652876000	3.048068000
1	3.585084000	-3.656441000	3.161796000	1	3.356461000	-2.796593000	3.875308000
6	0.143245000	1.007950000	1.026070000	6	0.169254000	0.932357000	1.069620000
6	4.775859000	0.062709000	-0.758857000	6	4.774609000	0.050358000	-0.828350000
7	-2.290918000	4.222668000	-1.219819000	7	-2.274112000	4.214749000	-1.186527000
1	-1.805550000	5.073974000	-1.463058000	1	-1.801224000	5.077527000	-1.430549000
6	3.119269000	-2.382390000	1.544043000	6	3.004877000	-1.786671000	2.042980000
1	4.085512000	-2.276305000	1.075914000	1	3.870516000	-1.143581000	2.002203000
6	3.473232000	1.610526000	0.738231000	6	3.481808000	1.591691000	0.685437000
1	3.531986000	2.423034000	1.464040000	1	3.553169000	2.418016000	1.393549000
6	-4.121979000	-1.126549000	-0.675634000	6	-4.139748000	-1.060199000	-0.709181000
6	-2.972765000	-1.607664000	-1.354360000	6	-2.994757000	-1.542563000	-1.393156000
6	5.989398000	-0.258620000	-1.382728000	6	5.974541000	-0.254694000	-1.483984000
1	6.030140000	-1.155488000	-1.992835000	1	6.032613000	-1.169860000	-2.065428000
6	4.684274000	1.227210000	0.046793000	6	4.674039000	1.232613000	-0.049563000
6	-3.143435000	-2.605643000	-2.337113000	6	-3.181904000	-2.482606000	-2.429728000
1	-2.262190000	-2.971264000	-2.858510000	1	-2.305744000	-2.848612000	-2.958982000
6	-1.621538000	-1.134883000	-1.116843000	6	-1.633504000	-1.121968000	-1.118302000
1	-0.847257000	-1.538169000	-1.766412000	1	-0.867449000	-1.525129000	-1.776805000
6	-5.384130000	-1.655137000	-0.986982000	6	-5.414505000	-1.522563000	-1.065920000
1	-6.244151000	-1.266257000	-0.450993000	1	-6.274536000	-1.130692000	-0.531354000
7	7.104759000	0.557861000	-1.217138000	7	7.066014000	0.605463000	-1.382589000
1	8.036243000	0.296027000	-1.711702000	1	7.987899000	0.358354000	-1.901867000
6	-5.518106000	-2.646490000	-1.953529000	6	-5.565506000	-2.457659000	-2.086699000
1	-6.504011000	-3.045457000	-2.176623000	1	-6.561010000	-2.805270000	-2.348593000
6	-1.934304000	3.367076000	-0.231166000	6	-1.888800000	3.358382000	-0.218127000
1	-1.089497000	3.516685000	0.423886000	1	-1.025991000	3.515092000	0.410117000
1	1.004934000	-2.234549000	1.991312000	6	1.135903000	-2.794778000	1.593198000
1	-0.022534000	-1.921481000	1.880227000	1	0.243981000	-3.040671000	1.036748000
6	1.544075000	-3.047514000	2.950371000	6	1.578258000	-3.306024000	2.783761000
1	1.106041000	-3.553825000	3.796136000	1	1.173693000	-4.053953000	3.448311000
6	7.033038000	1.706018000	-0.418295000	6	6.984345000	1.775731000	-0.615648000
1	7.904244000	2.340432000	-0.287301000	1	7.838687000	2.440814000	-0.535851000
6	-3.415918000	3.715088000	-1.841119000	6	-3.409693000	3.714939000	-1.783925000
1	-3.894447000	4.216740000	-2.667559000	1	-3.906753000	4.227222000	-2.593270000
6	-4.394209000	-3.126817000	-2.637206000	6	-4.446086000	-2.942027000	-2.775554000
1	-4.497001000	-3.899208000	-3.393149000	1	-4.562526000	-3.668422000	-3.573928000
6	5.835205000	2.026054000	0.206611000	6	5.801544000	2.075550000	0.047678000
1	5.766263000	2.913912000	0.830699000	1	5.723934000	2.974980000	0.653007000
6	-3.698234000	2.547578000	-1.185813000	6	-3.677197000	2.538713000	-1.136318000
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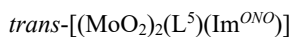
Gas phase				Acetonitrile phase			
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42	1.757804000	0.688079000	0.085099000	42	1.759142000	0.675740000	0.020812000
8	-1.011894000	-2.528644000	-0.248599000	8	-0.989281000	-2.562106000	-0.192907000
8	3.627600000	0.823841000	-0.375776000	8	3.635817000	0.830476000	-0.390094000
8	-3.974066000	-0.366772000	-0.515071000	8	-4.043330000	-0.364770000	-0.442346000
8	-3.630106000	-3.098686000	-0.712313000	8	-3.579329000	-3.064608000	-0.979656000
8	1.105661000	1.928671000	-0.886316000	8	1.108393000	1.978150000	-0.882686000
8	1.649486000	1.143407000	1.716808000	8	1.686237000	1.102939000	1.665521000
7	-0.015334000	-0.450268000	-0.078863000	7	-0.021245000	-0.467263000	-0.102560000
8	-3.096651000	-1.943131000	1.740304000	8	-3.165979000	-2.110438000	1.575030000
7	2.267303000	-1.491402000	-0.108492000	7	2.283524000	-1.500355000	0.009671000
7	1.251450000	-2.420984000	-0.198108000	7	1.264825000	-2.434335000	-0.063944000
7	-1.331923000	-0.047287000	-0.015675000	7	-1.349470000	-0.077737000	-0.047815000
6	0.090291000	-1.824631000	-0.161867000	6	0.105201000	-1.838541000	-0.108324000
3	3.469182000	-2.004929000	-0.081183000	6	3.485578000	-1.998882000	0.113129000
1	3.509984000	-3.093726000	-0.091845000	1	3.553239000	-3.083684000	0.187112000
6	5.984921000	0.802831000	-0.167205000	6	5.990771000	0.815703000	-0.171311000
6	-1.634794000	1.211513000	0.109963000	6	-1.653472000	1.179647000	0.104697000
1	-0.834099000	1.941095000	0.194284000	1	-0.850770000	1.903464000	0.210984000
6	4.710809000	-1.284220000	-0.037768000	6	4.715582000	-1.255534000	0.128948000
6	4.746013000	0.116107000	-0.181726000	6	4.753507000	0.129627000	-0.131714000
6	-2.982108000	1.729362000	0.126175000	6	-2.990188000	1.717219000	-0.143967000
6	-4.097992000	0.926082000	-0.178998000	6	-4.133371000	0.936533000	-0.116201000
6	5.920318000	-2.002310000	0.114211000	6	5.923730000	-1.954705000	0.358860000
1	5.884744000	-3.082575000	0.220008000	1	5.885297000	-3.021906000	0.555114000
6	7.161728000	0.070730000	-0.005005000	6	7.167598000	0.102041000	0.069357000
6	-5.398505000	1.490533000	-0.188670000	6	-5.422479000	1.521016000	-0.077953000
6	-3.168708000	3.100897000	0.414966000	6	-3.138740000	3.093756000	0.432486000
1	-2.302429000	3.715281000	0.642308000	1	-2.252193000	3.689577000	0.627853000
6	7.125907000	-1.326901000	0.134696000	6	7.129299000	-1.276097000	0.335066000
1	8.056443000	-1.871919000	0.257944000	1	8.058812000	-1.806553000	0.517013000
6	-5.554653000	2.843610000	0.113139000	6	-5.540223000	2.881322000	0.217622000
6	-4.440156000	3.643356000	0.412843000	6	-4.400560000	3.660548000	0.469694000
1	-4.586463000	4.694034000	0.643038000	1	-4.518916000	4.715737000	0.695597000
1	-6.543411000	3.287669000	0.116914000	1	-6.519472000	3.344399000	0.252620000
1	8.118026000	0.580693000	0.012110000	1	8.123518000	0.612351000	0.046648000
8	5.905949000	2.147501000	-0.317277000	8	5.916650000	2.139485000	-0.448520000
6	7.112920000	2.896467000	-0.305814000	6	7.135042000	2.885545000	-0.502903000
1	7.643255000	2.786882000	0.649082000	1	7.656645000	2.866862000	0.461146000
1	7.776929000	2.599499000	-1.128076000	1	7.799554000	2.505507000	-1.287985000
1	6.815601000	3.937494000	-0.437969000	1	6.842870000	3.910022000	-0.739228000
8	-6.400377000	0.632345000	-0.498731000	8	-6.454522000	0.682630000	-0.335930000
6	-7.729774000	1.130986000	-0.519899000	6	-7.782012000	1.208400000	-0.253890000
1	-8.030921000	1.512139000	0.464631000	1	-7.991585000	1.602207000	0.747686000
1	-7.848911000	1.924103000	-1.269699000	1	-7.946387000	1.993968000	-1.000835000
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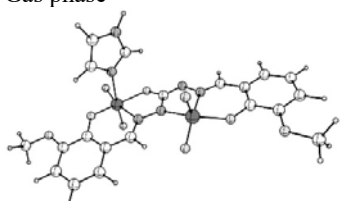
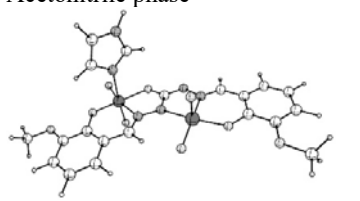
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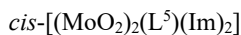
Gas phase				Acetonitrile phase			
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42	-2.835140000	-1.810952000	0.229310000	42	-2.834245000	-1.818262000	0.204569000
8	3.623122000	0.801967000	0.317222000	8	3.634958000	0.833506000	0.296360000
8	-1.017772000	-2.516683000	-0.179901000	8	-0.992131000	-2.559687000	-0.011092000
8	1.117180000	1.917693000	0.831133000	8	1.127309000	1.988887000	0.791100000
8	-3.997032000	-0.410291000	-0.396942000	8	-4.063157000	-0.425743000	-0.286851000
8	1.677403000	1.219388000	-1.796277000	8	1.695129000	1.122217000	-1.766572000
8	5.905340000	2.116970000	0.400796000	8	5.922034000	2.132659000	0.420727000
7	-0.017034000	-0.433789000	-0.056627000	7	-0.025616000	-0.455662000	-0.007112000
8	-6.429962000	0.568878000	-0.344178000	8	-6.475606000	0.614079000	-0.307021000
7	2.265451000	-1.485088000	-0.121714000	7	2.283267000	-1.490080000	-0.112582000
8	-2.973385000	-1.830684000	1.917226000	8	-3.019691000	-1.888866000	1.891668000
7	1.244204000	-2.411804000	-0.149578000	7	1.260919000	-2.422186000	-0.481883000
7	-1.336830000	-0.031282000	-0.011284000	7	-1.357540000	-0.066766000	0.006419000
8	-3.652347000	-3.149428000	-0.411050000	8	-3.622691000	-3.177593000	-0.461830000
6	0.086322000	-1.809961000	-0.126999000	6	0.101894000	-1.826965000	-0.031892000
6	-2.997312000	1.740644000	0.004835000	6	-3.013789000	1.722918000	-0.010200000
6	-1.646548000	1.231063000	-0.020490000	6	-1.671064000	1.196145000	-0.016205000
1	-0.848204000	1.968543000	-0.024235000	1	-0.872723000	1.933484000	-0.022197000
6	5.985282000	0.782508000	0.178382000	6	5.995306000	0.808287000	0.145163000
6	4.744677000	0.101144000	0.118117000	6	4.756430000	0.128154000	0.071896000
6	3.465292000	-2.002895000	-0.152518000	6	3.484991000	-1.993112000	-0.199964000
1	3.501565000	-3.089393000	-0.226688000	1	3.548042000	-3.077308000	-0.285529000
6	4.710030000	-1.288323000	-0.106950000	6	4.718983000	-1.257154000	-0.186255000
6	-3.184329000	3.132418000	0.169906000	6	-3.170195000	3.124787000	0.092146000
1	-2.314683000	3.770161000	0.298437000	1	-2.285851000	3.747558000	0.185404000
6	-4.118065000	0.906063000	-0.169644000	6	-4.155140000	0.907338000	-0.137923000
6	7.164444000	0.055226000	0.011826000	6	7.174529000	0.087819000	-0.062161000
1	8.122343000	0.560670000	0.053654000	1	8.132110000	0.593080000	-0.013426000
6	-5.579697000	2.833429000	0.013694000	6	-5.573300000	2.871013000	-0.048739000
1	-6.571743000	3.269874000	0.024204000	1	-6.555755000	3.328137000	-0.061117000
6	-5.423721000	1.458981000	-0.166810000	6	-5.447980000	1.484795000	-0.165388000
6	-4.460251000	3.664487000	0.180171000	6	-4.436285000	3.683425000	0.080049000
1	-4.606163000	4.731344000	0.317588000	1	-4.559807000	4.758357000	0.167573000
6	5.921496000	-2.002071000	-0.263476000	6	5.928849000	-1.962886000	-0.383725000
1	5.886089000	-3.074239000	-0.432640000	1	5.890336000	-3.030253000	-0.578998000
6	7.128993000	-1.332184000	-0.207685000	6	7.136734000	-1.290159000	-0.328225000
1	8.061408000	-1.873591000	-0.332652000	1	8.068307000	-1.825127000	-0.484526000
6	-7.764626000	1.053759000	-0.341110000	6	-7.799950000	1.146929000	-0.391864000
1	-8.018230000	1.523725000	0.618085000	1	-8.076582000	1.675573000	0.527988000
1	-8.396841000	0.178170000	-0.493872000	1	-8.455066000	0.284771000	-0.526508000
1	-7.933002000	1.771721000	-1.154512000	1	-7.902843000	1.821509000	-1.250076000
6	7.113881000	2.860472000	0.467827000	6	7.146844000	2.855905000	0.567824000
1	7.751797000	2.515634000	1.292066000	1	7.757076000	2.440517000	1.378410000
1	6.815082000	3.893717000	0.648706000	1	6.857217000	3.878003000	0.817433000
1	7.673015000	2.802154000	-0.475094000	1	7.722933000	2.857820000	-0.364999000



Gas phase				Acetonitrile phase			
42	2.689971000	-1.396136000	-0.849360000	42	2.666007000	-1.393141000	-0.844571000
42	-1.960941000	0.829585000	-0.069340000	42	-1.994203000	0.796466000	0.019928000
8	0.837485000	-2.190304000	-1.127260000	8	0.818114000	-2.209544000	-1.053424000
8	-3.799696000	0.703774000	0.522383000	8	-3.859470000	0.727475000	0.507037000
8	3.772744000	-0.057048000	0.045960000	8	3.806064000	-0.060964000	-0.033721000
8	3.553863000	-2.850819000	-0.644542000	8	3.562828000	-2.846799000	-0.775248000
8	-1.224193000	1.531679000	1.300315000	8	-1.300293000	1.631629000	1.347746000
8	-1.970913000	1.962830000	-1.336688000	8	-1.985310000	1.852987000	-1.316369000
7	-0.201871000	-0.204331000	-0.535489000	7	-0.218541000	-0.239438000	-0.397832000
8	2.944256000	-0.887650000	-2.449935000	8	2.785137000	-0.825993000	-2.454961000
7	2.007716000	-1.839253000	1.477749000	7	2.176999000	-1.851502000	1.467710000
7	-2.447641000	-1.258950000	-0.747736000	7	-2.481557000	-1.269105000	-0.722623000
7	-1.426555000	-2.135594000	-1.037912000	7	-1.444397000	-2.142408000	-1.003094000
7	1.090172000	0.258216000	-0.480345000	7	1.074498000	0.232204000	-0.381687000
7	1.865401000	-3.028654000	3.323038000	7	2.046442000	-2.998636000	3.338283000
1	1.975485000	-3.800533000	3.964458000	1	2.094094000	-3.780201000	3.982257000
6	-0.264156000	-1.537531000	-0.916963000	6	-0.288898000	-1.551623000	-0.832909000
6	-3.649502000	-1.734544000	-0.941000000	6	-3.677370000	-1.749675000	-0.929730000
1	-3.690285000	-2.739036000	-1.361213000	1	-3.725749000	-2.752950000	-1.351652000
6	2.313772000	-2.994081000	2.044433000	6	2.330164000	-3.050414000	2.021570000
1	2.852176000	-3.795902000	1.562193000	1	2.648486000	-3.944188000	1.507743000
6	-6.163316000	0.748107000	0.378587000	6	-6.219982000	0.742249000	0.332953000
6	1.335950000	-1.099976000	2.432650000	6	1.778959000	-1.001908000	2.486165000
1	0.969650000	-0.105158000	2.228398000	1	1.590331000	0.046333000	2.312564000
6	1.344214000	1.525330000	-0.368026000	6	1.326047000	1.498552000	-0.259714000
1	0.523957000	2.239495000	-0.368676000	1	0.507683000	2.210984000	-0.199221000
6	-4.893265000	-1.072642000	-0.652242000	6	-4.923109000	-1.086277000	-0.654389000
1	1.237197000	-1.826238000	3.588382000	1	1.693484000	-1.705535000	3.657413000
1	0.792473000	-1.605061000	4.545971000	1	1.424553000	-1.413822000	4.661023000
6	-4.924123000	0.134157000	0.072199000	6	-4.974497000	0.132472000	0.050540000
6	2.677705000	2.077380000	-0.247441000	6	2.659727000	2.063533000	-0.208033000
6	3.824582000	1.275110000	-0.054859000	6	3.831596000	1.281046000	-0.109092000
6	-6.106435000	-1.670776000	-1.065239000	6	-6.126252000	-1.703683000	-1.068711000
1	-6.073685000	-2.603927000	-1.620115000	1	-6.076683000	-2.647067000	-1.604089000
6	-7.344898000	0.143447000	-0.052043000	6	-7.392813000	0.118154000	-0.099820000
6	5.093299000	1.895073000	0.095843000	6	5.098239000	1.915500000	-0.031749000
6	2.809675000	3.484859000	-0.283416000	6	2.765574000	3.473432000	-0.227398000
1	1.920263000	4.092030000	-0.426837000	1	1.857874000	4.065723000	-0.297451000
6	-7.312701000	-1.062836000	-0.771246000	6	-7.341467000	-1.100097000	-0.796040000
1	-8.245916000	-1.513810000	-1.093965000	1	-8.267710000	-1.566092000	-1.117657000
6	5.194375000	3.284307000	0.043167000	6	5.173168000	3.309219000	-0.068873000
6	4.050987000	4.076646000	-0.145842000	6	4.006679000	4.082846000	-0.165362000
1	4.150376000	5.157075000	-0.182724000	1	4.086518000	5.165370000	-0.189646000
1	6.161092000	3.763142000	0.148943000	1	6.136874000	3.802899000	-0.020875000
1	-8.301089000	0.603642000	0.168942000	1	-8.355170000	0.573048000	0.105149000
8	-6.081152000	1.903782000	1.084909000	8	-6.158344000	1.909507000	1.018998000
1	-7.287595000	2.577408000	1.409324000	1	-7.385430000	2.581666000	1.310743000
6	-7.836282000	2.875810000	0.506332000	6	-7.918640000	2.853039000	0.391869000
1	-7.937376000	1.957159000	2.040910000	1	-8.034708000	1.968473000	1.947033000
1	-6.989173000	3.469004000	1.962487000	1	-7.103153000	3.488627000	1.848106000
8	6.133218000	1.040970000	0.282635000	8	6.161812000	1.079613000	0.071366000
6	7.435486000	1.588801000	0.399833000	6	7.463639000	1.659276000	0.170879000
1	7.720171000	2.147547000	-0.501730000	1	7.710381000	2.243511000	-0.723803000
1	7.520265000	2.247328000	1.275038000	1	7.551331000	2.294335000	1.060604000
1	8.105673000	0.736583000	0.522993000	1	8.154745000	0.818822000	0.255715000



Gas phase				Acetonitrile phase			
							
42	-2.015920000	0.795515000	0.186640000	42	-2.063999000	0.761281000	0.214553000
42	2.655146000	-1.318775000	-1.024675000	42	2.603673000	-1.354843000	-1.014853000
8	-3.915590000	0.990263000	-0.132655000	8	-3.945728000	0.988104000	-0.161748000
8	0.795894000	-2.123713000	-1.093273000	8	0.776851000	-2.196625000	-0.914586000
8	-1.499498000	2.330122000	-0.353364000	8	-1.497507000	2.336510000	-0.168382000
8	3.817364000	-0.067142000	-0.101341000	8	3.844655000	-0.053881000	-0.328723000
8	-1.836948000	0.693914000	1.873615000	8	-2.013135000	0.577662000	1.905638000
8	-6.223482000	2.163697000	0.354802000	8	-6.264693000	2.174674000	0.229318000
7	-0.237825000	-0.141566000	-0.441294000	7	-0.251368000	-0.195253000	-0.311541000
8	6.184891000	1.022785000	0.019347000	8	6.186584000	1.098194000	-0.342011000
7	-2.492113000	-1.245353000	-0.626369000	7	-2.528796000	-1.297150000	-0.551221000
8	2.683041000	-0.628765000	-2.577808000	8	2.431008000	-0.735102000	-2.601906000
7	-1.453705000	-2.084566000	-0.960015000	7	-1.473128000	-2.139575000	-0.841597000
7	1.066797000	0.309358000	-0.379145000	7	1.057345000	0.257606000	-0.287418000
8	3.562161000	-2.752152000	-1.113415000	8	3.540017000	-2.776422000	-1.162593000
7	2.235320000	-1.938542000	1.315005000	7	2.444999000	-1.843113000	1.343890000
6	-0.301036000	-1.468194000	-0.841391000	6	-0.327542000	-1.523769000	-0.697744000
6	2.694184000	2.074190000	-0.018133000	6	2.682092000	2.036723000	0.045676000
6	1.346894000	1.537091000	-0.084610000	6	1.343770000	1.473899000	0.047205000
1	0.538947000	2.241282000	0.100886000	1	0.544448000	2.157732000	0.321883000
6	-6.267543000	0.839207000	0.066814000	6	-6.301852000	0.841011000	-0.009402000
6	-5.010961000	0.227869000	-0.171722000	6	-5.045174000	0.217348000	-0.200232000
6	-3.679443000	-1.780341000	-0.741783000	6	-3.713842000	-1.829444000	-0.675080000
1	-3.690635000	-2.820916000	-1.065418000	1	-3.743217000	-2.879652000	-0.963435000
6	-4.939911000	-1.143821000	-0.479519000	6	-4.970252000	-1.166409000	-0.456613000
6	2.824504000	3.475812000	0.113391000	6	2.791349000	3.427744000	0.273557000
1	1.925592000	4.085162000	0.140538000	1	1.885250000	4.004065000	0.435997000
6	3.854513000	1.271531000	-0.049290000	6	3.854880000	1.279602000	-0.161597000
1	-7.424433000	0.063731000	-0.011425000	6	-7.460281000	0.063417000	-0.079890000
1	-8.393264000	0.516112000	0.166673000	1	-8.430604000	0.524792000	0.062285000
6	5.230644000	3.269023000	0.155388000	6	5.197639000	3.294381000	0.068380000
1	6.203773000	3.742382000	0.218773000	1	6.161168000	3.790679000	0.078268000
6	5.132435000	1.882773000	0.043691000	6	5.122264000	1.916607000	-0.144869000
6	4.074176000	4.062673000	0.190628000	6	4.031287000	4.044189000	0.278332000
1	4.168634000	5.140572000	0.279483000	1	4.109110000	5.114116000	0.445875000
6	-6.129624000	-1.905430000	-0.558687000	6	-6.159765000	-1.928642000	-0.529207000
1	-6.065995000	-2.962037000	-0.802306000	1	-6.091535000	-2.993215000	-0.732109000
7	1.494292000	-3.027785000	3.075429000	7	1.895721000	-2.774050000	3.257688000
1	0.939409000	-3.657184000	3.637011000	1	1.406451000	-3.355440000	3.928961000
6	-7.351744000	-1.304595000	-0.323765000	6	-7.385036000	-1.314819000	-0.338165000
1	-8.267137000	-1.885396000	-0.380062000	1	-8.301425000	-1.894701000	-0.388357000
6	2.950365000	-1.529942000	2.422572000	6	3.283598000	-1.358970000	2.333802000
1	3.737688000	-0.798043000	2.333436000	1	4.061387000	-0.644471000	2.113901000
6	2.500762000	-2.196814000	3.529504000	6	2.950535000	-1.931652000	3.531659000
1	2.792405000	-2.158769000	4.567336000	1	3.353201000	-1.819904000	4.526652000
6	1.368408000	-2.842808000	1.738545000	6	1.620811000	-2.698987000	1.939476000
6	7.493860000	1.566647000	0.054063000	6	7.489926000	1.682624000	-0.343192000
1	7.677221000	2.229403000	-0.802047000	1	7.595618000	2.419994000	-1.148052000
1	8.171204000	0.712857000	0.001390000	1	8.182587000	0.856844000	-0.515171000
6	7.677784000	2.119958000	0.985171000	1	7.716975000	2.154386000	0.620377000
1	-7.448431000	2.837698000	0.600020000	6	-7.505198000	2.852084000	0.443753000
1	-8.109403000	2.801392000	-0.275988000	1	-8.152641000	2.786279000	-0.438693000
1	-7.179240000	3.874185000	0.807627000	1	-7.243442000	3.895885000	0.625166000
1	-7.972025000	2.416160000	1.468235000	1	-8.031643000	2.450808000	1.317927000
1	0.659765000	-3.370902000	1.118439000	1	0.838908000	-3.264383000	1.457404000

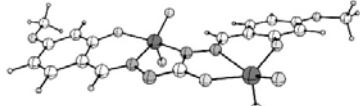
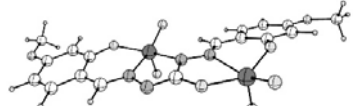


Gas phase				Acetonitrile phase			
42	-2.874264000	0.848798000	-1.490620000	42	-2.837424000	0.910961000	-1.467654000
42	1.822113000	-0.973144000	0.079077000	42	1.868247000	-0.943599000	0.074516000
8	-1.016882000	1.565441000	-1.852116000	8	-0.992968000	1.646508000	-1.789070000
8	3.724638000	-0.767516000	0.439702000	8	3.766241000	-0.781917000	0.430047000
8	-4.011051000	-0.054303000	-0.194248000	8	-4.031001000	-0.058750000	-0.301409000
8	-3.770701000	2.215918000	-1.959432000	8	-3.748211000	2.270125000	-1.966002000
8	1.139768000	-1.591674000	1.528463000	8	1.204369000	-1.781446000	1.419442000
8	1.873813000	-2.269938000	-1.016937000	8	1.942202000	-2.083912000	-1.200130000
7	0.006442000	-0.119514000	-0.625068000	7	0.024398000	-0.050184000	-0.567310000
7	1.813900000	1.126160000	1.534099000	7	1.795826000	0.927561000	1.636450000
8	-2.984225000	-0.269503000	-2.765352000	8	-2.856207000	-0.186046000	-2.782370000
7	-2.395116000	2.140029000	0.554174000	7	-2.447202000	2.107900000	0.598460000
7	2.278462000	0.706129000	-1.375832000	7	2.314482000	0.815220000	-1.290732000
7	1.239876000	1.472103000	-1.852769000	7	1.259303000	1.568788000	-1.762564000
7	-1.288986000	-0.528680000	-0.435254000	7	-1.276608000	-0.469281000	-0.408693000
7	-1.600852000	3.713354000	1.868214000	7	-1.745459000	3.628287000	2.022519000
6	-1.018947000	4.471657000	2.191716000	1	-1.240371000	4.425168000	2.393387000
6	0.084280000	0.976933000	-1.460621000	6	0.111112000	1.057584000	-1.382367000
7	1.825122000	2.154449000	3.482867000	7	1.317936000	2.009049000	3.491407000
1	1.758022000	2.293495000	4.480629000	1	0.939571000	2.199908000	4.412197000
6	3.458783000	0.998248000	-1.837350000	6	3.491504000	1.142098000	-1.734882000
1	3.498723000	1.779569000	-2.597575000	1	3.541054000	1.956899000	-2.457890000
6	-1.496722000	3.101586000	0.662221000	6	-1.664256000	3.169926000	0.756257000
1	-0.778387000	3.374713000	-0.095477000	1	-1.036795000	3.612136000	-0.001885000
6	1.602566000	0.985410000	2.830099000	6	1.171200000	0.855531000	2.807899000
1	1.300434000	0.066159000	3.308931000	1	0.622344000	0.002576000	3.175005000
6	6.039188000	-1.029267000	0.049449000	6	6.080946000	-1.009609000	0.011405000
6	2.188052000	2.440974000	1.343185000	6	2.371012000	2.185648000	1.582936000
1	2.416085000	2.820805000	0.358730000	1	2.949609000	2.510405000	0.731902000
6	-3.110698000	2.133723000	1.733445000	6	-3.058224000	1.890510000	1.821211000
1	-3.921717000	1.437827000	1.882352000	1	-3.760724000	1.084503000	1.965692000
6	-1.562170000	-1.649745000	0.151603000	6	-1.558548000	-1.591535000	0.172758000
1	-0.749878000	-2.292071000	0.484034000	1	-0.752484000	-2.225330000	0.534859000
6	4.702567000	0.381583000	-1.436676000	6	4.736686000	0.506722000	-1.365021000
6	-2.629403000	3.107253000	2.566564000	6	-2.628094000	2.831251000	2.718176000
1	-2.917591000	3.421594000	3.557591000	1	-2.862126000	3.003451000	3.757538000
6	4.785047000	-0.479660000	-0.321247000	6	4.827749000	-0.432530000	-0.314610000
6	-2.909918000	-2.123758000	0.409639000	6	-2.906028000	-2.091255000	0.380943000
6	-4.061036000	-1.329159000	0.218122000	6	-4.069845000	-1.334473000	0.126613000
6	2.202604000	3.098658000	2.545016000	6	2.080647000	2.870105000	2.732530000
1	2.458303000	4.111607000	2.816256000	1	2.341523000	3.860349000	3.073354000
6	5.874382000	0.691613000	-2.164251000	6	5.904158000	0.869516000	-2.075139000
1	5.800752000	1.357284000	-3.019787000	1	5.824131000	1.596219000	-2.878422000
6	7.176496000	-0.716576000	-0.694564000	6	7.216006000	-0.640693000	-0.714096000
6	-5.339929000	-1.863838000	0.523989000	6	-5.349009000	-1.897609000	0.368856000
6	-3.052905000	-3.439564000	0.905987000	6	-3.036338000	-3.406786000	0.882238000
1	-2.161418000	-4.042953000	1.052916000	1	-2.136817000	-3.982540000	1.080536000
6	7.090974000	0.144443000	-1.800141000	6	7.123420000	0.297442000	-1.753672000
1	7.987877000	0.375512000	-2.366664000	1	8.018602000	0.570748000	-2.304071000
6	-5.451420000	-3.169446000	0.999905000	6	-5.446807000	-3.204372000	0.851132000
6	-4.304361000	-3.954875000	1.189946000	6	-4.288747000	-3.952946000	1.107593000
1	-4.407458000	-4.970066000	1.561056000	1	-4.382964000	-4.966817000	1.484745000
1	-6.426302000	-3.585948000	1.226319000	1	-6.419730000	-3.646662000	1.031906000
8	8.137522000	-1.137346000	-0.421670000	1	8.178858000	-1.076887000	-0.474418000
8	-6.383091000	-1.014080000	0.319428000	8	-6.402432000	-1.084456000	0.099406000
6	-7.694665000	-1.502321000	0.541006000	6	-7.718129000	-1.601981000	0.299997000
1	-7.918847000	-2.362661000	-0.103652000	1	-7.905655000	-2.474710000	-0.337057000
1	-7.849398000	-1.788692000	1.590553000	1	-7.887199000	-1.870350000	1.350034000
1	-8.364913000	-0.678653000	0.289459000	1	-8.398098000	-0.795478000	0.019739000
8	6.015024000	-1.841005000	1.140725000	8	6.063059000	-1.901264000	1.035073000
6	7.226013000	-2.462424000	1.536110000	6	7.285331000	-2.557860000	1.373693000
1	7.629373000	-3.102509000	0.740100000	1	7.676780000	-3.134469000	0.526983000
1	7.985678000	-1.722633000	1.823618000	1	8.043586000	-1.841596000	1.712369000
1	6.975814000	-3.077844000	2.401843000	1	7.038740000	-3.236935000	2.191950000

trans-[(MoO₂)₂(L⁵)(Im)₂]

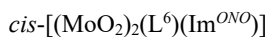
Gas phase				Acetonitrile phase			
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42	2.806676000	1.007015000	1.280918000	42	2.773719000	1.031832000	1.281120000
8	-3.795950000	-0.646174000	-0.600031000	8	-3.807710000	-0.662406000	-0.589833000
8	0.995702000	1.884375000	1.413878000	8	0.985954000	1.940900000	1.350885000
8	-1.333302000	-2.014841000	-1.177911000	8	-1.329511000	-2.036809000	-1.141961000
8	4.042825000	0.046535000	0.133743000	8	4.040348000	-0.008459000	0.271206000
8	-1.764277000	0.503224000	-2.163519000	8	-1.799773000	0.462351000	-2.153423000
8	-6.116488000	-1.487500000	-1.471296000	8	-6.127442000	-1.511076000	-1.470024000
7	-0.034176000	0.262503000	0.105333000	7	-0.040918000	0.276683000	0.092778000
8	6.375104000	-1.044103000	-0.263043000	8	6.369745000	-1.120302000	-0.099468000
7	-2.304106000	1.336945000	0.603552000	7	-2.321244000	1.351796000	0.569896000
8	2.599956000	-0.144623000	2.519275000	8	2.472123000	-0.077760000	2.551381000
7	-1.955723000	-1.492086000	1.505575000	7	-1.970334000	-1.467796000	1.513035000
7	-1.243520000	1.969013000	1.211750000	7	-1.255088000	2.003990000	1.156037000
7	1.259447000	-0.192909000	-0.029327000	7	1.258199000	-0.169998000	-0.038740000
8	3.750899000	2.259513000	1.936296000	8	3.725272000	2.278783000	1.963183000
7	-1.814340000	-1.960426000	3.651124000	7	-2.275673000	-1.914422000	3.645678000
1	-1.660164000	-1.830421000	4.640536000	1	-2.510974000	-1.781193000	4.622742000
7	2.716845000	2.374889000	-0.758114000	7	2.819948000	2.312418000	-0.776409000
6	-0.103649000	1.375303000	0.914489000	6	-0.119357000	1.408617000	0.871890000
6	2.864636000	-1.793588000	-0.907148000	6	2.874479000	-1.756599000	-0.932035000
1	1.532096000	-1.243237000	-0.732477000	6	1.542790000	-1.202209000	-0.765375000
1	0.718840000	-1.782002000	-1.215381000	1	0.740794000	-1.727409000	-1.279395000
6	-1.762212000	-0.984771000	2.711638000	6	-2.355957000	-0.971573000	2.684158000
1	-1.572616000	0.054493000	2.937589000	1	-2.685794000	0.038685000	2.868573000
6	-6.114266000	-0.288289000	-0.830392000	6	-6.123258000	-0.295955000	-0.864885000
6	-4.842692000	0.153097000	-0.380920000	6	-4.857317000	0.153706000	-0.411632000
6	-2.136803000	-2.850319000	1.678513000	6	-1.628063000	-2.789679000	1.750120000
1	-2.302914000	-3.498756000	0.832210000	1	-1.279808000	-3.428702000	0.953499000
6	-3.469012000	1.876888000	0.802457000	6	-3.484054000	1.909279000	0.735231000
1	-3.483762000	2.788040000	1.402496000	1	-3.510959000	2.842149000	1.299033000
6	-4.731481000	1.384121000	0.300289000	6	-4.742147000	1.404736000	0.232408000
6	2.966501000	-3.031916000	-1.581598000	6	2.982039000	-2.954258000	-1.675499000
1	2.055938000	-3.517659000	-1.920952000	1	2.078561000	-3.401365000	-2.079779000
6	-2.051577000	-3.160453000	3.008411000	6	-1.813912000	-3.079859000	3.074823000
1	-2.130666000	-4.094447000	3.542267000	1	-1.665506000	-3.981732000	3.648707000
6	4.040451000	-1.150616000	-0.465468000	6	4.044832000	-1.167180000	-0.408538000
6	-7.241334000	0.499007000	-0.595729000	6	-7.247871000	0.508618000	-0.667192000
1	-8.215858000	0.169215000	-0.937113000	1	-8.220887000	0.176064000	-1.009888000
6	5.371255000	-2.983254000	-1.362511000	6	5.379964000	-2.965688000	-1.359085000
1	6.331946000	-3.452185000	-1.542303000	1	6.338819000	-3.441522000	-1.529451000
6	5.302467000	-1.754802000	-0.706987000	6	5.306644000	-1.776519000	-0.631276000
6	4.199511000	-3.619612000	-1.798735000	6	4.215860000	-3.549161000	-1.879745000
1	4.268839000	-4.575090000	-2.309886000	1	4.290625000	-4.472561000	-2.446086000
6	-5.892384000	2.157313000	0.530044000	6	-5.898920000	2.193848000	0.426169000
1	-5.797342000	3.101835000	1.058721000	1	-5.801005000	3.152122000	0.928050000
7	2.147799000	3.913332000	-2.222720000	7	2.436846000	3.858364000	-2.291677000
1	1.618060000	4.649020000	-2.666638000	1	1.998667000	4.639729000	-2.766466000
6	-7.127027000	1.721286000	0.084710000	6	-7.131423000	1.749499000	-0.022464000
1	-8.015757000	2.320276000	0.258632000	1	-8.018962000	2.357662000	0.123466000
6	3.633267000	2.365233000	-1.790215000	6	3.770042000	2.203118000	-1.777573000
1	4.467168000	1.680732000	-1.782408000	1	4.547240000	1.455647000	-1.738900000
6	3.293540000	3.316496000	-2.713205000	6	3.541399000	3.161192000	-2.728423000
1	3.744741000	3.615804000	-3.646217000	1	4.047746000	3.404401000	-3.649974000
6	1.836315000	3.318375000	-1.044606000	6	2.031848000	3.325545000	-1.120145000
6	7.665087000	-1.602065000	-0.442610000	6	7.668864000	-1.681590000	-0.291040000
1	7.764966000	-2.563898000	0.078188000	1	7.746675000	-2.676196000	0.164714000
1	8.362925000	-0.883312000	-0.009818000	1	8.361153000	-0.999744000	0.206136000
7	7.901047000	-1.742904000	-1.506460000	7	7.923466000	-1.745275000	-1.355922000
6	-7.351130000	-1.978506000	-1.964641000	6	-7.373046000	-2.016691000	-1.952078000
1	-8.073507000	-2.144880000	-1.153859000	1	-8.091597000	-2.155102000	-1.135117000
1	-7.121592000	-2.931264000	-2.444522000	1	-7.144801000	-2.985423000	-2.400177000
1	-7.790285000	-1.295753000	-2.704425000	1	-7.805303000	-1.356377000	-2.713527000
1	0.989183000	3.593625000	-0.434953000	1	1.185774000	3.688259000	-0.557922000

cis-[(MoO₂)₂(L⁶)]

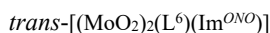
Gas phase				Acetonitrile phase			
							
42	2.777737000	2.086801000	0.034977000	42	2.777629000	2.066684000	-0.016731000
42	-1.608315000	-0.742541000	0.051021000	42	-1.617073000	-0.734185000	0.035181000
8	0.896546000	2.677992000	-0.228438000	8	0.891526000	2.695961000	-0.194820000
8	-3.480923000	-1.038046000	-0.379106000	8	-3.489855000	-1.049577000	-0.351095000
8	4.039171000	0.723728000	-0.524354000	8	4.062365000	0.729882000	-0.555414000
8	3.450026000	3.390181000	-0.814656000	8	3.475421000	3.455965000	-0.723833000
8	-0.878049000	-1.891168000	-0.977519000	8	-0.892082000	-2.000362000	-0.865684000
8	-1.437639000	-1.257013000	1.660908000	8	-1.486896000	-1.132968000	1.684804000
7	0.061053000	0.530361000	-0.087205000	7	0.064754000	0.529850000	-0.140471000
8	-8.242772000	-1.212753000	-0.021753000	8	-8.248592000	-1.211338000	-0.055016000
8	3.065788000	2.286313000	1.692070000	8	3.028565000	2.159032000	1.660067000
7	-2.291848000	1.378686000	-0.087746000	7	-2.301889000	1.383524000	-0.037211000
8	7.053634000	-2.944037000	-0.008103000	8	7.077147000	-2.918718000	0.055281000
7	-1.354916000	2.394977000	-0.164570000	7	-1.354310000	2.396925000	-0.103631000
7	1.409796000	0.229782000	-0.040724000	7	1.417464000	0.228799000	-0.093773000
6	-0.152711000	1.892888000	-0.145953000	6	-0.155215000	1.890779000	-0.135011000
6	-3.533697000	1.795580000	-0.041590000	6	-3.544408000	1.798306000	0.022056000
1	-3.656436000	2.878334000	-0.023723000	1	-3.686193000	2.877640000	0.065288000
6	-5.819180000	-1.190583000	-0.196673000	6	-5.826941000	-1.193070000	-0.193318000
1	-5.723026000	-2.259364000	-0.338024000	1	-5.739712000	-2.260371000	-0.353927000
6	1.802825000	-1.008548000	0.084207000	6	1.818330000	-1.007695000	0.032000000
1	1.051702000	-1.786949000	0.185185000	1	1.076319000	-1.794302000	0.136530000
6	-4.707115000	0.983970000	-0.016652000	6	-4.711459000	0.979119000	0.031073000
6	-4.651916000	-0.420651000	-0.185407000	6	-4.662395000	-0.424393000	-0.158607000
6	3.171362000	-1.435060000	0.078409000	6	3.188019000	-1.428899000	0.038347000
6	4.247242000	-0.566846000	-0.223938000	6	4.271395000	-0.565278000	-0.248709000
6	-8.254334000	-2.628171000	-0.185334000	6	-8.261322000	-2.630305000	-0.261964000
1	-7.701074000	-3.125444000	0.620379000	1	-7.730361000	-3.150713000	0.542564000
1	-9.303973000	-2.921239000	-0.142029000	1	-9.313501000	-2.918300000	-0.252193000
1	-7.832107000	-2.919200000	-1.154703000	1	-7.818404000	-2.889976000	-1.229733000
6	-5.979719000	1.587222000	0.134937000	6	-5.985503000	1.583054000	0.182587000
1	-6.034615000	2.665521000	0.258835000	1	-6.037176000	2.659043000	0.322959000
6	-7.058324000	-0.563321000	-0.031666000	6	-7.068755000	-0.564433000	-0.032723000
6	5.562658000	-1.042195000	-0.268201000	6	5.587968000	-1.029451000	-0.264191000
1	6.346764000	-0.337489000	-0.513491000	1	6.380459000	-0.329542000	-0.497999000
6	3.467765000	-2.796220000	0.332731000	6	3.482834000	-2.788609000	0.307491000
1	2.648681000	-3.474020000	0.558444000	1	2.660289000	-3.465439000	0.521276000
6	-7.135369000	0.838389000	0.134812000	6	-7.142108000	0.835891000	0.159157000
1	-8.111755000	1.293658000	0.256897000	1	-8.116406000	1.297777000	0.278440000
6	5.820590000	-2.389173000	0.000653000	6	5.845161000	-2.375288000	0.025689000
6	8.175148000	-2.118982000	-0.308366000	6	8.208902000	-2.087776000	-0.233887000
1	8.279912000	-1.308955000	0.423510000	1	8.285299000	-1.262714000	0.482794000
1	9.045987000	-2.773615000	-0.255113000	1	9.080974000	-2.736064000	-0.138170000
1	8.097167000	-1.693931000	-1.316414000	1	8.155315000	-1.691221000	-1.253723000
6	4.760071000	-3.271999000	0.303527000	6	4.778082000	-3.258545000	0.310321000
1	4.990422000	-4.312231000	0.504685000	1	5.001315000	-4.297897000	0.526403000

trans-[(MoO₂)₂(L⁶)]

Gas phase				Acetonitrile phase			
42	-1.510379000	-0.842275000	-0.115252000	42	-1.528423000	-0.805811000	0.030366000
42	2.702921000	2.251645000	0.132073000	42	2.726017000	2.222557000	0.083818000
8	-3.353973000	-1.204151000	0.365150000	8	-3.359799000	-1.147407000	0.549998000
8	0.806165000	2.716633000	-0.245478000	8	0.800086000	2.750396000	-0.010649000
8	-0.713888000	-1.893867000	0.967459000	8	-0.688617000	-1.882260000	1.068719000
8	4.067259000	1.001262000	-0.429966000	8	4.081786000	1.000372000	-0.556224000
8	-1.331909000	-1.435454000	-1.696417000	8	-1.440424000	-1.422556000	-1.554261000
7	0.092864000	0.524972000	-0.070992000	7	0.087992000	0.548857000	-0.042237000
7	-2.307623000	1.247919000	-0.110548000	7	-2.321675000	1.281919000	-0.041636000
8	2.866937000	2.387951000	1.812164000	8	3.015786000	2.255712000	1.756244000
7	-1.423551000	2.309886000	-0.175682000	7	-1.426272000	2.341314000	-0.032500000
7	1.458357000	0.301976000	-0.048378000	7	1.456318000	0.324632000	-0.078699000
8	3.328197000	3.644143000	-0.604124000	8	3.319954000	3.680714000	-0.576822000
6	-0.196200000	1.871904000	-0.162020000	6	-0.202960000	1.894295000	-0.027926000
6	3.320679000	-1.252041000	-0.032214000	6	3.311230000	-1.244578000	-0.136380000
6	1.925707000	-0.914425000	-0.035401000	6	1.921011000	-0.895172000	-0.106038000
1	1.223105000	-1.742917000	-0.003787000	1	1.219789000	-1.724174000	-0.071274000
6	-5.689095000	-1.474578000	0.289821000	6	-5.681594000	-1.458606000	0.328285000
6	-4.565611000	-0.661965000	0.190547000	6	-4.567732000	-0.634882000	0.247134000
6	-3.569246000	1.598977000	-0.139461000	6	-3.582120000	1.622976000	-0.146539000
1	-3.748814000	2.669030000	-0.242129000	1	-3.783073000	2.686045000	-0.276310000
6	-4.699975000	0.730872000	-0.055109000	6	-4.699328000	0.736182000	-0.100984000
6	3.692439000	-2.602597000	0.120647000	6	3.671041000	-2.599843000	0.027218000
1	2.910524000	-3.345497000	0.255258000	1	2.881399000	-3.333363000	0.165720000
6	4.352512000	-0.293437000	-0.216117000	6	4.355208000	-0.302164000	-0.331272000
6	-6.969088000	-0.921338000	0.143004000	6	-6.958026000	-0.937877000	0.052425000
6	6.025765000	-2.035499000	-0.063223000	6	6.011931000	-2.055565000	-0.145443000
6	5.686776000	-0.687146000	-0.235120000	6	5.684392000	-0.704163000	-0.343733000
6	5.018261000	-3.004599000	0.114911000	6	4.992607000	-3.013510000	0.033943000
1	5.262877000	-4.051266000	0.245523000	1	5.228149000	-4.060613000	0.178101000
6	-6.000059000	1.259116000	-0.188008000	6	-5.995572000	1.233290000	-0.357134000
1	-6.114240000	2.324363000	-0.371195000	1	-6.107520000	2.281981000	-0.617894000
6	-7.127175000	0.459200000	-0.097465000	6	-7.114940000	0.421051000	-0.294083000
1	-8.109883000	0.899509000	-0.210157000	1	-8.093404000	0.833013000	-0.506786000
1	-5.578898000	-2.534973000	0.484697000	1	-5.572738000	-2.500997000	0.607929000
1	6.466076000	0.050855000	-0.385712000	1	6.471895000	0.025034000	-0.500213000
8	7.351209000	-2.308839000	-0.088863000	8	7.329617000	-2.337154000	-0.146777000
6	7.780174000	-3.654133000	0.088586000	6	7.751663000	-3.685936000	0.091023000
1	7.472498000	-4.045926000	1.065896000	1	7.416624000	-4.036585000	1.073471000
1	7.394382000	-4.305330000	-0.705461000	1	7.383942000	-4.360291000	-0.690078000
1	8.869362000	-3.625299000	0.036144000	1	8.842207000	-3.658745000	0.066576000
8	-7.993481000	-1.796974000	0.252935000	8	-7.972547000	-1.817409000	0.151110000
6	-9.328211000	-1.319623000	0.117190000	6	-9.310728000	-1.366847000	-0.097759000
1	-9.568566000	-0.580724000	0.891278000	1	-9.600588000	-0.583648000	0.610894000
1	-9.496216000	-0.881535000	-0.874147000	1	-9.418968000	-1.000272000	-1.124248000
1	-9.967317000	-2.194855000	0.240234000	1	-9.944436000	-2.242954000	0.046721000



Gas phase				Acetonitrile phase			
42	2.642370000	-1.622496000	-0.897701000	42	2.628156000	-1.626351000	-0.872070000
42	-1.816285000	0.904091000	-0.020654000	42	-1.856687000	0.868253000	0.057041000
8	0.746949000	-2.275825000	-1.174932000	8	0.735626000	-2.285552000	-1.123340000
8	-3.667620000	0.925608000	0.586576000	8	-3.699794000	0.859889000	0.674866000
8	3.852079000	-0.396310000	0.023241000	8	3.875252000	-0.412592000	-0.007330000
8	3.404849000	-3.138774000	-0.731816000	8	3.390364000	-3.155758000	-0.808199000
8	-1.027935000	1.523099000	1.361988000	8	-1.056408000	1.653879000	1.354033000
8	-1.756703000	2.068095000	-1.259589000	8	-1.899246000	1.947887000	-1.260506000
7	-0.145781000	-0.239168000	-0.519031000	7	-0.154129000	-0.250844000	-0.443046000
8	-8.437864000	1.174549000	0.373184000	8	-8.452629000	1.185031000	0.309878000
8	2.937855000	-1.090341000	-2.483281000	8	2.850352000	-1.042976000	-2.465476000
7	1.962273000	-2.074324000	1.433773000	7	2.068821000	-2.064571000	1.431837000
7	-2.460865000	-1.118000000	-0.724526000	7	-2.485613000	-1.123788000	-0.723996000
8	6.716960000	3.411449000	0.296233000	8	6.736792000	3.401546000	0.148704000
7	-1.508730000	-2.063922000	-1.052853000	7	-1.516086000	-2.061921000	-1.043852000
7	1.180656000	0.124083000	-0.461602000	7	1.176551000	0.110401000	-0.405375000
7	1.747925000	-3.297448000	3.250124000	7	1.733589000	-3.213347000	3.275811000
1	1.807204000	-4.091231000	3.871209000	1	1.648907000	-4.004754000	3.903753000
6	-0.308877000	-1.553844000	-0.934120000	6	-0.323439000	-1.551681000	-0.885424000
6	-3.698349000	-1.504925000	-0.909844000	6	-3.718992000	-1.500525000	-0.951832000
1	-3.812070000	-2.493407000	-1.354680000	1	-3.844945000	-2.469459000	-1.434384000
6	2.193903000	-3.260269000	1.970575000	6	2.030550000	-3.282604000	1.652439000
1	2.676023000	-4.083898000	1.465993000	1	2.221338000	-4.204827000	1.435623000
6	-6.010728000	1.109245000	0.504218000	6	-6.036707000	1.078265000	0.522710000
1	-5.921242000	2.021383000	1.080176000	1	-5.963519000	1.959143000	1.148147000
6	1.341744000	-1.317255000	2.409163000	6	1.784069000	-1.183775000	2.461432000
1	1.038610000	-0.296700000	2.229706000	1	1.758463000	-0.116166000	2.305957000
6	1.529626000	1.368491000	-0.321074000	6	1.532195000	1.353803000	-0.274272000
1	0.762796000	2.139896000	-0.303971000	1	0.772450000	2.130972000	-0.233915000
6	-4.881469000	-0.771772000	-0.583436000	6	-4.896842000	-0.763278000	-0.624445000
6	1.199160000	-2.063969000	3.547266000	6	1.572165000	-1.887791000	3.616472000
1	0.771677000	-1.838640000	4.511734000	1	1.331744000	-1.577755000	4.621837000
6	-4.835936000	0.431813000	0.159776000	6	-4.863956000	0.401474000	0.181237000
6	2.892904000	1.812514000	-0.187379000	6	2.900724000	1.795996000	-0.182606000
6	3.996162000	0.933361000	-0.025056000	6	4.015246000	0.924317000	-0.060288000
6	-8.454541000	2.396904000	1.102628000	6	-8.482220000	2.373552000	1.110146000
1	-7.910881000	3.186034000	0.569056000	1	-7.912808000	3.180848000	0.636497000
1	-9.505851000	2.674195000	1.190869000	1	-9.533782000	2.656904000	1.174291000
1	-8.024511000	2.269451000	2.103709000	1	-8.090758000	2.182157000	2.115374000
6	-6.150237000	-1.273010000	-0.960835000	6	-6.159438000	-1.231177000	-1.065857000
1	-6.197883000	-2.200094000	-1.526114000	1	-6.197025000	-2.130190000	-1.674670000
6	-7.246323000	0.593922000	0.100902000	6	-7.266773000	0.601098000	0.050502000
6	5.289655000	1.447207000	0.147441000	6	5.312728000	1.436194000	0.060834000
1	6.096249000	0.736074000	0.272171000	1	6.132024000	0.734683000	0.158872000
6	3.146055000	3.204482000	-0.165942000	6	3.150896000	3.189901000	-0.171391000
1	2.306598000	3.885340000	-0.282994000	1	2.305595000	3.867724000	-0.255998000
6	-7.313496000	-0.609253000	-0.636114000	6	-7.322908000	-0.565689000	-0.747523000
1	-8.287153000	-0.984679000	-0.930570000	1	-8.288894000	-0.917562000	-1.093961000
6	5.502437000	2.826898000	0.148345000	6	5.522772000	2.819375000	0.051190000
6	7.860925000	2.579532000	0.443605000	6	7.896298000	2.567781000	0.249789000
1	7.999583000	1.932918000	-0.431642000	1	7.995187000	1.919576000	-0.628131000
1	8.711104000	3.257504000	0.533762000	1	8.745885000	3.250969000	0.296230000
1	7.791070000	1.959507000	1.346202000	1	7.867658000	1.958176000	1.160215000
6	4.417016000	3.714392000	-0.008060000	6	4.426578000	3.702332000	-0.063330000
1	4.608400000	4.781649000	-0.000399000	1	4.608708000	4.771899000	-0.063896000



Gas phase				Acetonitrile phase			
42	1.760776000	0.984898000	0.190877000	42	1.770841000	0.978451000	0.192905000
42	-2.563231000	-1.724754000	-1.058395000	42	-2.539122000	-1.758012000	-1.028966000
8	3.637432000	1.434494000	-0.052881000	8	3.655835000	1.436665000	0.024649000
8	-0.621461000	-2.287453000	-1.095598000	8	-0.609069000	-2.310138000	-1.060349000
8	1.067564000	2.421654000	-0.418042000	8	1.054829000	2.484104000	-0.220884000
8	-3.915682000	-0.637509000	-0.171166000	8	-3.934386000	-0.657605000	-0.263457000
8	1.536269000	0.919258000	1.874788000	8	1.593477000	0.776319000	1.873256000
7	0.137019000	-0.188726000	-0.433907000	7	0.138761000	-0.193660000	-0.437818000
7	2.516224000	-0.973564000	-0.587259000	7	2.537936000	-0.992997000	-0.567131000
8	-2.665543000	-1.059113000	-2.618751000	8	-2.603232000	-1.142597000	-2.624976000
7	1.604271000	-1.951603000	-0.930568000	7	1.613308000	-1.966246000	-0.908362000
7	-1.217193000	0.086799000	-0.386436000	7	-1.224196000	0.067471000	-0.400440000
8	-3.271447000	-3.267186000	-1.140672000	8	-3.241602000	-3.314835000	-1.091639000
7	-2.109196000	-2.263836000	1.299465000	7	-2.152321000	-2.185713000	1.324677000
6	0.380622000	-1.494698000	-0.830451000	6	0.396549000	-1.503351000	-0.809406000
6	-3.057102000	1.623548000	-0.036594000	6	-3.076076000	1.601099000	-0.076630000
6	-1.657333000	1.269061000	-0.092218000	6	-1.676752000	1.248234000	-0.113785000
1	-0.947386000	2.070032000	0.101519000	1	-0.974671000	2.052652000	0.094247000
6	5.975509000	1.578622000	0.147691000	6	5.995737000	1.569835000	0.166709000
6	4.828360000	0.828680000	-0.092980000	6	4.846722000	0.821230000	-0.059295000
6	3.767316000	-1.348143000	-0.681848000	6	3.789036000	-1.363672000	-0.665874000
1	3.917865000	-2.380739000	-0.996942000	1	3.960877000	-2.394100000	-0.976273000
6	4.923042000	-0.552144000	-0.411548000	6	4.935535000	-0.555616000	-0.400235000
6	-3.384149000	2.984146000	0.115696000	6	-3.406911000	2.962484000	0.084628000
1	-2.574202000	3.707182000	0.171595000	1	-2.598963000	3.684808000	0.167333000
6	-4.127281000	0.686541000	-0.100533000	6	-4.147192000	0.669509000	-0.173267000
6	7.237146000	0.973090000	0.076946000	6	7.260411000	0.968081000	0.056411000
6	-5.737721000	2.491796000	0.108947000	6	-5.762289000	2.471775000	0.021054000
6	-5.446972000	1.128939000	-0.023428000	6	-5.467847000	1.107151000	-0.120332000
6	-4.695301000	3.433047000	0.182699000	6	-4.718668000	3.410707000	0.128051000
1	-4.896763000	4.491638000	0.289721000	1	-4.923683000	4.467848000	0.243455000
6	6.205870000	-1.130461000	-0.483571000	6	6.220422000	-1.130557000	-0.505718000
1	6.289394000	-2.185175000	-0.733090000	1	6.297292000	-2.181741000	-0.769776000
7	-1.253483000	3.243079000	3.072769000	7	-1.347575000	-3.024548000	3.190905000
1	-0.636424000	-3.805384000	3.640610000	1	-0.741205000	-3.536660000	3.821803000
6	7.355271000	-0.394958000	-0.242538000	6	7.372917000	-0.396947000	-0.281630000
1	8.323914000	-0.874996000	-0.304136000	1	8.341502000	-0.872757000	-0.370363000
6	-2.853781000	-1.907975000	2.405438000	6	-2.946257000	-1.771421000	2.380585000
1	-3.708678000	-1.256773000	2.312946000	1	-3.809097000	-1.142652000	2.225803000
6	-2.334121000	-2.507292000	3.520379000	6	-2.454155000	-2.286881000	3.549592000
1	-2.621684000	-2.479098000	4.559669000	1	-2.778510000	-2.199130000	4.575144000
6	-1.154536000	-3.070035000	1.731831000	6	-1.197147000	-2.944080000	1.852860000
1	-0.399745000	-3.534593000	1.115271000	1	-0.403183000	-3.432097000	1.309465000
1	-6.255807000	0.408578000	-0.069583000	1	-6.276324000	0.386498000	-0.184452000
1	5.895460000	2.633506000	0.383238000	1	5.919437000	2.622574000	0.416743000
8	-7.057827000	2.803691000	0.165275000	8	-7.076626000	2.783079000	0.050982000
6	-7.430867000	4.170094000	0.279380000	6	-7.454955000	4.156277000	0.194427000
1	-7.052854000	4.613859000	1.209314000	1	-7.094186000	4.570430000	1.142689000
1	-7.071904000	4.756870000	-0.575540000	1	-7.080676000	4.760226000	-0.639792000
1	-8.521944000	4.179495000	0.292060000	1	-8.546243000	4.162082000	0.187231000
8	8.287466000	1.789989000	0.328802000	8	8.310308000	1.781371000	0.286691000
6	9.604746000	1.255902000	0.268560000	6	9.637190000	1.255766000	0.153384000
1	9.746408000	0.456238000	1.006108000	1	9.819531000	0.452720000	0.875830000
1	9.836472000	0.875014000	-0.733759000	1	9.815904000	0.889065000	-0.863375000
1	10.271015000	2.087215000	0.503103000	1	10.304697000	2.093001000	0.362672000

cis-[(MoO₂)₂(L⁶)(Im)₂]

Gas phase				Acetonitrile phase			
42	2.812334000	-1.057431000	-1.570599000	42	-2.8122267000	1.236364000	-1.462205000
42	-1.691538000	0.951763000	0.196072000	42	1.703042000	-1.045723000	-0.026647000
8	0.927362000	-1.675949000	-1.892421000	8	-0.920461000	1.820684000	-1.795688000
8	-3.605474000	0.881893000	0.610690000	8	3.605645000	-1.067326000	0.405937000
8	4.072948000	-0.158573000	-0.376578000	8	-4.092591000	0.292227000	-0.343922000
8	3.618580000	-2.506980000	-1.975883000	8	-3.573427000	2.723917000	-1.831016000
8	-0.931214000	1.450800000	1.654696000	8	0.941633000	-1.926944000	1.237532000
8	-1.687156000	2.312483000	-0.823611000	8	1.749304000	-2.109363000	-1.367585000
7	0.032230000	0.026442000	-0.601038000	7	-0.040333000	0.010752000	-0.635767000
8	-8.282161000	1.599230000	-0.062133000	8	8.345636000	-1.369460000	-0.075864000
7	-1.799440000	-1.200687000	1.553676000	7	1.740337000	0.700889000	1.709846000
8	2.970642000	-0.015206000	-2.902144000	8	-2.992577000	0.250088000	-2.850100000
7	2.412379000	-2.300549000	0.542971000	7	-2.359190000	2.277410000	0.669456000
7	-2.298350000	-0.628464000	-1.300562000	7	2.315438000	0.777651000	-1.211369000
8	6.879697000	3.434196000	1.042795000	8	-6.973293000	-3.326951000	0.833314000
7	-1.325667000	-1.449366000	-1.835703000	7	1.325099000	1.618471000	-1.690728000
7	1.355134000	0.381026000	-0.474436000	7	-1.376520000	-0.320224000	-0.525237000
7	2.585887000	-4.020987000	1.904033000	7	-2.086379000	3.882246000	2.146907000
1	2.812822000	-4.946239000	2.237808000	1	-2.010444000	4.814318000	2.538076000
6	-0.133883000	-1.044339000	-1.461092000	6	0.137647000	1.157126000	-1.383121000
7	-1.995022000	-2.334114000	3.432660000	7	1.730160000	1.512656000	3.755880000
1	-2.058751000	-2.525587000	4.421766000	1	1.657607000	1.548780000	4.766214000
6	-3.510505000	-0.835060000	-1.728351000	6	3.533855000	1.093820000	-1.547895000
1	-3.621386000	-1.589174000	-2.509037000	1	3.654951000	1.960999000	-2.198100000
6	2.811427000	3.555267000	0.650022000	6	-2.299533000	3.592764000	0.847250000
1	3.265458000	-4.128203000	-0.144375000	1	-2.416204000	4.338378000	0.076007000
6	-1.792953000	-1.114340000	2.871206000	6	1.590438000	0.405381000	2.996959000
1	-1.646864000	-0.202973000	3.431489000	1	1.384032000	-0.575373000	3.396451000
6	-5.898371000	1.274836000	0.308170000	6	5.931895000	-1.265632000	0.187865000
1	-5.855705000	1.903288000	1.188629000	1	5.891892000	-2.059451000	0.923810000
6	-2.011719000	-2.531588000	1.251796000	6	1.984309000	2.062624000	1.654495000
1	-2.038842000	-2.874398000	0.228208000	1	2.133147000	2.575667000	0.716820000
1	1.910178000	-1.942032000	1.776982000	6	-2.181852000	1.708744000	1.918033000
6	1.510651000	-0.955688000	1.956688000	1	-2.190091000	0.638993000	2.062464000
6	1.695320000	1.507892000	0.077068000	6	-1.751366000	-1.480285000	-0.076927000
1	0.916502000	2.187826000	0.414532000	1	-0.996868000	-2.214809000	0.194949000
6	-4.694759000	-0.164160000	-1.264409000	6	4.724743000	0.401405000	-1.142677000
6	2.010349000	-3.000779000	2.639019000	6	-2.009468000	2.698625000	2.848755000
1	1.737771000	-3.120883000	3.675774000	1	-1.845045000	2.672278000	3.914911000
6	-4.706808000	0.674267000	-0.120170000	6	4.731530000	-0.651962000	-0.191248000
6	3.058102000	1.931451000	0.282822000	6	-3.126500000	-1.878330000	0.105898000
6	4.187330000	1.106353000	0.043788000	6	-4.238084000	-1.006260000	-0.026826000
6	-2.137048000	-3.252823000	2.408648000	6	1.978539000	2.580856000	2.922170000
1	-2.306740000	-4.302003000	2.594637000	1	2.121909000	3.582542000	3.297515000
6	-8.342773000	2.478666000	1.052795000	6	8.420693000	-2.413300000	0.900924000
1	-7.695128000	3.352402000	0.908473000	1	7.859337000	-3.297809000	0.579097000
1	-9.382451000	2.803445000	1.119012000	1	9.479674000	-2.663805000	0.982228000
6	-8.060636000	1.967775000	1.982225000	1	8.048953000	-2.072417000	1.873947000
1	-5.918098000	-0.378955000	-1.939573000	6	5.966506000	0.811631000	-1.684177000
1	-5.921096000	-1.025773000	-2.813411000	1	5.972489000	1.622804000	-2.407452000
6	-7.084489000	1.054001000	-0.395725000	6	7.140028000	-0.840826000	-0.377382000
6	5.481222000	1.586582000	0.297682000	6	-5.539725000	-1.462724000	0.218924000
1	6.308965000	0.917032000	0.101181000	1	-6.355218000	-0.757335000	0.115886000
6	3.285389000	3.234417000	0.783946000	6	-3.383699000	-3.216709000	0.488941000
1	2.425803000	3.872313000	0.974095000	1	-2.540200000	-3.893224000	0.599580000
6	-7.094063000	0.214929000	-1.528684000	6	7.153200000	0.208093000	-1.323056000
1	-8.028994000	0.056988000	-2.054831000	1	8.101413000	0.524498000	-1.744706000
6	5.666607000	2.883357000	0.779108000	6	-5.755877000	-2.795345000	0.585111000
6	8.045253000	2.659933000	0.795000000	6	-8.124770000	-2.481091000	0.755638000
1	8.119560000	2.375486000	-0.262053000	1	-8.251718000	-2.074315000	-0.254142000
1	8.889026000	3.299420000	1.059748000	1	-8.975805000	-3.119114000	0.999851000
1	8.064899000	1.754864000	1.415552000	1	-8.062611000	-1.660714000	1.479812000
6	4.555347000	3.714701000	1.027638000	6	-4.663099000	-3.679129000	0.718738000
1	4.725149000	4.717633000	1.403443000	1	-4.849442000	-4.708603000	1.006426000

trans-[(MoO₂)₂(L⁶)(Im)₂]

Gas phase				Acetonitrile phase			
42	1.638666000	-0.683628000	-0.737031000	42	1.642818000	-0.654960000	-0.753273000
42	-2.716666000	1.499334000	1.334292000	42	-2.693289000	1.500680000	1.356308000
8	3.533278000	-1.139066000	-0.660285000	8	3.538390000	-1.089479000	-0.738038000
8	-0.801520000	2.111750000	1.389082000	8	-0.804713000	2.159044000	1.337111000
8	0.884984000	-2.197127000	-1.026649000	8	0.884813000	-2.163380000	-1.073311000
8	-4.127290000	0.655459000	0.287136000	8	-4.136403000	0.584719000	0.448602000
8	1.590690000	0.167361000	-2.210079000	8	1.581172000	0.216645000	-2.225075000
7	-0.045301000	0.298981000	0.144898000	7	-0.045695000	0.320836000	0.129723000
7	2.360159000	1.093602000	0.481795000	7	2.364767000	1.125534000	0.442787000
8	-2.665299000	0.422452000	2.652768000	8	-2.533531000	0.448056000	2.697903000
7	1.712222000	-1.602566000	1.585311000	7	1.778632000	-1.607580000	1.509465000
7	1.419349000	1.894483000	1.094573000	7	1.416159000	1.938943000	1.037738000
7	-1.395581000	0.014535000	0.083538000	7	-1.398465000	0.028391000	0.090912000
8	-3.449983000	2.926348000	1.897957000	8	-3.441351000	2.917819000	1.954885000
7	1.628236000	-1.907361000	3.763372000	7	2.140474000	-2.019126000	3.640648000
1	1.552731000	-1.693474000	4.747306000	1	2.399822000	-1.870899000	4.609371000
7	-2.466351000	2.674240000	-0.811526000	7	-2.619383000	2.624978000	-0.794186000
6	0.202803000	1.438117000	0.880094000	6	0.206854000	1.474161000	0.839328000
6	-3.231613000	-1.397632000	-0.637325000	6	-3.234436000	-1.399859000	-0.610040000
1	-1.835453000	-1.031753000	-0.538792000	6	-1.844240000	-1.012365000	-0.539814000
6	-1.121093000	-1.707387000	-1.006211000	1	-1.137492000	-1.670340000	-1.041230000
1	1.664890000	-0.996550000	2.759880000	6	2.195827000	-1.091963000	2.661222000
1	1.639719000	0.071710000	2.918942000	1	2.528762000	-0.078345000	2.820024000
6	5.850803000	-1.080523000	-1.006978000	6	5.862305000	-1.037731000	-1.047592000
6	4.686621000	-0.472756000	-0.539710000	6	4.697125000	-0.428781000	-0.589346000
1	1.702533000	-2.958612000	1.846166000	6	1.442332000	-2.924538000	1.777847000
1	1.721737000	-3.676866000	1.041125000	1	1.068637000	-3.575070000	1.002156000
6	3.593914000	1.488182000	0.598888000	6	3.598803000	1.526398000	0.557870000
1	3.751749000	2.423460000	1.138884000	1	3.764116000	2.464990000	1.088110000
6	4.750367000	0.808775000	0.077964000	6	4.754700000	0.844420000	0.044812000
6	-3.542946000	-2.642243000	-1.215170000	6	-3.542459000	-2.626161000	-1.233091000
1	-2.724137000	-3.273972000	-1.550487000	1	-2.725017000	-3.223011000	-1.629297000
6	1.650148000	-3.167723000	3.197411000	6	1.663754000	-3.193427000	3.101646000
1	1.623178000	-4.067198000	3.792268000	1	1.529791000	-4.085313000	3.694404000
6	-4.313689000	-0.576168000	-0.212457000	6	-4.318335000	-0.626633000	-0.109771000
6	7.089788000	-0.441352000	-0.877150000	6	7.105591000	-0.405115000	-0.889277000
6	-5.901069000	-2.269420000	-0.929810000	6	-5.897148000	-2.323464000	-0.837669000
6	-5.627670000	-1.018869000	-0.364311000	6	-5.627231000	-1.089573000	-0.226906000
6	-4.847861000	-3.092689000	-1.363880000	6	-4.841530000	-3.099357000	-1.351621000
1	-5.034506000	-4.062335000	-1.808699000	1	-5.025465000	-4.050834000	-1.834962000
6	6.012046000	1.419070000	0.200598000	6	6.019398000	1.449002000	0.195071000
1	6.070987000	2.395953000	0.674575000	1	6.073381000	2.418649000	0.682951000
7	-1.705005000	4.035407000	-2.361669000	7	-2.091059000	4.042903000	-2.389425000
1	-1.094813000	4.684922000	-2.836097000	1	-1.591921000	4.766523000	-2.894511000
6	7.175440000	0.822739000	-0.266166000	6	7.185794000	0.852782000	-0.260692000
1	8.124349000	1.332555000	-0.155186000	1	8.136343000	1.354288000	-0.127909000
6	-3.334494000	2.655268000	-1.884094000	6	-3.535471000	2.501252000	-1.824668000
1	-4.222785000	2.043622000	-1.867639000	1	-4.353670000	1.799953000	-1.772572000
6	-2.875054000	3.495975000	-2.861096000	6	-3.216416000	3.379277000	-2.825548000
1	-3.258112000	3.752662000	-3.836298000	1	-3.672362000	3.587378000	-3.781383000
6	-1.496462000	3.515273000	-1.127310000	6	-1.762317000	3.568412000	-1.169816000
1	-0.653473000	3.764066000	-0.500695000	1	-0.918251000	3.919881000	-0.597354000
1	-6.445235000	-0.384909000	-0.040071000	1	-6.445927000	-0.487294000	0.152952000
1	5.796540000	-2.058011000	-1.472472000	1	5.812123000	-2.011580000	-1.523212000
8	-7.218277000	-2.593749000	-1.022257000	8	-7.202142000	-2.674715000	-0.889010000
6	-7.570063000	-3.851614000	-1.579261000	6	-7.555247000	-3.921366000	-1.497069000
1	-7.231591000	-3.940557000	-2.619683000	1	-7.261360000	-3.945193000	-2.552540000
1	-7.156800000	-4.681603000	-0.991876000	1	-7.100377000	-4.765483000	-0.966330000
1	-8.660131000	-3.895680000	-1.549330000	1	-8.641992000	-3.987309000	-1.421562000
8	8.153644000	-1.128158000	-1.369373000	8	8.168574000	-1.087959000	-1.368376000
6	9.444050000	-0.541330000	-1.279544000	6	9.473167000	-0.513576000	-1.235954000
1	9.494263000	0.406099000	-1.831242000	1	9.546982000	0.434003000	-1.781473000
1	9.736129000	-0.369339000	-0.235601000	1	9.732713000	-0.356475000	-0.183045000
1	10.129192000	-1.259795000	-1.732564000	1	10.159516000	-1.239823000	-1.674754000

References

¹ For the graph-set analysis of hydrogen-bonding patterns see for example: a) M. C. Etter, J. MacDonald and J. Bernstein, *Acta Cryst.*, 1990, **B46**, 256; b) J. Bernstein, R. E. Davis, L. Shimoni and N.L. Chang *Angew. Chem. Int. Ed Eng.* 1995, **34**, 1555.