Supporting Information

Effect of coordination sites on vanadium complexes having $[VO]^{2+}$, $[VO]^{3+}$ and $[VO_2]^+$ cores with hydrazones of 2,6-diformyl-4-methylphenol: Synthesis, characterization, reactivity, and catalytic potential

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Molecular structures of [V^VO(OMe)(MeOH){Hdfmp(bhz)₂}] (6) and [V^VO₂{H₂dfmp(inh)₂}] (7)



Fig. S1 Above: Space-filling representation of compound 6 colored by atom type where we can observe the hydrogen bond interaction between the methanol molecule and protonated hydrazone group occupying the position of the VO group (up) in the lower part of the ligand showed in the figure. Below: Space-filling representation of compound 7, also colored by atom type, where we can observe the sixth coordinate position occupied by the $N_{pyridine}$ atom of a neighboring complex.

				-				
Com	pound	D-HA	d(D-H)	d(H	A)	d(DA)	<(DHA	A)
6	N(2)	-H(2N)O(3	3M)	0.84(3)	2.08(4)	2.904(3)	167(3)
6	O(2N	Л)-H(2O)С	D (4)#1	0	.66(3)	2.09(3)	2.743(3	3) 173(4)
6	O(3N	Л)-H(3O)С	D(4M)#2	0.90(3)	1.80(3)	2.677(3)	165.5	í
6	O(4N	/I)-H(4O)C	D (4)#3	0.82	1	.992.718(3)	148.6)
6	O(4N	/I)-H(4O)N	J(1)#3	0.82	2	.493.157(3)	139.8	} •
7	O(3W	/)-H(3WB)	.O(5W)	1.00	2.0	012.965(5)	158.5	, i
7	O(4W	/)-H(4WA)	.O(1W)#4	0.80(4)	2.02(4)	2.805(5)	169(4)
7	N(5)-	H(5N)O(3	W)#5		0.80(5)	2.15(5)	2.930(5) 165(4)
7	O(5W	/)-H(5WB)	.O(1W)#6	1.00	2.4	4 3.208(5)	132.3	, N
7	O(5W)-H(5WA)	O(1W)#7	1.02	1.8	62.841(6)	160.2	1

[Å] angles [°] Table **S1** Distances and hydrogen bonds for of W^{V} $(hh_{-}))] 2 M_{-} O I (6)$ W^{V} (II 46 (in h))] 511 O (7) 1 f.

Symmetry transformations used to generate equivalent atoms:

#1 -x,-y+2,-z+1 #2 -x,-y+1,-z+1 #3 x,y-1,z

#4 -x+1/2,-y,z+1/2 #5 -x-1/2,y-1/2,z

#6 -x-1/2,y+1/2,z #7 x-1/2,-y+1/2,-z

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⁵¹V NMR studies



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Fig. S4 (A) ⁵¹V NMR spectra of solutions in MeOD (a) of the ' $[V^VO]^{3+}$ solution' (ca. 8 mM); (b) of $[V^VO_2\{H_2dfmp(inh)_2\}]$ **7** (ca. 4 mM) in MeOD; (c) solution of (b) after addition of 1.0 equiv. of ' $[V^VO]^{3+}$ solution'; (d) solution of (c) after additions of 2.0 equiv. of ' $[V^VO]^{3+}$ solution'; the final pH of solution of (d) was ~5.0. (B) ⁵¹V NMR spectra for solutions in MeOD (a) of $[V^VO_2\{H_2dfmp(inh)_2\}]$ **7**;(ca. 4 mM) (pH~ 6.8 to 7.0) (b) solution of (a) after addition of 0.5 equiv. of an 'aqueous NaVO₃ solution'; (c-e) solution of (b) after addition of 1.0 equiv. of an 'aqueous NaVO₃ solution'; the final pH of solution of (e) was ~7.4.

Oxidative bromination of styrene



Fig. S5 Effect of different catalyst precursors on the conversion of oxidative bromination of styrene.

Calculations of entropies in solution

The entropies in solutions (S_s) were calculated according to the procedure described by Wertz and Cooper and Ziegler using equations (1) - (4)

 $\Delta SRIV_{n} N_{n}$ (2)

$$S_s = S_g + \Delta S_{sol} = S_g + [\Delta S_1 + \alpha (S_g + \Delta S_1) + \Delta S_2] =$$

 $S_{g} + [(-11.80 \text{ cal/mol} \cdot K) - 0.21(S_{g} - 11.80 \text{ cal/mol} \cdot K) + 5.45 \text{ cal/mol} \cdot K]$ (4)

where S_g = gas-phase entropy of solute, ΔS_{sol} = solvation entropy, $S^{\circ,s}_{liq}$, $S^{\circ,s}_{gas}$, and $V^s_{m,liq}$ = standard entropies and molar volume of the solvent in liquid or gas phases (127.2 and 239.9 J/mol•K and 40.46 mL/mol, respectively, for MeOH), $V_{m,gas}$ = molar volume of the ideal gas at

25 °C (24450 mL/mol), $V^\circ{}_m$ = molar volume of the solution corresponding to the standard

conditions (1000 mL/mol).

Table 1TS. Calculated total energies (E), enthalpies (H), Gibbs free energies (G) (in Hartree), and entropies (S) (in cal/mol•K) in gas-phase and MeOH solution.

	Eg	Es	H _g	H _s	Sg	Ss	Gg	Gs
H ₂ O	-76.587853	-76.598524	-76.562685	-76.573356	46.50	29.34	-76.584777	-76.587297
H ₂ O ₂	-151.851341	-151.869775	-151.820524	-151.838958	55.72	35.61	151.846996	-151.855877
HBr	-2573.126798	-2573.129022	-2573.117492	-2573.119716	47.44	29.98	-2573.140034	-2573.133960
HCl	-461.137649	-461.140404	-461.127579	-461.130334	44.60	28.05	-461.148770	-461.143661
[V(=O)(acac) ₂]	-839.857103	-839.873605	-839.605278	-839.621780	143.95	95.61	-839.673673	-839.667206
VOCl ₃	-1529.101289	-1529.096879	-1529.085743	-1529.081333	83.96	54.81	-1529.125636	-1529.107375
II	-1368.963767	-1369.015633	-1368.566506	-1368.618372	190.55	127.29	-1368.657041	-1368.678854
Hacac	-346.770595	-346.779122	-346.637969	-346.646496	87.76	57.40	-346.679666	-346.673767
MeOH	-116.037606	-116.046873	-115.981628	-115.990895	56.68	36.26	-116.008560	-116.008125
1a	1591.882843	-1591.930849	-1591.473724	-1591.521730	205.52	137.47	-1591.571373	-1591.587046
1	-1591.898667	-1591.940963	-1591.489761	-1591.532057	198.69	132.83	-1591.584165	-1591.595169
1•MeOH	-1707.949119	-1707.989769	-1707.481738	-1707.522388	218.47	146.30	-1707.585541	-1707.591900
2	-1591.885051	-1591.931780	-1591.475819	-1591.522548	205.64	137.56	-1591.573527	-1591.587905
5	-1746.765333	-1746.795685	-1746.279601	-1746.309953	227.52	152.43	-1746.387700	-1746.382379
8	-1590.749345		-1590.364456		197.97		-1590.458517	
8Ha	-1591.259162	-1591.298399	-1590.862270	-1590.901507	197.40	131.95	-1590.956060	-1590.964202
8Hb	-1591.189957	-1591.285287	-1590.791409	-1590.886739	200.55	134.09	-1590.886695	-1590.950452
8Ha•MeOH	-1707.313900	-1707.351827	-1706.858400	-1706.896327	217.55	145.65	-1706.961764	-1706.965530
11	-3105.942951	-3105.972160	-3105.173164	-3105.202373	340.98	229.59	-3105.335176	-3105.311457
14	-1666.025633		-1665.636349		201.74		-1665.732203	
14Ha	-1666.519189	-1666.550969	-1666.118473	-1666.150253	199.04	133.07	-1666.213044	-1666.213478
14Hb	-1666.476948	-1666.540235	-1666.074147	-1666.137434	193.54	129.33	-1666.166106	-1666.198883
14Hc	-1666.511903	-1666.540198	-1666.109545	-1666.137840	192.04	128.31	-1666.200790	-1666.198803
CVIIHa	-2314.088091	-2314.160729	-2313.644142	-2313.716780	232.29	155.68	-2313.754512	-2313.790747
CVIIHb	-1813.465672	-1813.545699	-1813.066802	-1813.146829	205.60	137.53	-1813.164491	-1813.212173
CVIII	-1666.893919		-1666.478359		190.97		-1666.569093	
CX	-1777.651507	-1777.675947	-1777.228150	-1777.252590	213.11	142.64	-1777.329405	-1777.320363
CXI⁻	-4314.481949		-4314.072992		219.61		-4314.177338	
CXI-Ha	-4314.961519	-4315.012611	-4314.538610	-4314.589702	217.41	145.56	-4314.641909	-4314.658862
CXI-Hb	-4314.929357	-4315.002049	-4314.506540	-4314.579232	221.62	148.42	-4314.611837	-4314.649752
СХІ-ОН	-4314.968935	-4314.996053	-4314.547888	-4314.575006	220.58	147.71	-4314.652691	-4314.645188
СХІ-ООН	-4314.959316	-4314.985328	-4314.537296	-4314.563308	219.70	147.12	-4314.641680	-4314.633208
CXII	-4163.110261	-4163.139070	-4162.721596	-4162.750405	209.96	140.49	-4162.821352	-4162.817158

		.4	
Ν	-3.606709	0.612266	0.023046
С	-7.102854	-0.551050	-0.005142
Ν	-4.720767	-0.147176	-0.028536
Н	-4.629983	-1.160762	-0.046132
С	-7.043772	-1.767596	-0.691705
Н	-6.139536	-2.066567	-1.221796
0	-0.082639	-1.339628	-0.112440
Ν	-8.064700	-2.619019	-0.791075
Ν	3.598447	0.579510	-0.131573
0	6.112690	1.498673	-0.736989
0	-6.153498	1.605083	0.314836
С	-9.209313	-2.270398	-0.200135
Н	-10.025691	-2.985100	-0.286140
Ν	4.717826	-0.156667	0.007050
С	-9.391351	-1.069470	0.484605
Н	-10.352089	-0.832218	0.930643
С	-8.320602	-0.193708	0.577451
Н	-8.395180	0.763338	1.084353
С	-5.971051	0.420786	0.106917
С	-2.483581	-0.006451	-0.022097
Н	-2.425091	-1.098165	-0.093491
С	-1.224207	0.726454	0.017617
С	-1.194193	2.122296	0.089415
Н	-2.146770	2.643537	0.127026
С	0.004788	2.835422	0.102887
С	1.195089	2.115973	0.073102
Н	2.151233	2.630066	0.108528
С	1.213341	0.714314	0.021802
С	-0.008830	0.023337	-0.031588
С	0.005236	4.339000	0.146135
Н	0.987687	4.728787	0.427357
Н	-0.250483	4.763068	-0.832398
Н	-0.729093	4.717822	0.864454
С	2.476926	-0.011226	0.067259
Н	2.451894	-1.080566	0.330322
С	5.957311	0.378221	-0.293318
С	7.102433	-0.550017	-0.045138
С	7.087146	-1.603068	0.874525
Н	6.212070	-1.788313	1.497561
Ν	8.119608	-2.416614	1.094628
С	9.232040	-2.193843	0.391954
Н	10.058491	-2.876183	0.581399
С	9.370225	-1.155894	-0.528918
Н	10.306823	-1.013369	-1.058620
С	8.287959	-0.316932	-0.745706

Table 2TS. Cartesian atomic coordinates (Å) of the calculated equilibrium structures.II

Н	8.330315	0.517920	-1.438293
Н	0.735629	-1.685977	-0.492577
Н	4.642063	-1.146125	0.234418
	1	a	
V	1.901472	-0.730294	0.686151
Ν	-3.585621	1.012957	-0.245138
С	-6.665251	-1.008495	-0.167752
0	1.123277	-2.437257	-0.229888
0	1.790221	-0.792738	2.249209
Ν	-4.467092	-0.008003	-0.203131
Н	-4.132292	-0.945535	0.010044
С	-6.257950	-2.259285	-0.635544
Н	-5.289171	-2.407816	-1.104561
0	0.366938	0.088165	-0.091424
С	-7.145360	-3.328476	-0.540650
Ν	2.921622	0.928896	0.182727
0	3.591486	-1.432799	0.037723
0	-6.314303	1.344662	-0.268208
Ν	-8.369958	-3.233816	-0.021650
Ν	4.277288	0.762038	0.020028
С	-8.753928	-2.029029	0.411239
Н	-9.758815	-1.969885	0.824577
С	-7.953203	-0.894238	0.354189
Н	-8.305545	0.071440	0.700416
С	-5.825692	0.233242	-0.222806
С	-2.344760	0.715118	-0.112258
Н	-2.005315	-0.317806	0.025418
С	-1.320240	1.750281	-0.111031
С	-1.664802	3.101183	-0.136306
Н	-2.723536	3.345605	-0.172060
С	-0.709722	4.123997	-0.113112
С	0.623681	3.752706	-0.052696
Н	1.395374	4.519557	-0.029987
С	1.025294	2.403097	-0.006676
С	0.044551	1.371480	-0.056098
С	-1.130190	5.567115	-0.144953
Н	-0.264196	6.235180	-0.136086
Н	-1.717650	5.791138	-1.042433
Н	-1.754858	5.818380	0.719687
С	2.426472	2.116335	0.001380
Н	3.134433	2.924301	-0.188795
С	4.534519	-0.518500	-0.034864
С	5.929051	-0.963543	-0.205078
С	6.972558	-0.047377	-0.363454
Н	6.768658	1.017369	-0.362038
С	8.263566	-0.535498	-0.520114
Ν	8.576156	-1.835510	-0.528752

С	7.571129	-2.699429	-0.372987
Н	7.843237	-3.753417	-0.377731
С	6.241515	-2.323346	-0.209639
Н	5.460702	-3.064215	-0.080211
Н	1.836737	-2.872217	-0.726325
Н	0.443271	-2.148307	-0.861235
Н	-6.855667	-4.311861	-0.906701
Н	9.095661	0.154626	-0.646059
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V	-1.142464	-0.365350	0.565449
Ν	2.615886	0.836956	-0.240759
С	5.309184	-1.646650	-0.127718
0	-1.005728	-0.360793	2.131076
0	0.216713	-1.724520	-0.153258
Ν	3.840740	0.266259	-0.232960
Н	4.683844	0.833822	-0.157743
С	6.396239	-1.028407	-0.749107
Н	6.286224	-0.107210	-1.314440
0	0.023638	0.870347	-0.249924
С	7.641357	-1.648122	-0.680717
Ν	-2.590306	1.004029	0.127055
0	-2.637547	-1.465846	0.001440
0	2.941125	-1.825801	-0.049103
Ν	7.862731	-2.802343	-0.050638
Ν	-3.855183	0.491566	-0.008465
С	6.812830	-3.390539	0.529402
Н	7.012909	-4.334235	1.032530
С	5.525455	-2.865695	0.514225
Н	4.696827	-3.380554	0.987826
С	3.924202	-1.091933	-0.137078
С	2.549960	2.120003	-0.222643
Н	3.463613	2.734796	-0.211768
С	1.293862	2.847202	-0.183278
С	1.310331	4.241123	-0.131201
Н	2.273630	4.749758	-0.154413
С	0.142828	5.009560	-0.043466
С	-1.069820	4.334963	0.006919
Н	-1.994288	4.904621	0.081635
С	-1.149514	2.931810	-0.021430
С	0.043093	2.164847	-0.144428
С	0.212808	6.511457	0.003895
Н	-0.785078	6.952064	0.083129
Н	0.796961	6.859667	0.863772
Н	0.685610	6.921511	-0.896240
С	-2.432679	2.286883	-0.009095
Н	-3.332196	2.887788	-0.152041
С	-3.772115	-0.816852	-0.052598

С	-5.014899	-1.599025	-0.196658
С	-6.267054	-0.981295	-0.253987
Н	-6.344963	0.098162	-0.191120
С	-7.394335	-1.781268	-0.391606
Ν	-7.360283	-3.115416	-0.474792
С	-6.157792	-3.692230	-0.418558
Н	-6.146915	-4.778696	-0.487038
С	-4.964305	-2.990633	-0.281377
Н	-4.009987	-3.503321	-0.240276
Н	1.181613	-1.478795	-0.129157
Н	0.149154	-2.641417	0.147510
Н	-8.382535	-1.327118	-0.438084
Н	8.503740	-1.193447	-1.164298
	1•M	eOH	
V	1.093093	-0.340711	-0.446251
Ν	-2.758292	0.861079	0.177253
С	-5.501807	-1.564122	-0.064500
0	0.882309	-0.286677	-2.006167
0	-0.385063	-1.850475	-0.158771
Ν	-3.994749	0.311940	0.120409
Н	-4.819682	0.899420	0.006454
С	-6.595314	-0.926081	0.524795
Н	-6.484128	-0.010092	1.098294
0	-0.141847	0.912660	0.312260
С	-7.850706	-1.517865	0.411762
Ν	2.515637	1.087599	-0.143588
0	2.728611	-1.404064	-0.210620
0	-3.136213	-1.794863	-0.082721
Ν	-8.076501	-2.663706	-0.232009
Ν	3.808376	0.635848	-0.106895
С	-7.020887	-3.271420	-0.780876
Н	-7.224569	-4.208047	-1.295714
С	-5.723802	-2.774591	-0.720537
Н	-4.890836	-3.304974	-1.168731
С	-4.104633	-1.041436	-0.007300
С	-2.681628	2.143809	0.130315
Н	-3.593213	2.758445	0.060333
С	-1.429182	2.873989	0.117289
С	-1.461594	4.267821	0.017964
Н	-2.431758	4.763540	0.000619
С	-0.303811	5.044176	-0.071587
С	0.915934	4.376000	-0.087756
Н	1.835641	4.951288	-0.178379
С	1.012202	2.978005	-0.007002
С	-0.173213	2.201193	0.138029
С	-0.380560	6.544733	-0.147016
Н	0.575152	6.975893	-0.459060

	1 1 40 5 4 1	< 0 72 000	0.050447
Н	-1.142541	6.872888	-0.862447
Н	-0.63/202	6.984840	0.824632
C	2.314645	2.363859	-0.032286
Н	3.197224	3.001007	0.044421
С	3.805842	-0.677421	-0.160661
С	5.110484	-1.372944	-0.147900
С	6.316688	-0.673983	-0.055143
Н	6.313688	0.408289	0.006439
С	7.502831	-1.397138	-0.043985
Ν	7.568209	-2.730775	-0.117645
С	6.408455	-3.385849	-0.208187
Н	6.478019	-4.470697	-0.269792
С	5.163676	-2.764928	-0.226574
Н	4.246829	-3.338610	-0.303671
Н	-1.314083	-1.511001	-0.077950
Н	-0.398750	-2.403503	-0.954019
Н	8.456986	-0.877941	0.028235
Н	-8.718508	-1.046746	0.869305
0	1.128432	-0.686147	1.902413
Н	0.300234	-0.240452	2.138844
С	1.220580	-1.953308	2.543260
Н	1.285552	-1.833309	3.630737
Н	2.138515	-2.411112	2.174859
Н	0.372480	-2.595135	2.283887
		2	
V	1.903194	-0.726599	0.698275
N	-3.587884	1.014249	-0.221013
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H 1.712059 5.945960 -1.016384 H 0.386729 6.351918 0.081022 H 1.970917 5.898621 0.726825 C 0.058759 1.511509 -0.020668 H 8.891344 -4.101231 -0.229290 O -1.927918 -1.153573 1.854532 C -0.775919 -1.499401 2.617620 H -2.487130 -1.939654 1.758156 H -0.215712 -2.310478 2.140719 H -0.051707 -0.606833 2.659074 H -0.151707 -0.606833 2.659074 H -0.151707 -0.606833 2.659074 H -0.151707 -0.606833 2.659074 H -0.663353 -1.267648 -1.123642 C -7.093797 -5.261992 -1.246430 H -8.007433 -5.86905 -3.052867 O -3.336097 -2.109342 -1.093947 N -	С	1.241363	5.684235	-0.061570
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N -6.764787 -4.292280 -0.408271 O -0.646759 -2.221651 -0.406707 N 2.339053 2.503516 -2.346492 O -0.671688 -0.185506 -2.187874 N 2.302801 3.484195 -1.420637 H 1.592270 3.463068 -0.686316 C -5.651408 -3.606288 -0.661225 H -5.391143 -2.818552 0.040938 C 6.420347 4.965868 -4.000787 C -3.615600 -3.052401 -1.970901 C -0.941066 -2.385783 -3.901882 H -1.101645 -3.119231 -4.692100 C 0.161913 -1.481889 -3.998689 C 1.126493 -1.635881 -5.011400 H 1.038642 -2.480240 -5.691355 C 2.183384 -0.746681 -5.145217 C 2.259668 0.328705 -4.249403	С	-4.824276	-3.851151	-1.764015
O -0.646759 -2.221651 -0.406707 N 2.339053 2.503516 -2.346492 O -0.671688 -0.185506 -2.187874 N 2.302801 3.484195 -1.420637 H 1.592270 3.463068 -0.686316 C -5.651408 -3.606288 -0.661225 H -5.391143 -2.818552 0.040938 C 6.420347 4.965868 -4.000787 C -3.615600 -3.052401 -1.970901 C -0.941066 -2.385783 -3.901882 H -1.101645 -3.119231 -4.692100 C 0.161913 -1.481889 -3.998689 C 1.126493 -1.635881 -5.011400 H 1.038642 -2.480240 -5.691355 C 2.183384 -0.746681 -5.145217 C 2.259668 0.328705 -4.249403	Ν	-6.764787	-4.292280	-0.408271
N 2.339053 2.503516 -2.346492 O -0.671688 -0.185506 -2.187874 N 2.302801 3.484195 -1.420637 H 1.592270 3.463068 -0.686316 C -5.651408 -3.606288 -0.661225 H -5.391143 -2.818552 0.040938 C 6.420347 4.965868 -4.000787 C -3.615600 -3.052401 -1.970901 C -0.941066 -2.385783 -3.901882 H -1.101645 -3.119231 -4.692100 C 0.161913 -1.481889 -3.998689 C 1.126493 -1.635881 -5.011400 H 1.038642 -2.480240 -5.691355 C 2.183384 -0.746681 -5.145217 C 2.259668 0.328705 -4.249403	0	-0.646759	-2.221651	-0.406707
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N 2.302801 3.484195 -1.420637 H 1.592270 3.463068 -0.686316 C -5.651408 -3.606288 -0.661225 H -5.391143 -2.818552 0.040938 C 6.420347 4.965868 -4.000787 C -3.615600 -3.052401 -1.970901 C -0.941066 -2.385783 -3.901882 H -1.101645 -3.119231 -4.692100 C 0.161913 -1.481889 -3.998689 C 1.126493 -1.635881 -5.011400 H 1.038642 -2.480240 -5.691355 C 2.183384 -0.746681 -5.145217 C 2.259668 0.328705 -4.249403	0	-0.671688	-0.185506	-2.187874
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C 1.126493 -1.635881 -5.011400 H 1.038642 -2.480240 -5.691355 C 2.183384 -0.746681 -5.145217 C 2.259668 0.328705 -4.249403	С	0.161913	-1.481889	-3.998689
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