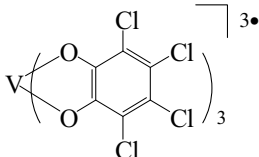
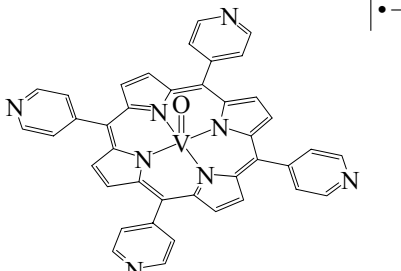
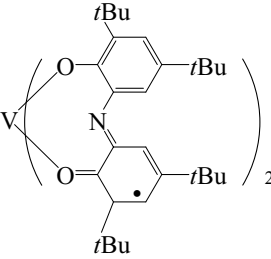


Substance	Generation / Matrix or Solvent / Method / <i>T</i> [K]	<i>g</i> -Factor / <i>a</i> -Value [mT]	Ref. / add. Ref.
3.6 Complexes of group 5 (V, Nb, Ta)			
$[C_{18}Cl_{12}O_6V]^{3\bullet}$ 	chemical reaction	2.0028	86Cas
	toluene	^{51}V : 0.21	
	ESR / 296		
	diethylether	2.0028	
	ESR / 296	^{51}V : 0.56	
crystal structure, IR and UV-VIS spectroscopy, electrochemistry			
$[C_{30}H_{24}N_6V]^{\bullet}$ $[V(bpy)_3]^{\bullet}$	chemical reaction	1.9816	94Rie
	THF	^{51}V : 8.38 N: 0.2	
	ESR / 298		
	ESR / 77	$g_{ } = 1.988$ $g_{\perp} = 1.9805$ $A_{ } = 42 \times 10^{-4} \text{ cm}^{-1}$ $A_{\perp} = 86 \times 10^{-4} \text{ cm}^{-1}$ V(0); electron density extensively delocalized into bpy π^* orbital	
$[C_{36}H_{46}N_4O_2V]^{*\bullet+}$ $[V(O)(H_2O)(OEP)]^{*\bullet+}$	chemical reaction	$g = 1.99$	94Sch3
	solid state		
	ESR / 298		
	single crystal		
	ESR / 5		
crystal structure, IR and UV-VIS spectroscopy, magnetic susceptibility			
$[C_{40}H_{24}N_8OV]^{*\bullet-}$ 	electrochemical reduction	$g_{ } = 1.9653 (V^{IV})$ $g_{\perp} = 1.9785 (V^{IV})$	88Kad3
	dimethylformamide		
	ESR / 77	$g = 2.003 (T_{py}P^{*\bullet 3-})$ $A_{ } = 17.000 (V^{IV})$ $A_{\perp} = 5.766 (V^{IV})$	
	electrochemistry, spectroelectrochemistry		

Substance	Generation / Matrix or Solvent / Method / T [K]	g -Factor / a -Value [mT]	Ref. / add. Ref.
$[\text{C}_{44}\text{H}_{28}\text{N}_4\text{NbO}_3]^\bullet$ $[\text{Nb}(\text{O}_2)(\text{O})(\text{TPP})]^\bullet$	irradiation benzene ESR / RT	2.0018 ^{93}Nb : 0.98	90Web
$[\text{C}_{56}\text{H}_{80}\text{N}_2\text{O}_4\text{V}]^{2\bullet}$ 	chemical reaction solid state ESR / 4.2 crystal structure, magnetic data, electrochemistry, UV-VIS and IR spectroscopy	1.99 $S = 1/2$, coupling of vanadium with unpaired electrons from two ligands	94Bru