

SUPPLEMENTARY INFORMATION

Table S1 Selected bond lengths (Å) and angles (°) for **1** and **2**.

	Bond lengths (Å)		Angles (°)		
	1	2	1	2	
V(1)–O(1)	1.926(3)	1.915(3)	O(2)–V(1)–O(3)	105.86(14)	107.06(13)
V(1)–O(2)	1.614(3)	1.622(3)	O(2)–V(1)–O(1)	102.74(13)	102.08(12)
V(1)–O(3)	1.679(2)	1.667(4)	O(3)–V(1)–O(1)	98.18(12)	97.43(12)
V(1)–O(4)	2.335(3)	2.409(3)	O(2)–V(1)–N(1)	95.09(15)	95.01(13)
V(1)–N(1)	2.144(3)	2.131(3)	O(3)–V(1)–N(1)	92.15(12)	91.95(12)
V(1)–N(2)	2.186(3)	2.183(3)	O(1)–V(1)–N(1)	156.01(15)	157.09(12)
V(1)–V(2)	3.1122(7)	3.2307(7)	O(2)–V(1)–N(2)	95.67(13)	98.35(13)
V(2)–O(3)	2.302(3)	2.437(3)	O(3)–V(1)–N(2)	156.34(12)	152.95(12)
V(2)–O(4)	1.669(2)	1.663(2)	O(1)–V(1)–N(2)	86.26(12)	85.95(11)
V(2)–O(5)	1.927(3)	1.915(3)	N(1)–V(1)–N(2)	76.01(12)	76.47(12)
V(2)–O(6)	1.610(3)	1.623(3)	O(2)–V(1)–O(4)	171.43(12)	171.80(12)
V(2)–N(3)	2.126(3)	2.127(3)	O(3)–V(1)–O(4)	78.18(10)	77.48(10)
V(2)–N(4)	2.154(3)	2.171(3)	O(1)–V(1)–O(4)	83.90(11)	83.82(10)
			N(1)–V(1)–O(4)	77.07(12)	77.85(11)
			N(2)–V(1)–O(4)	79.22(10)	76.21(10)
			C(7)–N(2)–C(6)	119.6(3)	119.9(3)
			O(6)–V(2)–O(4)	106.43(14)	107.89(14)
			O(6)–V(2)–O(5)	100.80(13)	100.92(12)
			O(4)–V(2)–O(5)	99.96(12)	99.27(11)
			O(6)–V(2)–N(3)	93.13(14)	93.88(13)
			O(4)–V(2)–N(3)	91.57(12)	91.21(12)
			O(5)–V(2)–N(3)	158.51(14)	158.19(11)
			O(6)–V(2)–N(4)	98.94(13)	102.77(12)
			O(4)–V(2)–N(4)	152.59(13)	147.70(12)
			O(5)–V(2)–N(4)	85.02(12)	84.46(11)
			N(3)–V(2)–N(4)	76.65(12)	76.65(11)
			O(6)–V(2)–O(3)	171.07(13)	173.07(12)
			O(4)–V(2)–O(3)	79.34(10)	76.72(10)
			O(5)–V(2)–O(3)	84.61(11)	83.15(10)
			N(3)–V(2)–O(3)	79.75(11)	80.71(10)
			N(4)–V(2)–O(3)	74.29(11)	71.86(9)
			C(20)–N(4)–C(19)	119.2(3)	120.3(3)

Table S2 Structures of dinuclear V compounds with ligands acting as tridentate or tetradentate donors selected from the Cambridge Database.

Cambridge Database code	Core	Configuration	Angle V-O-V (°)	Oxidation state of V	Ligand acting as	Reference
ALADEW	[V ₂ O ₄ (μ ₂ -OL) ₂]	Antiparallel- <i>anti</i> -coplanar	—	V-V	tetradentate	<i>J. Biol. Inorg. Chem.</i> 7 , 384 (2002)
AVNLAC	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>J. Chem. Soc., Chem. Commun.</i> 707 (1979)
BECCIV	[V ₂ O ₃] ³⁺	Parallel- <i>syn</i> -angular	149.7	IV-V	tridentate	<i>Inorg. Chem.</i> 38 , 1982 (1999)
BEWDOX	[V ₂ O ₃] ³⁺	Antiparallel (type A)- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Chem. Eur. J.</i> 10 , 2301 (2004)
BIWCAL	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	156	V-V	tridentate	<i>Inorg. Chim. Acta</i> 61 , 121 (1982)
BUPCEU	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	179.5	IV-V	tridentate	<i>Inorg. Chem.</i> 22 , 1168 (1983)
DAGWIR	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	164-169	IV-V	tetradentate	<i>Inorg. Chem.</i> 24 , 1052 (1985)
DEMKEM	[VO(μ ₂ -OR) ₂ VO] ⁴⁺	Antiparallel- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Acta Crystallogr., Sect. E</i> 62 , m1919 (2006)
DEQRUM	[VO(μ ₂ -OR) ₂ VO] ⁴⁺	<i>Anti</i> -orthogonal	—	V-V	tridentate	<i>Inorg. Chem.</i> 38 , 4303 (1999)
DOTQAE	V ₂ O ₂ (OL) ₂	Antiparallel- <i>anti</i> -orthogonal	—	IV-IV	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 1573 (2000)
DUMHUO	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	V-V	tridentate	<i>Aust. J. Chem.</i> 39 , 1081 (1986)
EHLIUC	[VO(μ ₂ -OR) ₂ VO] ⁴⁺	<i>Syn</i> -orthogonal	—	V-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 1813 (2003)
ELUCIC	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	104.2	V-V	tridentate	<i>Eur. J. Org. Chem.</i> 2388 (2003)
FEKGUY	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	IV-IV	tetradentate	<i>Chin. J. Inorg. Chem.</i> 21 , 101 (2005)
FIQFOA	[V ₂ O ₃ (H ₂ O) ₂] ⁴⁺	<i>Twist</i> -angular	151.5	V-V	tridentate	<i>Inorg. Chem. Commun.</i> 2 , 57 (1999)
GAVROL	[VO(μ ₂ -OR) ₂ VO] ⁴⁺	Antiparallel- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Acta Crystallogr., Sect. E</i> 61 , m2214 (2005)
HAKROA	[V ₂ O ₃] ³⁺	Antiparallel (type C)- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Inorg. Chem.</i> 32 , 3855 (1993)
HAZFUJ	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	112.6	V-V	tridentate	<i>Z. Naturforsch., B: Chem. Sci.</i> 48 , 1848 (1993)
HAZFUJ01	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	112.9	V-V	tridentate	<i>Bull. Chem. Soc. Jpn.</i> 73 , 357 (2000)
HENHIS	[V ₂ O ₃] ³⁺	Antiparallel- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Inorg. Chim. Acta</i> 359 , 4557 (2006)
HERCAI	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	117.3	V-V	tridentate	<i>Polyhedron</i> 13 , 2495 (1994)
HOWWAR	[V ₂ O ₃] ³⁺	Linear (polymer)	172.7	IV-V	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 4437 (1999)
IFUSOR	[V ₂ O ₄] ²⁺	Antiparallel- <i>anti</i> -coplanar	—	V-V	tridentate	<i>J. Anorg. Allg. Chem.</i> 628 , 1140 (2002)
IOEPOI	[V ₂ O ₃] ³⁺	Antiparallel- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Chin. J. Inorg. Chem.</i> 20 , 236 (2004)
JEGKUB	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	V-V	tridentate	<i>Inorg. Chem.</i> 29 , 363 (1990)
JICLUC	[V ₂ O ₃] ³⁺	Linear (polymer)	161.5	IV-V	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 61 (1991)
JUYKET	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	107.2	V-V	tridentate	<i>Z. Anorg. Allg. Chem.</i> 619 , 669 (1993)
KACRUB	[V ₂ O ₃] ³⁺	Antiparallel (type A)- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Inorg. Chem.</i> 27 , 4657 (1988)
KERDUG	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	116.2-141.3	V-V	tridentate	<i>Bull. Chem. Soc. Jpn.</i> 62 , 760 (1989)
KEJTUP	[V ₂ O ₄ (μ ₂ -OL) ₂]	Antiparallel- <i>anti</i> -coplanar	—	V-V	tridentate	<i>Inorg. Chem.</i> 45 , 2903 (2006)
KOHOED	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	—	V-V	tridentate	<i>Bull. Chem. Soc. Jpn.</i> 73 , 357 (2000)
LAGGEG	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	IV-IV	tetradentate	<i>Polyhedron</i> 23 , 1975 (2004)
LAVTIL	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	160.8	V-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 2857 (1993)
LIDDAJ	[V ₂ O ₄] ²⁺	Antiparallel- <i>Anti</i> -coplanar	—	V-V	tridentate	<i>Inorg. Chem.</i> 33 , 4669 (1994)
MENLIA	[V ₂ O ₃] ³⁺	<i>Anti</i> -angular	128.3	V-V	tridentate	<i>Eur. J. Inorg. Chem.</i> 1645 (2000)
MIZCON	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 41 , 2243 (2002)
ODUBOE	[V ₂ O ₃] ³⁺	<i>Twist</i> -angular	112.1	V-V	tridentate	<i>Inorg. Chem.</i> 41 , 1684 (2002)
PAQVEI	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 37 , 64 (1998)
PEFCJAI	[V ₂ O ₄ (μ ₂ -OL) ₂]	Antiparallel- <i>anti</i> -orthogonal	—	V-V	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 2383 (1998)
PEHYEG	[V ₂ O ₃] ³⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Chin. J. Struct. Chem.</i> 12 , 79 (1993)
PERGAV	[V ₂ O ₃] ³⁺	Antiparallel- <i>Anti</i> -coplanar	—	V-V	tridentate	<i>Polyhedron</i> 25 , 2809 (2006)
PIKTIN	[V ₂ O ₃] ³⁺	<i>Twist</i>	157.8	V-V	tridentate	<i>Inorg. Chem.</i> 46 , 5483 (2007)

QAYWES	[VO(μ ₂ -OR) ₂ VO] ²⁺	Antiparallel (type A)-anti-coplanar	—	V-V	tridentate	<i>Polyhedron</i> 19 , 2003 (2000)
QUDGIF	[V ₂ O ₇] ²⁺	Antiparallel-anti-coplanar	—	V-V	tridentate	<i>J. Chem. Cryst.</i> 30 , 329 (2000)
REITZUL	[V ₂ O ₇] ²⁺	<i>Twist</i> -angular	113.2	IV-V	tridentate	<i>Inorg. Chem.</i> 36 , 59 (1997)
RIZEFAH	[V ₂ O ₇] ²⁺	Antiparallel (type C)-anti-coplanar	—	V-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 917 (1997)
ROCKID	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 36 , 1657 (1997)
ROQBUI	[V ₂ O ₇] ²⁺	<i>Syn</i> -angular	143.9	IV-V	tridentate	<i>Inorg. Chem.</i> 36 , 4954 (1997)
SOCMIG	[V ₂ O ₇] ²⁺	Linear (polymer)	162.2, 180	IV-V	tetradentate	<i>J. Chem. Soc., Chem. Commun.</i> 827 (1991)
TABMOZ	[V ₂ O ₇] ²⁺	<i>Syn</i> -angular	135.1	IV-V	tridentate	<i>Chem.—Eur. J.</i> 9 , 1805 (2003)
TAWZAS	[V ₂ O ₇ (H ₂ O)] ²⁺	<i>Anti</i> -orthogonal	118	V-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 1989 (1996)
TICKAS	[VO(μ ₂ -OR) ₂ VO] ²⁺	Antiparallel-anti-coplanar	—	IV-IV	tridentate	<i>Inorg. Chim. Acta</i> 360 , 2681 (2007)
THFEI	[V ₂ O ₇] ²⁺	Antiparallel-anti-coplanar	—	V-V	tridentate	<i>Polyhedron</i> 26 , 2713 (2007)
TOZRUI	[V ₂ O ₇] ²⁺	<i>Twist</i> -angular	109.3	V-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 3865 (1996)
TUNXIJ	[V ₂ O ₇] ²⁺	Linear	162.7, 166.6	III-V	tetradentate	<i>Inorg. Chem.</i> 35 , 6634 (1996)
VAYMIR	[VO(μ ₂ -OR) ₂ VO] ²⁺	Antiparallel-anti-coplanar	—	IV-IV	tridentate	<i>Sci. Sin., Ser. B (Engl. Ed.)</i> 31 , 781 (1988)
VEBNEW	[V ₂ O ₇] ²⁺	<i>Syn</i> -linear	167.9	V-V	tridentate	<i>Inorg. Chem.</i> 45 , 1260 (2006)
WIHQEJ	[V ₂ O ₇] ²⁺	Antiparallel-anti-coplanar	—	V-V	tridentate	<i>Inorg. Chem.</i> 39 , 3252 (2000)
XIVJUH	[VO(μ ₂ -OR) ₂ VO] ²⁺	Antiparallel-anti-coplanar	—	V-V	tridentate	<i>J. Coord. Chem.</i> 51 , 55 (2000)
XUMHUI	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	170.9	IV-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 4407 (2002)
YAZGIP	[V ₂ O ₇] ²⁺	Antiparallel-anti-coplanar	—	V-V	tridentate	<i>Inorg. Chem.</i> 32 , 6119 (1993)
ZUFJIOZ	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	165.4	IV-IV	tetradentate	<i>Inorg. Chim. Acta</i> 240 , 217 (1995)
ZUFXIH	[V ₂ O ₇ (μ ₂ -OL) ₂]	Antiparallel-anti-coplanar	—	IV-IV	tetradentate	<i>Angew. Chem., Int. Ed. Engl.</i> 35 , 627 (1996)

Table S3 Dinuclear V compounds with ligands acting as tetradentate donors.

Cambridge Database code	Core	Configuration	Angle V-O-V(°)	Oxidation state of V	Ligand acting as	Reference
AVNLAC	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>J. Chem. Soc., Chem. Commun.</i> 707 (1979)
BUPCEU	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	179.5	IV-V	tetradentate	<i>Inorg. Chem.</i> 22 , 1168 (1983)
DAGWIR	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	164–169	IV-V	tetradentate	<i>Inorg. Chem.</i> 24 , 1052 (1985)
FEKGUY	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-IV	tetradentate	<i>Chin. J. Inorg. Chem.</i> 21 , 101 (2005)
HOWWAR	[V ₂ O ₇] ²⁺	Linear (polymer)	172.7	IV-V	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 4437 (1999)
JICLUC	[V ₂ O ₇] ²⁺	Linear (polymer)	161.5	IV-V	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 61 (1991)
LAGGEG	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-IV	tetradentate	<i>Polyhedron</i> 23 , 1975 (2004)
MIZCON	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 41 , 2243 (2002)*
PAQVEI	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 37 , 64 (1998)*
PEHYEG	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Chinese J. Struct. Chem.</i> 12 , 79 (1993)
ROCKID	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 36 , 1657 (1997)
SOCMIG	[V ₂ O ₇] ²⁺	Linear (polymer)	162.2, 180	IV-V	tetradentate	<i>J. Chem. Soc., Chem. Commun.</i> 827 (1991)
ZUFJIOZ	[V ₂ O ₇] ²⁺	<i>Anti</i> -linear	165.4	IV-V	tetradentate	<i>Inorg. Chim. Acta</i> 240 , 217 (1995)*

Table S4 Dinuclear V cores with *twist*-angular configuration.

Cambridge Database code	Core	Configuration	Angle V-O-V(°)	Oxidation state of V	Ligand acting as	Reference
BIWCAL	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	156	V-V	tridentate	<i>Inorg. Chim. Acta</i> 61 , 121 (1982)
EJUCIC	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	104.2	V-V	tridentate	<i>Eur. J. Org. Chem.</i> 2388 (2003)
FIQFOA	[V ₂ O ₃ (H ₂ O) ₂] ⁴⁺	<i>Twist</i> -angular	151.5	V-V	tridentate	<i>Inorg. Chem. Commun.</i> 2 , 577 (1999)
HAZFUJ	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	112.6	V-V	tridentate	<i>Z. Naturforsch., B: Chem. Sci.</i> 48 , 1848 (1993)
HAZFUJ01	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	112.9	V-V	tridentate	<i>Bull. Chem. Soc. Jpn.</i> 73 , 357 (2000)
HERCAI	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	117.3	V-V	tridentate	<i>Polyhedron</i> 13 , 2495 (1994)
JUYKET	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	107.2	V-V	tridentate	<i>Z. Anorg. Allg. Chem.</i> 619 , 669 (1993)
KERDUG	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	116.2-141.3	V-V	tridentate	<i>Bull. Chem. Soc. Jpn.</i> 62 , 760 (1989)
KOHQED	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	112.9	V-V	tridentate	<i>Bull. Chem. Soc. Jpn.</i> 73 , 357 (2000)
ODUBOE	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	112.1	V-V	tridentate	<i>Inorg. Chem.</i> 41 , 1684 (2002)
PIKTIN	[V ₂ O ₃] ⁴⁺	Twist	157.8	V-V	tridentate	<i>Inorg. Chem.</i> 46 , 5483 (2007)
RETZUL	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	113.2	IV-V	tridentate	<i>Inorg. Chem.</i> 36 , 59 (1997)
TAWZAS	[V ₂ O ₃ (H ₂ O)] ⁴⁺	<i>Twist</i> -angular	118	V-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 1989 (1996)
TOZRUI	[V ₂ O ₃] ⁴⁺	<i>Twist</i> -angular	109.3	V-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 3865 (1996)

Table S5 Mixed-valence dinuclear V complexes with the $[\text{V}_2\text{O}_3]^{3+}$ core.

Cambridge Database code	Core	Configuration	Angle V-O-V(°)	Oxidation state of V	Ligand acting as	Reference
AVNLAC	$[\text{V}_2\text{O}_3]^{3+}$	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>J. Chem. Soc., Chem. Commun.</i> 707 (1979)
BECCIV ^a	$[\text{V}_2\text{O}_3]^{3+}$	<i>Syn</i> -angular	149.7	IV-V	tridentate	<i>Inorg. Chem.</i> 38, 1982 (1999)
DAGWIR	$[\text{V}_2\text{O}_3]^{3+}$	<i>Anti</i> -linear	164–169	IV-V	tetradentate	<i>Inorg. Chem.</i> 24, 1052 (1985)
HOWWAR	$[\text{V}_2\text{O}_3]^{3+}$	Linear (polymer)	172.7	IV-V	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 4437 (1999)
JCLUC	$[\text{V}_2\text{O}_3]^{3+}$	Linear (polymer)	161.5	IV-V	tetradentate	<i>J. Chem. Soc., Dalton Trans.</i> 61 (1991)
MIZCON	$[\text{V}_2\text{O}_3]^{3+}$	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 41, 2243 (2002) ^b
PAQVEI	$[\text{V}_2\text{O}_3]^{3+}$	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 37, 64 (1998) ^a
PEHYEG	$[\text{V}_2\text{O}_3]^{3+}$	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Chin. J. Struct. Chem.</i> 12, 79 (1993)
RETZUL ^b	$[\text{V}_2\text{O}_3]^{3+}$	<i>Twist</i> -angular	113.2	IV-V	tridentate	<i>Inorg. Chem.</i> 36, 59 (1997)
ROCKID	$[\text{V}_2\text{O}_3]^{3+}$	<i>Anti</i> -linear	180	IV-V	tetradentate	<i>Inorg. Chem.</i> 36, 1657 (1997)
ROOBUL ^a	$[\text{V}_2\text{O}_3]^{3+}$	<i>Syn</i> -angular	143.9	IV-V	tridentate	<i>Inorg. Chem.</i> 36, 4954 (1997)
SOCMIG	$[\text{V}_2\text{O}_3]^{3+}$	Linear (polymer)	162.2, 180	IV-V	tetradentate	<i>J. Chem. Soc., Chem. Commun.</i> 827 (1991)
TABMOZ ^a	$[\text{V}_2\text{O}_3]^{3+}$	<i>Syn</i> -angular	135.1	IV-V	tridentate	<i>Chem. Eur. J.</i> 9, 1805 (2003)
XUMHUI ^c	$[\text{V}_2\text{O}_3]^{3+}$	<i>Anti</i> -linear	170.9	IV-V	tridentate	<i>J. Chem. Soc., Dalton Trans.</i> 4407 (2002)

^aThe compound contains sulfur donor atoms.^bThe complex was generated in solution by electroreduction at constant potential of the corresponding $[\text{V}_2\text{O}_3]^{4+}$ congener.^cThe compound contains Na^+ as counterion in the crystal structure (it was obtained from a sodium acetate-containing solution).