

Supporting Information

Thermal stable vanadium complexes supported by the iminophenyl oxazolinylphenylamines ligands: Synthesis, characterization and application for ethylene (co-)polymerization

Ruiyao Wu,^{a,b} Zhen Niu,^{a,b} Lingyun Huang,^{a,b} Yinxin Yang,^{a,b} Zhu Xia,^{a,b} Weifeng Fan,^a Quanquan Dai,^a
Long Cui,^a Jianyun He,^{*a} Chenxi Bai^{*a,b}

^a Key Laboratory of High-Performance Synthetic Rubber and Its Composite Materials, Changchun
Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022, China

^b University of Science and Technology of China, 230026, Hefei, Anhui, China

Complexes	V2	V3
Formula	C ₂₉ H ₃₂ ClN ₃ O ₂ V	C ₃₁ H ₃₆ ClN ₃ O ₂ V
Formula weight	540.97	569.02
Crystal system	Orthorhombic	Orthorhombic
Space group	P2(1)2(1)2(1)	P2(1)2(1)2(1)
a (Å)	9.6136(5)	10.0346(4)
b (Å)	16.7986(10)	16.8085(7)
c (Å)	17.1214(8)	17.3076(6)
α(°)	90	90
β(°)	90	90
γ(°)	90	90
Volume (Å ³)	2765.0(3)	2919.2(2)
Z	4	4
Calculated density (mg m ⁻³)	1.300	1.295
Absorption coefficient(mm ⁻¹)	0.485	0.463
F(0 0 0)	1132	1196
θ _{max} (°)	30.11	33.69
Collected reflections	34347	42710
Unique reflections	8074	11557
R _{int}	0.0619	0.0500
Goodness-of-fit (GOF)	1.037	1.011
R1	0.0566	0.0479
wR2	0.1141	0.0953
Largest difference in peak and hole (e Å ⁻³)	0.541, -0.528	0.432,-0.518

Table S1 Summary of crystallographic data for complexes V2 and V3.