

Supporting Information

Synthesis and Characterization of Conjugated Diallenes and their Binuclear Ruthenium η^3 -Allyl Complexes

Jian-Long Xia, Xianghua Wu, Yinghui Lu, Gang Chen, Shan Jin, Guang-ao Yu, Sheng Hua Liu*

Key Laboratory of Pesticide and Chemical Biology, Ministry of Education, College of Chemistry, Central China Normal University, Wuhan 430079, People's Republic of China

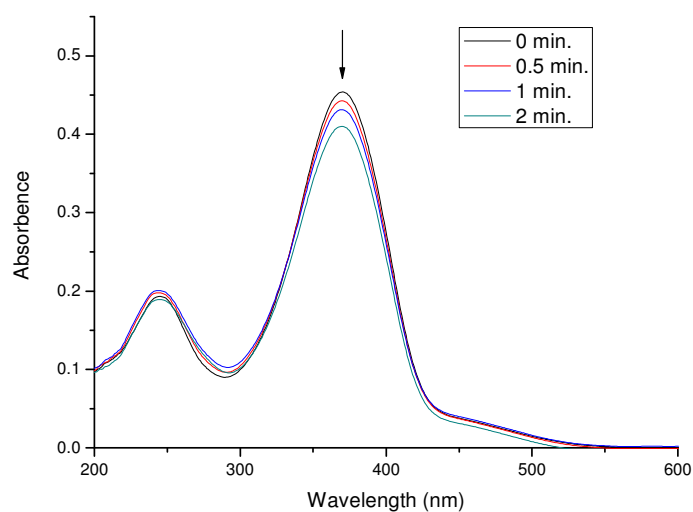


Figure S1 UV/Vis absorption spectral change of compound **4** (1×10^{-5} mol/L) in CH_2Cl_2 upon the UV light irradiation at 0, 0.5, 1, 2 min..

Table S1. Bond lengths (Å) and angles (°) for compound **4**.

C(1)-C(2)	1.374(2)
C(1)-C(6)	1.387(2)
C(1)-N(1)	1.423(2)
C(2)-C(3)	1.370(3)
C(2)-H(2)	0.9300
C(3)-C(4)	1.394(2)
C(3)-H(3)	0.9300
C(4)-C(5)	1.385(2)
C(4)-C(7)	1.467(3)
C(5)-C(6)	1.373(2)
C(5)-H(5)	0.9300
C(6)-H(6)	0.9300
C(7)-C(8)	1.302(2)
C(7)-H(7)	1.0507
C(8)-C(9)	1.283(3)
C(9)-H(9A)	0.9603
C(9)-H(9B)	1.0691
N(1)-N(1)#1	1.251(3)
C(2)-C(1)-C(6)	118.98(18)
C(2)-C(1)-N(1)	116.44(16)
C(6)-C(1)-N(1)	124.57(16)
C(3)-C(2)-C(1)	121.01(17)
C(3)-C(2)-H(2)	119.5
C(1)-C(2)-H(2)	119.5
C(2)-C(3)-C(4)	120.88(17)
C(2)-C(3)-H(3)	119.6
C(4)-C(3)-H(3)	119.6
C(5)-C(4)-C(3)	117.41(18)
C(5)-C(4)-C(7)	120.35(18)
C(3)-C(4)-C(7)	122.21(16)
C(6)-C(5)-C(4)	121.85(17)
C(6)-C(5)-H(5)	119.1
C(4)-C(5)-H(5)	119.1
C(5)-C(6)-C(1)	119.86(16)

C(5)-C(6)-H(6)	120.1
C(1)-C(6)-H(6)	120.1
C(8)-C(7)-C(4)	125.91(18)
C(8)-C(7)-H(7)	120.1
C(4)-C(7)-H(7)	113.8
C(9)-C(8)-C(7)	179.4(2)
C(8)-C(9)-H(9A)	133.6
C(8)-C(9)-H(9B)	121.0
H(9A)-C(9)-H(9B)	102.7
N(1)#1-N(1)-C(1)	114.56(18)
