SUPPORTING INFORMATION

Reaction of Trihydridostannyl Complexes with SO₂: Preparation of [Re₂(Sn₂(µ-S)(µ-SO₃))₂- (CO)₄L₂{PPh(OEt)₂}] [L = PPh(OEt)₂, (CH₃)₃CNC]

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Figure S1. View of compound $\text{[Re}_2\text{Sn}_2(\mu-S)(\mu-\text{SO}_3)_2\text{]}(\text{CO})_4\text{[}(\text{CH}_3)_3\text{CNC}]_2\text{[PPh(\text{OEt})_2]}_2$ (2) drawn at 20% probability level, where the phenyl rings and the ethoxy groups are not drawn.

Figure S2. View of the bridging di-tin ligand for $\text{[Re}_2\text{Sn}_2(\mu-S)(\mu-\text{SO}_3)_2\text{]}(\text{CO})_4\text{[PPh(\text{OEt})_2]}_2$ (1).
Figure S3. View along the Re-Re axis the molecules (left 1, right 2). Some atoms were not drawn for clarity.
Figure S4. $^{119}$Sn$^1$H NMR spectrum of complex [Re$_2$(Sn$_2$(µ-S)(µ-SO$_3$)$_2$)(CO)$_4$(PPh(OEt)$_2$)$_6$] (1), experimental (low), and simulated (up).
Figure S5. $^{119}\text{Sn}^1\text{H}$ NMR spectrum of complex $[\text{Re}_2\{\text{Sn}_2(\mu-S)(\mu-SO_3)_2\}(\text{CO})_4(\text{CH}_3\text{CNC})_2\{\text{PPh(OEt)}_2\}_4]\ (2)$, experimental (low), and simulated (up).