

Erratum

Erratum to 'Reactions of (trimethylsilyl)tetramethylcyclopentadiene with (benzene)titanium(II) bis(tetrachloroaluminate). Crystal structures of $[C_5Me_4(SiMe_3)]Ti(AlCl_4)_2$ and $\{[C_5Me_4(SiMe_3)]Ti(AlCl_4)(\mu-Cl)\}_2$ [J. Organomet. Chem. 552 (1998) 75]¹'

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The publisher regrets that the following paragraph was omitted from page 79 of this paper.

The molecular structure of turquoise compound **3** had been determined by the X-ray crystal analysis (vide infra). The EDX measurement gave the Ti:Al:Si ratio equal to 1:1:1 and the chemical analysis afforded the ratio Ti:Al:Cl as 1:1:5. The IR absorption band of the $[AlCl_4]$ ligand at 490 cm^{-1} is about twice weaker than the analogous band in **2** when the intensity of the band at 1250 cm^{-1} is taken as a reference. The silence of the compound in ESR spectroscopy of its toluene solution and the toluene glass indicates that the system of two Ti(III) d^1 electrons has paired spins. At variance with dimeric titanocene monochlorides $[(C_5H_{5-n}Me_n)_2Ti(\mu-Cl)]_2$ ($n = 0-2$) which form the electronic triplet state [22, 23] the titanium chloro-bridged dimers containing only one cyclopentadienyl ligand per one Ti center are known to form the diamagnetic singlet state [24, 25]. Compounds **2** and **3** apparently arise from subsequent reactions of **1** which is primarily formed in rapid redox reaction (2). The formation of **2** requires the replacement of one $[AlCl_4]$ ligand by one $C_5Me_4(SiMe_3)$ ligand including the hydrogen transfer from $C_5HMe_4(SiMe_3)$ to give an elusive complex acid $H^+[AlCl_4]^-$ (Eq. (3)).

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