

Non-heme iron(II) complexes are efficient olefin aziridination catalysts

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Synthetic details and characterization data for **1**

[(Me₅dien)Fe(O₃SCF₃)₂] (**1**): Fe(CF₃SO₃)₂·2CH₃CN (0.3547 g, 0.000814 mol) and Me₅dien (0.1389 g, 0.000802 mol) were combined in THF (5 ml) and stirred until a clear solution was obtained. A small amount of Et₂O was added to this solution, resulting in the deposition of a brown solid. This solid was removed by filtration, and the filtrate was treated with a large volume of Et₂O (> 10 ml) to provide the product, **1**, as a white solid, (0.262 g, 62%). ¹H NMR (400 MHz, CD₃CN) δ 138.6 (6H), 123.4 (2H), 107.9 (6H), 92.4 (3H), 81.0 (2H), 80.2 (2H), 59.0 (2H) ppm; μ_{eff}(solid, 25 °C) = 4.97 μ_B; FTIR (KBr, cm⁻¹) 2980, 2885, 1472, 1264, 1161, 1027, 936, 802, 633, 577, 521; Anal. Calcd for C₁₁H₂₃F₆FeN₃O₆S₂: C, 25.06; H, 4.40; N, 7.97. Found: C, 24.65; H, 4.52; N, 7.80.