

Synthesis and Structures of Monocyclopentadienylniobium Complexes with Bi and Tridentate Dithiolate Ligands.

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NMR Spectra of compounds 1 AND 2 in *d*₈-toluene

[Nb(η -C₅H₅)(1,3-S₂C₃H₆)₂] 1.

¹H NMR (C₆D₅CD₃, 400 MHz, 30°C); δ 1.79 & 1.85 (m, AB system, 4H, SCH₂CH₂), 3.55 (m, AA' component, 4H, SCHH), 4.00 (m, BB' component, 4H, SCHH); 5.81 (s, 5H, C₅H₅).

[Nb(η -C₅H₄CH₃)(1,3-S₂C₃H₆)₂] 2.

¹H NMR (C₆D₅CD₃, 400 MHz, 30°C); δ 1.81 & 1.87 (AB system, 4H, SCH₂CH₂), 1.94 (s, 3H, CH₃); 3.57 (m, AA' component, 4H, SCHH), 4.00 (m, BB' component, 4H, SCHH); 5.74 & 5.79 (AA'BB' system, 4H, C₅H₄Me).

¹³C{¹H}NMR (C₆D₅CD₃, 50.3 MHz, 17°C); δ 15.6 (CH₃), 25.7 (SCH₂CH₂), 40.8 (SCH₂), 110.0 (CH, Cp'), 112.9 (CH, Cp'), (C-1, Cp', obscured by solvent).