Abstract

The reaction of 2 mol equiv. of $[Mo(NO){HB(dmpz)_3}X_2]$ ((HBdmpz)₃ = tris(3,5dimethylpyrazolyl)borate; X = Cl or I) with Schiff base ligands derived by condensation of 2 mol of paraand *meta*-hydroxybenzaldehyde with $1,4-C_6H_4(NH_2)_2$ and equiv. 1.6-NH₂(CH₂)₆NH₂ afforded monometallic complexes [Mo(NO) {H(dmpz3)} X(OC6H4 CHO)]. Sodium borohydride reduction of the Schiff bases obtained from the hydroxybenzaldehydes and 1,4-C₆H₄(NH₂)₂ followed by reaction with [Mo(NO){HB(dmpz)₃ Cl₂}] afforded the bimetallic $[\{Mo(NO)HB(dmpz)_3\}Cl\{(OC_6H_4CH_2NH)_2C_6H_4\}].$ These compounds were species characterized spectroscopically and the structure of a closely related compound, $[Mo(NO){HB(dmpz)_3}Cl{OC_6H_3(3-CHO)(4-OH)}]$, has been determined crystallographically.