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The Amido and Bisalkoxo-Complexes of [Tri(3,5-Dimethylpyrazolyl)Borato]Molybdenum Nitrosyl

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Abstract: In this study, the amido nitrosyl molybdenum complex, $[\text{Mo}\{\text{HM}(3,5\text{-Me}_2\text{C}_3\text{HN}_2)_3\}(\text{NO})\text{Cl}(\text{NH}_2)]$, was prepared. This compound reacts with alcohols, yielding the bisalkoxo complexes, $[\text{Mo}\{\text{HM}(3,5\text{-Me}_2\text{C}_3\text{HN}_2)_3\}(\text{NO})(\text{OR})_2]$ ($\text{R} = \text{Me}, \text{Et}, \text{Pr}^n, \text{Bu}^n$). The new complexes were analyzed by IR and $^1\text{H-NMR}$ spectroscopy.

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