

Syntheses and Structures of $[\text{Cp}^*\text{Rh}(\eta^1\text{-NO}_3)(\eta^2\text{-NO}_3)]$
and $[\text{Cp}^*\text{Rh}(\eta^1\text{-NO}_3)]_2(\mu\text{-N}_3)_2$

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$[\text{Cp}^*\text{RhCl}]_2(\mu\text{-Cl})_2$ (1) reacted with AgNO_3 in a mixed solvent of acetone-dichloromethane at room temperature to give a Rh(III)-nitrate compound, $[\text{Cp}^*\text{Rh}(\eta^1\text{-NO}_3)(\eta^2\text{-NO}_3)]$ (2), in which the nitrates show both unidentate and bidentate bonding modes. Compound 2 reacted with NaN_3 in dichloromethane to give a Rh(III) dimeric compound, $[\text{Cp}^*\text{Rh}(\eta^1\text{-NO}_3)]_2(\mu\text{-N}_3)_2$ (3). Compounds 2 and 3 have been structurally characterized by X-ray diffraction.

