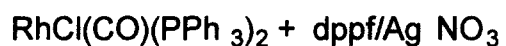


Four-Coordinate, 16-Electron Rhodium (I)
Compound: Synthesis and Structure of
 $[\text{Rh}(\eta^2\text{-NO}_3\text{-}O,O')(\text{PPh}_3)_2]$

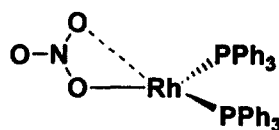
한원석, 이순원

성균관대학교 이과대학 화학과

$\text{RhCl}(\text{CO})(\text{PPh}_3)_2$ (**1**) reacted with dppf (1,1'-bis(diphenylphosphino)ferrocene [$\text{Fe}(\eta^5\text{-C}_5\text{H}_4\text{PPh}_2)_2$]) in the presence of AgNO_3 in a mixed solvent of acetone-dichloromethane to give $\text{Rh}(\text{NO}_3\text{-}O)(\text{PPh}_3)_2$ (**2**). The product was recrystallized from CH_2Cl_2 -hexane. Crystallographic data for **2**: triclinic space group $\overline{P}1$, $a = 11.815(1)$ Å, $b = 11.998(1)$ Å, $c = 13.639(1)$ Å, $\alpha = 102.049(8)^\circ$, $\beta = 112.779(7)^\circ$, $\gamma = 105.270(7)^\circ$, $Z = 2$, $R(wR_2) = 0.0365(0.0886)$.



1



2