

Carbonyl rhodium(I) and ruthenium(II) complexes with water soluble phosphines.

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New rhodium (I) carbonyl and ruthenium (II) complexes with phosphines soluble in water: 1, 3, 5-triaza-7-phosphatricyclo [3.3. 1.1 3, 7] decane, tris (hydroxy-methyl) phosphine and tris (2-cyanoethyl) phosphine, have been prepared. The RhCl (CO) (PR 3) 2 compounds possessing trans square-planar structure and ruthenium (II) complexes are five and six-coordinate. The IR spectra show that in RuCl 2 (CO) 2-(P (CH 2 CN 3)) 2 complex, carbonyl ligands are in trans coordination sites. In the case of [RhCl (CO)(PR 3) 2] complexes, the dependence of $\Delta\delta$ (31 P) is inversely proportional to the $\Delta\nu = \nu$ CO-.