Electron paramagnetic resonance study on radiation reduction of dirhodium(II) $[Rh_2(O_2CR)_4]$ and $[Rh_2Cl_2(O_2CR)_2(N—N)_2]$ complexes.

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Streszczenie

Rhodium(II) complexes $[Rh_2(O_2CR)_4L_2]$ and $[Rh_2Cl_2(O_2CR)_2(N□N)_2]$ (R = H, Me, (*S*)-PhCHOH, (N□N) = 2,2′-bipyridine, 1,10-phenanthroline, L = solvent) in various solvents were reduced using ^{60}Co γ-rays. The resulting unstable species were detected and characterized by EPR spectroscopy. The main products of reduction were axially symmetric complexes containing the Rh_2^{3+} core: $[Rh_2(O_2CR)_4L_2]^-$ and $[Rh_2Cl(O_2CR)_2(N□N)_2L]$.

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