



X-ray and electrochemical characterization of high-spin cobalt(II) triazene-1-oxide complexes. Molecular structure of bis[3-(2-methoxyphenyl)-1-ethyltriazene-1-olato]cobalt(II).

Autorzy

Mikołaj F. Rudolf
Zbigniew Ciunik
Kazimierz Gatner
Juliusz A. Wolny

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Streszczenie

The X-ray crystal structure of the title compound was determined. The complex displays strongly distorted octahedral geometry with weak bonds between the methoxy group oxygens and the central ion. The related complex with *ortho*-chlorine substituted ligands was shown to undergo conversion to the low-spin, square-planar isomer upon doping to the lattice of its nickel(II) analogue. Cyclic voltammetry measurements showed that the oxidation potentials of the high-spin, pseudo-octahedral cobalt(II) complexes of triazene-I-oxides are ca 0.1–0.2 V higher than those found for low-spin, square-planar cobalt(II) bis-chelates thereof.

Adres publiczny

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