Turkish Journal of Chemistry

Turkish Journal

Crystal Structure of cis-bis(N,N-dimethyl-N'-benzoylthioureato)palladium(II)

of

Chemistry

Göktürk AVŞAR, Hakan ARSLAN
Department of Chemistry, Faculty of Arts and Sciences,
Mersin University, Mersin-TURKEY
e-mail: arslanh@mersin.edu.tr
Hans-Jurgen HAUPT
Department of Inorganic and Analytical Chemistry,
University of Paderborn, Paderborn-GERMANY
Nevzat KÜLCÜ

Department of Chemistry, Faculty of Arts and Sciences,
Mersin University, Mersin-TURKEY

Keywords Authors



chem@tubitak.gov.tr

Scientific Journals Home Page <u>Abstract:</u> In this study cis-bis(N,N-dimethyl-N'-benzoylthioureato) palladium(II) is synthesised and the crystal structure is determined by X-ray diffraction methods. It crystallises in the space group $P2_1/c$, with a=11.943(1) Å, b=11.713(1) Å, c=15.345(1) Å, b=93.90(1)°, and $b_{calc}=1.616$ g cm⁻¹ for Z = 4. The Pd(II) atom is in a four-coordinate geometry consisting of two thiocarbonyl S and two carbonyl O atoms from two ligand groups. The Pd-S and Pd-O bond lengths are 2.2313(6) and 2.0211(16) Å, respectively.

Key Words: Complex, X-ray structure, single crystal, N,N-dimethyl-N'- benzoylthiourea

Turk. J. Chem., 27, (2003), 281-286.

Full text: pdf

Other articles published in the same issue: Turk. J. Chem., vol. 27, iss. 3.