

Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

[Pd(Me-Xanthate)₂]: Synthesis, Characterization, and X-Ray Structure

Saira SHAHZADI¹, Saqib ALI², Rehana JABEEN² and M. Kaleem KHOSA¹

¹Department of Chemistry, GC University, Faisalabad-PAKISTAN

e-mail: drsa54@yahoo.com

²Department of Chemistry, Quaid-i-Azam University, Islamabad-PAKISTAN

e-mail: sairashahzadi@yahoo.com

 [Keywords](#)
 [Authors](#)



chem@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Abstract: Potassium methyl xanthate and its complex [Pd(Me-Xanthate)₂] were synthesized at room temperature under stirring conditions. The ligand and the complex were characterized by elemental analysis, IR, NMR (¹H, ¹³C) and XRD. NMR data revealed that potassium methyl xanthate acts as a bidentate specie and the complex exhibits 4-coordinated geometry in solution. In solid state, the palladium atom is coordinated to the 2 sulfur atoms of the xanthate ligand and the complex exhibits distorted square planar geometry.

Key Words: Palladium(II) xanthate, spectroscopy, X-ray structure

Turk. J. Chem., **33**, (2009), 307-312.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Chem..vol.33.iss.2.](#)