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Full Paper

A new and convenient method for the preparation of 2,7-dihydro-1H-dibenzo[c,e]tellurepin: Reactions and ligand properties

Ali Z. Al-Rubaie, Asmahan Y. Al-Marzook, Shakeer A. N. Al-Jadaan

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Abstract

Treatment of 2,2'-bis(bromomethyl)biphenyl with potassium tellurocyanate in dry DMSO gave 1,7-dihydro-1H-dibenzo[c,e]tellurepin (**1**) in 60% yield as an unexpected product. The following new derivatives of **1** have been prepared: C₁₄H₁₂TeCl₂ (**2**), C₁₄H₁₂TeBr₂ (**3**), C₁₄H₁₂TeI₂ (**4**), C₁₄H₁₂Te(CH₃)I (**5**) and C₁₄H₁₂Te(C₂H₅)I (**6**).

Mononuclear and dinuclear palladium complexes [*i.e.* (C₁₄H₁₂)₂PdCl₂ (**7**) and [(C₁₄H₁₂Te)PdCl₂]₂ (**8**)] were prepared by the reaction of **1** with PdCl₂(PhCN)₂ and Na₂PdCl₄, respectively. Reaction of RhCl₃ · 3H₂O with an excess of **1** gave the monomeric Rh(I) complex, (C₁₄H₁₂Te)₃RhCl (**9**). Compound **1** readily forms a 1: 1 charge-transfer complex with TCNE while it reduces the carbonyl groups in DDQ and TCQ to hydroxyl groups. Conductivity, UV-Vis, IR and ¹H- and ¹³C-NMR data for the new compounds are presented and discussed.

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