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Journal of Organometallic Chemistry Volume 689, Issue 14, 15 July 2004, Pages 2377-2381

Synthesis and characterization of 2,7-dihydro-1*H*-dinaphtho[c,e]tellurepin: a new heterocyclic telluride

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https://doi.org/10.1016/j.jorganchem.2004.04.028

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Abstract

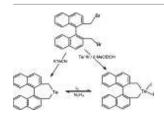
Synthesis of the racemic cyclic telluride, i.e., 2,7-dihydro-1*H*-dinaphtho-[c,e]tellurepin (1), possessing a C₂ axis was based on the reaction of 2,2′-bis(bromomethyl)-1,1′-binaphthalene with potassium tellurocyanate in dry DMSO. Reaction of halogens with 1 gave the diiodo (2), dibromo (3) and dichloro (4) derivatives. Treatment of 1 with iodomethane and iodoethane gave the methyl- and ethyl tellurepinium iodides, 5 and 6, respectively.

Compound **1** reduced the carbonyl groups in DDQ and TCQ to hydroxyl groups. Mononuclear palladium(II) complex, $[(C_{22}H_{16}Te)_2PdCl_2]$, was prepared by reaction of **1** with $[PdCl_2(NCPh)_2]$.

All new compounds were characterized by elemental analysis and spectroscopic techniques.

Synthesis of a chiral cyclic telluride (i.e., 2,7-dihydro-1H-dinaphtho[c,e]tellurepin (1)) is reported, together with its dihalo and tellurepinium derivatives. Compound 1 reduced the carbonyl groups in DDQ and TCQ to hydroxyl groups. [($C_{22}H_{16}Te$)₂PdCl₂] was prepared by reaction of 1 with [PdCl₂(NCPh)₂].

All new compounds were characterized by elemental analysis and spectroscopic techniques.



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Keywords

Tellurocyanate; Tellurepin; Chirality; Palladium(II); DDQ; TCQ

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