

## Structure, properties and cytostatic activity of triorganotin (aminoaryl)carboxylates.

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### Streszczenie

The properties of vinyltin and phenyltin complexes  $[\text{Sn}(\text{CH}=\text{CH}_2)_3\{\mu\text{-OOC}\text{C}_6\text{H}_3(\text{NH}_2)_{2-3,4}\}]_n$  (**1**),  $[\text{Sn}(\text{C}_6\text{H}_5)_3\{\text{OOC}\text{C}_6\text{H}_3(\text{NH}_2)_{2-3,4}\}]$  (**2**),  $[\text{Sn}(\text{C}_6\text{H}_5)_3\{\text{OOC-2-C}_6\text{H}_4\text{N}=\text{NC}_6\text{H}_4\text{N}(\text{CH}_3)_{2-4}\}]$  (**3**) and  $[\text{Sn}(\text{CH}=\text{CH}_2)_3\{\text{OOC-2-C}_6\text{H}_4\text{N}=\text{NC}_6\text{H}_4\text{N}(\text{CH}_3)_{2-4}\}]$  (**4**) have been investigated. The structures of complexes **1**, **2**, and **3**, have been determined by X-ray crystallography. Compound **1** is a distorted trigonal-bipyramidal complex and compounds **2** and **3** adopt a distorted tetrahedral structure. Complex **1** is a single-strand polymer with a bridging 3,4-diaminobenzoato ligand coordinating via the O(1) atom of the carboxylato group and the nitrogen atom of the *para*-amino group. The oxygen and nitrogen atoms occupy the axial coordination sites. The Sn(1)–N(2A) bond is weak. In complexes **2** and **3** the carboxylato ligands are strongly coordinated to the central atom via one oxygen atom, and the Sn(1)–O(2) distances are considerably longer. Weak interactions of the central atom with the amino group in complex **1**, and with the O(2) atoms in complexes **2** and **3**, as well as the hydrogen bonds, stabilize the crystal structure. The complexes are effective cytostatic agents.

### Adres publiczny

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