Synthesis and crystal structure of an Ag(I) complex of composition $(C_9H_7N(C_3H_5))_2[AgBr_2]Br(H_2O)_2$.

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Streszczenie

The crystalline complex (C9H7N(C3H5))2[AgBr2]Br(H2O)2 has been obtained and structurally investigated byX-ray diffraction: space group I-42d, Z = 8, a = 26.903(6), c = 7.090(2) Å, V = 5132(2) Å3, Dx = 1.784 g· cm−3, number of independent reflection 6295, reliability factors R = 0.022, wR = 0.039. The coordination mode of the Ag(I) atom includes four bromine atoms. The crystal structure contains distinct polymeric anionic chains {AgBr2}+nn and isolated Br– anion, which are connected to the N-allylquinolinium cations and water molecules through electrostatic forces and hydrogen bonds.

Słowa kluczowe

Silver(I), σ-Complexes, N-Allyl derivatives, Quinoline, Crys tal structure