CRYSTAL STRUCTURE OF SALTS OF INDOLE ALKALOID NORFLUOROCURARINE

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Single crystal XRD is used to study the crystals of salts of indole alkaloid norfluorocurarine: hydrochloride recrystallized from absolute alcohol, dihydrate hydrochloride recrystallized from water, methochloride monohydrate recrystallized from water, solvate form of methochloride obtained from ethanol, and methobromide monohydrate. Intra- and intermolecular hydrogen bonds are analyzed in these crystals. The crystal structures of norfluorocurarine methochloride and methobromide monohydrates are isomorphic. In norfluorocurarine salts, the orientation of the carbonyl group is determined by the intramolecular C19=O…H–N1 hydrogen bond that is absent in the solvate form with ethanol.

Keywords: indole alkaloid, norfluorocurarine, salt forms, X-ray crystallography.