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## THE SYNTHESIS OF NEW DICARBOXYLATE PHOSPHOBETAINES ON THE BASIS OF 3-(DIPHENYLPHOSPHINO)PROPIONIC AND CINNAMIC ACIDS

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Interaction of 3-(diphenylphosphonio)propionic acid with unsaturated derivatives of cinnamic acids leads to formation of stable dicarboxylate phosphabetaines 1 (a-d).

Novel synthesized dicarboxylaled phosphabetaines 1 (a-d) are not soluble in water and in most organic solvents which makes it difficult to perform NMR studies. In order to establish the structure of synthesized compounds dicarboxylaled phosphabetaines were included in reaction with 0.1 M solution of the hydrochloric acid. As a result phosphonium salts were isolated and characterized 2(a-d). The structure of compounds was proved by IR, <sup>1</sup>H NMR, <sup>13</sup>C NMR and <sup>31</sup>P NMR spectral studies. Results of X-ray diffraction analysis were received for phosphonium salt 2c (Fig.1).

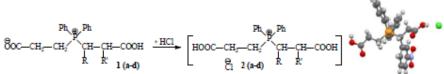


Figure 1. Molecular structure of (2-carboxy-1-(3-nitrophenyl)ethyl)(2-carboxyethyl)diphenylphosphoniun chloride 2

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