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There have been reports of the synthesis of mesomorphic phosphorus-containing metal complexes [1] and polyphosphazenes [2]. However, the type of meso phase for these compounds was not established. We obtained the first organophosphorus compound possessing nematic (N) and smectic (S) meso phases. The product was obtained according to the following scheme:

$$\begin{array}{c} (C_4H_9O)_2P(O)Cl + OH & CHO \rightarrow (C_4H_9O)_2P(O)O & CHO + HCl \\ (C_4H_9O)_2P(O)O & CHO + H_2N & O(O)C & OC_{10}H_{21} \rightarrow \\ \rightarrow (C_4H_9O)_2P(O)O & CH=N & O(O)C & OC_{10}H_{21} + H_2O \end{array}$$

0,0'-Dibutyl-O-(p-formyl)phenyl ester of phosphoric acid was obtained from 1.36 g (0.011 mole) p-hydroxybenzaldehyde and 2.56 g (0.011 mole) dibutylphosphoryl chloride by heating these compounds at reflux in benzene for 3 h in an argon stream. At the end of the reaction, benzene was distilled off in vacuum and the precipitate formed was recrystallized from benzene to give 2.1 g (53.6%) product, mp 104°C,  $\delta$  <sup>31</sup>P: -3 ppm.

<u>O,O'-Dibutyl-O-(4-decycloxybenzoate)-4-imino(phenyl)benzylidenephosphoric Acid.</u> A benzene solution of 1.42 g (0.004 mole) 4-decycloxybenzoate 4-aminophenol was added to a benzene solution of 1.32 g (0.004 mole) 0,O'-dibutyl-O-(p-formyl)phenyl esters of phosphoric acid. After heating for 15 min at reflux, the solution was cooled and yellow crystals were separated. This precipitate was recrystallized from benzene to give 1.9 g (69.3%) product. The transition from the crystalline phase to the S phase occurs at 138°C, while the transition from the S phase to the N phase occurs at 176°C and the transition from the N phase to the isotropic liquid occurs at 198°C. The elemental analysis data of the compounds obtained are in satisfactory accord with the calculated values.

## LITERATURE CITED

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