TETRABROMIDE-CYCLIC COMPOUNDS WITH CARBONYL (LINKS)
AS REACTANTS IN ANALYTICAL CHEMISTRY

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In construction to n-thijnoines, o-hynoine in the reactions in diene condensation hasn’t been studied well yet. In literature there are only a few examples of diene condensation of thetrahaloide-o-hynoines with vinyl and allyl-acetylene dienofiles1 [1-5]. In this report the results of synthesis of thetrabromide – bi-cyclical compounds with carbonyl links (on the basis of diene condensation of thetrabromide – benzene – hynoine-1; 2 with allyl-acetyle dienofiles) and their usage as reactants in analytical chemistry will be expounded.

The investigations have shown that condensation in the milinen toluol under temperature 5-110°C along carbone-carbone bilateral relation in the cycle according to the following scheme:

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\begin{align*}
\text{Br} & \quad \text{Br} & \quad \text{Br} & \quad \text{Br} \\
\text{O} & \quad + & \quad \text{CHCH}_2 & \quad \text{C} \quad \text{R} \\
\text{Br} & \quad \text{Br} & \quad \text{Br} & \quad \text{Br} \\
\text{CH}_2 & & & \\
\text{R} = & \quad \text{OH} & \quad - \text{CH}_2\text{OH} & \quad - \text{CH}_2\text{OCH}_2\text{CH}_2\text{OH} & \quad \text{OH}
\end{align*}
\]

The structure of synthesized adducts has been confirmed by methods of JK and AMP – spectroscopy and their some chemical transformations have been studied. It is established that synthesized tetrabromide-cyclic compounds can be applied in analytical chemistry. The new analytical method of quantitative extracting-photometrical definition Co (II) by extraction from solid phase with using 1·10^{-3} m of chlorophorme solutions of new hydrophobic tetrabromidecyclical compounds (I) has been developed.

Literature