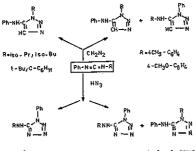
PO 26

BEHAVIOUR OF CARBODIIMIDES AND KETENIMINES TOWARDS 1,3-DIPOLAR AGENTS

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The reaction of asymmetrical substituded carbodiimides with diazomethane and hydrazoic acid give rise 1,5-disubstituted 1,2,3-triazoles, 1,5-disubstituted tetrazoles respectively. Obtained tetrazoles undergoe thermal isomerisation, which was studied by ¹H-NMR spectroscopy.



Resubst. pheny' group Rođiky

Also the reaction of ketenimines with the hydrazoic acid was studied which afforded corresponding 1,5-disubstituted tetrazoles.

$$\begin{array}{c} Ph-X \\ Ph \\ Ph \\ Ph \end{array} \xrightarrow{Ph - X \\ Ph \end{array} \xrightarrow{Ph - X \\ Ph \\ Ph \end{array} \xrightarrow{Ph - X \\ Ph \\ Ph \\ Ph \\ Ph \\ Ph \end{array}$$

PO 27

SUBSTITUTION NUCLEOPHILIC REACTIONS IN THE FURAN NUCLEUS

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I is generally known that by the S_N reaction in furan nucleus halogenic or nitro group are displaced. In our laboratory the nucleophilic substitutions of some other groups in furan nucleus a arylthic, heterarylthic, and arylsulfonyl-group were successful performed.

A convenient substrats for this nucleophilic reaction were 2-cyano-3./5.arylthio-, heteroarylthio- and arylsulfonyl-/-2-turyl/ actionityle and 2-cyano-3./5-arylthio-, heteroarylthio and arylsulfonyl/-2-furyl/ methyl acritate

 $Y = S, SO_2;$ Z - CN, COOCH3 R = aryl, heteroaryl;

X = piperidine, pyrolidine, morpholine, N-phenylpiperazine, hexametylenimine, diethylamine, dimethylamine, N-methyl-piperazine, N-benzylpiperazine, imidazole, NaNs.

PÓ 28

THE KINETICS OF NUCLEOPHILIC SUBSTITUTION OF 2,5-DI-SUBSTITUTED FURANS

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The kinetics of nucleophilic substitution reaction if 5-brom-, 5-https://dx.beak.add//signal.add//sig

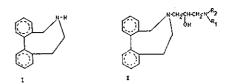
PO 29

3-AMINO-2-HYDROXYPROPYL-5,6,7,8--TETRAHYDRODIBENZO-(c,e)-AZOCINES

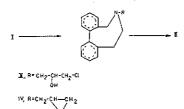
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A series of substituted aminohydroxypropyl derivatives of 5,6,7,8--tetrahydro-(c,e)-azocine (II) was prepared in connection with the study of new compounds affecting the cardiovascular sy-stem. Compounds of general formula II were synthesized from tetrahydrodibenzodzocine I and 1-chloro-2,3-epoxypropone to alwa 3-chloro-2-bydrowynand deviativer. IV give 3-chloro-2-hydroxypropyl derivatives IV.



Treatment of compounds III or IV with the appropriate amines afforded the final substituted 3-amino-2-hydroxypropyl derivatives II.



tained from diphenic acid by a modified procedure according to $^{1-5}\!$ The key intermediate tetrahydrodibenzoazocine 1 - was ob-

Substances II exhibit a significant vasodilatatory effect.

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