

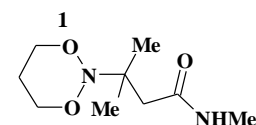
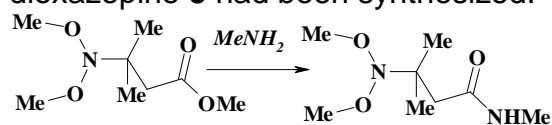
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CNCH-2015, 19th - 13th November, 2015, Kharkiv, Ukraine

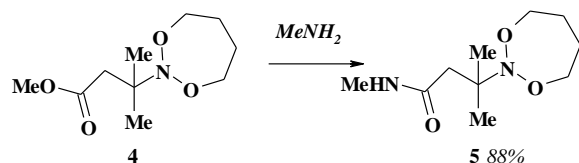
P-4

Geminal System O-N-O: XRD Studies of Structure of Cyclic *N,N*-dialkoxyderivatives of Amines and UreasShtamburg V.G.,^a Tsyhankov A.V.,^b Klots E.A.,^c Kostyanovsky R.G.^d^aUkrainian State University of Chemical Technology, 49005, Dnipropetrovsk, Gagarina str.8, Ukraine e-mail: stamburg@gmail.com^bKirovograd Flight Academy of National Aviation University, 25005 Kirovograd, Ukraine, e-mail geminalsystems@gmail.com^cKirovograd State Pedagogical University^dN.N. Semenov Institute of Chemical Physics, Russian Academy of Sciences, 119991 Moscow, Russian Federation

Acyclic *N,N*-dimethoxyamine **2**, perhydro-1,3,2-dioxazine **3** and perhydro-1,3,2-dioxazepine **5** had been synthesized. Their structure has been studied by XRD.

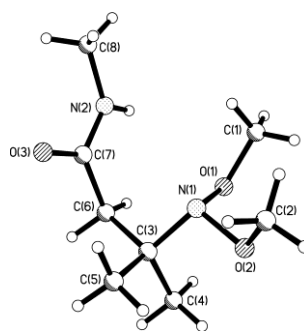


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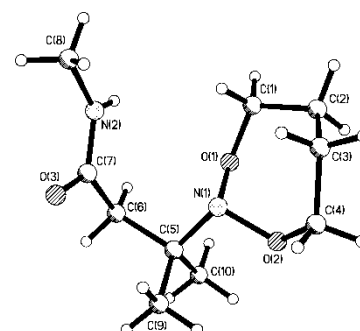


4

5 88%

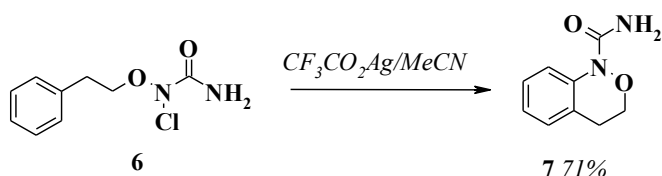


2



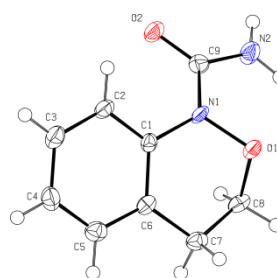
5

The formation of 1-carbamoyl-3,4-dihydro-1H-2,1-benzoxazine **7** is the first example of intramolecular nucleophilic substitution in the *N*-chloro-*N*-alkoxyureas. The structure of benzoxazine **7** has been studied by XRD.



6

7 71%

1-carbamoyl-3,4-dihydro-1H-2,1-benzoxazine **7**