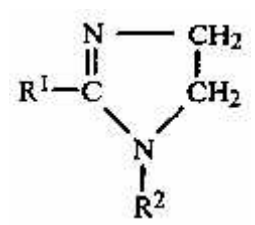
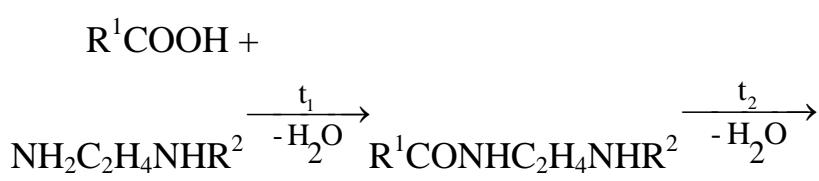


\_\_\_\_\_ . . . . . , . . . . .

[1].

1)

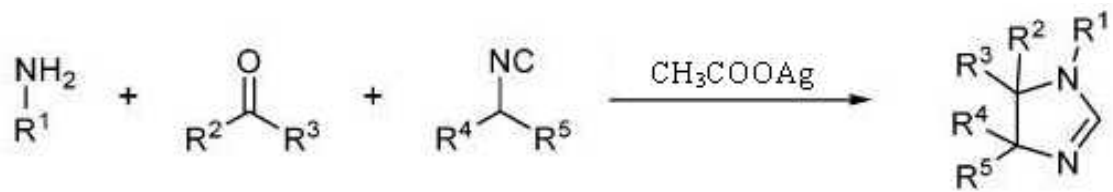
[2]:



R<sup>1</sup> - ; R<sup>2</sup> - ;  
 , , , , , ..  
 ,  
 120° 240°C, 25 , 5  
 10 . 5-20% .

2)

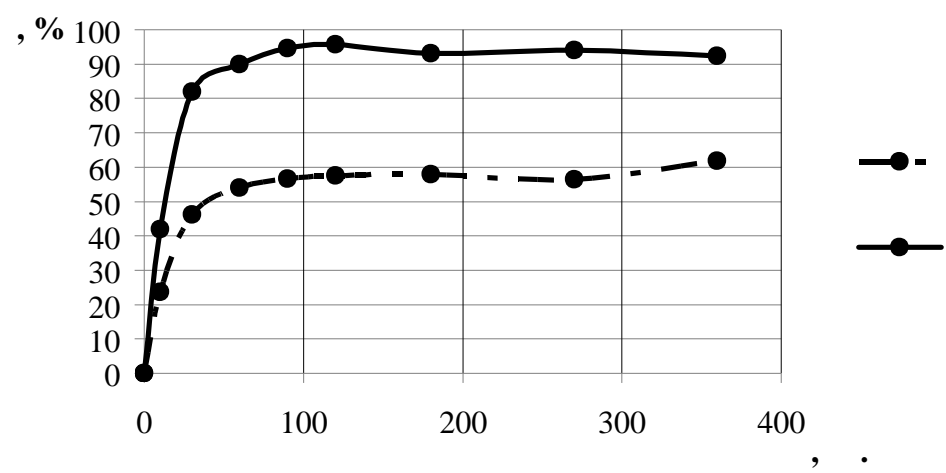
[3]:



$\text{R}^1, \text{R}^2, \text{R}^3, \text{R}^4, \text{R}^5$  - ; , ,  
 , , . -  
 , , ,  
 , . -

[4]

/ , ,  
 , , ,  
 , , , ,  
 , , , , ,  
 2-  
 -  
 1:3 5%  
 6 . 160 °  
 ( . 1).



. 1.

50 ° .

NACE

87-98%.

: 1. «Lakeland». 2. United States Patent 4,161,604. Process for making 1-hydroxyethyl-2-undecyl-2-imidazoline. 1979. 3. Robin S. Bon, Bart van Vliet, Nanda E. Sprenkels, etc. Multicomponent Synthesis of 2-Imidazolines. American Chemical Society Published on Web 2005. 4. United States Patent 5,104,578. Emulsion minimizing corrosion inhibitor for naphtha/water systems. 1992. 5. . . . – 2005. 6. Panzer, Hans Peter, O'Connor. Unsaturated imidazolines. – 2007.

661.185

\_\_\_\_\_ . . . . .

[1].

[2].

[3]