

$N \cdot 10^{12} \text{ }^{-3}, d (3 - 5) ,$

: **1.** *A.L. Aden, M.S. Kerker.* Scattering of electro-magnetic waves from two concentric spheres // *J.Appl.Phys.* - 1951. -T. 2. - 10, - C. 1242 - 1246. **2.** *K.* // - 1952. - 2. - 15 - 21. **3.** - .- .: « », 1990.- 456 c. **4.** , - // - 1988. - 9. - C. 1415 - 1466.

20.10.06

678.652:543.422.3-74

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. , , , ,

The article is devoted to research of process of receipt of the structured melamineformaldehyde resin. By the method of infra-red spectroscopy the structural changes which take place in resin on the basic stages of receipt is detected. Influence of plasticizer on the structure of melamineformaldehyde resin is explored.

[1, 2]

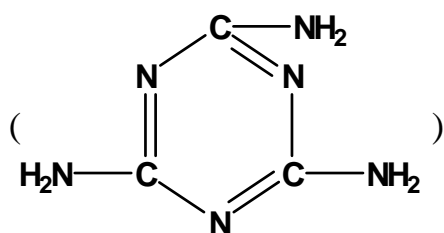
Specord 75 IR.

KBr

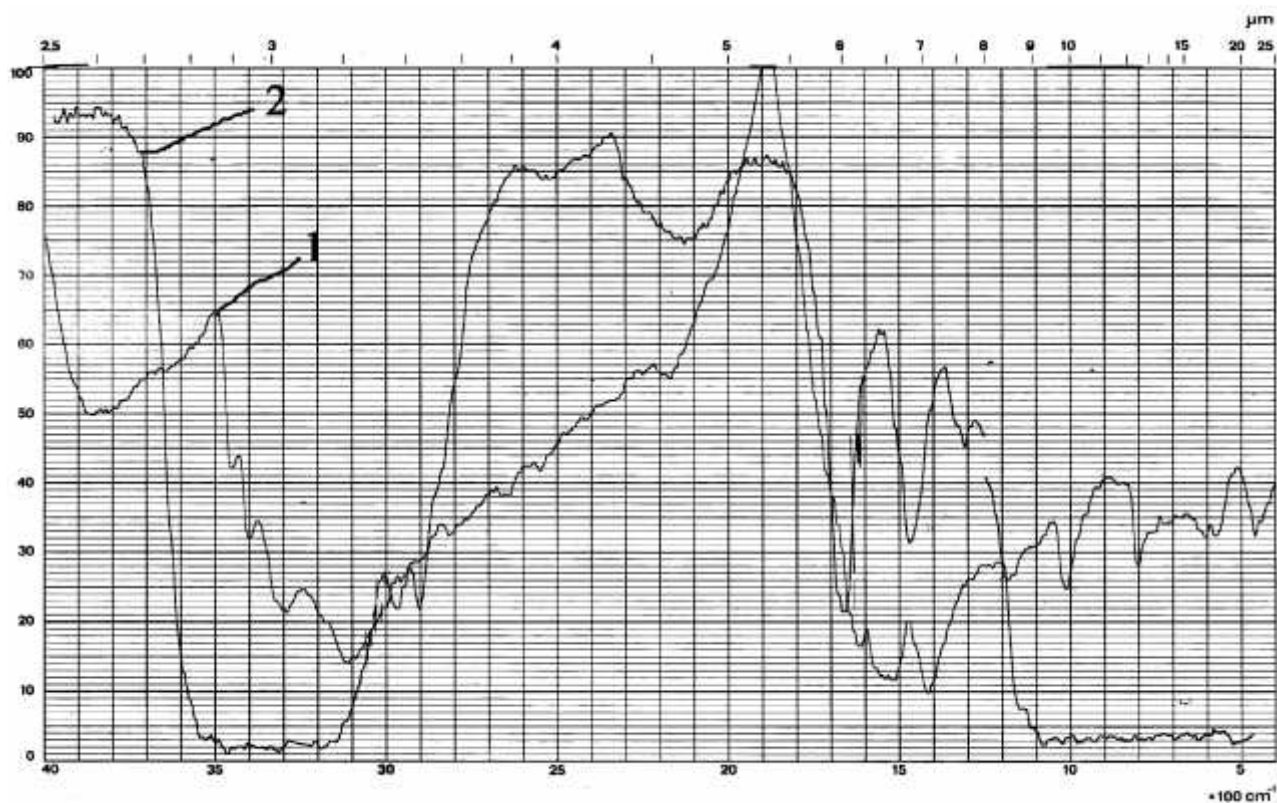
1 %.
4000 cm^{-1} .
KBr.

(0,1)

400



.1.



.1. -

(1)

(2)

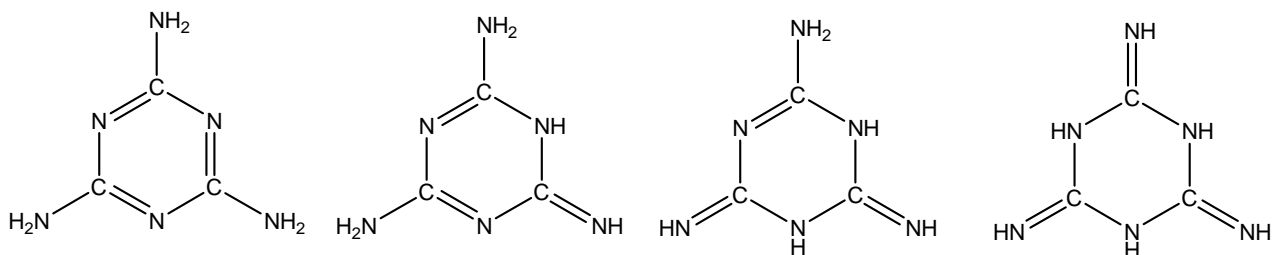
3100-3300 cm^{-1} , 1560 cm^{-1} , 1430 cm^{-1} 1030 cm^{-1} .

3100 3300 cm^{-1}

= =N

-NH₂ [4].

= =N
[3]:



N,

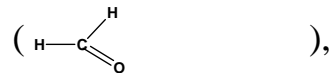
[3].

1030, 1560 1430⁻¹

1030 1560⁻¹ -

1430⁻¹

= N.



1450⁻¹, 1650⁻¹, 2100⁻¹

2900⁻¹, 2980⁻¹.

3100 - 3500⁻¹ 400 - 1050⁻¹.

(30 37 %) ().

1650⁻¹,

1430 - 1450⁻¹

= - 2 ().

(2900⁻¹), - 3 (2950 - 2970⁻¹).

(1 - 5 %)

() : 1650⁻¹ ()
() 1560⁻¹ ()

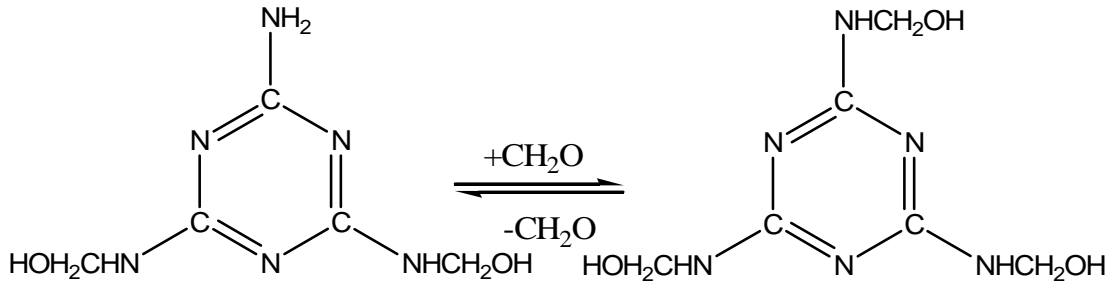
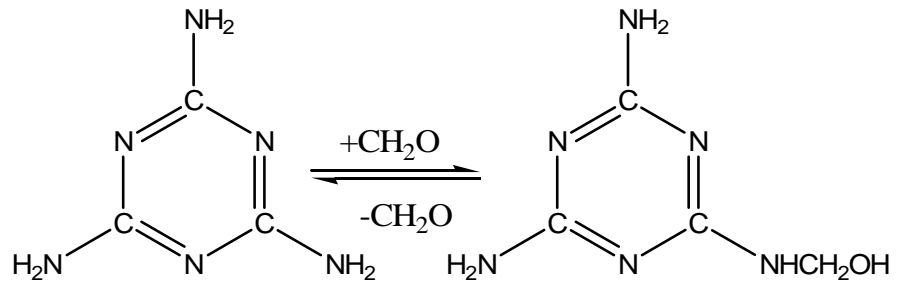
3100 - 3300⁻¹

).

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-, -

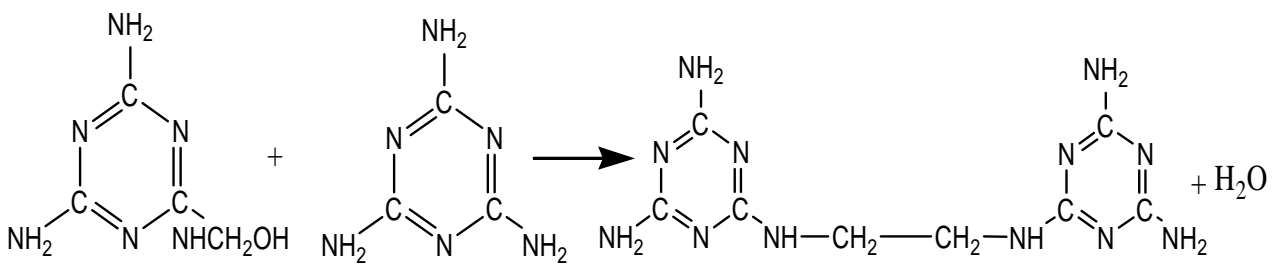
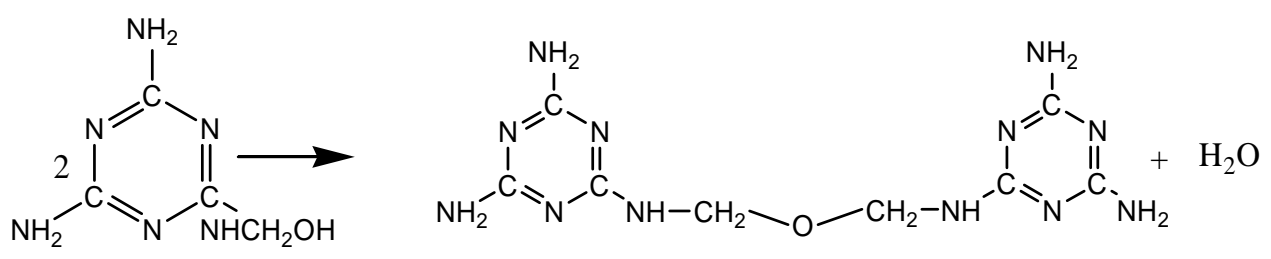
:



,

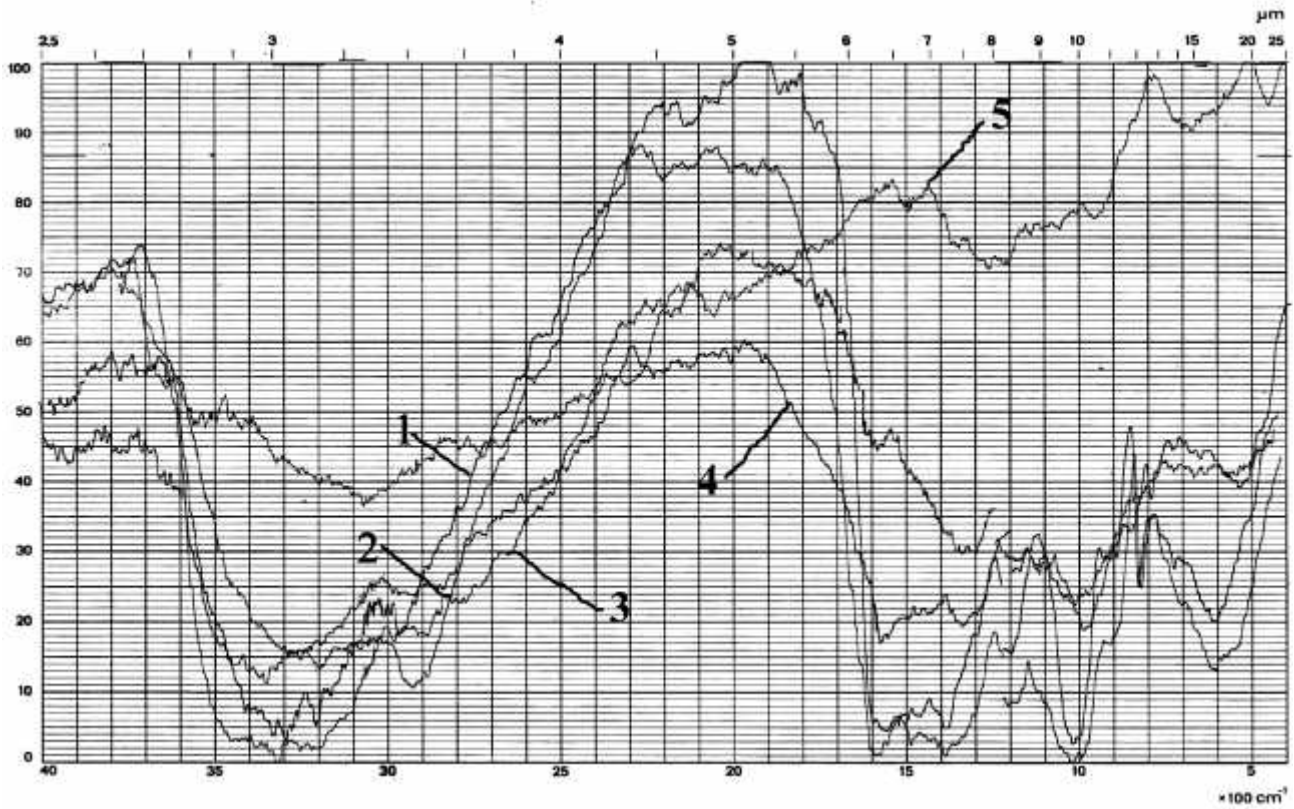
.

[3]:



. 2

3300 $^{-1}$.
 600, 800, 1000, 1200, 1370, 1550, 2950, 3200 $^{-1}$.
 600, 800, 1000 1200 $^{-1}$.
 = - = (800 1200 $^{-1}$)
 = - = (1000 $^{-1}$),
 600 $^{-1}$ - 2, -



. 2. - : 1- , 2-
 , 3- 2- , 4- 4- , 5- 6-

1650 $^{-1}$,

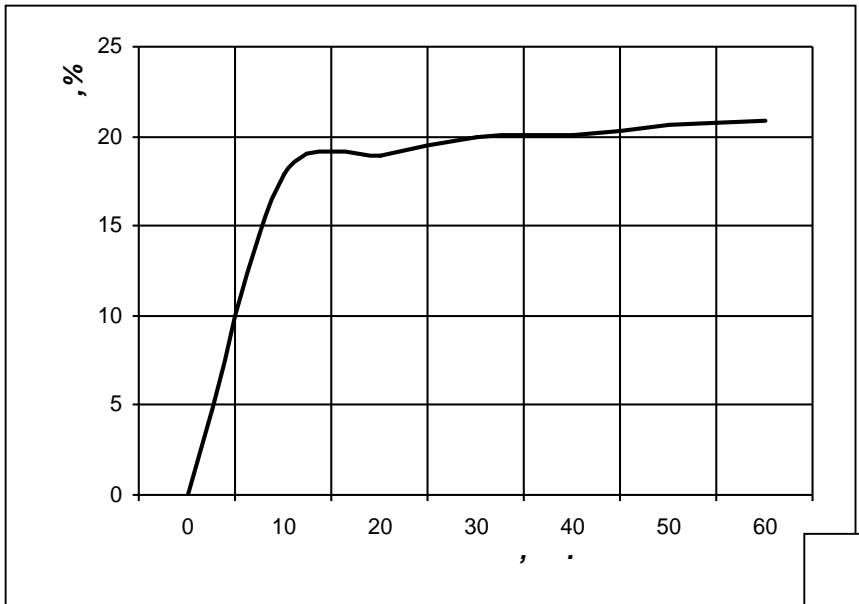
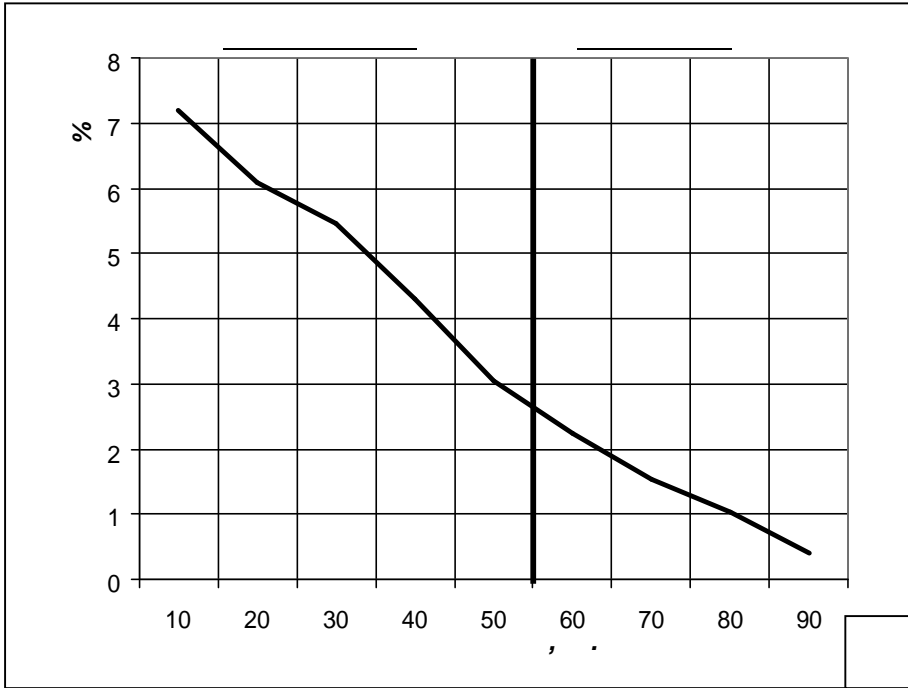
(. 3()

7,3 %

2,7 %

, - 1370 $^{-1}$ 1550 $^{-1}$ (
 C - N = N). 2950 $^{-1}$,

(. 3 ()).



. 3. ()

3200 – 3400 ⁻¹,

3200–3300 ⁻¹

N–H –NH₂

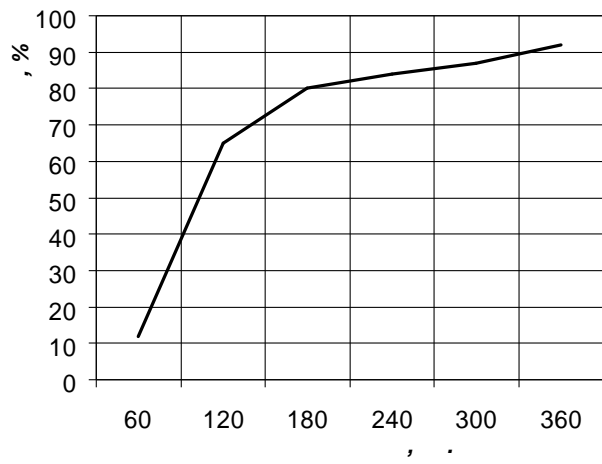
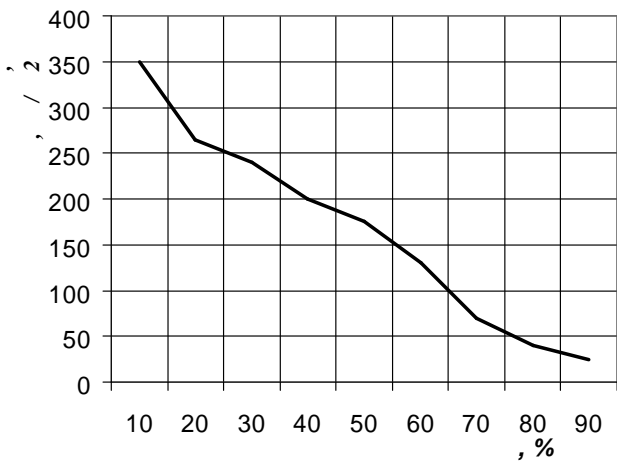
N-H

2950 ⁻¹

2900

(2, 4, 6)

.2.



.4.

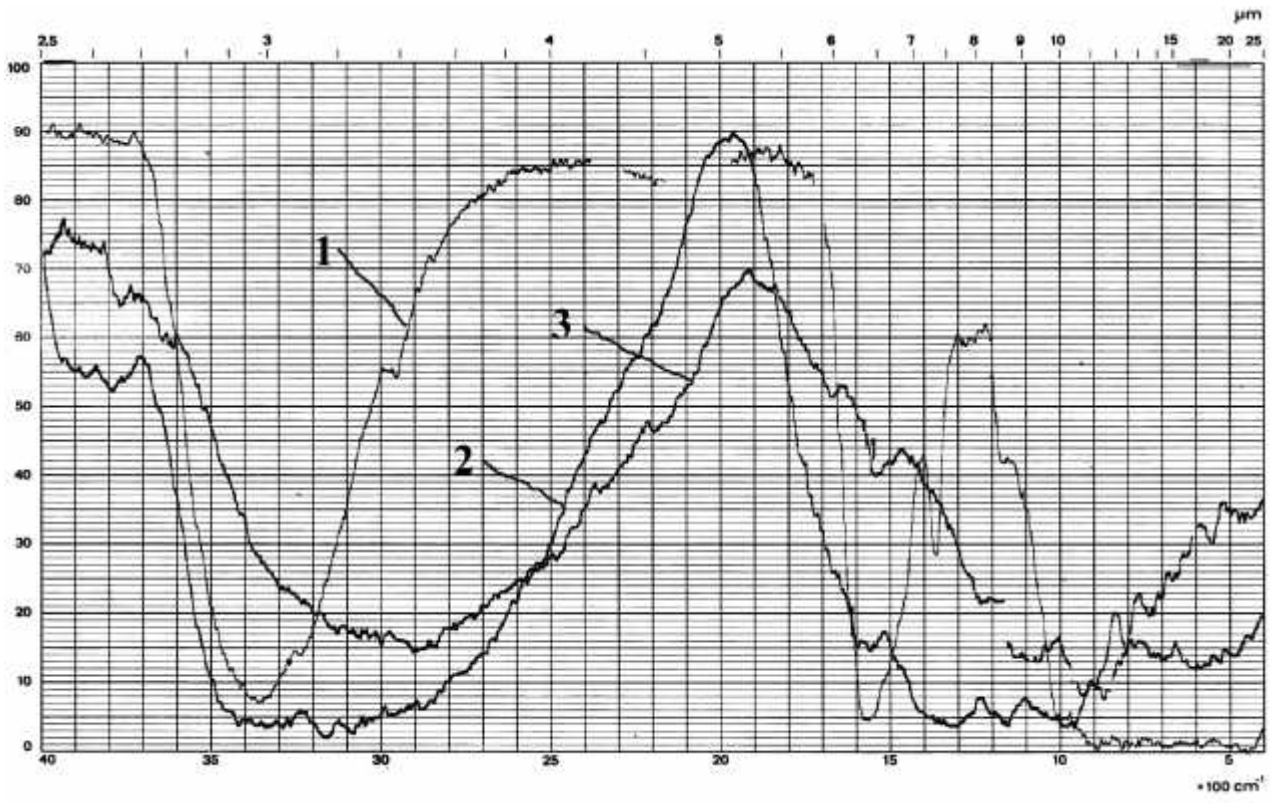
()

()

2

2900 ⁻¹

10



.5. — 2— ,3— 6 :1— ,

— , —

(.5), —

,

,

6—

(.5),

,

(.2),

2

1650 ⁻¹

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(—

) —

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