

663.444

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The kinetics of bitter substances accumulation in hop wort depending on time of antioxidant infusion in boiling mixture of wort with hop was investigated. It is proved that antioxidants from oak bark efficiently guard iso-α-acids against oxidative destruction. For maximum effect obtaining it is necessary to add antioxidant within 50 minutes from the overpoint of wort with hop.

95%

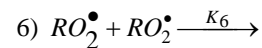
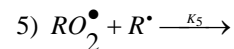
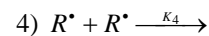
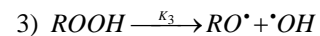
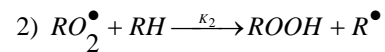
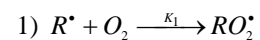
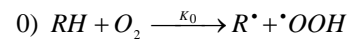
[1].

[2].

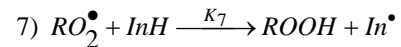
[3].

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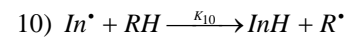
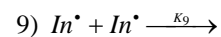
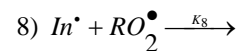
[4].



( ),



In<sup>•</sup>,



( In, ).

[ 5 ].

( u, Fe).

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1972 [6].

69

20 - 30 1 3

[7].

e

11 %

8,7 % - 9,0 %.

0,68 / 15 30 1 3

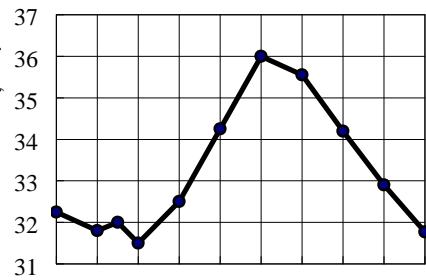
30, 40, 50, 60, 90 : 5, 10, 15, 20, 120

“ ” 5, 10, 15, 20

30, 40, 50

11 %

50



2

1. -

0,68 /

11 %.

«Perle»

15

90

87 °

2. -

11 %.

“Perle”.

- 0,68

10 %.

50

30

1 3

40

40

87 °

90

71

10 %.

				R <sub>2</sub>	
		1	15		
1,	5,77	27,7	68,3	22,92	38,5
2,	5,75	33,5	70,8	22,91	38,3

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: 1.

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0. .> .:

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4. -

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« », ( . )

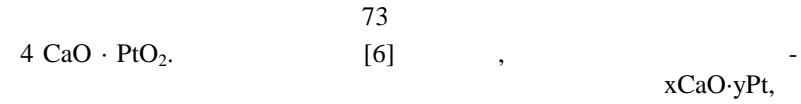
In job thermodynamic calculation of possible reactions of alkali-ground metals with platinum is lead. Theoretical dependence of change sorbtion properties from magnesium to barium is established. The thermodynamic opportunity of use alkali-ground is proved as sorbents as metal platinum, and her oxides in various modular statuses.

(CaO, MgO)

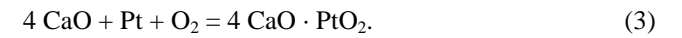
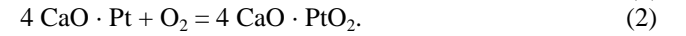
[1 - 4], . .

(Ba , Sr).

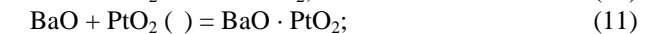
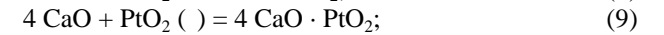
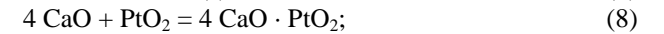
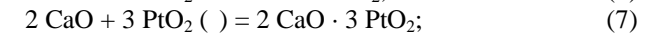
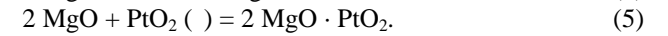
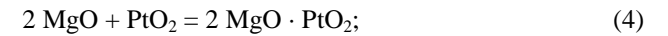
(PtO<sub>2</sub>).



[7, 8]:



[6]



$\Delta G_T^0$ ,