

547.36:382.3

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*\*azashad:0906@.ru*

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## SYNTHESIS OF TRANS-2-HEXENAL

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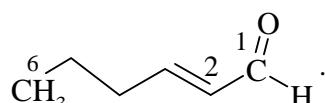
*Ingush State University*

**Abstract.** Presents a laboratory method for obtaining trans-2-hexenal from available starting compounds, in which the main stage is the Wittig reaction between butanal and formylmethylenetriphenylphosphorane. This method has proven to be quite effective: during the synthesis, there are no problems with intermediate compounds and it has a stable yield of the finished product.

**Keywords:** unsaturated aldehydes, hexenal, stereospecificity, chemical synthesis, fractional distillation.

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$\text{C}_6\text{H}_{10}\text{O}_2$



(F)-2-

° , d=0,7490 7490

$$n^{20} = 1,4522 [1].$$

— 85

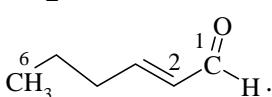
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-2- , - , = 85 ° , d=0,7490 n<sup>20</sup>= 1,4522 [1].

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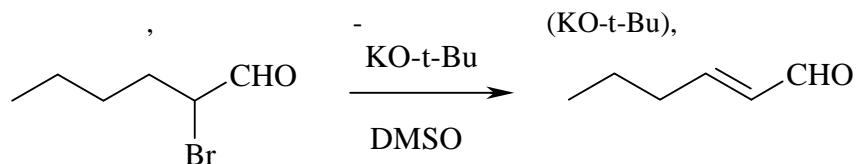
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[2]

[3].

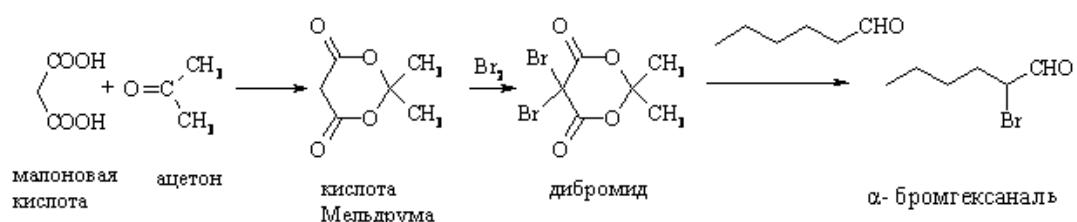
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1.



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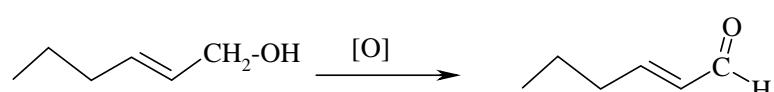
[4]



28 %.

2.

15-20 %.



- DDQ

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-20 °

[5];

0,05

/

2

4,5

[6].

-1

[7].

