

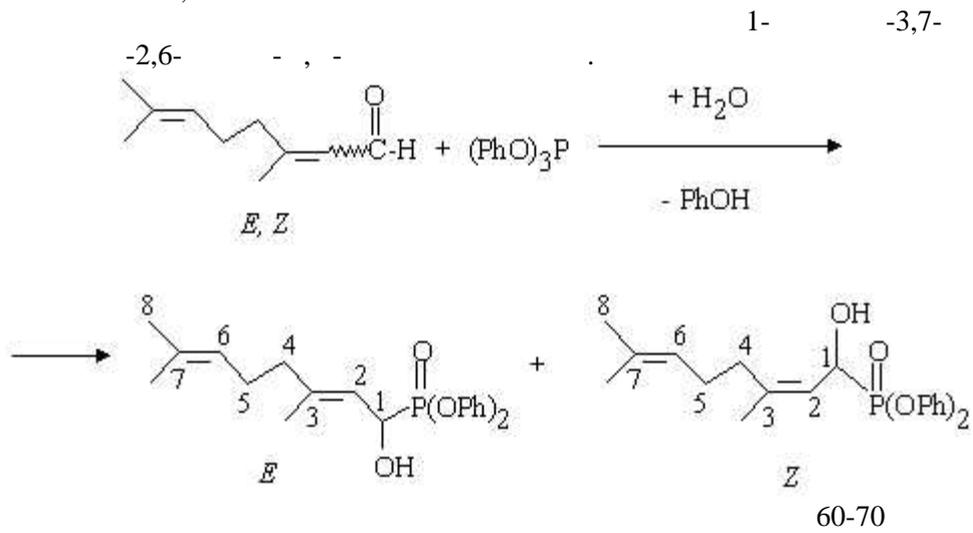
1-

[1-3],

(50 (1.5)) () [4].
E- Z-
-2,6- (3,7-
1- -3,7- -2,6-
E- Z-

1-

[5-7].



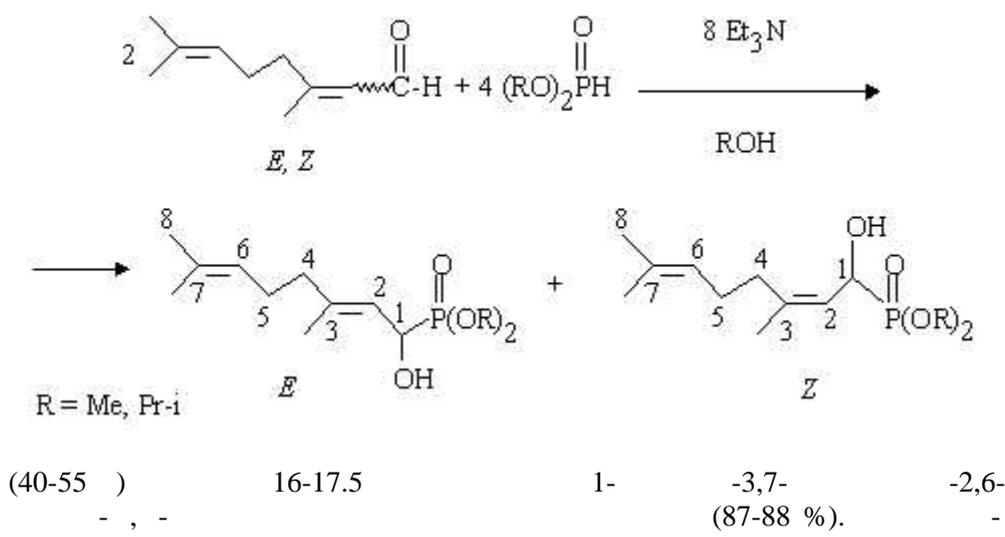
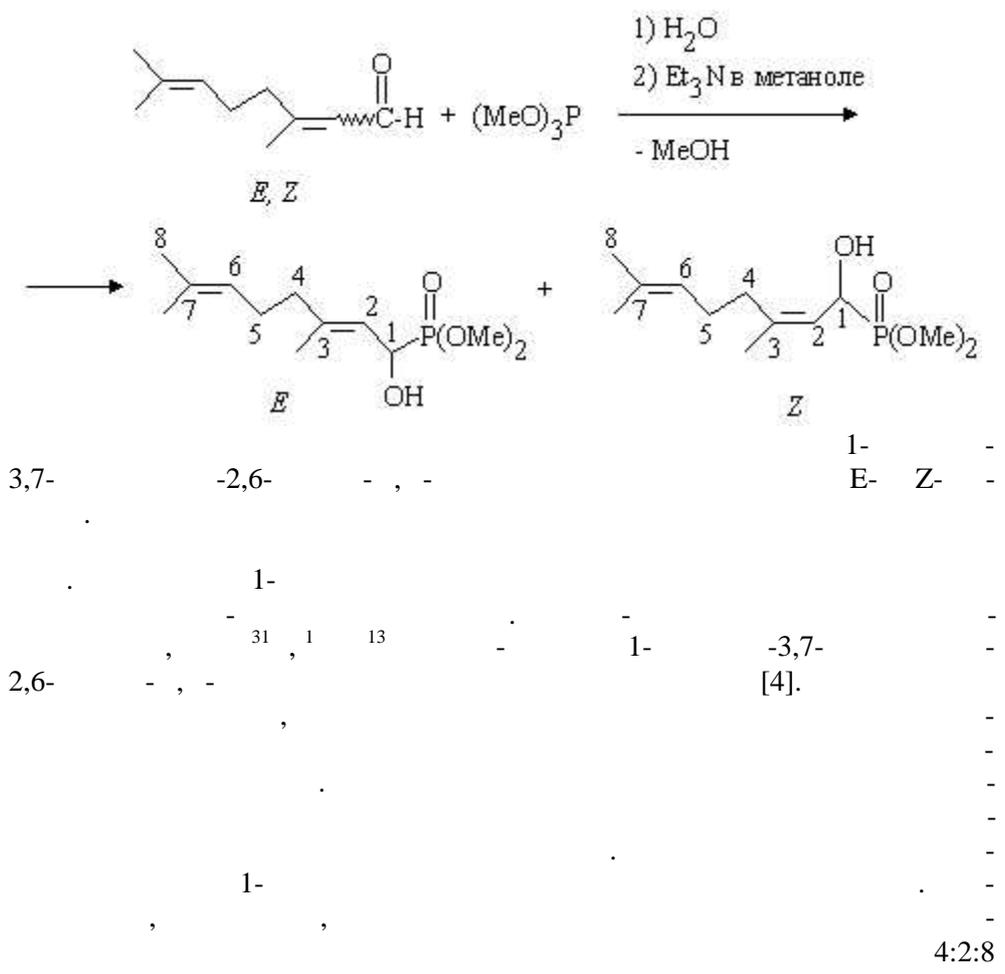
16.5

31

-2,6-

1- -3,7-

δ 16.2 14.0 . . . 5:1 (E- Z-)
),
 1- , ν 3346 ⁻¹
 ν 1595 1490 ⁻¹ ν 1210 ⁻¹ m/z
 386, - 1-
 386.2) [M]⁺ (1 :
 DCl₃ 1- -3,7- -2,6- - , - -
 δ 6.80-6.90 6.92-7.22 . . (10H,
 (C₆₋₅H₅O)₂P). δ 5.06 . . (²J_p 7.5
) 1-
 (P-C-H).
 1- -
 1- -
 . -
 4 . 31
 (DO) δ
 11.3 . . (J_p 779.7). : δ 10 . . [8].
 (-
 . -
 . -
 60 13.5 .



δ 1- -3,7- -2,6- - , -
 δ 21.9 24.2 . . .
 δ 1.18 . . . δ 1.21 . . .
 δ 4.47 . . .
 δ 3330 . . . δ 1665 . . .
 δ [(CH₃)₂C s] 1223 . . .
 (=), 1385 1370 . . .
 1- -3,7- -2,6- - , -
 1-

Bruker MSL-400 (100.6)
 Bruker MSL-400 (400)
 Bruker CXP-100 (36.5) - 85%
 Gold Perkin Elmer.
 1- -3,7- -2,6- - , -
 8.1 (26.1) 4.0 (26.2)
) . 60-70 5
 ~12 CaCl₂.
 . .) 40 1 (0.03 . .) 40 .
 7.3 (72 %) 1- -3,7- -2,6- - , -
 . (2.0) (.)
 -) 0.4 , R_f 0.92 (Silufol UV-
 254,) . , %: 8.33. C₂₂H₂₇O₄P. , %: 8.02.
 1- -3,7- -2,6- - , -
 3.25 (26.2) 4.0 (26.2)
 ~20 0.5

(27.8) . 4 ~20 .
8.2 50
60 13.5 1 (0.02)
(0.5 . .) 40 1
. .) 40 . 4.9 (71 %) 1- -3,7- -2,6- . .), n_D²⁰
1.4855. ,%: 12.05. C₁₂H₂₃O₄P. ,%: 11.84.
8.7 (79.1) 4 6.0 (39.4) -
~20 16.0 (158.1) 150
40-50 16 . -
1 (0.03 . .) 40 . (0.5 . .) 40 1
-3,7- -2,6- - , - , 4.6 (88 %) 1- -
- 2.4 (46 %)
1- -3,7- -2,6- - , - .
13.1 (78.1) 6.0 (39.4)
~20 16.0 (158.1) 150
50-55 17.5 . -
2 (0.02 . .) 40 . (0.5 . .) 40 1
100-115 (0.02 . .). 5.5
(87 %) 1- -3,7- -2,6- - , - ,
), R_f 0.57 (Silufol UV-254,) n_D²⁰ 1.4865. , %:
10.12. C₁₆H₃₁O₄P. ,%: 9.73. - (03-03-96208).

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