

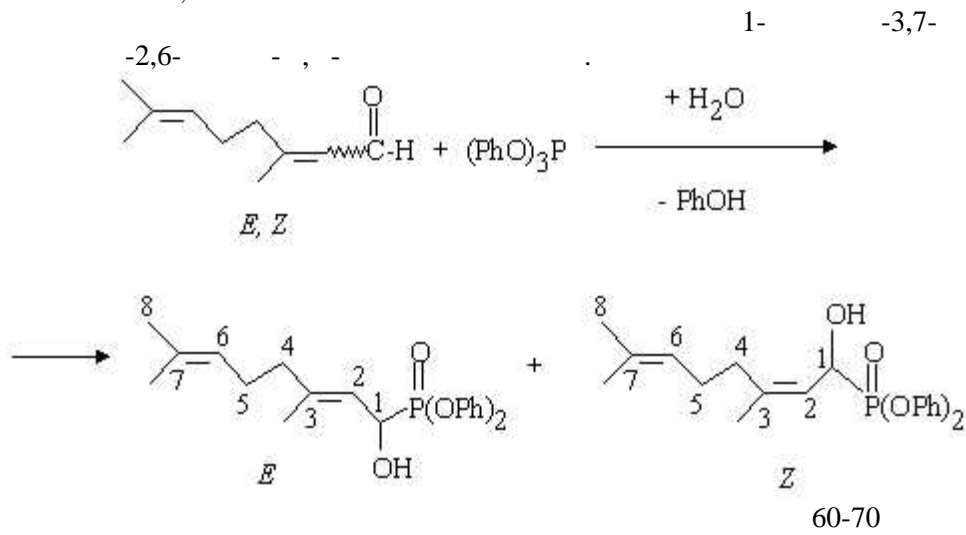
1-

[1-3],

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

1-

[5-7].



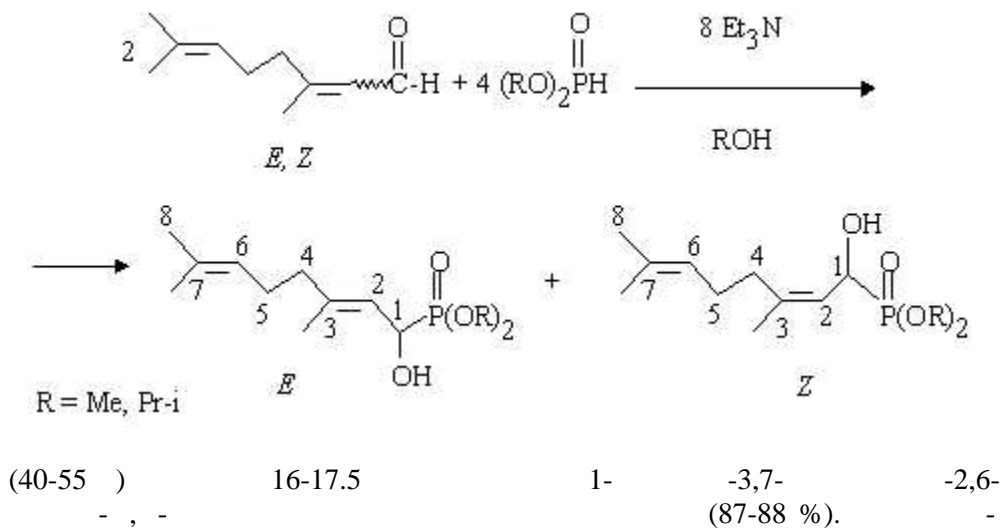
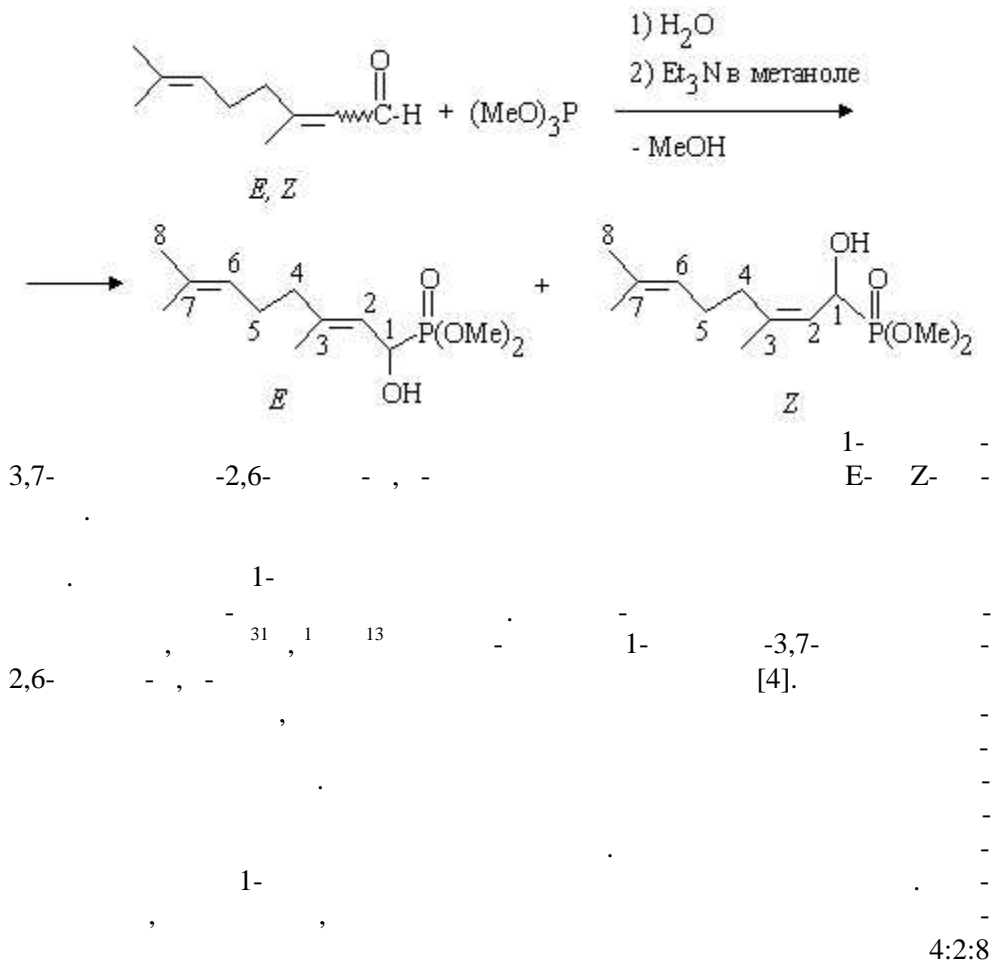
16.5

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-
 [M]⁺ (1 :
 386.2).
 DCl₃ 1- -3,7- -2,6- - , - -
 δ 6.80-6.90 6.92-7.22 . . (10H,
 δ 5.06 . . (²J_p 7.5
)
 (P-C-H). 1-
 1-
 1-
 .
 4 . 31
 (DO) δ
 11.3 . . (J_p 779.7). : δ 10 . . [8]).
 .
 60 13.5 .



1- -3,7- -2,6- - , -
 -
 31 1- -3,7-
 -2,6- - , -
 δ_P 21.9 24.2 . . . 5:1
 (E- Z-). DCI_3
 δ_1 1.18 . . . δ_2 1.21 . . .
 $[(CH_3)_2CHO]P$ (2J_P 6.2)
 $[(CH_3)_2CHO]_2P$
 δ 4.47 . . .
 1- -3,7- -2,6- - , -
 ν 3330 . . . ν (), 1665 ν
 (=), 1385 1370 δ $[(CH_3)_2C$ s] 1223 ν (=).
 1-

-c Bruker Vector-22
 KBr. ^{13}C
 Bruker MSL-400 (100.6) $CDCl_3$
 Bruker MSL-400 (400) $CDCl_3$
 Bruker CXP-100 (36.5 , - 85%- 3_4)
 Turbomass
 Gold Perkin Elmer.
 1- -3,7- -2,6- - , -
 8.1 (26.1) 4.0 (26.2) ~20
) . 60-70 0.5 (27.8
 , 5 16.5
 ~12 $CaCl_2$
 1 (0.03 . . .) 40 . (0.5
 . .) 40 1 (72 %) 1- -3,7- -2,6- - , -
 (2.0) (,
 -) . 0.4 , R_f 0.92 (Silufol UV-
 254,) . , %: 8.33. $C_{22}H_{27}O_4P$, %: 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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