

(19) (KR)
(12) (A)

(51) 。 Int. Cl.⁷
C07C 257/10
C07C 257/12
C07C 335/16
A01N 47/28

(11) 10-2004-0105250
(43) 2004 12 14

(21) 10-2004-7017646
(22) 2004 11 02
2004 11 02
(86) PCT/US2003/013371 (87) WO 2003/093224
(86) 2003 04 30 (87) 2003 11 13

(30) 60/380,095 2002 05 03 (US)
(71) (19898) 1007
(72) , - 19803 1103
(74)

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(54)

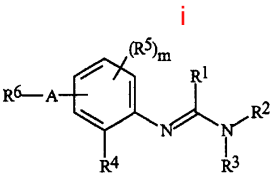
l () . ,
l 가 .
< l>
(R⁵)_m - (R⁶A) - 2 - (R⁴) - 1 - [N=C(R¹)N(R²)(R³)]
,
R¹ H, OH, SH, SO₃H, CN, -OR⁷ -SR⁷; C₁-C₁₀, C₂-C₁₀
, C₂-C₅, C₂-C₁₀, C₃-C₆, 3-, 4-, 5- 6
, R¹ l
;
R⁶ C₅-C₂₁, C₅-C₂₁, C₅-C₂₁, C₄-C₉, C₄
-C₆, C₃-C₁₀, C₃-C₁₂; R⁶
1 R¹² C₁-C₄ C₂-C₉;
A , O, S(O)_n NR¹⁰ ;

n 0, 1 2 ;
m 0, 1, 2 3 ;
R 2 , R 3 , R 4 , R 5 , R 7 , R 10 R 12 .

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, , .

가
가 , , , ,
(),
00/46184 i .



,
A R 1 R 5 ,
R 6 .
, 4,208,411 , 4,209,319 3,284,289 , 3,993,469 , 4,018,814 , 4,154,755
5,219,868 .
< >
I (,)
, .

, R³, R⁴, R⁵, R⁶, A m (R⁵)_m-(R⁶A)-2-(R⁴)-1-[N=C(R¹)N(R²)(R³)] (, R¹, R²)

, , n- , i- , 1- , 2- , 1,2- , 2,4- , 1- , 2- , 2,5- , n- , 가 , CH₃OCH₂, CH₃OCH₂CH₂, CH₃CH₂OCH₂, CH₃CH₂CH₂OCH₂, CH₃CH₂OCH₂CH₂가 , SCH₂, CH₃CH₂CH₂CH₂SCH₂, CH₃CH₂SCH₂CH₂가 , CH₃S(O), CH₃CH₂S(O), CH₃CH₂CH₂S(O), (CH₃)₂CHS(O), CH₃S(O)₂, CH₃CH₂S(O)₂, CH₃CH₂CH₂S(O)₂, (CH₃)₂CHS(O)₂, 가 (Huckel), 가 '가 , 1 4 가 4 , 2 가), 가 '가 . 가

, F₃C, ClCH₂, CF₃CH₂, CF₃CCl₂가 , (Cl)₂C=CHCH₂, CF₃CH₂CH=CHCH₂가 , HC CCHCl, CF₃C C, CCl₃C C FCH₂C CCH₂가 , CF₃O, CCl₃CH₂O, HCF₂CH₂C H₂O CF₃CH₂O가 , CCl₃S, CF₃S, CCl₃CH₂S ClCH₂CH₂C H₂S가 , CF₃S(O), CCl₃S(O), CF₃CH₂S(O) CF₃CF₂S(O)가 , CF₃S(O)₂, CCl₃S(O)₂, CF₃CH₂S(O)₂ CF₃CF₂S(O)₂가 , t- - 3 () 3 가, 3 가, 1 , C(O)CH₃, C(O)CH₂CH₂CH₃, C(O)CH(CH₃)₂가 , CH₃OC(=O), CH₃CH₂OC(=O), CH₃CH₂CH₂OC(=O), (CH₃)₂CHOC(=O), CH₃NHC(=O), CH₃CH₂NHC(=O), (CH₃)₂CHNHC(=O),

, (CH₃)₂NC(=O), (CH₃CH₂)₂NC(=O), CH₃CH₂(CH₃)NC(=O), CH₃CH₂CH₂(CH₃)NC(=O), (CH₃)₂CHN(CH₃)C(=O)가
 , CH₃OCH₂C(=O), CH₃OCH₂CH₂C(=O), CH₃CH₂OCH₂C(=O), CH₃CH₂CH₂OCH₂C(=O)
 CH₃CH₂OCH₂C(=O), CH₃CH₂OCH₂CH₂C(=O)가
 , CH₃SCH₂C(=O), CH₃SCH₂CH₂C(=O), CH₃CH₂SCH₂C(=O), CH₃CH₂CH₂SCH₂C(=O)
 CH₃CH₂SCH₂CH₂C(=O)가
 , CH₃NHCH₂C(=O), CH₃NHCH₂CH₂C(=O), CH₃CH₂NHCH₂C(=O), CH₃CH₂CH₂NHCH₂C(=O)
 CH₃CH₂NHCH₂C(=O)가

'C_i-C_j' , i j 1 21 , C₁-
 C₃ ; C₂ CH₃OCH₂ ; C₃
 , CH₃CH(OCH₃), CH₃OCH₂CH₂ CH₃CH₂OCH₂ ; C₄
 OCH₂ CH₃CH₂OCH₂CH₂ , I 1 CH₃CH₂CH₂
 가

가 1 가 (R)_{i-j} , 가 (1
)
 , i j
 R¹ R² , 가 , 가

가 , 가 , ()
 () , ()
 , (), (),
 , N-

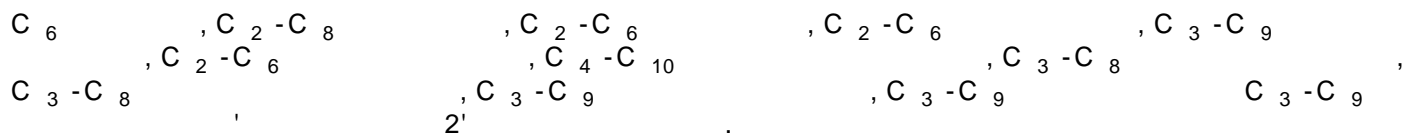
가 N- 가 N-
 N- , N-
 3 N- , 3
 , m- (MCPBA), , 3
 t- ,
 N-

[T. L. Gilchrist, *Comprehensive Organic Synthesis*, vol. 7, pp 748-750, S. V. Ley, Ed., Pergamon Press]; [M. Tisler and B., Stanovnik, *Comprehensive Heterocyclic Chemistry*, vol. 3, pp 18-20, A. J. Boulton and A. McKillop, Eds., Pergamon Press]; [M. R. Grimmett and B. R. T. Keene, *Advances in Heterocyclic Chemistry*, vol. 43, pp 149-161, A. R. Katritzky, Ed., Academic Press]; [M. Tisler and B. Stanovnik, *Advances in Heterocyclic Chemistry*, vol. 9, pp 285-291, A. R. Katritzky and A. J. Boulton, Eds., Academic Press]; [G. W. H. Cheeseman and E. S. G. Werstiuk, *Advances in Heterocyclic Chemistry*, vol. 22, pp 390-392, A. R. Katritzky and A. J. Boulton, Eds., Academic Press]

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 - 가 , , , , , , , ,
 , (, , ,) (, , ,)
 , , , , , , , ,

R¹ H, OH, SH, SO₃H, CN, -OR⁷ -SR⁷; C₁-C₁₀ , C₂-C₁₀
 , C₂-C₁₀ , C₃-C₆ 3-, 4-, 5- 6 R¹
 , R¹ I ;

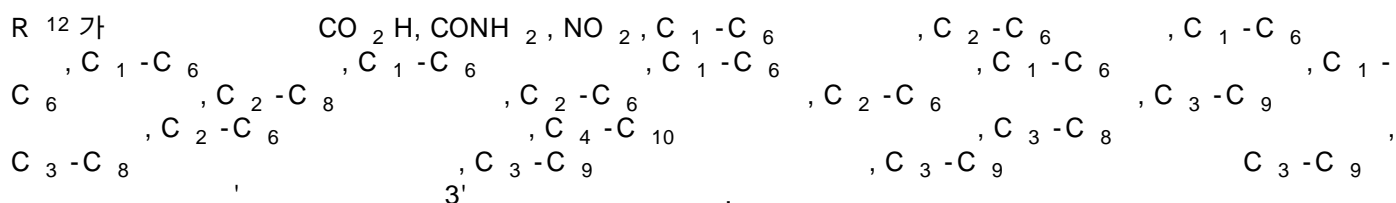
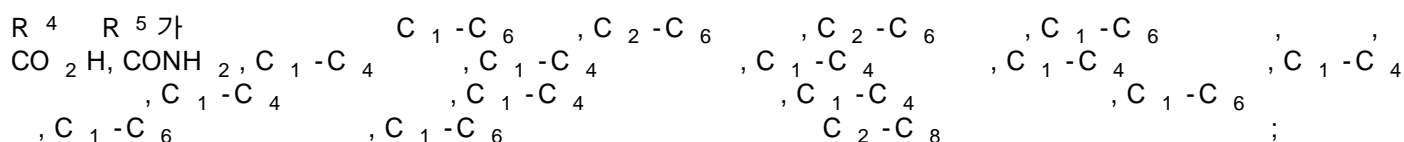
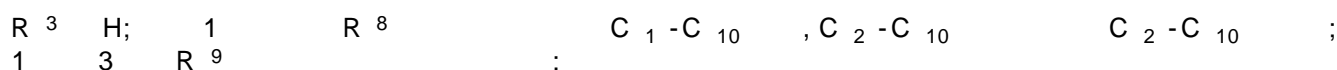
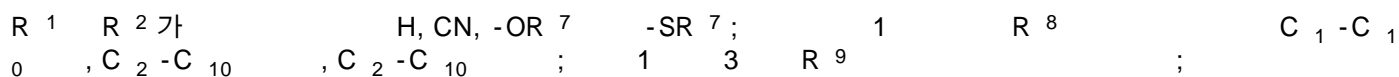
R⁴ R⁵ 가 C₁-C₆ , C₂-C₆ , C₂-C₆ , C₃-C₆ ,



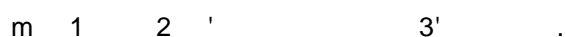
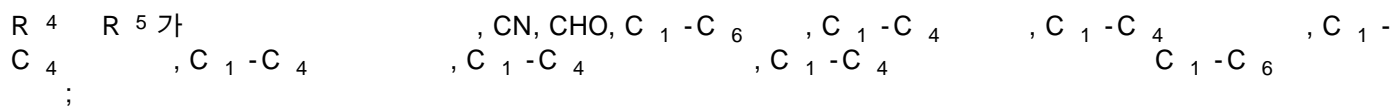
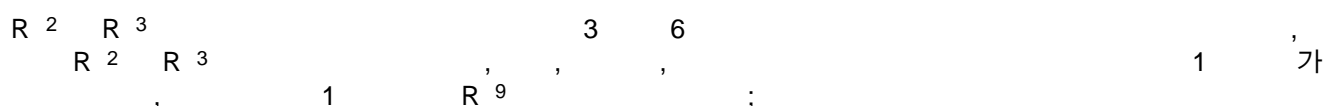
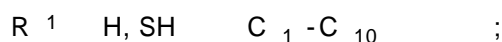
' 3' :



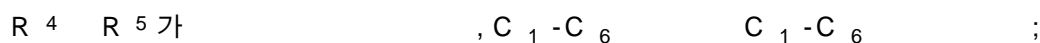
' 3a' :

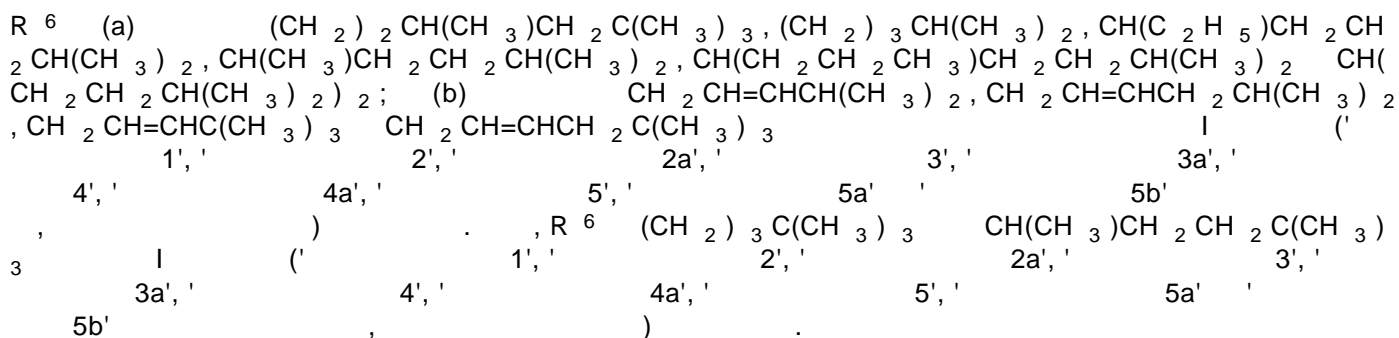


' 4' :

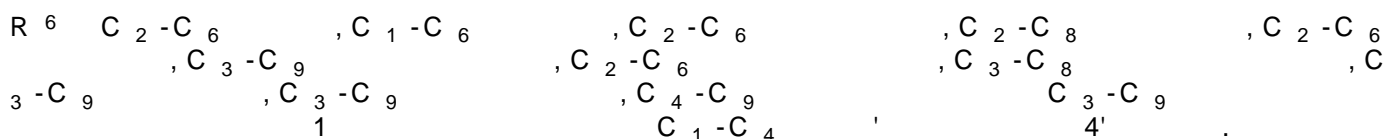
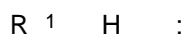


' 4a' :

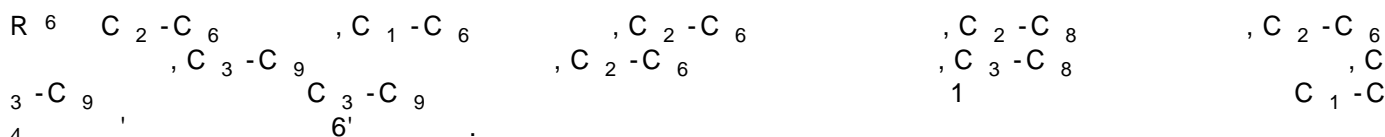




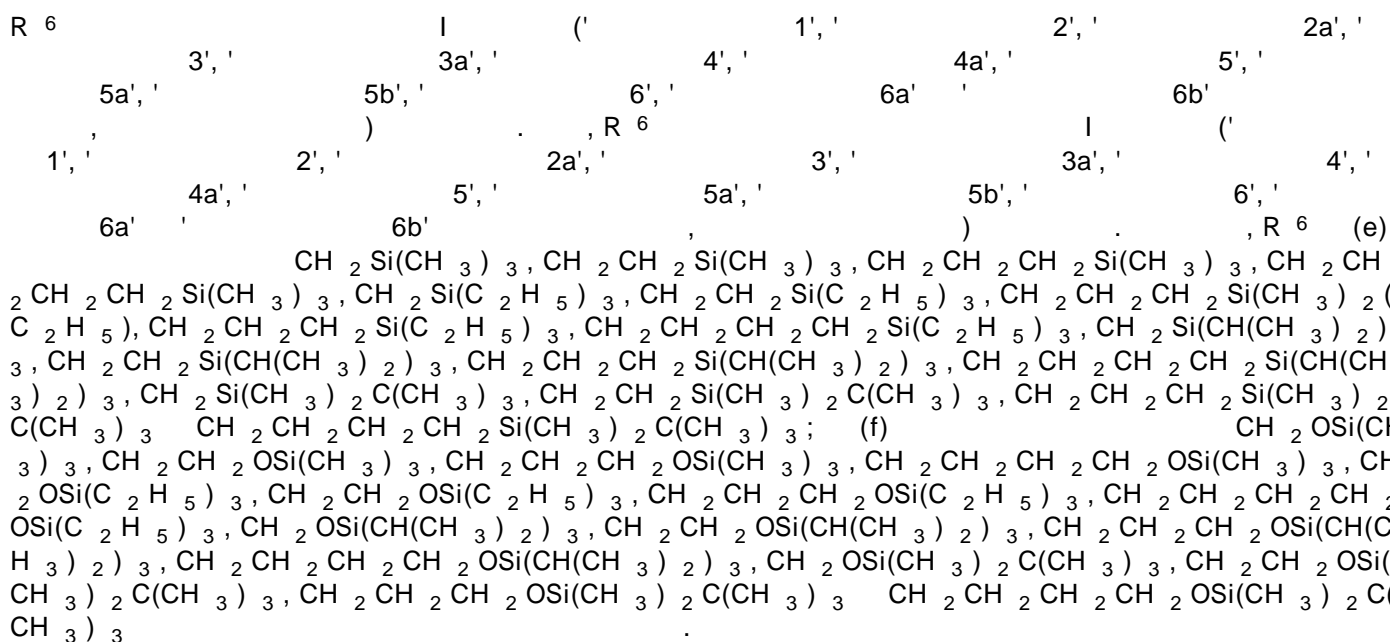
6' :



6a' :



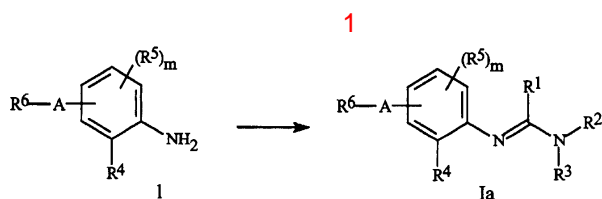
6b' :



1 가

가

1 13 R¹ R¹², A, m n la lg I
la lg I
1 la 1
4가



, R¹ H; C₁-C₁₀, C₂-C₁₀, C₂-C₁₀, C₂-C₅, C₃-C₆
C₃-C₆

1: 1 R² R³ NC(R¹)(OR¹³)₂ (R¹³)
[Toste et al., *Synth. Commun.* 1994, 24 (11), 1617-1624]

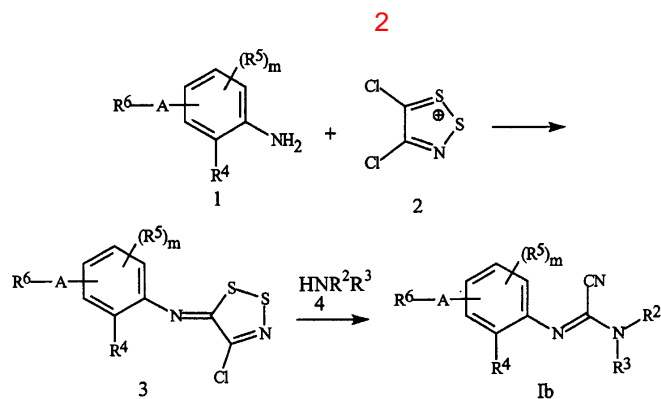
2: 1 POCl₃ SOCl₂,
R¹ C(=O)NR² R³, [Bergman et al.,
Tetrahedron, 1990, 46 (17), 6058-6112]

3: 1 R¹ C(OR¹³)₃ (R¹³)
HNR² R³ 가
4209319 (Pissiotas et al.)

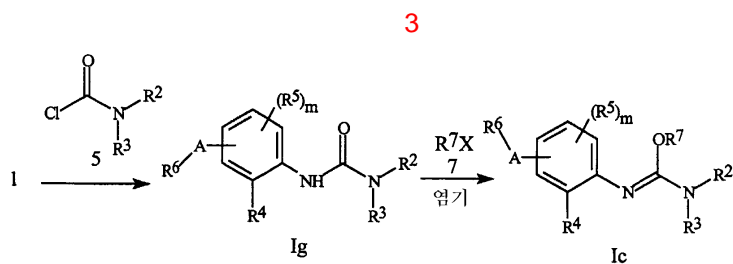
4: 1 R¹
C(=O)NR² R³, 00/46184
(Charles et al.)

5: 1 C₂H₅OCH=NCN N- N-
HNR² R³, 00/46
184 (Charles et al.)

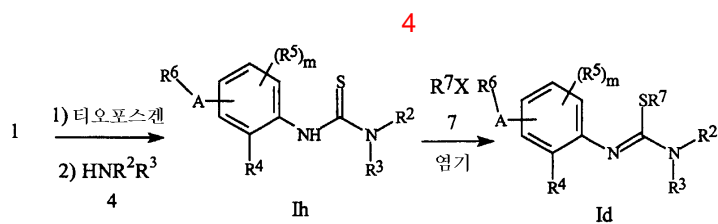
lb 2 1 4,5- -1,2,3-
(2) 4- -5-()-5H-1,2,3- (3)
4 lb, [Lee et al.,
J. Org. Chem., 1993, 58(25), 7001-7008]



Ic 3 1 5 7 (R
 7 X) O- Ig , Ig 7 X
 -CH₃ (p-) (, Br, I), OS(O)₂CH₃ (, OS(O)₂CF₃, OS(O)₂Ph-p
) , (K₂CO₃) (Ag₂O)
 , [Curtis et al., *Aust. J. Chem.*, 1988,
 41(4), 585-595]



, X .
 Id 4 1 (4
 가) , , 7 (R 7 X)
 lh , lh
 Id , [Filop et al., *Tetrahedron*, 1985, 41(24), 5981-5988]



, X .
 I R² R³ R² R³

R² R³

5, I 9 8

([*J. Med. Chem.* , 1984, 27(12), 1705-10]; 94052 00

/46184). 9, X 7

1, 1 2

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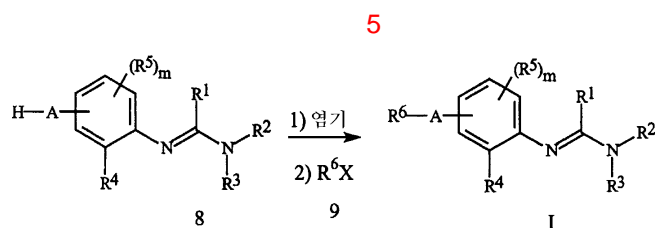
, 1,8- -[5.4.0] -7- 가

, N,N-

-20 150 ,

20 140 1 7

5 가 1



, A O, S NR₁₀ ; X

, A가 NH 8

I

, R⁶

[*J. Med. Chem.* , 1984, 17(12

), 1705-1710]

, 3 6 Ic

10 4 가

11 Ic

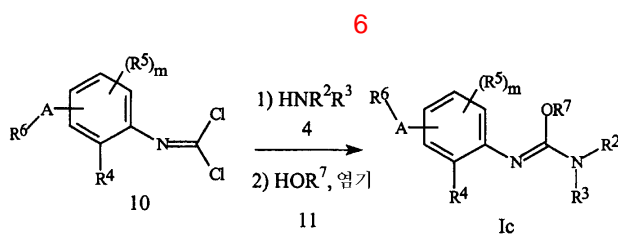
[Filop et al., /

zv. Akad. Nauk SSSR, Ser. Khim. , 1989, (11), 2596-2601]

([*J. Chem. Soc., Perkin Trans. 1*,

1987, (5), 1069-1076]; [*Tetrahedron Lett.* , 1982, 23(35), 3539-3542]; [*Chem. Ber.* , 1987, 120(3), 421

-424]).



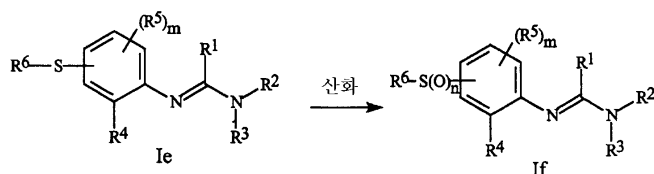
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[*J. Med. Che*

m. , 1996, 39(26), 5072-5082], [*J. Med. Chem.* , 1983, 26(1), 107-110]

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, n 1 2 .

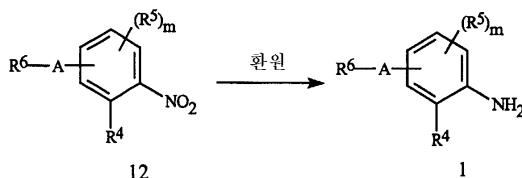
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[*J. Med. Chem.* , 1984, 24(12), 1705-17[*J. Org. Chem.* , 2001, 66(13), 4563-4575]10])
)

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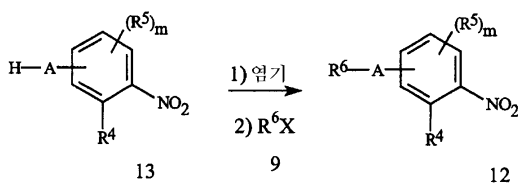
I

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([*Can. J. Chem.* , 1984, 62(8), 1446-51]; [*Aust. J. Chem.* , 1991, 44(1), 151-

6]).

9



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12

, A O, S NR¹⁰ ; X, A가 O, S NR¹⁰ , R⁶
(R⁶ OH)(Mitsunobu) 12 13
13, [*Hughes, Org. React.* , 1992, 42, 335-656]

A가 12

12 ([*Synth. Commun.* , 2001, 31(14), 2113-2117] ; [*Synth. Commun.* , 1999, 29(12), 2169-2174]; [*J. Chem. Res., Synop.* , 1998, (8), 410, 1701-1714]; [*J. Chem. Soc., Perkin Trans. 1*, 1998, (12), 1903-1912]; [*Synthesis* , 1982 (10), 836-9]; [*J. Org. Chem.* , 1977, 42(24), 3907-9]).

가 (100 mL)
(3 x 100 mL) MgSO₄ (0.16 g)
90

¹H NMR (CDCl₃): δ 0.02 (t,9H), 0.6 (m,2H), 1.7-1.82 (m,2H), 2.17 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.87 (t,2H), 6.54 (s,1H), 6.62 (s,1H), 7.38 (s,1H).

< 4>

N' - [4 - [(1 -)] -2,5-] -N,N-

A: 1 - [(1 -)] -2,5- -4-

0 (0.570 g, 2.82 mmol) (15 mL)
(0.739 g, 2.82 mmol) 가 0 가 30
(10 mL) 2,5- -4- (0.315 g, 1.9 mmol) 5- (0.288 g, 2 mmol)
가 , 0 30 1
(100 mL) (trituration) , (50 mL)
(0.4 g)

¹H NMR (CDCl₃): δ 0.9 (t,6 H), 1.2-1.4 (m,8 H), 1.6-1.7 (m,4H), 2.15 (s,3H), 2.6 (s,3H), 4.35 (m,H), 6.6 (s,1H), 7.9 (s,1H).

B: 1 - [(1 -)] -2,5- -4-

1 - [(1 -)] -2,5- -4- (, A) (0.4 g, 1.39 mmol) (~20
mL) (10 %, 0.2 g) 40 psi(276 KPa) 8
(0.35 g)

¹H NMR (CDCl₃): δ 0.9 (t,6H), 1.2-1.4 (m,8H), 1.6-1.7 (m,4H), 2.15 (s,6H), 3.25 (m, 2H), 4.0 (m,1H), 6.42 (s,1H), 6.5 (s,1H).

C : N' - [4 - [(1 -)] -2,5-] -N,N-

B (~5 mL) 1 - [(1 -)] -2,5- -4- (,
(350 mg) 가 2 100 가
(50 mL) (50 mL) (50 mL)
(Na₂ SO₄), (300 mg)

¹H NMR (CDCl₃): δ 0.9 (t,6 H), 1.2-1.4 (m,8H), 1.5-1.7 (m,4H), 2.15 (s,3H), 2.2 (s,3H), 3.0 (s,6H), 4.1 (m,H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).

< 5>

N' - [5- -2- -4- [3 - ()]] -N- -N-

A: [3 - (2- -5- -4-)]

-10 (2.3 mL, 11.68 mmol), 3- (1.41 g, 10.66
mmol), 2- -5- -4- (2.0 g, 10.64 mmol) (3.24 g, 12.35 mmol)
(55 mL) 가 , 가
(2.68 g) (; 5 %)
66-68

¹H NMR (CDCl₃): δ 0.04 (s,9 H), 0.64 (m,2H), 1.86(m,2H), 2.64 (s,3H), 4.05 (t,2H), 6.76 (s,1H), 8.17 (s,1H).

B: 5- -2- -4-[3-()]
 [3-(2- -5- -4-)] (, A) (3.5 g, 11.6 mmol) (16 mL) (16 mL) (II) (6.64 g, 35.02 mmol) 가 (320 mL) 가
 4 N (110 mL) , (3 x 320 mL)
 , MgSO₄ (2.97 g)

¹H NMR (CDCl₃): δ 0.02 (s,9H), 0.61 (m,2H), 1.76 (m,2H), 2.13 (s,3H), 3.4 (br s,2H), 3.89 (t,2H), 6.69 (s,1H), 6.7 (s,1H).

C : N-[5- -2- -4-[3-()]] I-N'-
 (16 mL) N- (1.21 g, 12.35 mmol) (16 mL)
 5- -2- -4-[3-()] (, B) (2.93 g, 10.77 mmol)
) 가 . 가 , 25
 % (2.4 g)
 143-144

¹H NMR (CDCl₃): δ 0.03 (s,9 H), 0.62 (m,2H), 1.82 (m,2H), 2.28 (m,3H), 3.96 (m,2H), 6.78-8.35(m,3H).

D: N'-[5- -2- -4-[3-()]] -N- -N-
 (4 mL) N-[5- -2- -4-[3-()]] -N'-
 (, C) (174 mg, 0.54 mmol) N- (0.23 mL, 2.68 mmol)
 가 . 가 , (40 mL) 가
 (40 mL), (40 mL) , MgSO₄
 (160 mg)

¹H NMR (CDCl₃): δ 0.02 (s,9H), 0.6 (m,2H), 1.2 (t,3H), 1.8 (m,2H), 2.23 (s,3H), 2.98 (s,3H), 3.35 (br s, 2H), 3.93 (t,2H), 6.74 (s,1H), 6.77 (s,1H), 7.4 (s,1H).

< 6>

N'-[5- -2- -4-[()]] -N- -N-

A: [3-(2- -4- -5-)] -
 25 (50 mL) 5- -2- -4-[3-()] (, 5, B
) (1.63 g, 6 mmol) (1.2 g, 7.8 mmol) 가 , N,N-
 (1.1 g, 9 mmol) 가 3 가
 , / (1:40)
 (1.19 g)

¹H NMR (CDCl₃): δ 0.00 (s, 9H), 0.60 (m, 2H), 1.80 (m, 2H) 2.40 (s, 3H), 3.85 (t, 2H), 6.60 (s, 1H), 7.00 (s, 1H).

B: N'-[5- -2- -4-[3-()]] -N- -N-
 25 (10 mL) [3-(2- -4- -5-)] -
 (, A) (310 mg, 1 mmol) N- (1 g, 17 mmol) 가
 25 30 , 가
 , / (1:5) (20 mL) (255 mg)
 71-72

¹H NMR (CDCl₃): δ 0.00 (s, 9H), 0.60 (m, 2H), 1.25 (t, 3H), 1.80 (m, 2H) 2.20, (s, 3H), 3.20 (s, 3H), 3.85 (q, 2H), 3.90 (t, 2H), 6.70 (br s, 1H), 6.75 (s, 1H), 7.15 (s, 1H)

< 7 >

N'-[5- -2-()-4-[3-()]]-N- -N-

A: [3-(2,5- -4-)]

-10 (10.4 mL, 53 mmol), 3- (6.4 g, 48 mmol),
 2,5- -4- (10.0 g, 48 mmol) (12.6 g, 48 mmol) (100 mL)
 L) 가 , 가 , (13.5 g)
 ~200 mL) , 2
 % 45-48 .

¹H NMR (CDCl₃): δ 0.05 (s,9H), 0.65 (m,2H), 1.89(m,2H), 4.07 (t,2H), 7.00 (s,1H), 8.12 (s,1H).

B: [3-[2- -5-()-4-]]

N,N- (40 mL) [3-(2,5- -4-)] (4.6 g, 1
 4.3 mmol) (, A) (1.3 g, 18.6 mmol) 가
 2 100 가 , (100 mL) (150 mL)
 (3 x 50 mL) , MgSO₄ ,
 / (3:1) (2.7 g)
 . 51-53 .

¹H NMR (CDCl₃): δ 0.05 (s,9H), 0.65 (m,2H), 1.89(m,2H), 2.49 (s,3H), 4.09 (t,2H), 6.69 (s,1H), 8.35 (s,1H).

C : 5- -2-()-4-[3-()]

(5 mL) (5 mL) [3-[2- -5-()-4-]] (,
 B) (2.7 g, 8.91 mmol) (II) (5.1 g, 26.7 mmol) 가 4
 가 ,
 (~50 mL) 4 N (4 x 50 mL) , MgS
 O₄ , (2.0 g)

¹H NMR (CDCl₃): δ 0.02 (s,9H), 0.61 (m,2H), 1.78 (m,2H), 2.35 (s,3H), 3.92 (t,2H), 4.04 (br s, 2H), 6.78 (s,1H), 6.98 (s,1H).

D: N-[5- -2-()-4-[3-()]]-N'-

(5 mL) N- (0.84 g, 8.6 mmol) (10 mL)
 5- -2-()-4-[3-()] (, C) (2.0 g, 6.6 mmol)
) 가 가 , 2
 / (1:2) (1.8 g)
 . 94-96 .

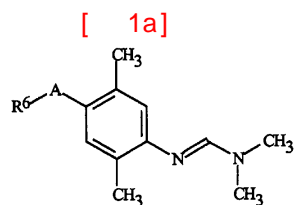
¹H NMR (CDCl₃): δ 0.03 (s,9H), 0.62 (m,2H), 1.84 (m,2H), 2.39 (m,3H), 3.96 (t,2H), 6.97-8.37 (m,3H).

E: N'-[5- -2-()-4-[3-()]]-N- -N-

(5 mL) N-[5- -2-()-4-[3-()]]-N'-
 (, D) (200 mg, 0.56 mmol) N-
 (7.6 mL, 0.74 M, 5.6 mmol) 가 가 ,
 , / (1:2)
 (120 mg) . 62-64 .

^1H NMR (CDCl_3): δ 0.02 (s,9H), 0.6-0.8 (m,6H), 1.82 (m,2H), 2.4 (s,3H), 2.7 (m,1H), 3.23 (s,3H), 3.96 (t,2H), 6.69 (s,1H), 6.79 (s,1H), 7.64 (s,1H).

, c-Pr , Bu . t 3 , s 2 , n 1 , i 13 , c , Pr , i-Pr



A	R ⁶	A	R ⁶
O	(CH ₂) ₄ CH ₃	S	(CH ₂) ₄ CH ₃
O	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅	S	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
O	(CH ₂) ₅ CH ₃	S	(CH ₂) ₅ CH ₃

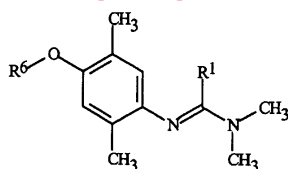
[1b]

A	R ⁶	A	R ⁶
O	(CH ₂) ₆ CH ₃	S	(CH ₂) ₆ CH ₃
O	(CH ₂) ₃ C(CH ₃) ₂ Br	S	(CH ₂) ₃ C(CH ₃) ₂ Br
O	(CH ₂) ₇ CH ₃	S	(CH ₂) ₇ CH ₃
O	(CH ₂) ₃ CH(CH ₃) ₂	S	(CH ₂) ₃ CH(CH ₃) ₂
O	(CH ₂) ₃ C(CH ₃) ₃	S	(CH ₂) ₃ C(CH ₃) ₃
O	(CH ₂) ₃ Si(CH ₃) ₃	S	(CH ₂) ₃ Si(CH ₃) ₃
O	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃	S	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
O	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂	S	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
O	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅	S	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
O	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃	S	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
O	(CH ₂) ₂ OC(CH ₃) ₃	S	(CH ₂) ₂ OC(CH ₃) ₃
O	(CH ₂) ₂ SC(CH ₃) ₃	S	(CH ₂) ₂ SC(CH ₃) ₃
O	(CH ₂) ₂ SCH(CH ₃) ₂	S	(CH ₂) ₂ SCH(CH ₃) ₂
O	CH ₂ CH=CHC(CH ₃) ₃	S	CH ₂ CH=CHC(CH ₃) ₃
O	CH ₂ CH=CHCH(CH ₃) ₂	S	CH ₂ CH=CHCH(CH ₃) ₂
O	(CH ₂) ₂ S(=O)C(CH ₃) ₃	S	(CH ₂) ₂ S(=O)C(CH ₃) ₃
O	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃	S	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
O	(CH ₂) ₂ OCH(CH ₃) ₂	S	(CH ₂) ₂ OCH(CH ₃) ₂
O	(CH ₂) ₃ OC(CH ₃) ₃	S	(CH ₂) ₃ OC(CH ₃) ₃
O	(CH ₂) ₃ P(=O)(CH ₃) ₂	S	(CH ₂) ₃ P(=O)(CH ₃) ₂
O	CH ₂ C(=O)CH ₂ C(CH ₃) ₃	S	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
O	CH(CH ₃)(CH ₂) ₃ CH ₃	S	CH(CH ₃)(CH ₂) ₃ CH ₃
O	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	S	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
O	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃	S	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
O	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂	S	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
O	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	S	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
O	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂	S	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
O	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂	S	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
O	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃	S	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
O	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂	S	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
O	CH ₂ CH=C(CH ₃) ₂	S	CH ₂ CH=C(CH ₃) ₂
O	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃	S	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
O	(CH ₂) ₃ C(CH ₃) ₂ Cl	S	(CH ₂) ₃ C(CH ₃) ₂ Cl
O	CH ₂ CH ₂ CH=C(CH ₃) ₂	S	CH ₂ CH ₂ CH=C(CH ₃) ₂
O	(CH ₂) ₈ CH ₃	S	(CH ₂) ₈ CH ₃
O	(CH ₂) ₉ CH ₃	S	(CH ₂) ₉ CH ₃
O	(CH ₂) ₁₁ CH ₃	S	(CH ₂) ₁₁ CH ₃

[1c]

A	R ⁶	A	R ⁶
O	C(=O)OCH ₂ C(CH ₃) ₃	S	C(=O)OCH ₂ C(CH ₃) ₃
O	(CH ₂) ₄ CH(CH ₃) ₂	S	(CH ₂) ₄ CH(CH ₃) ₂
O	C(=O)OCH(C ₂ H ₅)C(CH ₃) ₃	S	C(=O)OCH(C ₂ H ₅)C(CH ₃) ₃
O	C(=O)OC(CH ₃) ₂ C(CH ₃) ₃	S	C(=O)OC(CH ₃) ₂ C(CH ₃) ₃
O	C(=O)NHCH ₂ C(CH ₃) ₃	S	C(=O)NHCH ₂ C(CH ₃) ₃
O	C(=O)N(CH ₃)CH ₂ C(CH ₃) ₃	S	C(=O)N(CH ₃)CH ₂ C(CH ₃) ₃
O	CH ₂ CH ₂ CH ₂ CH=C(CH ₃) ₂	S	CH ₂ CH ₂ CH ₂ CH=C(CH ₃) ₂
O	C(=O)CH ₂ SC(CH ₃) ₃	S	C(=O)CH ₂ SC(CH ₃) ₃
O	(CH ₂) ₄ Cl	S	(CH ₂) ₄ Cl
O	(CH ₂) ₅ Cl	S	(CH ₂) ₅ Cl
O	(CH ₂) ₂ CH(CH ₃)(CH ₂) ₃ CH(CH ₃) ₂	S	(CH ₂) ₂ CH(CH ₃)(CH ₂) ₃ CH(CH ₃) ₂
O	(S)-(CH ₂) ₂ CH(CH ₃)CH ₂ CH ₂ CH=C(CH ₃) ₂	S	(S)-(CH ₂) ₂ CH(CH ₃)CH ₂ CH ₂ CH=C(CH ₃) ₂
O	(R)-(CH ₂) ₂ CH(CH ₃)CH ₂ CH ₂ CH=C(CH ₃) ₂	S	(R)-(CH ₂) ₂ CH(CH ₃)CH ₂ CH ₂ CH=C(CH ₃) ₂
O	(CH ₂) ₂ CH(CH ₃) ₂	S	(CH ₂) ₂ CH(CH ₃) ₂
O	(CH ₂) ₂ C(CH ₃) ₃	S	(CH ₂) ₂ C(CH ₃) ₃
O	CH ₂ C(=O)C(CH ₃) ₃	S	CH ₂ C(=O)C(CH ₃) ₃
O	CH ₂ CH=C(CH ₃)(CH ₂) ₂ CH=C(CH ₃) ₂	S	CH ₂ CH=C(CH ₃)(CH ₂) ₂ CH=C(CH ₃) ₂
O	CH ₂ (CH=C(CH ₃)(CH ₂) ₂) ₂ CH=C(CH ₃) ₂	S	CH ₂ (CH=C(CH ₃)(CH ₂) ₂) ₂ CH=C(CH ₃) ₂
O	(CH ₂) ₃ CH=CH ₂	S	(CH ₂) ₃ CH=CH ₂
O	(CH ₂) ₄ CH=CH ₂	S	(CH ₂) ₄ CH=CH ₂
O	CH(C ₂ H ₅) ₂	S	CH(C ₂ H ₅) ₂
O	CH(CH ₂ CH ₂ CH ₃) ₂	S	CH(CH ₂ CH ₂ CH ₃) ₂
O	CH(CH ₂ CH ₂ CH ₂ CH ₃) ₂	S	CH(CH ₂ CH ₂ CH ₂ CH ₃) ₂
O	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH ₂ CH ₃	S	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH ₂ CH ₃
O	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃)(C ₂ H ₅)	S	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃)(C ₂ H ₅)
O	CH(CH ₂ CH ₂ CH ₂ CH ₂ CH ₃) ₂	S	CH(CH ₂ CH ₂ CH ₂ CH ₂ CH ₃) ₂
O	CH(CH ₂ CH ₂ CH ₂ CH ₃)(CH ₂) ₅ CH ₃	S	CH(CH ₂ CH ₂ CH ₂ CH ₃)(CH ₂) ₆ CH ₃
O	CH(C ₂ H ₅)CH ₂ CH ₂ C(=CH ₂)CH ₃	S	CH(C ₂ H ₅)CH ₂ CH ₂ C(=CH ₂)CH ₃

[2a]



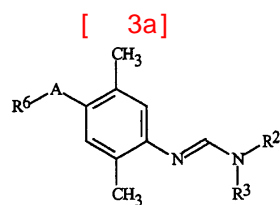
R ¹	R ⁶	R ¹	R ⁶
CH ₃	(CH ₂) ₄ CH ₃	OCH ₃	(CH ₂) ₄ CH ₃
CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅	OCH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CH ₃	(CH ₂) ₅ CH ₃	OCH ₃	(CH ₂) ₅ CH ₃
CH ₃	(CH ₂) ₆ CH ₃	OCH ₃	(CH ₂) ₆ CH ₃
CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br	OCH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
CH ₃	(CH ₂) ₇ CH ₃	OCH ₃	(CH ₂) ₇ CH ₃
CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	OCH ₃	(CH ₂) ₃ CH(CH ₃) ₂
CH ₃	(CH ₂) ₃ C(CH ₃) ₃	OCH ₃	(CH ₂) ₃ C(CH ₃) ₃
CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	OCH ₃	(CH ₂) ₃ Si(CH ₃) ₃
CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃	OCH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂	OCH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅	OCH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃	OCH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	(CH ₂) ₂ OC(CH ₃) ₃	OCH ₃	(CH ₂) ₂ OC(CH ₃) ₃
CH ₃	(CH ₂) ₂ SC(CH ₃) ₃	OCH ₃	(CH ₂) ₂ SC(CH ₃) ₃
CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂	OCH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
CH ₃	CH ₂ CH=CHC(CH ₃) ₃	OCH ₃	CH ₂ CH=CHC(CH ₃) ₃
CH ₃	CH ₂ CH=CHCH(CH ₃) ₂	OCH ₃	CH ₂ CH=CHCH(CH ₃) ₂
CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃	OCH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃	OCH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂	OCH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
CH ₃	(CH ₂) ₃ OC(CH ₃) ₃	OCH ₃	(CH ₂) ₃ OC(CH ₃) ₃
CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂	OCH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃	OCH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃	OCH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	OCH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃	OCH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂	OCH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	OCH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂	OCH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂

[2b]

R^1	R^6	R^1	R^6
CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂	OCH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃	OCH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂	OCH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	CH ₂ CH=C(CH ₃) ₂	OCH ₃	CH ₂ CH=C(CH ₃) ₂
CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃	OCH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl	OCH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂	OCH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
C ₂ H ₅	(CH ₂) ₄ CH ₃	SCH ₃	(CH ₂) ₄ CH ₃
C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅	SCH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
C ₂ H ₅	(CH ₂) ₅ CH ₃	SCH ₃	(CH ₂) ₅ CH ₃
C ₂ H ₅	(CH ₂) ₆ CH ₃	SCH ₃	(CH ₂) ₆ CH ₃
C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ Br	SCH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
C ₂ H ₅	(CH ₂) ₇ CH ₃	SCH ₃	(CH ₂) ₇ CH ₃
C ₂ H ₅	(CH ₂) ₃ CH(CH ₃) ₂	SCH ₃	(CH ₂) ₃ CH(CH ₃) ₂
C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₃	SCH ₃	(CH ₂) ₃ C(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₃ Si(CH ₃) ₃	SCH ₃	(CH ₂) ₃ Si(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃	SCH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂	SCH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
C ₂ H ₅	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅	SCH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
C ₂ H ₅	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃	SCH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₂ OC(CH ₃) ₃	SCH ₃	(CH ₂) ₂ OC(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₂ SC(CH ₃) ₃	SCH ₃	(CH ₂) ₂ SC(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₂ SCH(CH ₃) ₂	SCH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
C ₂ H ₅	CH ₂ CH=CHC(CH ₃) ₃	SCH ₃	CH ₂ CH=CHC(CH ₃) ₃
C ₂ H ₅	CH ₂ CH=CHCH(CH ₃) ₂	SCH ₃	CH ₂ CH=CHCH(CH ₃) ₂
C ₂ H ₅	(CH ₂) ₂ S(=O)C(CH ₃) ₃	SCH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃	SCH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₂ OCH(CH ₃) ₂	SCH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
C ₂ H ₅	(CH ₂) ₃ OC(CH ₃) ₃	SCH ₃	(CH ₂) ₃ OC(CH ₃) ₃
C ₂ H ₅	(CH ₂) ₃ P(=O)(CH ₃) ₂	SCH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
C ₂ H ₅	CH ₂ C(=O)CH ₂ C(CH ₃) ₃	SCH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
C ₂ H ₅	CH(CH ₃)(CH ₂) ₃ CH ₃	SCH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
C ₂ H ₅	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	SCH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
C ₂ H ₅	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃	SCH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
C ₂ H ₅	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂	SCH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
C ₂ H ₅	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	SCH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
C ₂ H ₅	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂	SCH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂

[2c]

R^1	R^6	R^1	R^6
C ₂ H ₅	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂	SCH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
C ₂ H ₅	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃	SCH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
C ₂ H ₅	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂	SCH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
C ₂ H ₅	CH ₂ CH=C(CH ₃) ₂	SCH ₃	CH ₂ CH=C(CH ₃) ₂
C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃	SCH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ Cl	SCH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
C ₂ H ₅	CH ₂ CH ₂ CH=C(CH ₃) ₂	SCH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂



A	R ²	R ³	R ⁶
O	CH ₃	C ₂ H ₅	(CH ₂) ₄ CH ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
O	CH ₃	C ₂ H ₅	(CH ₂) ₅ CH ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₆ CH ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ Br
O	CH ₃	C ₂ H ₅	(CH ₂) ₇ CH ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ CH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ Si(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
O	CH ₃	C ₂ H ₅	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₂ OC(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₂ SC(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₂ SCH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	CH ₂ CH=CHC(CH ₃) ₃
O	CH ₃	C ₂ H ₅	CH ₂ CH=CHCH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	(CH ₂) ₂ S(=O)C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₂ OCH(CH ₃) ₂

[3b]

A	R ²	R ³	R ⁶
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ OC(CH ₃) ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ P(=O)(CH ₃) ₂
O	CH ₃	C ₂ H ₅	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	CH(CH ₃)(CH ₂) ₃ CH ₃
O	CH ₃	C ₂ H ₅	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
O	CH ₃	C ₂ H ₅	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
O	CH ₃	C ₂ H ₅	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
O	CH ₃	C ₂ H ₅	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
O	CH ₃	C ₂ H ₅	CH ₂ CH=C(CH ₃) ₂
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
O	CH ₃	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ Cl
O	CH ₃	C ₂ H ₅	CH ₂ CH ₂ CH=C(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₄ CH ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₅ CH ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₆ CH ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ Br
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₇ CH ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ CH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ Si(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₂ OC(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₂ SC(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₂ SCH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	CH ₂ CH=CHC(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	CH ₂ CH=CHCH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₂ S(=O)C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₂ OCH(CH ₃) ₂

[3c]

A	R ²	R ³	R ⁶
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ OC(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ P(=O)(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	CH(CH ₃)(CH ₂) ₃ CH ₃
O	C ₂ H ₅	C ₂ H ₅	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
O	C ₂ H ₅	C ₂ H ₅	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
O	C ₂ H ₅	C ₂ H ₅	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	CH ₂ CH=C(CH ₃) ₂
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
O	C ₂ H ₅	C ₂ H ₅	(CH ₂) ₃ C(CH ₃) ₂ Cl
O	C ₂ H ₅	C ₂ H ₅	CH ₂ CH ₂ CH=C(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	(CH ₂) ₄ CH ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
NCH ₃	CH ₃	CH ₃	(CH ₂) ₅ CH ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₆ CH ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
NCH ₃	CH ₃	CH ₃	(CH ₂) ₇ CH ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
NCH ₃	CH ₃	CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	CH ₂ CH=CHC(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂

[3d]

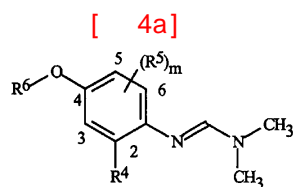
A	R ²	R ³	R ⁶
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ OC(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
NCH ₃	CH ₃	CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
NCH ₃	CH ₃	CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
NCH ₃	CH ₃	CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	CH ₂ CH=C(CH ₃) ₂
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
NCH ₃	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
NCH ₃	CH ₃	CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₄ CH ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
NH	CH ₃	CH ₃	(CH ₂) ₅ CH ₃
NH	CH ₃	CH ₃	(CH ₂) ₆ CH ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
NH	CH ₃	CH ₃	(CH ₂) ₇ CH ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
NH	CH ₃	CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
NH	CH ₃	CH ₃	CH ₂ CH=CHC(CH ₃) ₃
NH	CH ₃	CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂

[3e]

A	R ²	R ³	R ⁶
NH	CH ₃	CH ₃	(CH ₂) ₃ OC(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
NH	CH ₃	CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
NH	CH ₃	CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
NH	CH ₃	CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
NH	CH ₃	CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
NH	CH ₃	CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
NH	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
NH	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
NH	CH ₃	CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
NH	CH ₃	CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
NH	CH ₃	CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
NH	CH ₃	CH ₃	CH ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
NH	CH ₃	CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
NH	CH ₃	CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₈ CH ₃
NH	CH ₃	CH ₃	(CH ₂) ₉ CH ₃
NH	CH ₃	CH ₃	(CH ₂) ₁₁ CH ₃
NH	CH ₃	CH ₃	(CH ₂) ₄ CH(CH ₃) ₂
NH	CH ₃	CH ₃	C(=O)OCH(C ₂ H ₅)C(CH ₃) ₃
NH	CH ₃	CH ₃	C(=O)OC(CH ₃) ₂ C(CH ₃) ₃
NH	CH ₃	CH ₃	CH ₂ CH ₂ CH ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	C(=O)CH ₂ SC(CH ₃) ₃
NH	CH ₃	CH ₃	(CH ₂) ₄ Cl
NH	CH ₃	CH ₃	(CH ₂) ₅ Cl
NH	CH ₃	CH ₃	(CH ₂) ₂ CH(CH ₃)(CH ₂) ₃ CH(CH ₃) ₂
NH	CH ₃	CH ₃	(S)-(CH ₂) ₂ CH(CH ₃)CH ₂ CH ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	(R)-(CH ₂) ₂ CH(CH ₃)CH ₂ CH ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₂ CH(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₂ C(CH ₃) ₃
NH	CH ₃	CH ₃	CH ₂ C(=O)C(CH ₃) ₃
NH	CH ₃	CH ₃	CH ₂ CH=C(CH ₃)(CH ₂) ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	CH ₂ (CH=C(CH ₃)(CH ₂) ₂) ₂ CH=C(CH ₃) ₂
NH	CH ₃	CH ₃	(CH ₂) ₃ CH=CH ₂
NH	CH ₃	CH ₃	(CH ₂) ₄ CH=CH ₂
NH	CH ₃	CH ₃	CH(C ₂ H ₅) ₂

[3f]

A	R ²	R ³	R ⁶
NH	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH ₃) ₂
NH	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH ₂ CH ₃) ₂
NH	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH ₂ CH ₃
NH	CH ₃	CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃)(C ₂ H ₅)
NH	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH ₂ CH ₂ CH ₃) ₂
NH	CH ₃	CH ₃	CH(CH ₂ CH ₂ CH ₂ CH ₃)(CH ₂) ₅ CH ₃
NH	CH ₃	CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ C(=CH ₂)CH ₃



R^4	m	R^5	R^6
CH ₃	1	5-Cl	(CH ₂) ₄ CH ₃
CH ₃	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CH ₃	1	5-Cl	(CH ₂) ₅ CH ₃
CH ₃	1	5-Cl	(CH ₂) ₆ CH ₃
CH ₃	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₂ Br
CH ₃	1	5-Cl	(CH ₂) ₇ CH ₃
CH ₃	1	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂
CH ₃	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CH ₃	1	5-Cl	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CH ₃	1	5-Cl	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₂ OC(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₂ SC(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₂ SCH(CH ₃) ₂
CH ₃	1	5-Cl	CH ₂ CH=CHC(CH ₃) ₃
CH ₃	1	5-Cl	CH ₂ CH=CHCH(CH ₃) ₂
CH ₃	1	5-Cl	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	1	5-Cl	(CH ₂) ₂ OCH(CH ₃) ₂
CH ₃	1	5-Cl	(CH ₂) ₃ OC(CH ₃) ₃

[4b]

R^4	m	R^5	R^6
CH ₃	1	5-Cl	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	1	5-Cl	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	1	5-Cl	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	1	5-Cl	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-Cl	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	1	5-Cl	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-Cl	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-Cl	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	1	5-Cl	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	1	5-Cl	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	1	5-Cl	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	1	5-Cl	CH ₂ CH=C(CH ₃) ₂
CH ₃	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	1	5-Cl	CH ₂ CH ₂ CH=C(CH ₃) ₂
Cl	1	5-CH ₃	(CH ₂) ₄ CH ₃
Cl	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
Cl	1	5-CH ₃	(CH ₂) ₅ CH ₃
Cl	1	5-CH ₃	(CH ₂) ₆ CH ₃
Cl	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
Cl	1	5-CH ₃	(CH ₂) ₇ CH ₃
Cl	1	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
Cl	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
Cl	1	5-CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
Cl	1	5-CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
Cl	1	5-CH ₃	CH ₂ CH=CHC(CH ₃) ₃
Cl	1	5-CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
Cl	1	5-CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
Cl	1	5-CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
Cl	1	5-CH ₃	(CH ₂) ₃ OC(CH ₃) ₃

[4c]

R^4	m	R^5	R^6
Cl	1	5-CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
Cl	1	5-CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
Cl	1	5-CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
Cl	1	5-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
Cl	1	5-CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
Cl	1	5-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
Cl	1	5-CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
Cl	1	5-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
Cl	1	5-CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
Cl	1	5-CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
Cl	1	5-CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
Cl	1	5-CH ₃	CH ₂ CH=C(CH ₃) ₂
Cl	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
Cl	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
Cl	1	5-CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
Cl	1	5-Cl	(CH ₂) ₄ CH ₃
Cl	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
Cl	1	5-Cl	(CH ₂) ₅ CH ₃
Cl	1	5-Cl	(CH ₂) ₆ CH ₃
Cl	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₂ Br
Cl	1	5-Cl	(CH ₂) ₇ CH ₃
Cl	1	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂
Cl	1	5-Cl	(CH ₂) ₃ C(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
Cl	1	5-Cl	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
Cl	1	5-Cl	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₂ OC(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₂ SC(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₂ SCH(CH ₃) ₂
Cl	1	5-Cl	CH ₂ CH=CHC(CH ₃) ₃
Cl	1	5-Cl	CH ₂ CH=CHCH(CH ₃) ₂
Cl	1	5-Cl	(CH ₂) ₂ S(=O)C(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
Cl	1	5-Cl	(CH ₂) ₂ OCH(CH ₃) ₂
Cl	1	5-Cl	(CH ₂) ₃ OC(CH ₃) ₃

[4d]

R^4	m	R^5	R^6
Cl	1	5-Cl	$(CH_2)_3P(=O)(CH_3)_2$
Cl	1	5-Cl	$CH_2C(=O)CH_2C(CH_3)_3$
Cl	1	5-Cl	$CH(CH_3)(CH_2)_3CH_3$
Cl	1	5-Cl	$CH(CH_3)CH_2CH_2CH(CH_3)_2$
Cl	1	5-Cl	$CH(CH_3)CH_2CH_2C(CH_3)_3$
Cl	1	5-Cl	$CH(C_2H_5)CH_2CH_2CH(CH_3)_2$
Cl	1	5-Cl	$CH(CH_2CH_2CH_3)CH_2CH_2CH(CH_3)_2$
Cl	1	5-Cl	$CH(CH_2CH_2CH(CH_3)_2)_2$
Cl	1	5-Cl	$CH_2CH_2CH_2N(CH_3)_2$
Cl	1	5-Cl	$CH_2CH_2N(CH_3)C(CH_3)_3$
Cl	1	5-Cl	$CH_2CH_2N(CH_3)CH(CH_3)_2$
Cl	1	5-Cl	$CH_2CH=C(CH_3)_2$
Cl	1	5-Cl	$(CH_2)_3C(CH_3)_2OCH_3$
Cl	1	5-Cl	$(CH_2)_3C(CH_3)_2Cl$
Cl	1	5-Cl	$CH_2CH_2CH=C(CH_3)_2$
CH ₃	0	-	$(CH_2)_4CH_3$
CH ₃	0	-	$(CH_2)_3C(CH_3)_2OC_2H_5$
CH ₃	0	-	$(CH_2)_5CH_3$
CH ₃	0	-	$(CH_2)_6CH_3$
CH ₃	0	-	$(CH_2)_3C(CH_3)_2Br$
CH ₃	0	-	$(CH_2)_7CH_3$
CH ₃	0	-	$(CH_2)_3CH(CH_3)_2$
CH ₃	0	-	$(CH_2)_3C(CH_3)_3$
CH ₃	0	-	$(CH_2)_3Si(CH_3)_3$
CH ₃	0	-	$(CH_2)_2CH(CH_3)CH_2C(CH_3)_3$
CH ₃	0	-	$(CH_2)_3C(=CH_2)CH(CH_3)_2$
CH ₃	0	-	$(CH_2)_3CH(CH_3)C_2H_5$
CH ₃	0	-	$(CH_2)_2OSi(CH_3)_2C(CH_3)_3$
CH ₃	0	-	$(CH_2)_2OC(CH_3)_3$
CH ₃	0	-	$(CH_2)_2SC(CH_3)_3$
CH ₃	0	-	$(CH_2)_2SCH(CH_3)_2$
CH ₃	0	-	$CH_2CH=CHC(CH_3)_3$
CH ₃	0	-	$CH_2CH=CHCH(CH_3)_2$
CH ₃	0	-	$(CH_2)_2S(=O)C(CH_3)_3$
CH ₃	0	-	$(CH_2)_3OSi(CH_3)_2C(CH_3)_3$
CH ₃	0	-	$(CH_2)_2OCH(CH_3)_2$
CH ₃	0	-	$(CH_2)_3OC(CH_3)_3$

[4e]

R^4	m	R^5	R^6
CH ₃	0	-	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	0	-	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	0	-	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	0	-	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	0	-	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	0	-	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	0	-	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	0	-	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	0	-	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	0	-	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	0	-	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	0	-	CH ₂ CH=C(CH ₃) ₂
CH ₃	0	-	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	0	-	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	0	-	CH ₂ CH ₂ CH=C(CH ₃) ₂
CF ₃	1	5-CH ₃	(CH ₂) ₄ CH ₃
CF ₃	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CF ₃	1	5-CH ₃	(CH ₂) ₅ CH ₃
CF ₃	1	5-CH ₃	(CH ₂) ₆ CH ₃
CF ₃	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
CF ₃	1	5-CH ₃	(CH ₂) ₇ CH ₃
CF ₃	1	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
CF ₃	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CF ₃	1	5-CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CF ₃	1	5-CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
CF ₃	1	5-CH ₃	CH ₂ CH=CHC(CH ₃) ₃
CF ₃	1	5-CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
CF ₃	1	5-CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CF ₃	1	5-CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
CF ₃	1	5-CH ₃	(CH ₂) ₃ OC(CH ₃) ₃

[4f]

R^4	m	R^5	R^6
CF ₃	1	5-CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
CF ₃	1	5-CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CF ₃	1	5-CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
CF ₃	1	5-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CF ₃	1	5-CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CF ₃	1	5-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CF ₃	1	5-CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CF ₃	1	5-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CF ₃	1	5-CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CF ₃	1	5-CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CF ₃	1	5-CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CF ₃	1	5-CH ₃	CH ₂ CH=C(CH ₃) ₂
CF ₃	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CF ₃	1	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
CF ₃	1	5-CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₄ CH ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₅ CH ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₆ CH ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ C(CH ₃) ₂ Br
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₇ CH ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ CH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ Si(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₂ OC(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₂ SC(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₂ SCH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ CH=CHC(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ CH=CHCH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₂ OCH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ OC(CH ₃) ₃

[4g]

R^4	m	R^5	R^6
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	2	5-CH ₃ -6-Cl	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ CH=C(CH ₃) ₂
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	2	5-CH ₃ -6-Cl	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	2	5-CH ₃ -6-Cl	CH ₂ CH ₂ CH=C(CH ₃) ₂
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₄ CH ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₅ CH ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₆ CH ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₇ CH ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ C(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
CH ₃	2	3,5- ¹⁴ C-CH ₃	CH ₂ CH=CHC(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
CH ₃	2	3,5- ¹⁴ C-CH ₃	(CH ₂) ₃ OC(CH ₃) ₃

[4h]

R^4	m	R^5	R^6
CH ₃	2	3,5- Cl_2 -CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	2	3,5- Cl_2 -CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	2	3,5- Cl_2 -CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	2	3,5- Cl_2 -CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	2	3,5- Cl_2 -CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	CH ₂ CH=C(CH ₃) ₂
CH ₃	2	3,5- Cl_2 -CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	2	3,5- Cl_2 -CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	2	3,5- Cl_2 -CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
CH ₃	1	3-CH ₃	(CH ₂) ₄ CH ₃
CH ₃	1	3-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CH ₃	1	3-CH ₃	(CH ₂) ₅ CH ₃
CH ₃	1	3-CH ₃	(CH ₂) ₆ CH ₃
CH ₃	1	3-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
CH ₃	1	3-CH ₃	(CH ₂) ₇ CH ₃
CH ₃	1	3-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
CH ₃	1	3-CH ₃	(CH ₂) ₃ C(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CH ₃	1	3-CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CH ₃	1	3-CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
CH ₃	1	3-CH ₃	CH ₂ CH=CHC(CH ₃) ₃
CH ₃	1	3-CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
CH ₃	1	3-CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	1	3-CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
CH ₃	1	3-CH ₃	(CH ₂) ₃ OC(CH ₃) ₃

[4i]

R^4	m	R^5	R^6
CH ₃	1	3-CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	1	3-CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	1	3-CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	1	3-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	3-CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	1	3-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	3-CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	3-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	1	3-CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	1	3-CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	1	3-CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	1	3-CH ₃	CH ₂ CH=C(CH ₃) ₂
CH ₃	1	3-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	1	3-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	1	3-CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₄ CH ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₅ CH ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₆ CH ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₇ CH ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
CH ₃	3	3,6- α -Cl-5-CH ₃	CH ₂ CH=CHC(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
CH ₃	3	3,6- α -Cl-5-CH ₃	(CH ₂) ₃ OC(CH ₃) ₃

[4j]

R^4	m	R^5	R^6
CH ₃	3	3,6-다-Cl-5-CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	3	3,6-다-Cl-5-CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	3	3,6-다-Cl-5-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	3	3,6-다-Cl-5-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	3	3,6-다-Cl-5-CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	CH ₂ CH=C(CH ₃) ₂
CH ₃	3	3,6-다-Cl-5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	3	3,6-다-Cl-5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	3	3,6-다-Cl-5-CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂
F	3	3,5,6-트라-F	(CH ₂) ₄ CH ₃
F	3	3,5,6-트라-F	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
F	3	3,5,6-트라-F	(CH ₂) ₅ CH ₃
F	3	3,5,6-트라-F	(CH ₂) ₆ CH ₃
F	3	3,5,6-트라-F	(CH ₂) ₃ C(CH ₃) ₂ Br
F	3	3,5,6-트라-F	(CH ₂) ₇ CH ₃
F	3	3,5,6-트라-F	(CH ₂) ₃ CH(CH ₃) ₂
F	3	3,5,6-트라-F	(CH ₂) ₃ C(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₃ Si(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
F	3	3,5,6-트라-F	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
F	3	3,5,6-트라-F	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₂ OC(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₂ SC(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₂ SCH(CH ₃) ₂
F	3	3,5,6-트라-F	CH ₂ CH=CHC(CH ₃) ₃
F	3	3,5,6-트라-F	CH ₂ CH=CHCH(CH ₃) ₂
F	3	3,5,6-트라-F	(CH ₂) ₂ S(=O)C(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
F	3	3,5,6-트라-F	(CH ₂) ₂ OCH(CH ₃) ₂
F	3	3,5,6-트라-F	(CH ₂) ₃ OC(CH ₃) ₃

[4k]

R^4	m	R^5	R^6
F	3	3,5,6-트리-F	$(CH_2)_3P(=O)(CH_3)_2$
F	3	3,5,6-트리-F	$CH_2C(=O)CH_2C(CH_3)_3$
F	3	3,5,6-트리-F	$CH(CH_3)(CH_2)_3CH_3$
F	3	3,5,6-트리-F	$CH(CH_3)CH_2CH_2CH(CH_3)_2$
F	3	3,5,6-트리-F	$CH(CH_3)CH_2CH_2C(CH_3)_3$
F	3	3,5,6-트리-F	$CH(C_2H_5)CH_2CH_2CH(CH_3)_2$
F	3	3,5,6-트리-F	$CH(CH_2CH_2CH_3)CH_2CH_2CH(CH_3)_2$
F	3	3,5,6-트리-F	$CH(CH_2CH_2CH(CH_3)_2)_2$
F	3	3,5,6-트리-F	$CH_2CH_2CH_2N(CH_3)_2$
F	3	3,5,6-트리-F	$CH_2CH_2N(CH_3)C(CH_3)_3$
F	3	3,5,6-트리-F	$CH_2CH_2N(CH_3)CH(CH_3)_2$
F	3	3,5,6-트리-F	$CH_2CH=C(CH_3)_2$
F	3	3,5,6-트리-F	$(CH_2)_3C(CH_3)_2OCH_3$
F	3	3,5,6-트리-F	$(CH_2)_3C(CH_3)_2Cl$
F	3	3,5,6-트리-F	$CH_2CH_2CH=C(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$(CH_2)_4CH_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3C(CH_3)_2OC_2H_5$
Cl	3	3,5,6-트리-Cl	$(CH_2)_5CH_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_6CH_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3C(CH_3)_2Br$
Cl	3	3,5,6-트리-Cl	$(CH_2)_7CH_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3CH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3Si(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_2CH(CH_3)CH_2C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3C(=CH_2)CH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3CH(CH_3)C_2H_5$
Cl	3	3,5,6-트리-Cl	$(CH_2)_2OSi(CH_3)_2C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_2OC(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_2SC(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_2SCH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$CH_2CH=CHC(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$CH_2CH=CHCH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$(CH_2)_2S(=O)C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3OSi(CH_3)_2C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_2OCH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3OC(CH_3)_3$

[41]

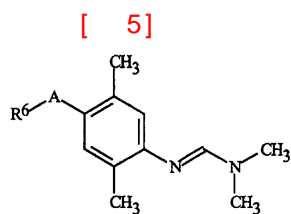
R^4	m	R^5	R^6
Cl	3	3,5,6-트리-Cl	$(CH_2)_3P(=O)(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$CH_2C(=O)CH_2C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$CH(CH_3)(CH_2)_3CH_3$
Cl	3	3,5,6-트리-Cl	$CH(CH_3)CH_2CH_2CH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$CH(CH_3)CH_2CH_2C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$CH(C_2H_5)CH_2CH_2CH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$CH(CH_2CH_2CH_3)CH_2CH_2CH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$CH(CH_2CH_2CH(CH_3)_2)_2$
Cl	3	3,5,6-트리-Cl	$CH_2CH_2CH_2N(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$CH_2CH_2N(CH_3)C(CH_3)_3$
Cl	3	3,5,6-트리-Cl	$CH_2CH_2N(CH_3)CH(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$CH_2CH=C(CH_3)_2$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3C(CH_3)_2OCH_3$
Cl	3	3,5,6-트리-Cl	$(CH_2)_3C(CH_3)_2Cl$
Cl	3	3,5,6-트리-Cl	$CH_2CH_2CH=C(CH_3)_2$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_4CH_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3C(CH_3)_2OC_2H_5$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_5CH_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_6CH_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3C(CH_3)_2Br$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_7CH_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3CH(CH_3)_2$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3C(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3Si(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_2CH(CH_3)CH_2C(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3C(=CH_2)CH(CH_3)_2$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3CH(CH_3)C_2H_5$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_2OSi(CH_3)_2C(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_2OC(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_2SC(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_2SCH(CH_3)_2$
CH ₃	1	5-CH(CH ₃) ₂	$CH_2CH=CHC(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$CH_2CH=CHCH(CH_3)_2$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_2S(=O)C(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3OSi(CH_3)_2C(CH_3)_3$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_2OCH(CH_3)_2$
CH ₃	1	5-CH(CH ₃) ₂	$(CH_2)_3OC(CH_3)_3$

[4m]

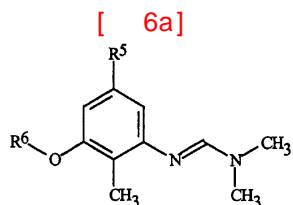
R^4	m	R^5	R^6
CH ₃	1	5-CH(CH ₃) ₂	(CH ₂) ₃ P(=O)(CH ₃) ₂
CH ₃	1	5-CH(CH ₃) ₂	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	1	5-CH(CH ₃) ₂	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	1	5-CH(CH ₃) ₂	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-CH(CH ₃) ₂	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	1	5-CH(CH ₃) ₂	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-CH(CH ₃) ₂	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-CH(CH ₃) ₂	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	1	5-CH(CH ₃) ₂	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	1	5-CH(CH ₃) ₂	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	1	5-CH(CH ₃) ₂	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	1	5-CH(CH ₃) ₂	CH ₂ CH=C(CH ₃) ₂
CH ₃	1	5-CH(CH ₃) ₂	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	1	5-CH(CH ₃) ₂	(CH ₂) ₃ C(CH ₃) ₂ Cl
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₄ CH ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₅ CH ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₆ CH ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₇ CH ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ CH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ Si(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₂ OC(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₂ SC(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₂ SCH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	CH ₂ CH=CHC(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	CH ₂ CH=CHCH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₂ OCH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ OC(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂

[4n]

R^4	m	R^5	R^6
CH ₃	1	5-C(CH ₃) ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
CH ₃	1	5-C(CH ₃) ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
CH ₃	1	5-C(CH ₃) ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
CH ₃	1	5-C(CH ₃) ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	CH ₂ CH=C(CH ₃) ₂
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
CH ₃	1	5-C(CH ₃) ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl



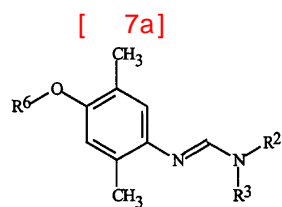
A	R ⁶
NH	C(=O)CH ₂ SC(CH ₃) ₃
NH	C(=O)CH ₂ S(=O)C(CH ₃) ₃
NH	C(=O)CH ₂ S(=O) ₂ C(CH ₃) ₃
NH	C(=O)OCH ₂ C(CH ₃) ₃
NH	C(=O)NHCH ₂ C(CH ₃) ₃
NH	C(=O)N(CH ₃)CH ₂ C(CH ₃) ₃
NH	C(=O)OCH ₂ CH(CH ₃) ₂
NH	C(=O)NHCH ₂ CH(CH ₃) ₂
NH	C(=O)N(CH ₃)CH ₂ CH(CH ₃) ₂
O	C(CH ₃) ₂ CH ₂ CH ₂ CH(CH ₃) ₂
O	C(CH ₃)(CH ₂ CH ₂ CH ₂ CH ₃) ₂
O	C(CH ₃)(CH ₂ CH ₂ CH ₃) ₂



<u>R⁵</u>	<u>R⁶</u>
5-CH ₃	(CH ₂) ₄ CH ₃
5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
5-CH ₃	(CH ₂) ₅ CH ₃
5-CH ₃	(CH ₂) ₆ CH ₃
5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Br
5-CH ₃	(CH ₂) ₇ CH ₃
5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂
5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃
5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃
5-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
5-CH ₃	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
5-CH ₃	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
5-CH ₃	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
5-CH ₃	(CH ₂) ₂ OC(CH ₃) ₃
5-CH ₃	(CH ₂) ₂ SC(CH ₃) ₃
5-CH ₃	(CH ₂) ₂ SCH(CH ₃) ₂
5-CH ₃	CH ₂ CH=CHC(CH ₃) ₃
5-CH ₃	CH ₂ CH=CHCH(CH ₃) ₂
5-CH ₃	(CH ₂) ₂ S(=O)C(CH ₃) ₃
5-CH ₃	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
5-CH ₃	(CH ₂) ₂ OCH(CH ₃) ₂
5-CH ₃	(CH ₂) ₃ OC(CH ₃) ₃
5-CH ₃	(CH ₂) ₃ P(=O)(CH ₃) ₂
5-CH ₃	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
5-CH ₃	CH(CH ₃)(CH ₂) ₃ CH ₃
5-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
5-CH ₃	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
5-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
5-CH ₃	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
5-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂

[6b]

<u>R⁵</u>	<u>R⁶</u>
5-CH ₃	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
5-CH ₃	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
5-CH ₃	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
5-CH ₃	CH ₂ CH=C(CH ₃) ₂
5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
5-CH ₃	(CH ₂) ₃ C(CH ₃) ₂ Cl
5-CH ₃	CH ₂ CH ₂ CH=C(CH ₃) ₂



$R^2 + R^3$	R^6
$-(CH_2)_4-$	$(CH_2)_4CH_3$
$-(CH_2)_4-$	$(CH_2)_3C(CH_3)_2OC_2H_5$
$-(CH_2)_4-$	$(CH_2)_5CH_3$
$-(CH_2)_4-$	$(CH_2)_6CH_3$
$-(CH_2)_4-$	$(CH_2)_3C(CH_3)_2Br$
$-(CH_2)_4-$	$(CH_2)_7CH_3$
$-(CH_2)_4-$	$(CH_2)_3CH(CH_3)_2$
$-(CH_2)_4-$	$(CH_2)_3C(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_3Si(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_2CH(CH_3)CH_2C(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_3C(=CH_2)CH(CH_3)_2$
$-(CH_2)_4-$	$(CH_2)_3CH(CH_3)C_2H_5$
$-(CH_2)_4-$	$(CH_2)_2OSi(CH_3)_2C(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_2OC(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_2SC(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_2SCH(CH_3)_2$
$-(CH_2)_4-$	$CH_2CH=CHC(CH_3)_3$
$-(CH_2)_4-$	$CH_2CH=CHCH(CH_3)_2$
$-(CH_2)_4-$	$(CH_2)_2S(=O)C(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_3OSi(CH_3)_2C(CH_3)_3$
$-(CH_2)_4-$	$(CH_2)_2OCH(CH_3)_2$

[7b]

$R^2 + R^3$	R^6
-(CH ₂) ₄ -	(CH ₂) ₃ OC(CH ₃) ₃
-(CH ₂) ₄ -	(CH ₂) ₃ P(=O)(CH ₃) ₂
-(CH ₂) ₄ -	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
-(CH ₂) ₄ -	CH(CH ₃)(CH ₂) ₃ CH ₃
-(CH ₂) ₄ -	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
-(CH ₂) ₄ -	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
-(CH ₂) ₄ -	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
-(CH ₂) ₄ -	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
-(CH ₂) ₄ -	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
-(CH ₂) ₄ -	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
-(CH ₂) ₄ -	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
-(CH ₂) ₄ -	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
-(CH ₂) ₄ -	CH ₂ CH=C(CH ₃) ₂
-(CH ₂) ₄ -	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
-(CH ₂) ₄ -	(CH ₂) ₃ C(CH ₃) ₂ Cl
-(CH ₂) ₄ -	CH ₂ CH ₂ CH=C(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₄ CH ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₅ CH ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₆ CH ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ C(CH ₃) ₂ Br
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₇ CH ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ CH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ Si(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₂ OC(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₂ SC(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₂ SCH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ CH=CHC(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ CH=CHCH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₂ S(=O)C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₂ OCH(CH ₃) ₂

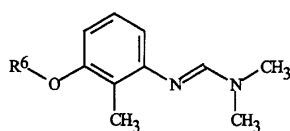
[7c]

$R^2 + R^3$	R^6
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ OC(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ P(=O)(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH(CH ₃)(CH ₂) ₃ CH ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ CH=C(CH ₃) ₂
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
-CH ₂ CH ₂ OCH ₂ CH ₂ -	(CH ₂) ₃ C(CH ₃) ₂ Cl
-CH ₂ CH ₂ OCH ₂ CH ₂ -	CH ₂ CH ₂ CH=C(CH ₃) ₂
-(CH ₂) ₅ -	(CH ₂) ₄ CH ₃
-(CH ₂) ₅ -	(CH ₂) ₃ C(CH ₃) ₂ OC ₂ H ₅
-(CH ₂) ₅ -	(CH ₂) ₅ CH ₃
-(CH ₂) ₅ -	(CH ₂) ₆ CH ₃
-(CH ₂) ₅ -	(CH ₂) ₃ C(CH ₃) ₂ Br
-(CH ₂) ₅ -	(CH ₂) ₇ CH ₃
-(CH ₂) ₅ -	(CH ₂) ₃ CH(CH ₃) ₂
-(CH ₂) ₅ -	(CH ₂) ₃ C(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₃ Si(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₃ C(=CH ₂)CH(CH ₃) ₂
-(CH ₂) ₅ -	(CH ₂) ₃ CH(CH ₃)C ₂ H ₅
-(CH ₂) ₅ -	(CH ₂) ₂ OSi(CH ₃) ₂ C(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₂ OC(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₂ SC(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₂ SCH(CH ₃) ₂
-(CH ₂) ₅ -	CH ₂ CH=CHC(CH ₃) ₃
-(CH ₂) ₅ -	CH ₂ CH=CHCH(CH ₃) ₂
-(CH ₂) ₅ -	(CH ₂) ₂ S(=O)C(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₂ OCH(CH ₃) ₂

[7d]

$R^2 + R^3$	R^6
-(CH ₂) ₅ -	(CH ₂) ₃ OC(CH ₃) ₃
-(CH ₂) ₅ -	(CH ₂) ₃ P(=O)(CH ₃) ₂
-(CH ₂) ₅ -	CH ₂ C(=O)CH ₂ C(CH ₃) ₃
-(CH ₂) ₅ -	CH(CH ₃)(CH ₂) ₃ CH ₃
-(CH ₂) ₅ -	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
-(CH ₂) ₅ -	CH(CH ₃)CH ₂ CH ₂ C(CH ₃) ₃
-(CH ₂) ₅ -	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂
-(CH ₂) ₅ -	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂
-(CH ₂) ₅ -	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂
-(CH ₂) ₅ -	CH ₂ CH ₂ CH ₂ N(CH ₃) ₂
-(CH ₂) ₅ -	CH ₂ CH ₂ N(CH ₃)C(CH ₃) ₃
-(CH ₂) ₅ -	CH ₂ CH ₂ N(CH ₃)CH(CH ₃) ₂
-(CH ₂) ₅ -	CH ₂ CH=C(CH ₃) ₂
-(CH ₂) ₅ -	(CH ₂) ₃ C(CH ₃) ₂ OCH ₃
-(CH ₂) ₅ -	(CH ₂) ₃ C(CH ₃) ₂ Cl
-(CH ₂) ₅ -	CH ₂ CH ₂ CH=C(CH ₃) ₂

[8a]

R⁶

$(\text{CH}_2)_4\text{CH}_3$
 $(\text{CH}_2)_3\text{C}(\text{CH}_3)_2\text{OC}_2\text{H}_5$
 $(\text{CH}_2)_5\text{CH}_3$
 $(\text{CH}_2)_6\text{CH}_3$
 $(\text{CH}_2)_3\text{C}(\text{CH}_3)_2\text{Br}$
 $(\text{CH}_2)_7\text{CH}_3$
 $(\text{CH}_2)_3\text{CH}(\text{CH}_3)_2$
 $(\text{CH}_2)_3\text{C}(\text{CH}_3)_3$
 $(\text{CH}_2)_3\text{Si}(\text{CH}_3)_3$
 $(\text{CH}_2)_2\text{CH}(\text{CH}_3)\text{CH}_2\text{C}(\text{CH}_3)_3$
 $(\text{CH}_2)_3\text{C}(\text{CH}_3)\text{CH}(\text{CH}_3)_2$
 $(\text{CH}_2)_3\text{CH}(\text{CH}_3)\text{C}_2\text{H}_5$
 $(\text{CH}_2)_2\text{OSi}(\text{CH}_3)_2\text{C}(\text{CH}_3)_3$

R⁶

$(\text{CH}_2)_3\text{OSi}(\text{CH}_3)_2\text{C}(\text{CH}_3)_3$
 $(\text{CH}_2)_2\text{OCH}(\text{CH}_3)_2$
 $(\text{CH}_2)_3\text{OC}(\text{CH}_3)_3$
 $(\text{CH}_2)_3\text{P}(=\text{O})(\text{CH}_3)_2$
 $\text{CH}_2\text{C}(=\text{O})\text{CH}_2\text{C}(\text{CH}_3)_3$
 $\text{CH}(\text{CH}_3)(\text{CH}_2)_3\text{CH}_3$
 $\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)_2$
 $\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{C}(\text{CH}_3)_3$
 $\text{CH}(\text{C}_2\text{H}_5)\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)_2$
 $\text{CH}(\text{CH}_2\text{CH}_2\text{CH}_3)\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)_2$
 $\text{CH}(\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)_2)_2$
 $\text{CH}_2\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)_2$
 $\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)\text{C}(\text{CH}_3)_3$

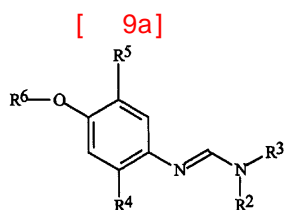
[8b]

R⁶

$(\text{CH}_2)_2\text{OC}(\text{CH}_3)_3$
 $(\text{CH}_2)_2\text{SC}(\text{CH}_3)_3$
 $(\text{CH}_2)_2\text{SCH}(\text{CH}_3)_2$
 $\text{CH}_2\text{CH}=\text{CHC}(\text{CH}_3)_3$
 $\text{CH}_2\text{CH}=\text{CHCH}(\text{CH}_3)_2$
 $(\text{CH}_2)_2\text{S}(=\text{O})\text{C}(\text{CH}_3)_3$

R⁶

$\text{CH}_2\text{CH}_2\text{N}(\text{CH}_3)\text{CH}(\text{CH}_3)_2$
 $\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$
 $(\text{CH}_2)_3\text{C}(\text{CH}_3)_2\text{OCH}_3$
 $(\text{CH}_2)_3\text{C}(\text{CH}_3)_2\text{Cl}$
 $\text{CH}_2\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$



<u>R⁶</u>	<u>R²</u>	<u>R³</u>	<u>R⁴</u>	<u>R⁵</u>
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₃	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₃	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₃	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₃	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH(CH ₃) ₂	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH(CH ₃) ₂	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH(CH ₃) ₂	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH(CH ₃) ₂	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	<i>c</i> -Pr	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	<i>c</i> -Pr	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	<i>c</i> -Pr	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	<i>c</i> -Pr	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	C ₂ H ₅	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	C ₂ H ₅	C ₂ H ₅	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ CH=CH ₂	CH ₃	C ₂ H ₅
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ CH=CH ₂	CH ₃	C ₂ H ₅

[9b]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2CH=CH_2$	CH ₃	C_2H_5
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH=CH_2$	CH ₃	C_2H_5
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	CH ₃	C_2H_5
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	CH ₃	C_2H_5
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2C\equiv CH$	CH ₃	C_2H_5
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	CH ₃	C_2H_5
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	CH ₃	C_2H_5
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	CH ₃	C_2H_5
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	CH ₃	Br
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	CH ₃	Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	CH ₃	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₃	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH(CH_3)_2$	CH ₃	Br
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH(CH_3)_2$	CH ₃	Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH(CH_3)_2$	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH(CH_3)_2$	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	Br
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	CH ₃	Br
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	CH ₃	Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2CH=CH_2$	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH=CH_2$	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	CH ₃	Br
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	CH ₃	Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2C\equiv CH$	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	CH ₃	Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	CH ₃	Br

[9c]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	CH_2F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CH_2F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CH_2F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CH_2F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CH_2F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	CHF_2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	CHF_2

[9d]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CHF_2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$c\text{-Pr}$	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$c\text{-Pr}$	CH_3	CHF_2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$c\text{-Pr}$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$c\text{-Pr}$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CHF_2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CHF_2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CHF_2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CHF_2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CHF_2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	CF_3
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	CF_3
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CF_3
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CF_3
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$c\text{-Pr}$	CH_3	CF_3

[9e]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CF_3
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CF_3
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CF_3
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CF_3
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CF_3
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CF_3
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CF_3
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	CH_2Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	CH_2Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CH_2Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CH_2Cl
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	CH_2Cl

[9f]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CH_2Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CH_2Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	CH_2Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CH_2Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Br
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Br

[9g]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CH_2Br
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CH_2Br
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	C_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	C_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	C_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	C_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	C_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	C_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	C_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_2Br	Cl

[9h]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>n</i> -Pr	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_2Br	F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_2Br	F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_2Br	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_2Br	F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_2Br	F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_2Br	F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_2Br	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_2Br	F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2Br	F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2Br	F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_2Br	F

[9i]

<u>R⁶</u>	<u>R²</u>	<u>R³</u>	<u>R⁴</u>	<u>R⁵</u>
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH(CH ₃) ₂	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	<i>c</i> -Pr	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	<i>c</i> -Pr	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	<i>c</i> -Pr	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	<i>c</i> -Pr	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	C ₂ H ₅	C ₂ H ₅	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	C ₂ H ₅	C ₂ H ₅	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ CH=CH ₂	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ CH=CH ₂	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₂ CH=CH ₂	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₂ CH=CH ₂	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ C≡CH	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ C≡CH	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₂ C≡CH	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₂ C≡CH	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ CH ₂ F	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ CH ₂ F	CH ₂ Br	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₃	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₃	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₃	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₃	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	C ₂ H ₅	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	C ₂ H ₅	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	C ₂ H ₅	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	C ₂ H ₅	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH(CH ₃) ₂	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH(CH ₃) ₂	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH(CH ₃) ₂	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH(CH ₃) ₂	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	<i>c</i> -Pr	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	<i>c</i> -Pr	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	<i>c</i> -Pr	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	<i>c</i> -Pr	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	C ₂ H ₅	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	C ₂ H ₅	F

[9j]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	C_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	C_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_2SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_2SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_2SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_2SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_2SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_2SCH_3	Cl

[9k]

<u>R⁶</u>	<u>R²</u>	<u>R³</u>	<u>R⁴</u>	<u>R⁵</u>
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ C≡CH	CH ₂ SCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₂ C≡CH	CH ₂ SCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₂ C≡CH	CH ₂ SCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ CH ₂ F	CH ₂ SCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ CH ₂ F	CH ₂ SCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₃	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₃	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₃	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₃	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH(CH ₃) ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH(CH ₃) ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH(CH ₃) ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH(CH ₃) ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	c-Pr	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	c-Pr	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	c-Pr	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	c-Pr	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	C ₂ H ₅	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	C ₂ H ₅	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	C ₂ H ₅	C ₂ H ₅	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ CH=CH ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ CH=CH ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₂ CH=CH ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₂ CH=CH ₂	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ C≡CH	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ C≡CH	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	CH ₃	CH ₂ C≡CH	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	CH ₃	CH ₂ C≡CH	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₂ CH ₂ F	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₂ CH ₂ F	CH ₂ OCH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	CH ₃	CH ₃	CH ₃	CN
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	CH ₃	CH ₃	CH ₃	CN

[91]

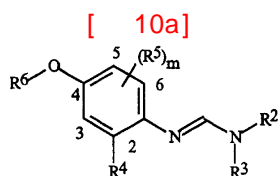
R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CHO

[9m]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_2Br	$C\equiv N$

[9n]

R^6	R^2	R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_2Br	$C\equiv N$
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_2Br	$C\equiv N$



R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>o</i> -Pr	CH_3	5,6- -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>o</i> -Pr	CH_3	5,6- -Cl	2

[10b]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5,6- $\text{-}\text{C}\text{-Cl}$	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH_2CH_3$	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH_2CH_3$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH_2CH_3$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH_2CH_2CH_3$	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH_2CH_2CH_3$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH_2CH_2CH_3$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5-Cl	1

[10c]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-Cl	1
$CH(CH_3)CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>n</i> -Pr	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH_2CH_3$	CH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH_2CH_3$	CH_3	5-F	1

[10d]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	CH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	CH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	CH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_2CH_3$	CH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	CH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	CH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_3$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_2CH_3$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH(CH_3)_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH(CH_3)_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH(CH_3)_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH(CH_3)_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2CH=CH_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH=CH_2$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2CH(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	CH ₃	5- <i>i</i> -Pr	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	SCH ₃	5-Cl	1

[10e]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH(CH ₃) ₂	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH(CH ₃) ₂	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH(CH ₃) ₂	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>n</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>n</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>n</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>n</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH=CH ₂	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ C≡CH	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ C≡CH	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ C≡CH	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH ₂ CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	OCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	OCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₃	OCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	OCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	OCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	OCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	OCH ₃	5-Cl	1

[10f]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH_2CH_3$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH_2CH_3$	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH_2CH_3$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH_2CH_2CH_3$	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH_2CH_2CH_3$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH_2CH_2CH_3$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	OC_2H_5	5-Cl	1

[10g]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH=CH ₂	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ C≡CH	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ C≡CH	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ C≡CH	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₃	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH ₂ CH ₃	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₃	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	OC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₃	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	SCH ₃	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH(CH ₃) ₂	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH(CH ₃) ₂	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH(CH ₃) ₂	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	SCH ₃	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	SCH ₃	5-F	1

[10h]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH=CH_2$	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_3$	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_2CH_3$	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	SCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	SCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₃	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C_2H_5	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C_2H_5	OCH ₃	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C_2H_5	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C_2H_5	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH(CH_3)_2$	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH(CH_3)_2$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH(CH_3)_2$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>n</i> -Pr	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>n</i> -Pr	OCH ₃	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>n</i> -Pr	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>n</i> -Pr	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH=CH_2$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_3$	OCH ₃	5-F	1

[10i]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_2CH_3$	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	OCH ₃	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	OCH ₃	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₃	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH(CH ₃) ₂	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH(CH ₃) ₂	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH(CH ₃) ₂	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH=CH_2$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_3$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_3$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH_2CH_2CH_3$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH_2CH_2CH_3$	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	OC ₂ H ₅	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	OC ₂ H ₅	5-F	1

[10j]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH_2CH_3$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH_2CH_3$	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH_2CH_3$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH_2CH_2CH_3$	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH_2CH_2CH_3$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH_2CH_2CH_3$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	SC_2H_5	5-Cl	1

[10k]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH(CH ₃) ₂	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH(CH ₃) ₂	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH(CH ₃) ₂	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH=CH ₂	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ C≡CH	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ C≡CH	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ C≡CH	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH ₂ CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH ₂ CH ₂ CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH(CH ₃) ₂	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH(CH ₃) ₂	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	CH(CH ₃) ₂	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH(CH ₃) ₂	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	CH ₃	5,6- η -CH ₃	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	CH ₃	5,6- η -CH ₃	2

[101]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5,6- η - CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	Cl	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	Cl	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	Cl	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	Cl	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	Cl	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	Cl	5- CH_3	1

[10m]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	Cl	5-CH ₃	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	Cl	5-CH ₃	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	Cl	5-CH ₃	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH(CH_3)_2$	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH(CH_3)_2$	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH(CH_3)_2$	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH(CH_3)_2$	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C ₂ H ₅	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2CH=CH_2$	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2CH=CH_2$	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2C\equiv CH$	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2C\equiv CH$	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH_2C\equiv CH$	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH_2CH_2F	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH_2CH_2F	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	CH ₃	5-CH ₃ -6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	CH ₃	5-CH ₃ -6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	CH ₃	5-CH ₃ -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	CH ₃	5-CH ₃ -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH(CH_3)_2$	CH ₃	5-CH ₃ -6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH(CH_3)_2$	CH ₃	5-CH ₃ -6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH(CH_3)_2$	CH ₃	5-CH ₃ -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	$CH(CH_3)_2$	CH ₃	5-CH ₃ -6-Cl	2

[10n]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5- CH_3 -6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	3,5- --Cl -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	3,5- --Cl -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	3,5- --Cl -Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	3,5- --Cl -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	Cl	3,5- --Cl -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	Cl	3,5- --Cl -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	Cl	3,5- --Cl -Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	Cl	3,5- --Cl -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	5- CH_3 -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	5- CH_3 -6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	5- CH_3 -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	5- CH_3 -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5- CH_3 -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5- CH_3 -6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5- CH_3 -6-Br	2

[10o]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-CH ₃ -6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-Cl-6-Br	2

[10p]

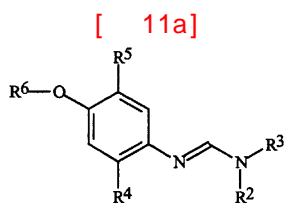
R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	CH ₂ CH=CH ₂	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ CH=CH ₂	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ C≡CH	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ C≡CH	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	CH ₂ C≡CH	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₂ C≡CH	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₂ CH ₂ F	CH ₃	5-Cl-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	CH ₃	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH ₃	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH(CH ₃) ₂	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH(CH ₃) ₂	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	CH(CH ₃) ₂	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	CH(CH ₃) ₂	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH ₃	<i>c</i> -Pr	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C ₂ H ₅	C ₂ H ₅	CH ₃	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₂ CH=CH ₂	CH ₃	5-F-6-Cl	2

[10q]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-F-6-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	CH_3	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH(CH_3)_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH(CH_3)_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH(CH_3)_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	<i>c</i> -Pr	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	C_2H_5	C_2H_5	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2CH=CH_2$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	CH_3	$CH_2C\equiv CH$	CH_3	5-F-6-Br	2

[10r]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-F-6-Br	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_2CH_2F	CH_3	5-F-6-Br	2



<u>R⁶</u>	<u>R²+R³</u>	<u>R⁴</u>	<u>R⁵</u>
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CHCH ₃ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CHCH ₃ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CHCH ₃ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CHCH ₃ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH=CHCH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH=CHCH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH=CHCH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH=CHCH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ SCH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ SCH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ SCH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ SCH ₂ CH ₂ -	CH ₃	CH ₃
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH ₂ CH ₂ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CHCH ₃ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CHCH ₃ -	CH ₃	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CHCH ₃ -	CH ₃	Cl

[11b]

R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	CH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	CH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	CH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	CH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	CH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	Br
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	Br
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	Br
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	Br
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	CH_3	Br
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	CH_3	<i>i</i> -Pr

[11c]

R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	CH_3	<i>i</i> -Pr
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	CH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	OCH_3	Cl

[11d]

R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	OCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	OCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	OCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	OCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	OCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	OC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	OC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	OC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	OC_2H_5	Cl

[11e]

R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	SCH_3	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	SC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	SC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	SC_2H_5	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	SC_2H_5	Cl

[11f]			
R ⁶	R ² +R ³	R ⁴	R ⁵
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ SCH ₂ CH ₂ -	SC ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ SCH ₂ CH ₂ -	SC ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ SCH ₂ CH ₂ -	SC ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CHCH ₃ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CHCH ₃ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CHCH ₃ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CHCH ₃ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH=CHCH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH=CHCH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH=CHCH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH=CHCH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ SCH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ SCH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ SCH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ SCH ₂ CH ₂ -	C ₂ H ₅	Cl
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CH ₂ CH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CHCH ₃ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CHCH ₃ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ CH(CH ₃) ₂	-CH ₂ CHCH ₃ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₂ (C ₂ H ₅)	-CH ₂ CHCH ₃ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ Si(CH ₃) ₃	-CH ₂ CH=CHCH ₂ -	OCH ₃	F
CH ₂ CH ₂ CH ₂ C(CH ₃) ₃	-CH ₂ CH=CHCH ₂ -	OCH ₃	F

[11g]

R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	OCH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	OCH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	OCH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	OCH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	OCH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	OCH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	OC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	OC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	OC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	OC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	OC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	SCH_3	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	SCH_3	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	SCH_3	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	SCH_3	F

[11h]

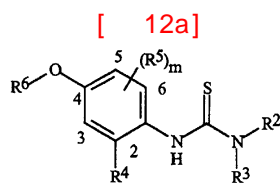
R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	SC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	SC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	SC_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	C_2H_5	F

[11i]

R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	C_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	C_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	C_2H_5	F
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	CH_3	CN
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	CHO

[11j]

R^6	R^2+R^3	R^4	R^5
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	CH_3	CHO
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CHCH_3-$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CHCH_3-$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CHCH_3-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CHCH_3-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2CH=CHCH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2CH=CHCH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2CH=CHCH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2C(CH_3)_3$	$-CH_2SCH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2CH(CH_3)_2$	$-CH_2SCH_2CH_2-$	CH_2Br	Cl
$CH_2CH_2CH_2Si(CH_3)_2(C_2H_5)$	$-CH_2SCH_2CH_2-$	CH_2Br	Cl



R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5- CH_3	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5- CH_3	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5- CH_3	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	5-Cl	1

[12b]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	OCH_3	5-Cl	1

[12c]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	OCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	OC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	SCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	SCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	SCH_3	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	SCH_3	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	SCH_3	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	SCH_3	5-Cl	1

[12d]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>i</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>i</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>i</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>n</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>n</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>n</i> -Pr	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>n</i> -Bu	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>n</i> -Bu	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>n</i> -Bu	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	$CH_2CH=CH_2$	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	$CH_2CH=CH_2$	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C ₂ H ₅	C ₂ H ₅	SCH ₃	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	CH ₃	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	C ₂ H ₅	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	C ₂ H ₅	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	C ₂ H ₅	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>i</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>i</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>i</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>c</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>c</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>c</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>n</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>n</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>n</i> -Pr	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH ₃	<i>n</i> -Bu	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH ₃	<i>n</i> -Bu	SC ₂ H ₅	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH ₃	<i>n</i> -Bu	SC ₂ H ₅	5-Cl	1

[12e]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	SC_2H_5	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	OCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	OCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	OCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	OC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	OC_2H_5	5-F	1

[12f]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	OC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	OC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	OC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	OC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	OC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	OC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	SCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	SCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	SCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	SCH_3	5-F	1

[12g]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	SCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	SCH_3	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	SCH_3	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	SCH_3	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	SC_2H_5	5-F	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	Cl	5-Cl	1

[12h]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	Cl	5-Cl	1
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	Cl	5-Cl	1
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	Cl	5-Cl	1
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	3,5- -t-Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	CH_3	3,5- -t-Cl	2

[12i]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	CH_3	3-Cl-5- CH_3	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	CH_3	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	CH_3	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	CH_3	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	C_2H_5	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	C_2H_5	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	C_2H_5	Cl	3,5- \square -Cl	2

[12j]

R^6	R^2	R^3	R^4	R^5	m
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>i</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>i</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>i</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>c</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>c</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>c</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Pr	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	<i>n</i> -Bu	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	<i>n</i> -Bu	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	<i>n</i> -Bu	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	CH_3	$CH_2CH=CH_2$	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	CH_3	$CH_2CH=CH_2$	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	CH_3	$CH_2CH=CH_2$	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2Si(CH_3)_3$	C_2H_5	C_2H_5	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2C(CH_3)_3$	C_2H_5	C_2H_5	Cl	3,5- \square -Cl	2
$CH_2CH_2CH_2CH(CH_3)_2$	C_2H_5	C_2H_5	Cl	3,5- \square -Cl	2

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	5 - 90	0 - 94	1 - 15
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	1 - 25	70 - 99	0 - 5
	0.01 - 99	5 - 99.99	0 - 15
	90 - 99	0 - 10	0 - 2

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5,180,587 , 5,232,701 5,208,030
2,095,558 3,299, 566

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7 19 10 41; 3,309,192 5 43 7 62 8, 12, 15, 39, 41, 52, 53, 58, 132, 138 140, 162 164, 166, 167 169 182; 2,891,855 , 3
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4.0 %
6.0 %
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< B>

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90.0 %

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70.0 %

, 가 ,
(Basidiomycete), (Ascomycete), (Oomycete) (Deuteromycete)

가

(*Plasmopara viticola*), (*Phytophthora infestans*),
 (*Peronospora tabacina*), (*Pseudoperonospora cubensis*),
 (*Pythium aphanidermatum*), (*Alternaria brassicae*), (*Septoria*
nodorum), (*Septoria tritici*), (*Cercosporidium personatum*),
 (*Cercospora arachidicola*), (*Pseudocercospora*
sporella herpotrichoides), (*Cercospora beticola*), (*Botrytis cine*
rea), (*Monilinia fructicola*), (*Pyricularia oryzae*),
 (*Podosphaera leucotricha*), (*Venturia inaequalis*), (*Ery*
siphe graminis), (*Uncinula necatur*), (*Puccinia recondita*),
 (*Puccinia graminis*), (*Hemileia vastatrix*), (*Pucci*
nia striiformis), (*Puccinia arachidis*), (*Rhizoctonia solani*),
 (*Sphaerotheca fuliginea*), (*Fusarium oxysporum*), (*Verti*
cillium dahliae), (*Pythium aphanidermatum*), 가 (*Phytophthora*
megasperma), (*Sclerotinia sclerotiorum*), (*Sclerotium rolf*
sii), (*Erysiphe polygoni*), (*Pyrenophora teres*),
 (*Gaeumannomyces graminis*), (*Rhynchosporium secalis*), (*Fusarium*
roseum), (*Bremia lactucae*)

1

(semiochemical),

-S, (Bordeaux) (), /
 (KTU 3616), (CGA 219417), (S)-3,5- -N-(3- -1- -1- -2
)-4- (RH 7281), (S-2900), (S)-3,
 5- -5- -2-()-5- -3-()-4H- -4- (RP 407213),
 (SSF-126), -M, (BAS 480F),
 (SZX0722), (RPA 403397),
 (S-82658), , 6- -3- 가 -2-
 -4(3H)- / (SSF
 -126), ()

가 (*Bacillus thuringi*
ensis),
 10:1 1:10, 가 4:1 100:1 1:100, 30:1 1:30,
 10:1 1:10, 가 4:1 1:4

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가 가)

bc 1

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 R¹ C₁-C₆ ;
 R² C₁-C₆ C₁-C₆ ;
 R³ ;
 R⁴ .
 94/26722 , 6,066,638 , 6,245,770 , 6,2
 62,058 6,277,858 .
 6- -3- -2- -4(3H)- ,
 6,8- -3- -2- -4(3H)- ,
 6- -3- -2- -4(3H)- ,
 6- -2- -3- [2,3-d] -4(3H)- ,
 6- -2- -3- [2,3-d] -4(3H)- ,
 7- -2- -3- [3,2-d] -4(3H)- ,
 6- -2- -3- [2,3-d] -4(3H)- ,
 6,7- -2- -3- [3,2-d] -4(3H)- ,
 3-()-6- -2-() [2,3-d] -4 (3H)-
 가 .
 I (13) , , - , ,
 , (SSF-129), / (SSF-126), ,
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 26), , , , , , , , , ,
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 (A) , 11, 13, 17
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 11, 13, 17 27 , 11, 13, 17
 27 , 11, 13, 17 27 (SSF-129) , 11,
 13, 17 27 / (SSF-126) , 11,
 13, 17 27 , 11, 13, 17 27
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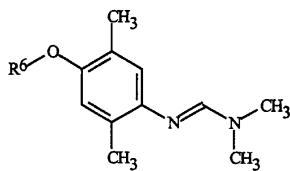
17, 11, 13, 17, 27, 11, 13, 17, 11, 13, 17, 27, 11, 13, 17, 27.

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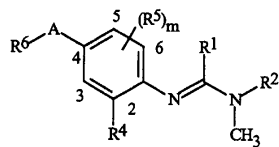
c-Pr, Bu, t, 3, s, 2, n, A, E, c, Pr, i-Pr, 가, CN, ,

 $\langle A \rangle$ 

화합물	R ⁶	융점 (°C.)
1(실시에 1)	$\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$	*
2	$\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)(\text{CH}_2)_2\text{CH}=\text{C}(\text{CH}_3)_2$	*
3	$\text{CH}_2(\text{CH}=\text{C}(\text{CH}_3)(\text{CH}_2)_2)_2\text{CH}=\text{C}(\text{CH}_3)_2$	*
4	$\text{CH}_2\text{C}(=\text{O})\text{C}(\text{CH}_3)_3$	*
5	$(\text{CH}_2)_4\text{CH}=\text{CH}_2$	*
6	$(\text{CH}_2)_3\text{CH}=\text{CH}_2$	*
7	$(\text{CH}_2)_4\text{C}(\text{OCH}_3)_3$	*
8	$(\text{CH}_2)_2\text{CH}(\text{CH}_3)_2$	*
9	$(\text{CH}_2)_3\text{C}(\text{CH}_2)\text{CH}(\text{CH}_3)_2$	*
10	$(\text{CH}_2)_2\text{CH}(\text{CH}_3)(\text{CH}_2)_3\text{CH}(\text{CH}_3)_2$	*
11	$(\text{CH}_2)_2\text{CH}(\text{CH}_3)\text{CH}_2\text{C}(\text{CH}_3)_3$	*
12	$(\text{CH}_2)_2\text{C}(\text{CH}_3)_3$	*
13(실시에 2)	$(\text{CH}_2)_3\text{CH}(\text{CH}_3)_2$	*
14	$(S)\text{-(CH}_2)_2\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$	*
15	$(R)\text{-(CH}_2)_2\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$	*
16	$(\text{CH}_2)_3\text{CH}_2\text{Cl}$	*
17	$(\text{CH}_2)_4\text{CH}_2\text{Cl}$	*
18	$\text{CH}(\text{CH}_3)(\text{CH}_2)_3\text{CH}_3$	*
19	$(\text{CH}_2)_4\text{CH}_3$	*
20	$(\text{CH}_2)_5\text{CH}_3$	*

화합물	R ⁶	융점 (°C.)
21	(CH ₂) ₆ CH ₃	*
22	(CH ₂) ₇ CH ₃	*
23	(CH ₂) ₈ CH ₃	*
24	(CH ₂) ₉ CH ₃	*
25	(CH ₂) ₁₁ CH ₃	53-54*
26 (실시예 3)	(CH ₂) ₃ Si(CH ₃) ₃	*
27	(CH ₂) ₃ OSi(CH ₃) ₂ C(CH ₃) ₃	*
28 (실시예 4)	CH(CH ₂ CH ₂ CH ₂ CH ₃) ₂	*
29	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH ₂ CH ₃	*
30	CH(CH ₂ CH ₂ CH ₂ CH ₂ CH ₃) ₂	*
31	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂	*
32	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	*
33	CH(CH ₂ CH ₂ CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	*
34	CH(C ₂ H ₅) ₂	*
35	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂	*
36	CH(CH ₂ CH ₂ CH ₃) ₂	*
37	CH(CH ₂ CH ₂ CH ₂ CH ₃)(CH ₂) ₅ CH ₃	*
38	CH ₂ C(=CH ₂)CH ₂ Si(CH ₃) ₃	*
39	CH ₂ CH ₂ CH=CH(CH ₃) ₂	*
40	CH ₂ CH=CHC(CH ₃) ₃	*
41	CH ₂ CH ₂ OC(CH ₃) ₃	*
42	(CH ₂) ₃ C(Cl) ₂ (CH ₃) ₂	*
43	(CH ₂) ₃ C(CH ₃) ₂ (OCH ₃)	*
44	(CH ₂) ₃ C(CH ₃) ₂ (OC ₂ H ₅)	*
45	(CH ₂) ₃ C(CH ₃) ₂ OH	*
46	(CH ₂) ₃ C(Cl)(CH ₃)(CH(CH ₃) ₂)	*
47	(CH ₂) ₄ C(CH ₃) ₂ (CN)	*
48	(CH ₂) ₄ CH(CH ₃) ₂	*
49	(CH ₂) ₃ CH(CH ₃)(CH(CH ₃) ₂)	*
50	(CH ₂) ₃ C(CH ₃) ₃	*
51	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
52	(CH ₂) ₃ Si(CH ₃) ₂ (CH ₂ CH ₂ CH ₃)	*
53	(CH ₂) ₃ Si(CH ₃)(C ₂ H ₅) ₂	*

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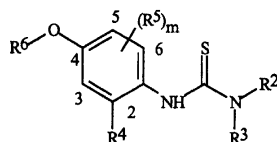
화합물	m	A	R ¹	R ²	R ⁴	R ⁵	R ⁶	융점 (°C.)
54 (실시예 5)	1	O	H	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
55	2	O	H	CH ₃	Cl	3,5-디-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
56	1	O	H	CH ₂ CH=CH 2	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
57	1	O	H	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
58	1	O	H	n-Pr	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
59	1	O	H	C ₂ H ₅	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
60	1	O	H	n-Pr	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
61	1	O	H	c-Pr	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
62	1	O	H	n-Bu	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
63	1	O	H	i-Pr	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
64	1	O	H	CH ₂ CH=CH 2	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
65	1	O	H	c-Pr	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
66	1	O	H	C ₂ H ₅	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
67	1	O	H	n-Pr	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
68	1	O	H	n-Bu	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
69	1	O	H	i-Pr	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
70	1	O	H	CH ₂ CH=CH 2	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
71	1	O	H	c-Pr	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
72	1	O	H	c-Pr	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
73	1	O	H	n-Bu	CH ₃	5-i-Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
74	1	O	H	i-Pr	CH ₃	5-i-Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
75	1	O	H	n-Pr	CH ₃	5-i-Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
76	1	O	H	C ₂ H ₅	CH ₃	5-i-Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
96	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
97	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(n-Pr)(CH ₂) ₂ CH(CH ₃) ₂	*

화합물	m	A	R ¹	R ²	R ⁴	R ⁵	R ⁶	융점 (°C.)
98	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃	*
99	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	CH((CH ₂) ₄ CH ₃) ₂	*
100	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂	*
101	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(n-Pr) ₂	*
102	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	*
103	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂	*
104	1	O	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ C(=CH ₂)C H ₃	*
105	1	S	H	CH ₃	CH ₃	5-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	*
110	1	O	CH ₃	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	*
111	1	O	CH ₃	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	*
115	2	O	H	CH ₃	CH ₃	3,5- <i>o</i> -Cl	(CH ₂) ₃ CH(CH ₃) ₂	*
116	2	O	CH ₃	CH ₃	CH ₃	3,5- <i>o</i> -Cl	(CH ₂) ₃ CH(CH ₃) ₂	*
126	1	O	H	CH ₃	Cl	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	*
128	1	O	CO ₂ C H ₃	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
129	1	O	CO ₂ C H ₃	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
130	1	O	CO ₂ C H ₃	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
131	1	O	CO ₂ C H ₃	C ₂ H ₅	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
132	1	O	H	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
140	2	O	H	C ₂ H ₅	CH ₃	3-Cl-5- CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
141	1	S	H	CH ₃	CH ₃	5-CH ₃	CH(n-Pr)(n-Bu)	*
142	1	S	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(n-Pr)(n-Bu)	*
143	1	S	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(n-Bu) ₂	*
144	1	N H	CH ₃	CH ₃	CH ₃	5-CH ₃	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	*
145	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH((CH ₂) ₄ CH ₃) ₂	*
146	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH(n-Pr)(n-Bu)	*
147	1	N	H	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₂ CH(CH ₃)CH ₂ C(CH ₃) ₃	*

화합물	m	A	R ¹	R ²	R ⁴	R ⁵	R ⁶	융점 (°C.)
		H						
148	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH(<i>n</i> -Pr)(CH ₂) ₂ CH(CH ₃) ₂	*
149	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH(C ₂ H ₅)(CH) ₂ CH(CH ₃) ₂	*
150	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH(<i>n</i> -Bu) ₂	*
151	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂	*
152	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH(C ₂ H ₅)CH ₂ CH ₂ C(=CH ₂)C H ₃	*
153	1	N H	H	CH ₃	CH ₃	5-CH ₃	CH ₂ CH ₂ S(<i>t</i> -Bu)	*
154	1	N H	H	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
155	1	S	H	CH ₃	CH ₃	5-CH ₃	CH(<i>n</i> -Bu) ₂	*
156	1	S	H	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
157	1	S	H	CH ₃	CH ₃	5-CH ₃	CH(<i>n</i> -Pr) ₂	*
158	1	S	H	CH ₃	CH ₃	5-CH ₃	CH ₂ CH(CH ₃)CH ₂ C(<i>t</i> -Bu)	*
159	1	S	H	CH ₃	CH ₃	5-CH ₃	CH(CH ₂ CH ₂ CH(CH ₃) ₂) ₂	*
160	1	S	H	CH ₃	CH ₃	5-CH ₃	(CH(<i>n</i> -Pr)(<i>n</i> -Bu)	*
161	1	S	H	CH ₃	CH ₃	5-CH ₃	CH(C ₂ H ₅)CH ₂ C(=CH ₂)CH ₃	*
162	1	S	H	CH ₃	CH ₃	5-CH ₃	CH ₂ (C ₂ H ₅)CH ₂ CH ₂ CH(CH ₃) ₂	*
171	2	O	CH ₃	CH ₃	CH ₃	3,5- --Cl	(CH ₂) ₃ Si(CH ₃) ₃	160- 162
172	1	O	H	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	55-58
173	1	O	CH ₃	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
174	1	N H	H	CH ₃	CH ₃	5-CH ₃	C(O)CH ₂ S(O)(<i>t</i> -Bu)	*
175	1	O	H	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	*
176	1	O	H	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	*
182	2	O	H	C ₂ H ₅	CH ₃	3,5- --Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
189	1	N H	H	CH ₃	CH ₃	5-CH ₃	C(O)NHCH ₂ CH(CH ₃) ₂	147- 149
190	1	N	H	CH ₃	CH ₃	5-CH ₃	C(O)NHCH ₂ C(CH ₃) ₃	180-

화합물	m	A	R ¹	R ²	R ⁴	R ⁵	R ⁶	융점 (°C.)
		H						182
193	1	N H	H	CH ₃	CH ₃	5-CH ₃	C(O)N(CH ₃)CH ₂ C(CH ₃) ₃	158- 160
196	1	O	H	C ₂ H ₅	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
197	1	O	H	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₃	*
198	1	O	H	C ₂ H ₅	CH ₃	5-Cl	CH(CH ₃)CH ₂ CH ₂ CH(CH ₃) ₂	*
199	1	O	H	C ₂ H ₅	CH ₃	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃	*
200	2	O	H	C ₂ H ₅	CH ₃	3-Cl-5- CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
201	2	O	H	C ₂ H ₅	CH ₃	3-Cl-5- CH ₃	(CH ₂) ₃ C(CH ₃) ₃	*
202	1	O	H	C ₂ H ₅	OCH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₃	*
203	1	O	H	C ₂ H ₅	SCH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₃	*
204	1	O	H	<i>c</i> -Pr	SCH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₃	62-64
205	1	O	H	<i>i</i> -Pr	SCH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₃	*
206	1	O	H	<i>n</i> -Pr	SCH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₃	*
207	1	O	H	CHC=CH	CH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₃	*
208	2	O	H	C ₂ H ₅	CH ₃	5-Cl-6-Br	(CH ₂) ₃ CH(CH ₃) ₃	*

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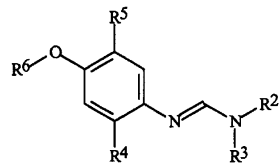


화합물	m	R ²	R ³	R ⁴	R ⁵	R ⁶	융점 (°C.)
77	1	C ₂ H ₅	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	94-95
78	1	<i>n</i> -Pr	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*
79	1	C ₂ H ₅	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃)(C ₂ H ₅) ₂	81-82
80	2	C ₂ H ₅	CH ₃	Cl	3,5-디Cl	(CH ₂) ₃ Si(CH ₃) ₃	94-97
81	2	<i>n</i> -Pr	CH ₃	Cl	3,5-디Cl	(CH ₂) ₃ Si(CH ₃) ₃	121-123
82	2	<i>i</i> -Pr	CH ₃	Cl	3,5-디Cl	(CH ₂) ₃ Si(CH ₃) ₃	118-119
83	2	CH ₂ CH=CH ₂	CH ₃	Cl	3,5-디Cl	(CH ₂) ₃ Si(CH ₃) ₃	64-65
84	1	C ₂ H ₅	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₂ (C ₂ H ₅)	*

화합물	m	R ²	R ³	R ⁴	R ⁵	R ⁶	융점 (°C.)
85	1	CH ₂ CH=CH ₂	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
86	1	CH ₂ CH=CH ₂	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
87	1	C ₂ H ₅	CH ₃	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
88	1	<i>n</i> -Pr	CH ₃	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
89	1	<i>n</i> -Bu	CH ₃	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
90	1	<i>i</i> -Pr	CH ₃	CH ₃	5-F	(CH ₂) ₃ Si(CH ₃) ₃	*
91	1	<i>n</i> -Bu	CH ₃	CH ₃	5- <i>i</i> -Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
92	1	<i>i</i> -Pr	CH ₃	CH ₃	5- <i>i</i> -Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
93	1	<i>n</i> -Pr	CH ₃	CH ₃	5- <i>i</i> -Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
94	1	C ₂ H ₅	CH ₃	CH ₃	5- <i>i</i> -Pr	(CH ₂) ₃ Si(CH ₃) ₃	*
106	1	C ₂ H ₅	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
107	1	CH ₃	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
108	1	C ₂ H ₅	C ₂ H ₅	CH ₃	5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₂	*
112	1	CH ₃	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	138-140
113	1	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	191-192
114	1	C ₂ H ₅	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	58-60
117	2	C ₂ H ₅	C ₂ H ₅	CH ₃	3,5-디Cl	(CH ₂) ₃ CH(CH ₃) ₂	112-114
118	2	C ₂ H ₅	CH ₃	CH ₃	3,5-디Cl	(CH ₂) ₃ CH(CH ₃) ₂	68-70
119	2	CH ₃	CH ₃	CH ₃	3,5-디Cl	(CH ₂) ₃ CH(CH ₃) ₂	136-138
120	1	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	118-120
121	2	CH ₃	CH ₃	CH ₃	3,5-디Cl	(CH ₂) ₃ C(CH ₃) ₃	150-152
122	2	C ₂ H ₅	CH ₃	CH ₃	3,5-디Cl	(CH ₂) ₃ C(CH ₃) ₃	122-124
123	1	CH ₃	CH ₃	Cl	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	128-130
124	1	C ₂ H ₅	CH ₃	Cl	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	70-72
125	1	C ₂ H ₅	C ₂ H ₅	Cl	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	90-92
127	1	<i>i</i> -Pr	C ₂ H ₅	Cl	5-Cl	(CH ₂) ₃ CH(CH ₃) ₂	*
133	2	CH ₃	CH ₃	CH ₃	3-Cl-5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	128-130
134	2	C ₂ H ₅	CH ₃	CH ₃	3-Cl-5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	110-112
136	2	CH ₃	CH ₃	CH ₃	3-Cl-5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₃	136-138
137	2	C ₂ H ₅	CH ₃	CH ₃	3-Cl-5-CH ₃	(CH ₂) ₃ CH(CH ₃) ₃	*
138	2	CH ₃	CH ₃	CH ₃	3-Cl-5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃	148-150
139	2	C ₂ H ₅	CH ₃	CH ₃	3-Cl-5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃	120-123
163	1	C ₂ H ₅	C ₂ H ₅	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
164	1	C ₂ H ₅	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
165	1	CH ₃	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₂ O(<i>t</i> -Bu)	*

화합물	m	R ²	R ³	R ⁴	R ⁵	R ⁶	용점 (°C.)
167	1	CH ₃	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ Si(CH ₃) ₃	*
168	1	CH ₃	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	98-99
169(실시예 5)	1	C ₂ H ₅	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	71-72
170	1	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	62-63
177	1	C ₂ H ₅	C ₂ H ₅	CH ₃	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	*
178	1	C ₂ H ₅	CH ₃	CH ₃	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	88-90
179	2	C ₂ H ₅	C ₂ H ₅	CH ₃	3,5-디-Cl	(CH ₂) ₃ Si(CH ₃) ₃	90-101
180	2	CH ₃	CH ₃	CH ₃	3,5-디-Cl	(CH ₂) ₃ Si(CH ₃) ₃	89-90
181	2	C ₂ H ₅	CH ₃	CH ₃	3,5-디-Cl	(CH ₂) ₃ Si(CH ₃) ₃	79-82
183	1	CH ₃	CH ₃	Cl	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	75-78
184	1	C ₂ H ₅	CH ₃	Cl	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	85-88
185	1	C ₂ H ₅	C ₂ H ₅	Cl	5-Cl	(CH ₂) ₃ Si(CH ₃) ₃	91-92
186	1	CH ₃	CH ₃	Cl	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	106-108
187	1	C ₂ H ₅	CH ₃	Cl	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	86-87
188	1	C ₂ H ₅	C ₂ H ₅	Cl	5-Cl	(CH ₂) ₃ C(CH ₃) ₃	88-89
191	1	C ₂ H ₅	C ₂ H ₅	CH ₃	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃	*
192	1	CH ₃	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃	102-104
194	1	C ₂ H ₅	CH ₃	CH ₃	5-CH ₃	(CH ₂) ₃ C(CH ₃) ₃	82-84

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화합물	R ² +R ³	R ⁴	R ⁵	R ⁶	용점(°C.)
95	(CH ₂) ₄	CH ₃	Cl	(CH ₂) ₃ Si(CH ₃) ₃	*
209	(CH ₂) ₃	CH ₃	Cl	(CH ₂) ₃ Si(CH ₃) ₃	*

*¹H NMR 데이터에 대해서는 목록 표 F 참조

< E >

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
1	δ 1.72 (s,3H), 1.78 (s,3H), 2.17 (s,3H), 2.24 (s,3H), 2.99 (s,6H), 4.46 (d,2H), 5.5 (t,1H), 6.55 (s,1H), 6.66 (s,1H), 7.38 (s,1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
2	δ 1.6-1.8 (m,9H), 1.9-2.5 (m,10H), 2.98(s,6H), 4.46(d,2H), 5.1 (m,1H), 5.5 (m,1H), 6.54 (s,1H), 6.66 (s,1H), 7.38 (s,1H).
3	δ 1.6-2.4 (m,26H), 2.99 (s,6H), 4.5(d,2H), 5-5.2 (m,2H), 5.5 (m,1H), 6.54 (s,1H), 6.66 (s,1H), 7.38 (s,1H).
4	δ 1.25 (s,9H), 2.21(s,3H), 2.23 (s,3H), 2.99 (s,6H), 4.79 (s,2H), 6.50 (s,1H), 6.55 (s,1H), 7.37 (s,1H).
5	δ 1.5-2.3 (m,12H), 2.98(s,6H), 3.92 (t,2H), 4.95-5.1 (m,2H), 5.7-5.9 (m,1H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
6	δ 1.8-1.92 (m,2H), 2.17-2.3 (m,8H), 2.98 (s,6H), 3.92 (t,2H), 4.97-5.13 (m,2H), 5.8-5.95 (m,1H), 5.55 (s,1H), 6.64 (s,1H), 7.37 (s,1H).
7	δ 1.6-2.04 (m,6H), 2.17 (s,3H), 2.22 (s,3H), 2.99 (s,6H), 3.26 (s,9H), 3.97 (t,2H), 6.54 (s,1H), 6.64 (s,1H), 7.38 (s,1H).
8	δ 0.96 (d,6H), 1.67 (q,2H), 1.87 (m,1H), 2.15 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.93 (t,2H), 6.54 (s,1H), 6.64 (s,1H), 7.37 (s,1H).
9	δ 1.04 (d,6H), 1.8-2.35 (m,11H), 2.98 (s,6H), 3.93 (t,2H), 4.72 (d,1H), 4.98 (d,1H), 6.55 (s,1H), 6.64 (s,1H), 7.38 (s,1H).
10	δ 0.87 (d,6H), 0.94 (d,3H), 1.1-1.9 (m,10H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.93 (m,2H), 6.54 (s,1H), 6.63 (s,1H), 7.38 (s,1H).
11	δ 0.91 (s,9H), 0.98 (d,3H), 1.05-1.35 (m,2H), 1.5-1.9 (m,3H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.92 (t,3H), 6.54 (s,1H), 6.62 (s,1H), 7.38 (s,1H).
12	δ 0.99 (s,9H), 1.72 (t,2H), 2.15 (s,3H), 2.24 (s,3H), 2.98 (s,6H), 3.96 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.38 (s,1H).
13	δ 0.91 (d,6H), 1.28-1.82 (m,5H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.89 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
14	δ 0.95 (d,3H), 1.18-2.1 (m,13H), 2.15 (s,3H), 2.23 (s,3H), 2.97 (s,6H), 3.93 (m,2H), 5.1 (t,1H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
15	δ 0.95 (d,3H), 1.18-2.1 (m,13H), 2.15 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.94 (m,2H), 5.1 (t,1H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
16	δ 1.9-2.1 (m,4H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.63 (t,2H), 3.95 (t,2H), 6.55 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
17	δ 1.6-2 (m,6H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.57 (t,2H), 3.92 (t,2H), 6.54 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
18	δ 0.91 (m,3H), 1.2-1.8 (m,9H), 2.15 (s,3H), 2.22 (s,3H), 2.98 (s,6H), 4.21 (m,1H), 6.53 (s,1H), 6.64 (s,1H), 7.39 (s,1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
19	δ 0.93 (t,3H), 1.3-1.55 (m,4H), 1.7-1.82 (m,2H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
20	δ 0.9 (t,3H), 1.3-1.56 (m,6H), 1.7-1.82 (m,2H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.55 (s,1H), 6.63 (s,1H), 7.38 (s,1H).
21	δ 0.89 (t,3H), 1.2-1.6 (m,8H), 1.7-1.82 (m,2H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.64 (s,1H), 7.37 (s,1H).
22	δ 0.89 (t,3H), 1.2-1.56 (m,10H), 1.7-1.82 (m,2H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.38 (s,1H).
23	δ 0.88 (t,3H), 1.2-1.56 (m,12H), 1.7-1.82 (m,2H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
24	δ 0.88 (t,3H), 1.2-1.56 (m,14H), 1.7-1.82 (m,2H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
25	δ 0.88 (t,3H), 1.2-1.82 (m,20H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
26	δ 0.02 (t,9H), 0.6 (m,2H), 1.7-1.82 (m,2H), 2.17 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.87 (t,2H), 6.54 (s,1H), 6.62 (s,1H), 7.38 (s,1H).
27	δ 0.05 (s,6H), 0.9 (s,9H), 1.97 (m,2H), 2.15 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.82 (t,2H), 4.0 (t,2H), 6.54 (s,1H), 6.64 (s,1H), 7.37 (s,1H).
28	δ 0.9 (t,6H), 1.2-1.4 (m,8H), 1.5-1.7 (m,4H), 2.15 (s,3H), 2.2 (s,3H), 3.0 (s,6H), 4.1 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).
29	δ 0.9 (t,6H), 1.2-1.4 (m,6H), 1.5-1.7 (m,4H), 2.15 (s,3H), 2.25 (s,3H), 3.0 (s,6H), 4.05-4.2 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).
30	δ 0.9 (m,6H), 1.2-1.4 (m,12 H), 1.5-1.7 (m,4H), 2.1 (s,3H), 2.2 (s,3H), 3.0 (s,6H), 4.05-4.2 (m,1H), 6.45 (s,1H), 6.6 (s,1H), 7.35 (s, H).
31	δ 0.8 (d,6 H), 0.9(t,3H), 1.2-1.4 (m,2H), 1.5-1.7 (m,4H), 2.1 (s,3H), 2.2 (s,3H), 3.0 (s,6H), 3.95-4.1 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).
32	δ 0.8 (d,6H), 1.2(d,3H), 1.4-1.6 (m,2H), 1.6-1.75 (m,2H), 2.15 (s,3H), 2.2 (s,3H), 2.95 (s,6H), 4.10-4.2 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).
33	δ 0.8 (d,6H), 0.9(t,3H), 1.2-1.4 (m,6H), 1.5-1.7 (m,4H), 2.15 (s,3H), 2.25 (s,3H), 3.0 (s,6H), 4.05-4.2 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).
34	δ 0.9 (t,6H), 1.55-1.75 (m,4H), 2.1 (s,3H), 2.2 (s,3H), 2.95 (s,6H), 3.95-4.1 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
35	δ 0.85 (d,6H), 0.95(d,6H), 1.2-1.4 (m,4H), 1.5-1.8 (m,6H), 2.1 (s,3H), 2.2 (s,3H), 2.95 (s,6H), 3.8-3.95 (m,1H), 6.5 (s, 1H), 6.6 (s,1H), 7.4 (s,1H).
36	δ 0.8-0.9 (t,6H), 1.3-1.5 (m,4H), 1.5-1.65 (m,4H), 2.15 (s,3H), 2.25 (s,3H), 3.0 (s,6H), 4.05-4.2 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).
37	δ 0.8-0.9 (q,6H), 1.2-1.4 (m,14 H), 1.5-1.7 (m,4H), 2.1(s,3H), 2.2(s,3H), 2.95 (s,6H), 4.05-4.1 (m,1H), 6.5 (s,1H), 6.6 (s,1H), 7.4 (s,1H).
38	δ 0.06 (s,9H), 1.64 (s,2H), 2.20 (s,3H), 2.24 (s,3H), 2.98 (s,6H), 4.31 (s,2H), 4.75 (s,1H), 5.03 (s,1H), 6.55 (s,1H), 6.61 (s,1H), 7.38 (s,1H).
39	δ 1.66 (s,3H), 1.72 (s,3H), 2.16 (s,3H), 2.22 (s,3H), 2.45 (q,2H), 2.98 (s,6H), 3.88 (t,2H), 5.23 (t,1H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
40	δ 1.04 (s,9H), 2.18 (s,3H), 2.22 (s,3H), 2.98 (s,6H), 4.43 (d,2H), 5.6 (m,1H), 5.8 (d,1H), 6.54 (s,1H), 6.65 (s,1H), 7.38 (s,1H).
41	δ 1.22 (s,9H), 2.16 (s,3H), 2.22 (s,3H), 2.98 (s,6H), 3.69 (t, 2H), 4.02 (t,2H), 6.53 (s,1H), 6.66 (s,1H), 7.37 (s,1H).
42	δ 1.62 (s,6H), 1.96 (m,4H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.94 (t,2H), 6.55 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
43	δ 1.18 (s,6H), 1.6-1.9 (m,4H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.2 (s,3H), 3.9 (t,2H), 6.54 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
44	δ 1.15-1.25 (m,9H), 1.6-1.9 (m,4H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.4 (q,2H), 3.9 (t,2H), 6.54 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
45	δ 1.26 (s, 6H), 1.6-1.97 (m, 4H), 2.16 (s, 3H), 2.23 (s, 3H), 2.98 (s, 6H), 3.94 (t, 2H), 6.57 (s, 1H), 6.63 (s, 1H), 7.37 (s, 1H).
46	δ 1-1.1 (m,6H), 1.51 (s,3H), 1.6-2.1 (m,4H), 2.16 (s,3H), 2.23 (s,3H), 2.99 (s, 6H), 3.94 (m,2H), 6.55 (s,1H), 6.61 (s,1H), 7.37 (s,1H).
47	δ 1.2-2 (m,12H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.2 (s,3H), 3.94 (t,2H), 6.55 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
48	δ 0.88 (d,6H), 1.2-1.9 (m,7H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
49	δ 0.8-2 (m,15H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.9 (t,2H), 6.54 (s,1H), 6.63 (s,1H), 7.37 (s,1H).
50	δ 0.92 (s,9H), 1.34 (m,2H), 1.74 (m,2H), 2.16 (s,3H), 2.23 (s,3H), 2.98 (s,6H), 3.88 (t,2H), 6.54 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
51	δ 0.01 (s,6H), 0.46-0.7 (m,4H), 0.93 (t,3H), 1.7-1.87 (m,2H), 2.18 (s,3H), 2.24 (s,3H), 3.0 (s,6H), 3.88 (t,2H), 6.56 (s,1H), 6.64 (s,1H), 7.39 (s,1H).

화합물 번호	^1H NMR 데이터 (달리 표시하지 않는 한 CDCl_3 용액) ^a
52	δ 0.01 (s,6H), 0.46-0.7 (m,4H), 0.97 (t,3H), 1.27-1.4 (m,2H), 1.7-1.87 (m,2H), 2.18 (s,3H), 2.24 (s,3H), 2.99 (s,6H), 3.87 (t,2H), 6.56 (s,1H), 6.63 (s,1H), 7.38 (s,1H).
53	δ 0.00 (s,3H), 0.46-0.7 (m,6H), 0.93 (t,6H), 1.7-1.87 (m,2H), 2.21 (s,3H), 2.27 (s,3H), 3.0 (s,6H), 3.9 (t,2H), 6.59 (s,1H), 6.66 (s,1H), 7.42 (s,1H).
54	δ 0.02 (s,9H), 0.6 (m,2H), 1.2 (t,3H), 1.8 (m,2H), 2.23 (s,3H), 2.98 (s,3H), 3.35 (br s,2H), 3.93 (t,2H), 6.74 (s,1H), 6.77 (s,1H), 7.4 (s,1H).
55	δ 0.03 (s,9H), 0.6 (m,2H), 1.83 (m,2H), 3.05 (s,6H), 3.92 (t,2H), 6.82 (s,1H), 7.41 (s,1H).
56	δ 0.02 (s,9H), 0.6 (m,2H), 1.8 (m,2H), 2.23 (s,3H), 2.96 (s,3H), 3.75-3.97 (m,4H), 5.23 (m,2H), 5.83 (m,1H), 6.74 (s,1H), 6.77 (s,1H), 7.42 (s,1H).
57	δ 0.00 (s,6H), 0.46-0.65 (m,4H), 0.95 (t,3H), 1.21 (t,3H), 1.82 (m,2H), 2.24 (s,3H), 2.99 (s,3H), 3.37 (br s,2H), 3.94 (t,2H), 6.75 (s,1H), 6.78 (s,1H), 7.4 (s,1H).
58	δ 0.02 (s,9H), 0.6 (m,2H), 0.92 (t,3H), 1.61 (m,2H), 1.8 (m,2H), 2.22 (s,3H), 2.98 (s,3H), 3.22 (br s, 2H), 3.92 (t,2H), 6.74 (s,1H), 6.76 (s,1H), 7.4 (s,1H).
59	δ 0.02 (s,9H), 0.6 (m,2H), 1.2 (t,3H), 1.79 (m,2H), 2.21 (s,3H), 2.98 (s,3H), 3.35 (br s,2H), 3.94 (t,2H), 6.55 (d,1H), 6.77 (d,1H), 7.4 (s,1H).
60	δ 0.02 (s,9H), 0.6 (m,2H), 0.92 (t,3H), 1.61 (m,2H), 1.79 (m,2H), 2.2 (s,3H), 2.98 (s,3H), 3.21 (br s,2H), 3.93 (t,2H), 6.55 (d,1H), 6.77 (d,1H), 7.4 (s,1H).
61	δ 0.02 (s,9H), 0.6 (m,2H), 0.72 (m,4H), 1.8 (m,2H), 2.22 (s,3H), 2.65 (m,1H), 3.01 (s,3H), 3.93 (t,2H), 6.74 (s,1H), 6.77 (s,1H), 7.58 (s,1H).
62	δ 0.01 (s,9H), 0.6 (m,2H), 0.95 (t,3H), 1.34 (m,2H), 1.57 (m,2H), 1.78 (m,2H), 2.2 (s,3H), 2.98 (s,3H), 3.24 (br s,2H), 3.93 (t,2H), 6.55 (d,1H), 6.77 (d, 1H), 7.39 (s,1H).
63	δ 0.01 (s,9H), 0.6 (m,2H), 1.23 (d,6H), 1.79 (m,2H), 2.21 (s,3H), 2.9 (s,3H), 3.64 (br s,1H), 3.93 (t,2H), 6.55 (d,1H), 6.77 (d,1H), 7.43 (s,1H).
64	δ 0.01 (s,9H), 0.6 (m,2H), 1.79 (m,2H), 2.2 (s,3H), 2.96 (s,3H), 3.9-4.0 (m,4H), 5.21(m,2H), 5.81(m,1H), 6.55 (d,1H), 6.77 (d,1H), 7.42 (s,1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
65	δ -0.01 (s,6H), 0.47-0.8 (m,8H), 0.94 (t,3H), 1.8 (m,2H), 2.22 (s,3H), 2.65 (m,1H), 3.01 (s,3H), 3.93 (t,2H), 6.74 (s,1H), 6.77 (s,1H), 7.59 (s,1H).
66	δ -0.02 (s,6H), 0.45-0.63 (m,4H), 0.93 (t,3H), 1.2 (t,3H), 1.78 (m,2H), 2.21 (s,3H), 2.98 (s,3H), 3.37 (br s,2H), 3.93 (t,2H), 6.55 (d,1H), 6.77 (d,1H), 7.4 (s,1H).
67	δ -0.02 (s,6H), 0.45-0.63 (m,4H), 0.9-1 (m,6H), 1.61 (m,2H), 1.78 (m,2H), 2.2 (s,3H), 2.98 (s,3H), 3.2 (br s,2H), 3.93 (t,2H), 6.52 (d,1H), 6.77 (d,1H), 7.4 (s,1H).
68	δ -0.02 (s,6H), 0.45-0.63 (m,4H), 0.9-1 (m,6H), 1.31 (m,2H), 1.57 (m,2H), 1.78 (m,2H), 2.2 (s,3H), 2.98 (s,3H), 3.25 (br s,2H), 3.93 (t,2H), 6.52 (d,1H), 6.77 (d,1H), 7.4 (s,1H).
69	δ -0.02 (s,6H), 0.45-0.63 (m,4H), 0.96 (t,3H), 1.23 (d,6H), 1.78 (m,2H), 2.21 (s,3H), 2.89 (s,3H), 3.65 (br s,1H), 3.93 (t,2H), 6.55 (d,1H), 6.77 (d,1H), 7.45 (s,1H).
70	δ -0.01 (s,6H), 0.45-0.63 (m,4H), 0.94 (t,3H), 1.78 (m,2H), 2.21 (s,3H), 2.97 (s,3H), 3.9-4.0 (m,4H), 5.21(m,2H), 5.81(m,1H), 6.57 (d,1H), 6.78 (d,1H), 7.43 (s,1H).
71	δ -0.02 (s,6H), 0.45-0.8 (m,8H), 0.94 (t,3H), 1.78 (m,2H), 2.2 (s,3H), 2.67 (m, 1H), 2.98 (s,3H), 3.93 (t,2H), 6.55 (d,1H), 6.77 (d,1H), 7.58 (s,1H).
72	δ 0.01 (s,9H), 0.59 (m,2H), 0.72 (m,4H), 1.79 (m,2H), 2.2 (s,3H), 2.65 (m,1H), 3.01 (s,3H), 3.93 (t,2H), 6.55 (d,1H), 6.77 (d,1H), 7.58 (s,1H).
73	δ 0.00 (s,9H), 0.6 (m,2H), 0.93 (t,3H), 1.19 (d,6H), 1.3 (m,2H), 1.55 (m,2H), 1.75 (m,2H), 2.2 (s,3H), 2.95 (s,3H), 3.3 (m,3H), 3.85 (t,2H), 6.55 (s,1H), 6.65 (s,1H), 7.4 (s,1H).
74	δ 0.01 (s,9H), 0.6 (m,2H), 1.22 (m,12H), 1.8 (m,2H), 2.2 (s,3H), 2.86 (s,3H), 3.3 (m,1H), 3.87 (t,2H), 6.58 (s,1H), 6.62 (s,1H), 7.45 (s,1H).
75	δ 0.00 (s,9H), 0.6 (m,2H), 0.9 (t,3H), 1.2 (d,6H), 1.55-1.8 (m,4H), 2.19 (s,3H), 2.96 (s,3H), 3.2 (m,3H), 3.85(t,2H), 6.57 (s,1H), 6.62 (s,1H), 7.37 (s,1H).
76	δ 0.00 (s,9H), 0.6 (m,2H), 1.2 (m,9H), 1.7 (m,2H), 2.2 (s,3H), 2.96 (s,3H), 3.3 (m,3H), 3.85 (t,2H), 6.57 (s,1H), 6.62 (s,1H), 7.4 (s,1H).
78	δ 0.01 (s,6H), 0.46-0.67 (m,4H), 0.9-1.0 (m,6H), 1.67-1.82 (m,4H), 2.17 (s,3H), 2.22 (s,3H), 3.27 (s,3H), 3.75 (t,2H), 3.9 (t,2H), 6.64 (s,1H), 6.7 (s,1H), 6.95 (s,1H).

화합물 번호	^1H NMR 데이터 (달리 표시하지 않는 한 CDCl_3 용액) ^a
84	δ 0.00 (s,6H), 0.46-0.67 (m,4H), 0.94 (t,3H), 1.29 (t,3H), 1.77-1.9 (m,2H), 2.23 (s,3H), 3.26 (s,3H), 3.87 (q,2H), 3.96 (t,2H), 6.65 (s,1H), 6.76 (s,1H), 7.19 (s,1H).
85	δ 0.03 (s,9H), 0.6 (m,2H), 1.82 (m,2H), 2.21 (s,3H), 3.33 (s,3H), 3.96 (t,2H), 4.4 (d,2H), 5.3 (m,2H), 5.9 (m,1H), 6.75 (m,2H), 7.2 (s,1H).
86	δ 0.04 (s,9H), 0.6 (m,2H), 1.78 (m,2H), 2.18 (s,3H), 2.21 (s,3H), 3.33 (s,3H), 3.9 (t,2H), 4.4 (d,2H), 5.3 (m,2H), 5.9 (m,1H), 6.64 (s,1H), 6.79 (s,1H), 6.94 (s,1H).
87	δ 0.02 (s,9H), 0.6 (m,2H), 1.28 (t,3H), 1.8 (m,2H), 2.2 (s,3H), 3.25 (s,3H), 3.86 (q,2H), 3.94 (t,2H), 6.65 (s,1H), 6.77 (d,1H), 6.95 (d,1H).
88	δ 0.02 (s,9H), 0.6 (m,2H), 0.97 (t,3H), 1.67-1.82 (m,4H), 2.19 (s,3H), 3.27 (s,3H), 3.74 (t,2H), 3.94 (t,2H), 6.69 (s,1H), 6.79 (d,1H), 6.97 (d,1H).
89	δ 0.02 (s,9H), 0.6 (m,2H), 0.97 (t,3H), 1.39 (m,2H), 1.62-1.82 (m,4H), 2.2 (s,3H), 3.27 (s,3H), 3.77 (t,2H), 3.96 (t,2H), 6.65 (s,1H), 6.79 (d,1H), 6.97 (d,1H).
90	δ 0.02 (s,9H), 0.6 (m,2H), 1.22 (d,6H), 1.8 (m,2H), 2.2 (s,3H), 3.01 (s,3H), 3.96 (t,2H), 5.44 (m,1H), 6.65 (s,1H), 6.79 (d,1H), 6.95 (d,1H).
91	δ 0.00 (s,9H), 0.6 (m,2H), 0.97 (t,3H), 1.18 (d,6H), 1.4 (m,2H), 1.6-1.8 (m,4H), 2.2 (s,3H), 3.21 (m,4H), 3.7 (m,2H), 3.87 (t,2H), 6.63 (s,1H), 6.7 (s,1H), 6.93 (s,1H).
92	δ 0.01 (s,9H), 0.6 (m,2H), 1.2 (m,12H), 1.8 (m,2H), 2.2 (s,3H), 2.91 (s,3H), 3.3 (m,1H), 3.87 (t,2H), 5.4 (m,1H), 6.63 (s,1H), 6.7 (s,1H), 6.91 (s,1H).
93	δ 0.00 (s,9H), 0.6 (m,2H), 0.97 (t,3H), 1.18 (d,6H), 1.8 (m,4H), 2.19(s,3H), 3.22 (m,4H), 3.7 (m,2H), 3.87(m,2H), 6.63 (s,1H), 6.7 (s,1H), 6.94 (s,1H).
94	δ : 0.03 (s,9H), 0.6 (m,2H), 1.18 (d,6H), 1.25 (t,3H), 1.7 (m,2H), 2.2 (s,3H), 3.2-3.3 (m,4H), 3.87 (m,4H), 6.57 (s,1H), 6.7 (s,1H), 6.9 (s,1H).
95	δ 0.02 (s,9H), 0.6 (m,2H), 1.8 (m,2H), 1.94 (m,4H), 2.24 (s,3H), 3.48 (m,4H), 3.93 (t,2H), 6.73 (s,1H), 6.77 (s,1H), 7.6 (s,1H).
96	δ 0.95 (d,6H), 1.25-1.4 (m,2H), 1.5-1.7 (m,3H), 2.0 (s,3H), 2.15 (s,3H), 3.0 (s,6H), 6.4 (s,1H), 6.6 (s,1H).
97	δ 0.8-0.95 (m,9H), 1.15-1.65 (m,9H), 1.75 (s,3H), 2.0 (s,3H), 2.10 (s,3H), 3.0 (s,6H), 4.4 (m,1H), 6.35 (s,1H), 6.6 (s,1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
98	δ 0.9 (s,9H), 1.0 (d,3H), 1.0-1.6 (m,5H), 1.75 (s,3H), 2.0 (s,3H), 2.15 (s,3H), 3.0 (s,6H), 6.4 (s,1H), 6.6 (s,1H).
99	δ 0.9 (t,6H), 1.3-1.7 (m,16H), 1.8 (s,3H), 2.0 (s,3H), 2.2 (s,3H), 3.05 (s,6H), 4.1 (m,1H), 6.35 (s,1H), 6.65 (s,1H).
100	δ 0.8-1.0 (m,10H), 1.2-1.7 (m,6H), 1.8 (s,3H), 2.0 (s,3H), 2.15 (s,3H), 3.0 (s,6H), 4.05 (m,1H), 6.35 (s,1H), 6.6 (s,1H).
101	δ 0.9 (t,6H), 1.4-1.7 (m,8H), 1.8 (s,3H), 2.0 (s,3H), 2.15 (s,3H), 3.05 (s,6H), 4.1 (m,1H), 6.4 (s,1H), 6.6 (s,1H).
102	δ 0.9 (t,6H), 1.25 (d,3H), 1.3-1.7 (m,5H), 1.8 (s,3H), 2.0 (s,3H), 2.15 (s,3H), 3.05 (s,6H), 4.15 (m,1H), 6.4 (s,1H), 6.6 (s,1H).
103	δ 0.9 (d,12H), 1.2-1.7 (m,10H), 1.8 (s,3H), 2.0 (s,3H), 2.15 (s,3H), 3.0 (s,6H), 4.1 (m,1H), 6.4 (s,1H), 6.6 (s,1H).
104	δ 0.9-1.0 (m,3H), 1.25 (m,3H), 1.5-1.7 (m,6H), 1.8 (s,3H), 2.0 (s,3H), 2.15 (s,3H), 3.0 (s,6H), 4.1 (m,1H), 4.7 (d,2H), 6.4 (s,1H), 6.6 (s,1H).
105	δ 0.9 (d,6H), 1.2 (d,2H), 1.25 (m,2H), 1.4-1.6 (m,4H), 2.2 (s,3H), 2.37 (s,3H), 6.6 (s,1H), 7.15 (s,1H), 7.4 (s,1H).
106	δ 0.95 (d,6H), 1.28 (t,2H), 1.35 (m,1H), 1.6 (m,2H), 1.8 (m,2H), 2.18 (s,3H), 2.1 (s,3H), 3.22 (s,3H), 3.88 (q,2H), 3.92 (t,2H), 6.6 (s,1H), 6.9(s,1H).
108	δ 0.9 (d,6H), 1.2-1.4 (t & m,8H), 1.6 (m,2H), 1.75 (m,2H), 2.15 (s,3H), 2.2 (s,3H), 3.7 (q,4H), 3.9 (t,2H), 6.6 (s,1H), 6.9 (s,1H).
110	δ 0.9 (d,6H), 1.05 (m,2H), 1.4 (m,1H), 1.7 (m,2H), 1.8 (s,3H), 2.0 (s,3H), 3.0 (s,6H), 3.95 (t,2H), 6.65 (s,1H), 6.75 (s,1H).
111	δ 0.9 (d,6H), 1.35 (m,2H), 1.65 (m,2H), 1.7 (m,2H), 2.25 (s,3H), 3.0 (s,6H), 3.95 (s,6H), 6.65 (s,1H), 7.3 (s,1H).
115	δ 0.9 (d,6H), 1.4 (t,2H), 1.6 (m,1H), 1.8 (m,2H), 2.3 (s,3H), 3.0 (s,6H), 3.9 (t,2H), 6.7 (s,1H), 7.2 (s,1H).
116	δ 0.95 (d,6H), 1.3-1.5 (m,2H), 1.5-1.7 (m,2H), 1.8 (s,3H), 1.8-1.95 (m,1H), 2.2 (s,3H), 3.0 (s,6H), 4.8 (t,2H), 6.8 (s,1H).
126	δ 0.95 (d,6H), 1.3 (t,2H), 1.6 (m,1H), 1.8 (m,2H), 3.0 (s,6H), 3.9 (t,2H), 6.9 (s,1H), 7.4 (s,1H).
127	δ 0.9 (d,6H), 1.2 (d,6H), 1.3 (m,2H), 1.6 (m,1H), 1.8 (m,2H), 3.05 (s,3H), 3.95 (t,2H), 5.40 (m,1H), 6.8 (s,1H), 6.9 (s,1H), 7.80 (s,1H).
128	δ 0.00 (s,9H), 0.62 (m,2H), 2.1 (s,3H), 3.00 (s,6H), 3.55 (s,3H), 3.85 (t,2H), 6.4 (s,1H), 6.6 (s,1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
129	δ 0.0 (s,9H), 0.6 (m,2H), 1.2 (t,2H), 1.8 (m,2H), 2.08 (s,3H), 2.93 (s,3H), 3.3 (q,2H), 3.52 (s,3H), 3.8 (t,2H), 6.652 (s,1H), 6.66 (s,1H).
130	δ 0.0 (s,9H), 0.6 (m,2H), 1.8 (m,2H), 2.1 (s,3H), 3.0 (s,6H), 3.6 (t,2H), 6.8 (d,2H).
131	δ 0.00 (s,9H), 0.62 (m,2H), 1.2 (t,3H), 1.8 (s,3H), 2.1 (s,6H), 3.00 (s,3H), 3.3 (q,2H), 3.5 (s,3H), 3.9 (t,2H), 6.45 (s,1H), 6.6 (s,1H).
132	δ 0.89 (d,6H), 1.34 (m,2H), 1.587 (m,1H), 1.8 (m,2H), 2.2 (s,3H), 2.26 (s, 3H), 2.96 (s,6H), 3.78 (t,2H), 6.43 (s,1H), 7.3 (s,1H).
135	δ 0.89 (s, 9H), 1.35 (m, 2H), 1.8 (m, 2H), 2.2 (s, 3H), 2.25 (s, 3H), 3.0 (s, 6H), 3.8 (t, 2H), 6.45 (s, 1H), 7.3 (s, 1H).
137	δ 0.95 (d,6H), 1.3 (t,3H), 1.4 (m,2H), 1.6 (m,1H), 1.85 (m,2H), 2.3 (s,6H), 3.35 (s,3H), 3.9 (m,4H), 6.7 (s,1H), 6.95 (s,1H).
140	δ 0.0 (s,9H), 0.5-0.65 (m,2H), 1.2 (t,3H), 1.6-1.85 (m,2H), 2.2 (s,3H), 2.25 (s,3H), 2.95 (s,3H), 3.3 (br s,2H), 3.75 (t,2H), 6.4 (s,1H), 7.3 (s,1H).
141	δ 0.9 (m,6H), 1.2-1.25 (m,6H), 1.4-1.5 (m,4H), 2.2 (s,3H), 2.3 (s,3H), 2.9 (m,1H), 3.0 (s,6H), 6.6 (s,1H), 7.15 (s,1H), 7.2 (s,1H).
142	δ 0.9 (m,6H), 1.2-1.7 (m,10H), 1.75 (s,3H), 1.95 (s,3H), 2.1 (s,3H), 3.0 (s,6H), 4.1 (m,1H), 6.4 5(s,1H), 6.6 (s,1H).
143	δ 0.9 (m,6H), 1.2-1.5 (m,8H), 1.6 (m,4H), 1.8 (s,3H), 2.0 (s,3H), 2.1 (s,3H), 3.0 (s,6H), 4.1 (m,1H), 6.4 (s,1H), 6.7 (s,1H).
144	δ 0.8-0.9 (m,6H), 1.1 (d,3H), 1.2-1.6 (m,5H), 2.05 (s,3H), 2.2 (s,3H), 2.95 (s,6H), 3.4 (m,1H), 6.4 (s,1H), 7.4 (s,1H).
145	δ 0.8-0.9 (m,6H), 1.1-1.5 (m,16H), 1.2-1.6 (m,5H), 2.0 (s,3H), 2.2 (s,3H), 2.9 (s,6H), 3.3 (m,1H), 6.4 (s,1H), 6.45 (s,1H), 7.4 (s,1H).
146	δ 0.9 (m,6H), 1.25-1.5 (m, 8H), 2.0 (s,3H), 2.2 (s,3H), 3.0 (s,6H), 3.35 (m,1H), 6.4 (s,1H), 6.45 (s,1H), 7.4 (s,1H).
147	δ 0.85 (s,9H), 0.95 (d,3H), 1.2 (m,2H), 1.45 (m,1H), 1.6 (m,2H), 2.0 (s,3H), 2.2 (s,3H), 3.0 (s,6H), 3.1 (m,1H), 6.4 (s,1H), 6.5 (s,1H), 7.2 (s,1H).
148	δ 0.8-0.9 (m,9H), 1.2-1.3 (m,6H), 1.4-1.5 (m,5H), 2.0 (s,3H), 2.2 (s,3H), 3.0 (s,6H), 3. 3(m,1H), 6.4 (s,1H), 6.5 (s,1H), 7.4 (s, 1H).
149	δ 0.8-0.9 (m,9H), 1.15-1.3 (m,2H), 1.4-1.6 (m,5H), 2.0 (s,3H), 2.2 (s,3H), 2.95 (s,6H), 3.2 (m,1H), 6.4 (s,1H), 6.5 (s,1H), 7.4 (s,1H).
150	δ 0.8-0.9 (m,6H), 1.2-1.4 (m,8H), 1.4-1.5 (m,4H), 2.0 (s,3H), 2.2 (s,3H), 2.95 (s,6H), 3.3 (m,1H), 6.35 (s,1H), 6.45 (s,1H), 7.35 (s,1H).

화합물 번호	^1H NMR 데이터 (답리 표시하지 않는 한 CDCl_3 용액) ^a
151	δ 0.8-0.9 (m, 12H), 1.1-1.3 (m, 4H), 1.4-1.5 (m, 6H), 2.0 (s, 3H), 2.2 (s, 3H), 2.95 (s, 6H), 3.25 (m, 1H), 6.35 (s, 1H), 6.45 (s, 1H), 7.35 (s, 1H).
152	δ 0.9 (m, 3H), 1.4-1.7 (m, 6H), 1.7 (m, 3H), 2.1 (s, 3H), 2.2 (s, 3H), 3.0 (s, 6H), 3.3 (m, 1H), 4.7 (d, 2H), 6.4 (s, 1H), 6.55 (s, 1H), 7.4 (s, 1H).
153	δ 1.3 (s, 9H), 2.1 (s, 3H), 2.2 (s, 3H), 2.8 (t, 2H), 2.95 (s, 6H), 3.3 (t, 2H), 6.4 (s, 1H), 6.5 (s, 1H), 7.4 (s, 1H).
154	δ 0.9 (dd, 6H), 1.2-1.3 (m, 2H), 1.5-1.7 (m, 3H), 2.05 (s, 3H), 2.2 (s, 3H), 2.95 (s, 6H), 3.05 (m, 2H), 6.45 (s, 1H), 6.5 (s, 1H), 7.35 (s, 1H).
155	δ 0.95 (t, 6H), 1.3-1.7 (m, 12H), 2.25 (s, 3H), 2.4 (s, 3H), 2.9 (m, 1H), 3.0 (s, 6H), 6.6 (s, 1H), 7.2 (s, 1H), 7.4 (s, 1H).
156	δ 0.9 (d, 6H), 1.4 (m, 2H), 1.6 (m, 2H), 2.2 (s, 3H), 2.4 (s, 3H), 2.8 (t, 2H), 3.0 (s, 6H), 6.6 (s, 1H), 7.1 (s, 1H), 7.4 (s, 1H).
157	δ 0.95 (t, 6H), 1.2-1.6 (m, 10H), 2.25 (s, 3H), 2.4 (s, 3H), 2.9 (m, 1H), 3.0 (s, 6H), 6.6 (s, 1H), 7.2 (s, 1H), 7.4 (s, 1H).
158	δ 0.85 (s, 9H), 0.95 (d, 3H), 1.4 (m, 2H), 2.25 (s, 3H), 2.4 (s, 3H), 2.8 (m, 2H), 3.0 (s, 6H), 6.55 (s, 1H), 7.05 (s, 1H), 7.4 (s, 1H).
159	δ 0.85 (d, 12 H), 1.25-1.6 (m, 10H), 2.25 (s, 3H), 2.40 (s, 3H), 2.95 (m, 1H), 3.05 (s, 6H), 6.60 (s, 1H), 7.20 (s, 1H), 7.45 (s, 1H).
160	δ 0.9 (t, 6H), 1.25 - 1.6 (m, 10H), 2.2 (s, 3H), 2.35 (s, 3H), 2.9 (m, 1H), 3.0 (s, 6H), 6.5 (s, 1H), 7.25 (s, 1H), 7.4 (s, 1H).
161	δ 0.9 (t, 3H), 1.0 (m, 2H), 1.6 (s, 3H), 2.25 (s, 3H), 2.4 (s, 3H), 3.05 (s, 6H), 3.1 (m, 1H), 4.7 (m, 2H), 6.55 (s, 1H), 7.20 (s, 1H), 7.45 (s, 1H).
162	δ 0.9 (d, 6H), 1.0 (t, 3H), 1.3-1.7 (m, 5H), 2.20 (s, 3H), 2.4 (s, 3H), 2.9 (m, 1H), 3.0 (s, 6H), 6.6 (s, 1H), 7.20 (s, 1H), 7.45 (s, 1H).
163	δ 0.00 (s, 9H), 0.60 (m, 2H), 1.30 (t, 6H), 1.75 (m, 2H), 2.15 (s, 3H), 2.3 (s, 3H), 3.45 (q, 4H), 3.85 (t, 2H), 6.65 (s, 1H), 6.90 (s, 1H), 7.35 (s, 1H).
165	δ 1.25 (s, 9H), 2.15 (s, 3H), 2.25 (s, 3H), 2.8 (s, 3H), 3.5 (s, 6H), 3.65 (m, 2H), 3.95 (m, 2H), 6.65 (s, 1H), 6.85 (s, 1H).
167	δ 0.00 (s, 9H), 0.60 (m, 2H), 1.65 (m, 2H), 2.15 (s, 3H), 2.25 (s, 3H), 3.3 (s, 6H), 3.85 (t, 2H), 6.62 (s, 1H), 6.75 (br s, 1H), 6.9 (s, 1H).
173	δ 0.00 (s, 9H), 0.62 (m, 2H), 1.72 (s, 3H), 1.8 (m, 2H), 1.96 (s, 3H), 3.05 (s, 6H), 3.88 (t, 2H), 6.62 (s, 1H), 6.73 (s, 1H).
174	δ 1.40 (s, 9H), 2.32 (s, 3H), 2.35 (s, 3H), 3.00 (s, 6H), 3.55 (s, 2H), 6.60 (s, 1H), 7.38 (s, 1H), 7.60 (s, 1H), 8.70 (br s, 1H).
175	δ 0.80 (s, 9H), 1.20-1.40 (m, 4H), 1.8 (s, 3H), 3.0 (s, 6H), 3.9 (t, 2H), 6.60 (s, 1H), 6.70 (s, 1H), 7.25 (s, 1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
176	δ 0.80 (s,9H), 1.30 (m,2H), 1.5 (m,2H), 1.8 (s,3H), 2.0 (s,3H), 3.0 (s,6H), 3.95 (t,2H), 6.60 (s,1H), 6.70 (s,1H).
177	δ 0.90 (s,9H), 1.25 (m,2H), 1.45 (t,6H), 1.80 (m,2H) 2.20, (s,3H), 3.80 (q,4H), 3.95 (t,2H), 6.40 (bs,1H), 6.50 (s,1H), 7.20 (s,1H)
182	δ 0.00 (s,9H), 0.60 (m,2H), 1.80 (m,2H), 2.15 (s,3H), 2.95 (s,6H), 3.85 (t,2H), 6.65 (s,1H), 7.4 (s,1H).
191	δ 0.92 (s,9H), 1.26-1.35 (m,8H), 1.75 (m,2H), 2.15 (s,3H), 2.2 (s,3H), 3.75 (q,4H), 3.9 (t,2H), 6.6 (s,1H), 6.7 (s,1H), 6.9 (s,1H).
196	δ 0.00 (s,9H), 0.6 (m,2H), 1.15 (t,3H), 1.7 (m,2H), 2.13 (s,3H), 2.19 (s,3H), 2.93 (s,3H), 3.3 (m,2H), 3.83 (t,2H), 6.5 (s,1H), 6.59 (s,1H), 7.36 (br s,1H),
197	δ 0.9 (d,6H), 1.15 (t,3H), 1.3 - 1.45 (m,2H), 1.5-1.7 (m,1H), 1.7-1.9 (m,2H), 2.2 (s,3H), 2.9 (s,3H), 3.3 (m,2H), 3.9 (t,2H), 6.7 (s,1H), 6.8 (s,1H), 7.4 (br s,1H).
198	δ 0.95 (d,6H), 1.15 (t,3H), 1.25 (d,3H), 1.35 (m,2H), 1.55 (m,2H), 1.7 (m,1H), 2.1 (s,3H), 2.9 (s,3H), 3.3 (br s,2H), 4.2 (m,1H), 6.7 (s,1H), 7.4 (s,1H).
199	δ 0.9 (d,9H), 1.18 (t,3H), 1.3 (m,2H), 1.7 (m,2H), 2.17 (s,3H), 2.2 (s,3H), 2.95 (s,3H), 3.3 (br m,2H), 3.85 (t,2H), 6.5 (s,1H), 6.6 (s,1H), 7.3 (s,1H).
200	δ 0.9 (d,6H), 1.18 (t,2H), 1.3 (m,2H), 1.55 (m,1H), 1.78 (m,2H), 2.2 (s,3H), 2.26 (s,3H), 2.94 (s,3H), 3.3 (br m,2H), 3.78 (t,2H), 6.4 (s,1H), 7.3 (s,1H).
201	δ 0.9 (d,9H), 1.18 (t,3H), 1.3 (m,2H), 1.7 (m,2H), 2.2 (s,3H), 2.26 (s,3H), 2.94 (s,3H), 3.3 (br m,2H), 3.78 (t,2H), 6.4 (s,1H), 7.3 (s, 1H).
202	δ 0.02 (s,9H), 0.62 (m,2H), 1.2 (t,3H), 1.82 (m,2H), 3 (s,3H), 3.2-3.6 (m, 2H), 3.82 (s,3H), 3.95 (t,2H), 6.51 (s, 1H), 6.79 (s, 1H), 7.47 (br, 1H).
203	δ 0.02 (s,9H), 0.62 (m,2H), 1.22 (t,3H), 1.82 (m,2H), 2.4 (s,3H), 3.01 (s,3H), 3.2-3.6 (m, 2H), 3.96 (t,2H), 6.69 (s, 1H), 6.79 (s, 1H), 7.3-7.53 (br, 1H).
205	δ 0.02 (s,9H), 0.65 (m,2H), 1.24 (d,6H), 1.82 (m,2H), 2.4 (s,3H), 2.94 (br s,3H), 3.64 (m,1H), 3.96(t,2H), 6.69 (s,1H), 6.79 (s,1H), 7.6 (s,1H).
206	δ 0.02 (s,9H), 0.62 (m,2H), 0.92 (t,3H), 1.62 (m,2H), 1.82 (m,2H), 2.4 (s,3H), 3.02 (s,3H), 3.1-3.5 (m, 2H), 3.96 (t,2H), 6.69 (s, 1H), 6.79 (s, 1H), 7.45 (br s, 1H).

화합물 번호	¹ H NMR 데이터 (달리 표시하지 않는 한 CDCl ₃ 용액) ^a
207	δ 0.02 (s,9H), 0.62 (m,2H), 1.82 (m,2H), 2.23 (s,3H), 2.27 (s,1H), 3.04 (s,3H), 3.93 (t,2H), 4.17 (br s, 2H), 6.74 (s, 1H), 6.78 (s, 1H), 7.4 (s, 1H).
208	δ 0.02 (s,9H), 0.61 (m,2H), 1.23 (t,3H), 1.8 (m,2H), 2.16 (s,3H), 3.01 (s,3H), 3.1-3.6 (m, 2H), 3.93 (t,2H), 6.72 (s, 1H), 7.22 (br s, 1H).
209	δ 0.02 (s,9H), 0.6 (m,2H), 1.8 (m,2H), 2.23 (s,3H), 2.43 (m,2H), 3.93 (t,2H), 4.3 (t, 4H), 6.72 (s, 1H), 6.75 (s, 1H), 7.31 (s, 1H).

^a ¹H NMR 데이터는 테트라메틸실란으로부터 낮은 장의 ppm으로 기록한 것임.
 커플링은, (s)-단일선, (d)-이중선, (t)-삼중선, (q)-사중선, (m)-다중선,
 (dd)-이중선의 이중선, (dt)-삼중선의 이중선, (br s)-넓은 단일선으로 나타냄.

<

>

(50/50 ppm), 250 ppm (Trem,) 014 (가 3 %)
 (ppm) . , . 200
 500 g/ha (point of run-off) .

A

siphe graminis f. sp. tritici) (, *f. sp.* 20 (*Ery* 7)

B

20 24 (20)

6

C

20 9 20 48 ((glume)

A C , 0 A , 100 (가) 100 %

[Aa]

화합물 번호	시험 A	시험 B	시험 C
1	32	100	92
2	95	100	36
3	0	87	0
4	0	92	0
5	0	100	89
6	0	100	60
7	0	0	0
8	97	100	98
9	98	100	97
10	97	100	0
11	97	100	100
12	97	100	80
13	97	100	100
14	90	100	0
15	94	100	0
16	88	100	97
17	92	100	100
18	98	100	98
19	96	100	100
20	96	100	99
21	98	100	96
22	98	100	88
23	97	98	13
24	86	23	0
25	0	90	0
26	98	100	100
27	99	100	100
28	0	97	0
29	99	100	58
30	0	100	0
31	93	100	53
32	97	100	95

[Ab]

화합물 번호	시험 A	시험 B	시험 C
33	95	100	0
34	96	100	0
35	95	100	100
36	88	100	0
37	--	--	--
38	96	100	20
39	0	100	94
40	97	100	100
41	79	99	47
42	96	99	63
43	96	100	93
44	99	100	99
45	0	80	0
46	97	100	97
47	29	99	80
48	99	100	96
49	99	99	83
50	99	67	100
51	96	100	100
52	100	100	99
53	100	100	99
54	100	100	100
55	0	19	0
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	96
66	-	-	-
67	-	-	-
68	-	-	-

[Ac]

화합물 번호	시험 A	시험 B	시험 C
69	-	-	-
70	-	-	-
71	-	-	-
72	-	-	-
73	99	61	66
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	0	98	100
79	0	99	100
83	0	9	0
84	100	100	100
85	100	99	100
86	100	99	100
87	-	-	-
88	-	-	-
89	-	-	-
90	-	-	-
91	0	26	0
92	100	100	100
93	99	100	99
94	99	100	100
95	100	100	100
96	0	100	100
97	0	45	85
98	0	60	94
99	0	9	0
100	0	86	76
101	100	100	100
102	21	95	89
103	31	0	0
104	0	23	0
105	97	100	98
106	100	100	100
107	60	99	99

[Ad]

화합물 번호	시험 A	시험 B	시험 C
108	87	89	96
110	42	97	99
111	99	100	100
112	95	99	99
113	91	99	100
114	99	100	100
115	85	85	100
116	87	92	100
117	29	37	60
118	99	100	78
119	0	64	78
120	91	8	0
121	49	85	67
122	99	100	0
123	54	46	100
124	98	98	100
125	96	97	100
126	95	40	100
127	0	99	100
128	98	95	73
129	100	100	67
130	100	97	0
131	67	100	96
132	98	100	97
133	99	85	53
134	100	100	81
135	100	100	92
136	95	91	84
137	100	100	84
138	98	74	60
139	100	100	99
140	100	100	100
141	0	99	100
142	0	0	53
143	0	0	80
147	0	0	53

[Ae]

화합물 번호	시험 A	시험 B	시험 C
148	0	0	47
150	0	0	47
151	0	0	60
154	0	0	47
155	0	23	95
156	93	100	100
157	0	96	99
158	61	98	56
159	94	100	47
160	0	55	0
161	72	100	53
162	21	99	67
163	32	100	73
164	100	100	100
165	0	28	0
167	99	99	100
168	99	100	100
169	99	100	100
170	99	100	99
172	100	100	100
173	32	90	99
175	97	100	100
176	43	99	100
177	96	100	100
178	100	100	100
179	20	23	0
180	75	58	0
181	100	100	67
182	98	79	67
183	99	85	90
184	100	99	78
185	99	98	63
186	94	9	0
187	100	99	78
188	100	79	90
189	0	9	0

[Af]

화합물 번호	시험 A	시험 B	시험 C
190	0	68	0
191	63	99	91
192	99	100	100
193	0	23	0
194	99	100	100
196	100	100	100
197	100	100	100
198	100	100	100
199	100	100	100
200	100	100	100
201	100	100	100

m 0, 1, 2 3 .

2.

1 ,

R^1 H, SH, SO_3H , CN, -OR⁷ -SR⁷; 1 R^8 C_1-C_{10} , C_2-C_3 , 4-
10, 5- 6 ;

R^2 가 H, CN, -OR⁷ -SR⁷; 1 R^8 C_1-C_{10} , C_2-C_{10} , C
2 -C¹⁰ 3-, 4-, 5- 6 -C¹⁰ ;

R^3 H; 1 R^8 C_1-C_{10} , C_2-C_{10} , C_2-C_{10} 3-, 4-, 5- 6
-C¹⁰ ;

R^2 R^3 3 7
가 R^2 R^3 , 1 , R^9 , 1 2 ;

R^6 1 R^{11} C_5-C_{21} , C_5-C_{21} , C_5-C_{21} , C_4-C_9
; R^6 1 R^{12} C_3-C_{10} , C_1-C_4 , C_2-C_9 , C_3-C_{12} ;

R^7 1 R^8 C_1-C_6 , C_2-C_6 , C_2-C_6
; 1 R^9 C_3-C_6 3-, 4-, 5- 6 ;

R^8 , CN, NO₂, C_1-C_4 , C_1-C_4 , C_1-C_4 ;

R^{11} , CO₂H, CONH₂, NO₂, C_1-C_6 , C_1-C_6 , C
2 -C⁶ , C_1-C_6 , C_1-C_6 , C_1-C_6 , C_1-C_6 , C_1-C_6 , C_2-C_8 , C_2-C_6 , C_2-C_6 ,
C³-C⁸ , C_3-C_9 , C_4-C_8 , C_2-C_6 , C_4-C_{10} , C_3-C_9 , C_2-C_8 ,
8 , C_2-C_8 , C_3-C_9 , C_3-C_9 .

3.

2 ,

R^1 H, SH C_1-C_{10} ;

R^2 가 H, CN, -OR⁷ -SR⁷; 1 R^8 C_1-C_{10} , C_2-C_{10} , C
2 -C¹⁰ ; 1 3 R^9 ;

R^3 H; 1 R^8 C_1-C_{10} , C_2-C_{10} , C_2-C_{10} ;
1 3 R^9 ;

R^2 R^3 3 7
가 R^2 R^3 , 1 , R^9 , 1 2 ;

R^4 R^5 가 C_1-C_6 , C_2-C_6 , C_2-C_6 , C_1-C_6 , C_1-C_4 ,
CO₂H, CONH₂, C_1-C_4 , C_1-C_4 , C_1-C_4 , C_1-C_4 , C_1-C_4 , C_2-C_6 ,
; C_2-C_6 , C_1-C_6 , CN, CHO C_3-C_8 ;

R^6 1 R^{11} C_5-C_{15} , C_5-C_{15} C_5-C_{15} ;
 R^6 1 R^{12} C_1-C_4 ;

R^7 1 R^8 C_1-C_6 ;

A가 , O $S(O)_n$;

m 0, 1 2 .

4.

3 , A가 4 I .

5.

4 ,

R^2 R^3 H C_1-C_{10} ;

R^2 R^3 3 7 ,
 R^2 R^3 1 , R^9 , 1 2 ,
 가 , ;

R^4 R^5 가 , CN, CHO, C_1-C_6 , C_1-C_4 , C_1-C_4 , C_1-C_6 , C_1-C_4 ,
 C_4 , C_1-C_4 , C_1-C_4 , C_1-C_6 ;

R^5 가 5 I , R^5 가 6
 I ;

m 1 2 .

6.

5 ,

R^1 H ;

R^6 C_6-C_{15} , A 가 1
 C_5-C_{15} 2- , A ;

7.

5 ,

R^1 H ;

R^6 C_2-C_6 , C_1-C_6 , C_2-C_6 , C_2-C_8 , C_2-C_6 ,
 C_3-C_9 , C_3-C_9 , C_3-C_9 , C_3-C_8 , C_3-C_9 ,
 C_1-C_4 .

8.

가 1 , , 1

9.

1 , 1 .

10.

가¹ , , .