

フッ素化合物カタログ

1994年1月 改訂



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ご案内

ご注文

- ※ ご注文は、コード番号、試薬名、容量、数量をご明記の上、本社、または研究所までご注文ください。
- ※ 即納を原則としておりますが、品切れの場合もありますので納期をご確認下さい。

価格

- ※ このカタログに記載されている価格は、1994年1月現在の価格です。
- ※ シリンダーは、別料金となりますのでご了承下さい。

依頼合成

- ※ カタログ記載以外の試薬が必要の場合には、ご照会下さい。

バルク

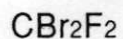
- ※ 特定の試薬を大量にご使用の場合には、ご相談下さい。特別価格にてお見積りいたします。

ご注意

- ※ このカタログに記載されている試薬の多くは毒性等についてデータが明確にされていないので、取り扱いには充分ご注意ください。
- ※ このカタログに記載されている試薬は、すべて研究用であり、医薬品ならびに食品添加物として使用することはできません。

C- 1 Aliphatic Fluorine Compounds

1N005 Dibromodifluoromethane



M.W. 209.8

B.P. 24.5°C

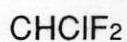
n²⁰ 1.4016

CAS.Reg.No. 75-61-6

M.P. -141°C

d¹⁵ 2.3063

1N008 Chlorodifluoromethane



M.W. 86.5

B.P. -40.8°C

n²⁵ 1.256

CAS.Reg.No. 75-45-6

M.P. -160°C

d²⁵ 1.194

C- 2 Aliphatic Fluorine Compounds

2N001 1,1,1-Trifluoroethane
 CF_3CH_3
 M.W. 84.0
 B.P. -46.8°C M.P. -107°C
 n d^{30} 0.942
 CAS.Reg.No. 420-46-2

2N002 1-Chloro-2,2,2-trifluoroethane
 $\text{CF}_3\text{CH}_2\text{Cl}$
 M.W. 118.5
 B.P. 6.9°C M.P. -105.5°C
 n^0 1.3090 d^0 1.389
 CAS.Reg.No. 75-88-7

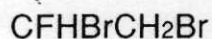
2N004 2,2,2-Trifluoroethanol
 $\text{CF}_3\text{CH}_2\text{OH}$
 M.W. 100.0
 B.P. 73.6°C M.P. -43.5°C
 n^{25} 1.2907 d^{20} 1.3842
 CAS.Reg.No. 75-89-8

2N007 1,2-Dibromo-1,1-difluoroethane
 $\text{CF}_2\text{BrCH}_2\text{Br}$
 M.W. 223.8
 B.P. $92\sim 93^\circ\text{C}$ M.P. -61.3°C
 n^{20} 1.4456 d^{20} 2.2238
 CAS.Reg.No. 75-82-1

2N010 Bromopentafluoroethane
 $\text{CF}_3\text{CF}_2\text{Br}$
 M.W. 198.9
 B.P. -21°C M.P.
 n^{30} 1.2966 d^0 1.8098
 CAS.Reg.No. 354-55-2

C- 2 Aliphatic Fluorine Compounds

2N016 1,2-Dibromofluoroethane



M.W. 205.9

B.P. 122.5°C

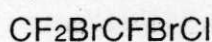
n^{20} 1.50124

CAS.Reg.No. 358-97-4

M.P.

d^{20} 2.2501

2N017 1,2-Dibromo-1-chlorotrifluoroethane



M.W. 276.3

B.P. 93°C

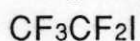
n^{20} 1.4280

CAS.Reg.No. 354-51-8

M.P. -72.9°C

d^{20} 2.2478

2N019 Iodopentafluoroethane



M.W. 245.9

B.P. 13°C

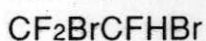
n^1 1.3378

CAS.Reg.No. 354-64-3

M.P.

d^{28} 2.0718

2N021 1,2-Dibromo-1,2,2-trifluoroethane



M.W. 241.8

B.P. 76°C

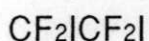
n^{20} 1.4102

CAS.Reg.No. 354-04-1

M.P.

d^{20} 2.2404

2N023 1,2-Diiodotetrafluoroethane



M.W. 353.8

B.P. 112~113°C

n^{25} 1.4895

CAS.Reg.No. 354-65-4

M.P. -21°C

d^{25} 2.6293

C-2 Aliphatic Fluorine Compounds

2N029 1,1,2,2-Tetrachlorodifluoroethane
CFCl2CFCl2
 M.W. 203.8
 B.P. 92.8°C
 n²⁵ 1.41297
 CAS.Reg.No. 76-12-0

M.P. 26°C
 d²⁵ 1.64470

2N032 1,1,1-Trichlorotrifluoroethane
CF3CCl3
 M.W. 187.4
 B.P. 45°C
 n²⁰ 1.360
 CAS.Reg.No. 354-58-5

M.P. 14.2°C
 d²⁰ 1.5790

2N033 1,1-Dichloro-2,2,2-trifluoroethane
CF3CHCl2
 M.W. 152.9
 B.P. 27.1°C
 n
 CAS.Reg.No. 306-83-2

M.P. -107°C
 d¹⁵ 1.475

2N034 2,2,2-Trifluoroethylamine
CF3CH2NH2
 M.W. 99.1
 B.P. 36°C
 n²⁰ 1.302
 CAS.Reg.No.

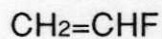
M.P.
 d¹⁰ 1.285

2E005 1,1-Difluoroethylene
CF2=CH2
 M.W. 64.0
 B.P. -83°C
 n
 CAS.Reg.No. 75-38-7

M.P. -144°C
 d²¹ 0.659

C- 2 Aliphatic Fluorine Compounds

2E006 Fluoroethylene



M.W. 46.0

B.P. -72°C

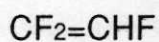
n

CAS.Reg.No. 75-02-5

M.P. -160.5°C

d^{26} 0.675

2E011 Trifluoroethylene



M.W. 82.0

B.P. -61°C

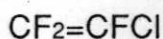
n^{78} 1.26

CAS.Reg.No. 359-11-5

M.P. -78°C

d^{20} 1.02

2E012 Chlorotrifluoroethylene



M.W. 116.5

B.P. -27°C

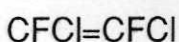
n

CAS.Reg.No. 79-38-9

M.P. -157.5°C

d^{40} 1.51

2E022 1,2-Dichloro-1,2-difluoroethylene



M.W. 132.9

B.P. $21\sim 22^\circ\text{C}$

n

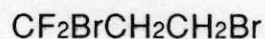
CAS.Reg.No. 598-88-9

M.P.

d^0 1.494

C- 3 Aliphatic Fluorine Compounds

3N004 1,3-Dibromo-1,1-difluoropropane



M.W. 237.9

B.P. 62°C /86mmHg

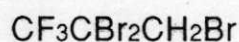
n^{20} 1.4492

CAS.Reg.No. 460-25-3

M.P.

d^{20} 2.0372

3N005 1,2,2-Tribromo-3,3,3-trifluoropropane



M.W. 334.8

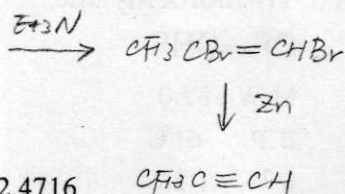
B.P. 162°C

n^{20} 1.4831

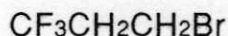
CAS.Reg.No.

M.P.

d^{20} 2.4716



3N008 1-Bromo-3,3,3-trifluoropropane



M.W. 177.0

B.P. 62°C

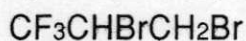
n^{20} 1.3628

CAS.Reg.No. 460-32-2

M.P.

d^{20} 1.6697

3N010 1,2-Dibromo-3,3,3-trifluoropropane



M.W. 255.9

B.P. 116°C

n^{20} 1.4317

CAS.Reg.No. 431-21-0

M.P.

d^{20} 2.1369

3N013 1,2,3-Tribromo-1,1-difluoropropane



M.W. 316.8

B.P. 70°C /23mmHg

n^{20} 1.5066

CAS.Reg.No.

M.P.

d^{20} 2.4340

C- 3 Aliphatic Fluorine Compounds

3N015 1,2-Dibromohexafluoropropane



M.W. 309.8

B.P. 72.8°C

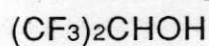
n^{20} 1.3592

CAS.Reg.No. 661-95-0

M.P.

d^{20} 2.1708

3N016 Hexafluoroisopropanol



M.W. 168.0

B.P. 58.6°C

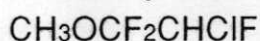
n^{20} 1.2750

CAS.Reg.No. 920-66-1

M.P. -4°C

d^{20} 1.596

3N023 1-Methoxy-1,1,2-trifluoro-2-chloroethane



M.W. 148.5

B.P. 64.4°C /630mmHg

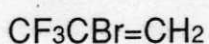
n^{20} 1.3338

CAS.Reg.No. 425-87-6

M.P.

d^{20} 1.3644

3E011 2-Bromo-3,3,3-trifluoropropene



M.W. 174.9

B.P. 34~35°C

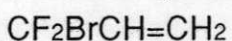
n^{15} 1.3556

CAS.Reg.No. 1514-82-5

M.P.

d^{15} 1.6862

3E012 3-Bromo-3,3-difluoropropene



M.W. 157.0

B.P. 42°C

n^{25} 1.3773

CAS.Reg.No. 420-90-6

M.P.

d^{25} 1.543

C- 3 Aliphatic Fluorine Compounds

3E014 3,3,3-Trifluoropropene



M.W. 96.1

B.P. -18°C

n

CAS.Reg.No. 677-21-4

M.P.

d^{23} 0.94

3E020 Hexafluoropropene



M.W. 150.0

B.P. -29.3°C

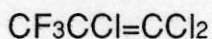
n

CAS.Reg.No. 116-15-4

M.P. -156.2°C

d^{40} 1.583

3E021 1,1,2-Trichloro-3,3,3-trifluoropropene



M.W. 199.4

B.P. 88.1°C

n^{20} 1.406

CAS.Reg.No. 431-52-7

M.P. -114.6°C

d^{20} 1.617

C- 4 Aliphatic Fluorine Compounds

4N002 2-(Trifluoromethyl)propionaldehyde
CF3CH(CH3)CHO
M.W. 126.1
B.P. 66°C M.P.
 n^{20} 1.3278 d^{20} 1.2554
CAS.Reg.No. 58928-28-2

4N003 1,4-Dibromo-1,1,2,2-tetrafluorobutane
CF2BrCF2CH2CH2Br
M.W. 287.9
B.P. 72°C /80mmHg M.P.
 n^{20} 1.4168 d^{20} 2.0049
CAS.Reg.No. 18599-20-7

4N007 1-Iodononafluorobutane
n-C₄F₉I
M.W. 345.9
B.P. 67°C M.P.
 n^{20} 1.3285 d^{20} 2.0530
CAS.Reg.No. 423-39-2

4N009 1,4-Diiodoctafluorobutane
I(CF2CF2)2I
M.W. 453.8
B.P. 85°C /100mmHg M.P. -9°C
 n^{20} 1.43055 d^{20} 2.4971
CAS.Reg.No. 375-50-8

4N010 3-Hydroxy-2-(trifluoromethyl)propionic acid
HOCH2CH(CF3)COOH
M.W. 158.1
B.P. 97°C /2.5mmHg M.P.
 n d
CAS.Reg.No. 382-43-4

C- 4 Aliphatic Fluorine Compounds

4N011 1,4-Dibromo-2-chloro-1,1,2-trifluorobutane
 $\text{CF}_2\text{BrCFClCH}_2\text{CH}_2\text{Br}$
 M.W. 304.3
 B.P. 59°C /22mmHg
 n^{20} 1.4618
 CAS.Reg.No. 378-13-2

M.P.
 d^{20} 2.0314

4N014 (3,3,3-Trifluoropropyl)methyldichlorosilane
 $\text{CF}_3\text{CH}_2\text{CH}_2\text{SiCl}_2\text{CH}_3$
 M.W. 211.1
 B.P. 121~122°C
 n^{20} 1.3850
 CAS.Reg.No. 870-56-4

M.P.
 d^{20} 1.2611

4N022 1-Bromo-3,3,4,4-tetrafluorobutane
 $\text{CHF}_2\text{CF}_2\text{CH}_2\text{CH}_2\text{Br}$
 M.W. 209.0
 B.P. 45°C /93mmHg
 n^{20} 1.3781
 CAS.Reg.No.

M.P.
 d^{20} 1.6931

4N024 (Trifluoromethyl)trimethylsilane
 $\text{CF}_3\text{Si}(\text{CH}_3)_3$
 M.W. 142.2
 B.P. 53°C
 n^{20} 1.3304
 CAS.Reg.No. 81290-20-2

M.P.
 d^{20} 0.9626

4E004 4-Bromo-3,3,4,4-tetrafluorobutene-1
 $\text{CF}_2\text{BrCF}_2\text{CH}=\text{CH}_2$
 M.W. 207.0
 B.P. 63°C
 n^{20} 1.3553
 CAS.Reg.No. 18599-22-9

M.P.
 d^{20} 1.6217

C- 4 Aliphatic Fluorine Compounds

4E005 α -Trifluoromethylacrylic acid
 $\text{CF}_3\text{C}(\text{COOH})=\text{CH}_2$
M.W. 140.1
B.P. $86^\circ\text{C}/35\text{mmHg}$ M.P. $52.5\sim 53^\circ\text{C}$
n d
CAS.Reg.No. 381-98-6

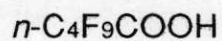
4E012 4-Bromo-3-chloro-3,4,4-trifluorobutene-1
 $\text{CF}_2\text{BrCFClCH}=\text{CH}_2$
M.W. 223.4
B.P. 100.5°C M.P.
n²⁰ 1.4077 d²⁰ 1.6839
CAS.Reg.No. 374-25-4

4E013 1,1,2-Trifluoro-1,3-butadiene
 $\text{CF}_2=\text{CFCH}=\text{CH}_2$
M.W. 108.1
B.P. 8°C M.P.
n d
CAS.Reg.No. 565-65-1

4E021 4-Bromo-1,1,2-trifluorobutene-1
 $\text{CF}_2=\text{CFCH}_2\text{CH}_2\text{Br}$
M.W. 189.0
B.P. $98\sim 100^\circ\text{C}$ M.P.
n²⁰ 1.4013 d²⁰ 1.6603
CAS.Reg.No. 10493-44-4

C- 5 Aliphatic Fluorine Compounds

5N002 Perfluoro-*n*-pentanoic acid



M.W. 264.0

B.P. 82°C /85mmHg

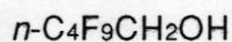
*n*²⁰ 1.30以下

CAS.Reg.No. 2706-90-3

M.P.

*d*²⁰ 1.713

5N008 (Perfluoro-*n*-butyl)methanol



M.W. 250.1

B.P. 77°C /173mmHg

*n*²⁰ 1.30以下

CAS.Reg.No.

M.P.

*d*²⁰ 1.6639

C- 6 Aliphatic Fluorine Compounds

6N001 1-Iodo-2-(perfluoro-*n*-butyl)ethane
n-C₄F₉CH₂CH₂I
M.W. 374.0
B.P. 140°C M.P.
*n*²⁰ 1.3702 *d*²⁰ 1.9390
CAS.Reg.No. 2043-55-2

6N002 2-(Perfluoro-*n*-butyl)ethanol
n-C₄F₉CH₂CH₂OH
M.W. 264.1
B.P. 142°C M.P.
*n*²⁰ 1.3136 *d*²⁰ 1.5892
CAS.Reg.No. 2043-47-2

6N004 1,2-Dibromo-1-(perfluoro-*n*-butyl)ethane
n-C₄F₉CHBrCH₂Br
M.W. 405.9
B.P. 56°C /17mmHg M.P.
*n*²⁰ 1.3786 *d*²⁰ 2.0484
CAS.Reg.No.

6N008 1-Iodotridecafluorohexane
n-C₆F₁₃I
M.W. 445.9
B.P. 119°C M.P.
*n*²⁰ 1.3275 *d*²⁰ 2.0526
CAS.Reg.No. 355-43-1

6N010 1,6-Diiodoperfluorohexane
I(CF₂CF₂)₃I
M.W. 553.9
B.P. 115°C /100mmHg M.P. 25°C
*n*³⁰ 1.3986 *d*³⁰ 2.3600
CAS.Reg.No. 375-80-4

C- 6 Aliphatic Fluorine Compounds

6N012 1,1,2-Tribromo-1-(perfluoro-*n*-butyl)ethane
 $n\text{-C}_4\text{F}_9\text{CBr}_2\text{CH}_2\text{Br}$
 M.W. 484.8
 B.P. 97°C /2.5mmHg
 n^{20} 1.4199
 CAS.Reg.No. 59665-24-6

M.P.
 d^{20} 2.2753

6N018 1-Bromo-2-(perfluoro-*n*-butyl)ethane
 $n\text{-C}_4\text{F}_9\text{CH}_2\text{CH}_2\text{Br}$
 M.W. 327.0
 B.P. 120°C
 n^{20} 1.3346
 CAS.Reg.No. 38436-14-5

M.P.
 d^{20} 1.7614

6N019 Octafluoroadipic acid
 $\text{HOOC}(\text{CF}_2)_4\text{COOH}$
 M.W. 290.1
 B.P.
 n
 CAS.Reg.No. 336-08-3

M.P. 132~134°C
 d

6N021 2,2,3,3,4,4,5,5-Octafluoro-1,6-hexanediol
 $\text{HOCH}_2(\text{CF}_2)_4\text{CH}_2\text{OH}$
 M.W. 262.1
 B.P.
 n
 CAS.Reg.No. 355-74-8

M.P. 68°C
 d

6N022 Ethyl trifluoroacetoacetate
 $\text{CF}_3\text{COCH}_2\text{COOC}_2\text{H}_5$
 M.W. 184.1
 B.P. 131.5°C
 n^{16} 1.3783
 CAS.Reg.No. 372-31-6

M.P. -39.1°C
 d^{20} 1.2566

C- 6 Aliphatic Fluorine Compounds

6N023 Ethyl 3-hydroxy-4,4,4-trifluorobutanoate
CF3CHOHCH2COOC2H5
M.W. 186.1
B.P. 97°C /35mmHg M.P.
 n^{30} 1.3706 d^{30} 1.269
CAS.Reg.No. 372-30-5

6N025 4,4,4-Trifluoro-3,3-dimethoxybutanol
CF3C(OCH3)2CH2CH2OH
M.W. 188.1
B.P. 58°C /5mmHg M.P.
 n d
CAS.Reg.No.

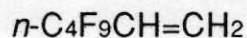
6N026 Dimethyl 2,2,2-trifluoropropionyl carbinol
CF3CH2COC(CH3)2OH
M.W. 170.1
B.P. 49°C /5mmHg M.P.
 n d
CAS.Reg.No.

6N028 1-Hydrotridecafluorohexane
 n -C₆F₁₃H
M.W. 320.1
B.P. 71°C M.P.
 n^{20} 1.30以下 d^{20} 1.6853
CAS.Reg.No. 355-37-3

6N029 1-Bromotridecafluorohexane
 n -C₆F₁₃Br
M.W. 399.0
B.P. 99°C M.P.
 n^{20} 1.30以下 d^{20} 1.8985
CAS.Reg.No. 335-56-8

C- 6 Aliphatic Fluorine Compounds

6E003 (Perfluoro-*n*-butyl)ethylene



M.W. 246.1

B.P. 59°C

n^{20} 1.30以下

CAS.Reg.No. 19430-93-4

M.P.

d^{20} 1.4573

6E005 1-Bromo-1-(perfluoro-*n*-butyl)ethylene



M.W. 325.0

B.P. 96°C

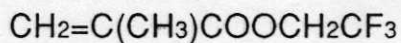
n^{20} 1.3336

CAS.Reg.No. 59665-23-5

M.P.

d^{20} 1.7844

6E009 2,2,2-Trifluoroethyl methacrylate



M.W. 168.1

B.P. 30°C/40mmHg

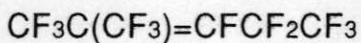
n^{20} 1.3624

CAS.Reg.No. 352-87-4

M.P.

d^{20} 1.1801

6E011 Perfluoro-2-methyl-2-pentene



M.W. 300.0

B.P. 51°C

n^{20} 1.30以下

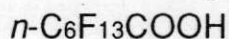
CAS.Reg.No. 1584-03-8

M.P.

d^{20} 1.6390

C- 7 Aliphatic Fluorine Compounds

7N002 Perfluoro-*n*-heptanoic acid



M.W. 364.1

B.P. 89°C /30mmHg

*n*³⁰ 1.3022

CAS.Reg.No. 375-85-9

M.P.

*d*³⁵ 1.765

7N005 (1H,1H,2H,2H-Perfluoro-*n*-hexyl)methyldichlorosilane



M.W. 361.1

B.P. 86.5°C /48mmHg

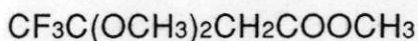
n

CAS.Reg.No. 38436-16-7

M.P.

d

7N008 Methyl 4,4,4-trifluoro-3,3-dimethoxybutanoate



M.W. 216.2

B.P. 70°C /13mmHg

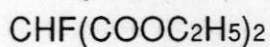
*n*²⁰ 1.3829

CAS.Reg.No.

M.P.

*d*²⁰ 1.2823

7N009 Diethyl fluoromalonate



M.W. 178.2

B.P. 84°C /10mmHg

*n*²⁰ 1.4056

CAS.Reg.No. 685-88-1

M.P.

*d*²⁰ 1.1463

7N010 Ethyl perfluoro-*n*-pentanoate



M.W. 292.1

B.P. 121°C

*n*²⁰ 1.3060

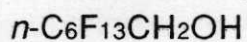
CAS.Reg.No. 424-36-2

M.P.

*d*²⁰ 1.4740

C-7 Aliphatic Fluorine Compounds

7N014 (Perfluoro-*n*-hexyl)methanol



M.W. 350.1

B.P. 67°C /29mmHg

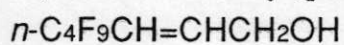
*n*²⁰ 1.304

CAS.Reg.No.

M.P.

*d*²⁰ 1.7543

7E001 3-(Perfluoro-*n*-butyl)prop-2-enol



M.W. 276.1

B.P. 77°C /30mmHg

*n*²⁰ 1.3344

CAS.Reg.No. 72016-05-8

M.P.

*d*²⁰ 1.5517

C- 8 Aliphatic Fluorine Compounds

8N001 1-Iodo-2-(perfluoro-*n*-hexyl)ethane
n-C₆F₁₃CH₂CH₂I
M.W. 474.0
B.P. 180°C
*n*³⁰ 1.3558
CAS.Reg.No. 2043-57-4
M.P. 20.5°C
*d*³⁰ 1.939

8N002 2-(Perfluoro-*n*-hexyl)ethanol
n-C₆F₁₃CH₂CH₂OH
M.W. 364.1
B.P. 84°C /10mmHg
*n*²⁰ 1.3159
CAS.Reg.No. 647-42-7
M.P.
*d*²⁰ 1.6864

8N006 1-Iodoperfluoro-*n*-octane
n-C₈F₁₇I
M.W. 546.0
B.P. 160~161°C
*n*³⁰ 1.3252
CAS.Reg.No. 507-63-1
M.P. 25°C
*d*³⁰ 2.0294

8N022 3,3,4,4,5,5,6,6-Octafluorooctan-1,8-diol
HOCH₂CH₂(CF₂)₄CH₂CH₂OH
M.W. 290.2
B.P. 107°C /3mmHg
*n*³⁰ 1.3733
CAS.Reg.No. 83192-87-4
M.P.
*d*³⁵ 1.5544

8N024 1-Hydroperfluoro-*n*-octane
n-C₈F₁₇H
M.W. 420.1
B.P. 118°C
*n*²⁰ 1.30以下
CAS.Reg.No. 335-65-9
M.P.
*d*²⁰ 1.7582

C- 8 Aliphatic Fluorine Compounds

8N025 1-Bromoperfluoro-*n*-octane
 $n\text{-C}_8\text{F}_{17}\text{Br}$
 M.W. 499.0
 B.P. 142°C
 n^{20} 1.305
 CAS.Reg.No. 423-55-2

M.P.
 d^{20} 1.9290

8N026 1,8-Diiodo-3,3,4,4,5,5,6,6-octafluorooctane
 $\text{ICH}_2\text{CH}_2(\text{CF}_2)_4\text{CH}_2\text{CH}_2\text{I}$
 M.W. 509.9
 B.P.
 n
 CAS.Reg.No. 2681-00-7

M.P. 91~93°C
 d

8N029 (Perfluoro-*n*-hexyl)ethane
 $n\text{-C}_6\text{F}_{13}\text{CH}_2\text{CH}_3$
 M.W. 348.1
 B.P. 116°C
 n^{20} 1.30以下
 CAS.Reg.No.

M.P.
 d^{20} 1.5656

8N032 1,8-Diodoperfluorooctane
 $\text{I}(\text{CF}_2\text{CF}_2)_4\text{I}$
 M.W. 653.9
 B.P. 112°C 25mmHg
 n
 CAS.Reg.No.

M.P. 75~76°C
 d

8E003 (Perfluoro-*n*-hexyl)ethylene
 $n\text{-C}_6\text{F}_{13}\text{CH}=\text{CH}_2$
 M.W. 346.1
 B.P. 106°C
 n^{20} 1.30以下
 CAS.Reg.No. 25291-17-2

M.P.
 d^{20} 1.58547

C- 8 Aliphatic Fluorine Compounds

8E015 Allyl Perfluoro-*n*-pentanoate



M.W. 304.1

B.P. 69°C /90mmHg

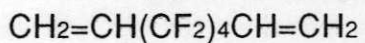
n^{20} 1.3222

CAS.Reg.No.

M.P.

d^{20} 1.6337

8E023 1,4-Divinylperfluoro-*n*-butane



M.W. 254.1

B.P. 64°C /115mmHg

n^{20} 1.3353

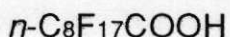
CAS.Reg.No. 678-65-9

M.P.

d^{20} 1.3730

C-9 Aliphatic Fluorine Compounds

9N002 Perfluoro-*n*-nonanoic acid



M.W. 464.1

B.P. 103°C /17mmHg

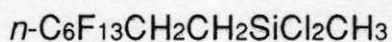
n

CAS.Reg.No. 375-95-1

M.P. 69~71°C

d

9N008 (1H,1H,2H,2H-Perfluoro-*n*-octyl)methyldichlorosilane



M.W. 461.1

B.P. 70.5°C /8mmHg

n

CAS.Reg.No. 73609-36-6

M.P.

*d*²⁵ 1.55

9N011 Ethyl perfluoro-*n*-heptanoate



M.W. 392.1

B.P. 68°C /35mmHg

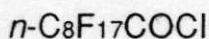
*n*²⁰ 1.3081

CAS.Reg.No. 41430-70-0

M.P.

*d*²⁰ 1.5827

9N012 Perfluoro-*n*-nonanoylchloride



M.W. 482.5

B.P. 69~70°C /47mmHg

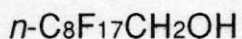
n

CAS.Reg.No. 52447-23-1

M.P.

d

9N014 (Perfluoro-*n*-octyl)methanol



M.W. 450.1

B.P. 84°C /16mmHg

n

CAS.Reg.No.

M.P. 68~69°C

d

C- 9 Aliphatic Fluorine Compounds

9E001 3-(Perfluoro-*n*-hexyl)prop-2-enol

n-C₆F₁₃CH=CHCH₂OH

M.W. 376.1

B.P. 77°C/10mmHg

*n*²⁰ 1.3319

CAS.Reg.No. 38550-47-9

M.P.

*d*²⁰ 1.6503

C > 10 Aliphatic Fluorine Compounds

10N001 1-Iodo-2-(perfluoro-*n*-octyl)ethane
 $n\text{-C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{I}$
 M.W. 574.0
 B.P. 92~95°C /12mmHg
 n
 CAS.Reg.No. 2043-53-0
 M.P. 55~56°C
 d

10N005 1-Iodoperfluoro-*n*-decane
 $n\text{-C}_{10}\text{F}_{21}\text{I}$
 M.W. 646.0
 B.P. 195~200°C
 n
 CAS.Reg.No. 423-62-1
 M.P. 66°C
 d

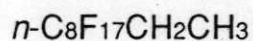
10N006 2-(Perfluoro-*n*-octyl)ethanol
 $n\text{-C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{OH}$
 M.W. 464.1
 B.P. 99°C /15mmHg
 n
 CAS.Reg.No. 678-39-7
 M.P. 42~45°C
 d

10N009 1-Iodo-1,2-di(Perfluoro-*n*-butyl)ethane
 $n\text{-C}_4\text{F}_9\text{CHICH}_2\text{-}n\text{-C}_4\text{F}_9$
 M.W. 592.0
 B.P. 85.5°C /25mmHg
 n
 CAS.Reg.No. 53638-10-1
 M.P.
 d

10N014 Diethyl perfluoroadipate
 $\text{C}_2\text{H}_5\text{OOC}(\text{CF}_2)_4\text{COOC}_2\text{H}_5$
 M.W. 346.2
 B.P. 101°C /9mmHg
 n²⁰ 1.3594
 CAS.Reg.No. 376-50-1
 M.P.
 d³⁰ 1.406

C > 10 Aliphatic Fluorine Compounds

10N017 (Perfluoro-*n*-octyl)ethane



M.W. 448.1

B.P. 77°C /50mmHg

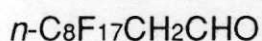
n^{20} 1.30以下

CAS.Reg.No.

M.P.

d^{20} 1.6543

10N019 2-(Perfluoro-*n*-octyl)acetaldehyde



M.W. 462.1

B.P. 79°C /20mmHg

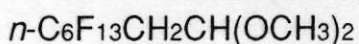
n

CAS.Reg.No.

M.P. 58~60°C

d

10N020 2-(Perfluoro-*n*-hexyl)acetaldehyde dimethyl acetal



M.W. 408.2

B.P. 71°C /14mmHg

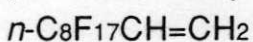
n^{20} 1.3224

CAS.Reg.No.

M.P.

d^{20} 1.5339

10E002 (Perfluoro-*n*-octyl)ethylene



M.W. 446.1

B.P. 67°C /40mmHg

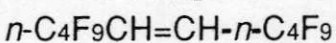
n^{20} 1.3004

CAS.Reg.No. 21652-58-4

M.P.

d^{20} 1.6724

10E010 *trans*-1,2-Bis(perfluoro-*n*-butyl)ethylene



M.W. 464.1

B.P. 64.3°C /56mmHg

n^{20} 1.30以下

CAS.Reg.No. 84551-43-9

M.P.

d^{20} 1.6750

C > 10 Aliphatic Fluorine Compounds

10E016 1,6-Divinylperfluoro-*n*-hexane
 $\text{CH}_2=\text{CH}(\text{CF}_2)_6\text{CH}=\text{CH}_2$
 M.W. 354.1
 B.P. 83.5°C /43mmHg
 n^{20} 1.3318
 CAS.Reg.No. 1800-91-5

M.P.
 d^{20} 1.5059

11N003 (1H,1H,2H,2H-Perfluoro-*n*-octyl)methyldimethoxysilane
 $n\text{-C}_6\text{F}_{13}\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_2\text{CH}_3$
 M.W. 452.3
 B.P. 80.0°C /9mmHg
 n^{20} 1.3357
 CAS.Reg.No. 85857-17-6

M.P.
 d^{20} 1.4340

11N006 (1H,1H,2H,2H-Perfluoro-*n*-octyl)trimethoxysilane
 $n\text{-C}_6\text{F}_{13}\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_3$
 M.W. 468.3
 B.P. 88°C /13mmHg
 n^{20} 1.3349
 CAS.Reg.No. 85857-16-5

M.P.
 d^{20} 1.4571

11N007 Ethyl perfluoro-*n*-nonanoate
 $n\text{-C}_8\text{F}_{17}\text{COOC}_2\text{H}_5$
 M.W. 492.1
 B.P. 75°C /14mmHg
 n^{20} 1.3106
 CAS.Reg.No. 30377-52-7

M.P.
 d^{20} 1.6576

11N008 3-(Perfluoro-*n*-octyl)propanoic acid
 $n\text{-C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{COOH}$
 M.W. 492.1
 B.P.
 n
 CAS.Reg.No. 34598-33-9

M.P. 95~96°C
 d

C > 10 Aliphatic Fluorine Compounds

11N014 (Perfluoro-*n*-decyl)methanol
 $n\text{-C}_{10}\text{F}_{21}\text{CH}_2\text{OH}$
M.W. 550.1
B.P. 100°C /2mmHg
n
CAS.Reg.No. M.P. 103~105°C
d

11E010 3-(Perfluoro-*n*-octyl)prop-2-enol
 $n\text{-C}_8\text{F}_{17}\text{CH}=\text{CHCH}_2\text{OH}$
M.W. 476.1
B.P. 100°C /10mmHg
n²⁰ 1.3309
CAS.Reg.No. M.P.
d²⁰ 1.7181

12N001 1-Iodo-2-(perfluoro-*n*-decyl)ethane
 $n\text{-C}_{10}\text{F}_{21}\text{CH}_2\text{CH}_2\text{I}$
M.W. 674.0
B.P.
n
CAS.Reg.No. 2043-54-1 M.P. 82~83°C
d

12N006 2-(Perfluoro-*n*-decyl)ethanol
 $n\text{-C}_{10}\text{F}_{21}\text{CH}_2\text{CH}_2\text{OH}$
M.W. 564.1
B.P.
n
CAS.Reg.No. 865-86-1 M.P. 90~92°C
d

12N009 (Perfluoro-*n*-decyl)ethane
 $n\text{-C}_{10}\text{F}_{21}\text{CH}_2\text{CH}_3$
M.W. 548.1
B.P. 90°C /20mmHg
n³⁰ 1.3003
CAS.Reg.No. M.P.
d³⁰ 1.7033

C > 10 Aliphatic Fluorine Compounds

12N013 1-Iodoperfluoro-*n*-dodecane
 $n\text{-C}_{12}\text{F}_{25}\text{I}$
 M.W. 746.0
 B.P. M.P. 96~97.3°C
 n d
 CAS.Reg.No.

12E002 (Perfluoro-*n*-decyl)ethylene
 $n\text{-C}_{10}\text{F}_{21}\text{CH}=\text{CH}_2$
 M.W. 546.1
 B.P. 100°C /43mmHg M.P.
 n^{20} 1.3051 d^{20} 1.7343
 CAS.Reg.No. 30389-25-4

12E005 Allyl Perfluoro-*n*-nonanoate
 $n\text{-C}_8\text{F}_{17}\text{COOCH}_2\text{CH}=\text{CH}_2$
 M.W. 504.1
 B.P. 81°C /10mmHg M.P.
 n^{20} 1.3219 d^{20} 1.6337
 CAS.Reg.No.

13N004 Ethyl Perfluoro-*n*-dodecanoate
 $n\text{-C}_{10}\text{F}_{21}\text{COOC}_2\text{H}_5$
 M.W. 592.1
 B.P. 96°C /9mmHg M.P.
 n^{30} 1.3100 d^{30} 1.6988
 CAS.Reg.No.

13E002 3-(Perfluoro-*n*-decyl)prop-2-enol
 $n\text{-C}_{10}\text{F}_{21}\text{CH}=\text{CHCH}_2\text{OH}$
 M.W. 576.2
 B.P. M.P. 62°C
 n d
 CAS.Reg.No.

C > 10 Aliphatic Fluorine Compounds

14N008 2-(Perfluoro-*n*-octyl)acetaldehyde diethyl acetal
 $n\text{-C}_8\text{F}_{17}\text{CH}_2\text{CH}(\text{OC}_2\text{H}_5)_2$
 M.W. 536.2
 B.P. 98.5°C /10mmHg M.P.
 n^{20} 1.3312 d^{20} 1.5175
 CAS.Reg.No.

14E001 2-(Perfluoro-*n*-octyl)ethyl methacrylate
 $n\text{-C}_8\text{F}_{17}\text{CH}_2\text{CH}_2\text{OCOC}(\text{CH}_3)=\text{CH}_2$
 M.W. 532.2
 B.P. 120°C /4mmHg M.P.
 n^{20} 1.3430 d^{20} 1.5896
 CAS.Reg.No. 1996-88-9

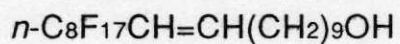
16N004 1-(Perfluoro-*n*-hexyl)decane
 $n\text{-C}_6\text{F}_{13}\text{C}_{10}\text{H}_{21}$
 M.W. 460.3
 B.P. 105~106°C /3mmHg M.P.
 n^{20} 1.3568 d^{20} 1.2913
 CAS.Reg.No.

17N001 11-(Perfluoro-*n*-hexyl)undecanol
 $n\text{-C}_6\text{F}_{13}(\text{CH}_2)_{11}\text{OH}$
 M.W. 490.3
 B.P. M.P. 52.5~53.5°C
 n d
 CAS.Reg.No.

17E003 11-(Perfluoro-*n*-hexyl)undec-10-enol
 $n\text{-C}_6\text{F}_{13}\text{CH}=\text{CH}(\text{CH}_2)_9\text{OH}$
 M.W. 488.3
 B.P. 130°C /3mmHg M.P.
 n^{20} 1.3797 d^{20} 1.3446
 CAS.Reg.No.

C > 10 Aliphatic Fluorine Compounds

19E002 11-(Perfluoro-*n*-octyl)undec-10-enol



M.W. 588.4

B.P. 157°C /3mmHg

*n*³⁰ 1.3697

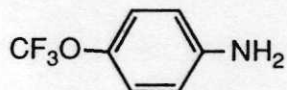
CAS.Reg.No.

M.P.

*d*³⁰ 1.4170

Aromatic Fluorine Compounds

P001 4-(Trifluoromethoxy)aniline



M.W. 177.1

B.P. 82°C /20mmHg

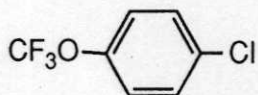
n^{20} 1.4629

CAS.Reg.No. 461-82-5

M.P.

d^{20} 1.3239

P002 1-Chloro-4-(trifluoromethoxy)benzene



M.W. 196.6

B.P. 142~145°C

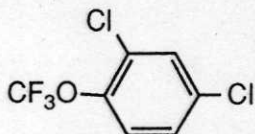
n^{20} 1.4364

CAS.Reg.No. 461-81-4

M.P.

d^{20} 1.3671

P003 1,3-Dichloro-4-(trifluoromethoxy)benzene



M.W. 231.0

B.P. 170~172°C

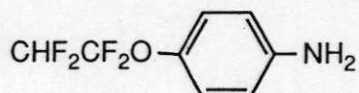
n^{20} 1.4637

CAS.Reg.No. 451-85-4

M.P.

d^{20} 1.4868

P004 4-(1',1',2',2'-Tetrafluoroethoxy)aniline



M.W. 209.1

B.P. 104~108°C /11mmHg

n^{20} 1.4624

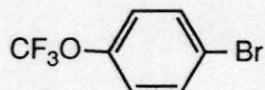
CAS.Reg.No. 713-62-6

M.P.

d^{20} 1.3793

Aromatic Fluorine Compounds

P005 1-Bromo-4-(trifluoromethoxy)benzene



M.W. 241.0

B.P. 153~155°C

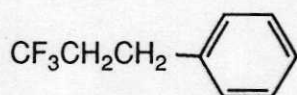
n^{20} 1.4608

CAS.Reg.No. 407-14-7

M.P.

d^{20} 1.6355

P006 3,3,3-Trifluoropropylbenzene



M.W. 174.2

B.P. 155~157°C

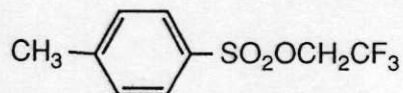
n^{20} 1.4368

CAS.Reg.No. 1579-80-2

M.P.

d^{20} 1.1305

P008 2,2,2-Trifluoroethyl tosylate



M.W. 254.2

B.P. 89~90°C /0.1mmHg

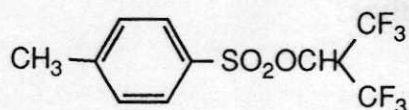
n

CAS.Reg.No. 433-06-7

M.P. 41°C

d

P009 Hexafluoroisopropyl tosylate



M.W. 322.2

B.P.

n

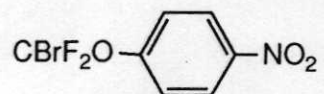
CAS.Reg.No. 67674-48-0

M.P. 39~40°C

d

Aromatic Fluorine Compounds

P020 4-(Bromodifluoromethoxy)nitrobenzene



M.W. 268.0

B.P. 91°C /3.5mmHg

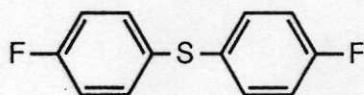
n^{20} 1.5229

CAS.Reg.No. 81932-04-9

M.P.

d^{20} 1.7206

P023 *p*-Fluorophenylsulfide



M.W. 222.3

B.P. 122°C /3mmHg

n

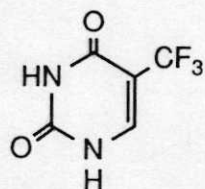
CAS.Reg.No.

M.P.

d

Heterocyclic Fluorine Compounds

H001 5-(Trifluoromethyl)uracil



B.P.

n

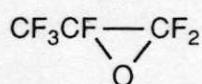
CAS.Reg.No. 54-20-6

M.W. 180.1

M.P. 241~245°C

d

H007 Hexafluoropropylene oxide



B.P. -27.4°C

n

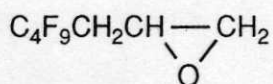
CAS.Reg.No. 428-59-1

M.W. 166.0

M.P.

d

H008 3-(Perfluoro-*n*-butyl)propylene oxide



B.P. 52°C/41mmHg

*n*²⁰ 1.3168

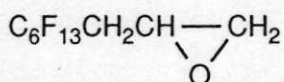
CAS.Reg.No. 81190-28-5

M.W. 276.1

M.P.

*d*²⁰ 1.5412

H009 3-(Perfluoro-*n*-hexyl)propylene oxide



B.P. 80°C/41mmHg

*n*²⁰ 1.3177

CAS.Reg.No. 38565-52-5

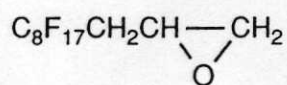
M.W. 376.1

M.P.

*d*²⁰ 1.6448

Heterocyclic Fluorine Compounds

H010 3-(Perfluoro-*n*-octyl)propylene oxide



B.P. 87°C /19mmHg

n^{20} 1.3196

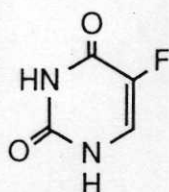
CAS.Reg.No. 38565-53-6

M.W. 476.1

M.P.

d^{20} 1.7144

H019 5-Fluorouracil



B.P.

n

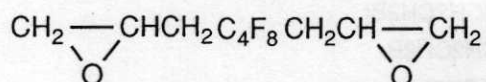
CAS.Reg.No. 51-21-8

M.W. 130.1

M.P. 283°C(dec.)

d

H022 1,4-Bis(2',3'-epoxypropyl)-perfluoro-*n*-butane



B.P. 90°C /1.5mmHg

n^{20} 1.3792

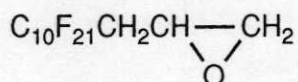
CAS.Reg.No.

M.W. 314.2

M.P.

d^{20} 1.5061

H023 3-(Perfluoro-*n*-decyl)propylene Oxide



B.P. 112°C /15mmHg

n

CAS.Reg.No.

M.W. 576.2

M.P. 61~62°C

d

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Halogenated hydrocarbons

Catalog No.	Compounds	Page
1 N005	CBr ₂ F ₂	1
1 N008	CHClF ₂	1
2 N001	CF ₃ CH ₃	2
2 N002	CF ₃ CH ₂ Cl	2
2 N007	CF ₂ BrCH ₂ Br	2
2 N010	CF ₃ CF ₂ Br	2
2 N016	CFHBrCH ₂ Br	3
2 N017	CF ₂ BrCFBrCl	3
2 N019	CF ₃ CF ₂ I	3
2 N021	CF ₂ BrCFHBr	3
2 N023	CF ₂ ICF ₂ I	3
2 N029	CFCI ₂ CFCl ₂	4
2 N032	CF ₃ CCl ₃	4
2 N033	CF ₃ CHCl ₂	4
3 N004	CF ₂ BrCH ₂ CH ₂ Br	6
3 N005	CF ₃ CB ₂ CH ₂ Br	6
3 N008	CF ₃ CH ₂ CH ₂ Br	6
3 N010	CF ₃ CHBrCH ₂ Br	6
3 N013	CF ₂ BrCHBrCH ₂ Br	6
3 N015	CF ₃ CFBrCF ₂ Br	7
4 N003	CF ₂ BrCF ₂ CH ₂ CH ₂ Br	9
4 N007	n-C ₄ F ₉ I	9
4 N009	I(CF ₂ CF ₂) ₂ I	9
4 N011	CF ₂ BrCFCICH ₂ CH ₂ Br	10
4 N022	CHF ₂ CF ₂ CH ₂ CH ₂ Br	10
6 N001	n-C ₄ F ₉ CH ₂ CH ₂ I	13
6 N004	n-C ₄ F ₉ CHBrCH ₂ Br	13
6 N008	n-C ₆ F ₁₃ I	13
6 N010	I(CF ₂ CF ₂) ₃ I	13
6 N012	n-C ₄ F ₉ CB ₂ CH ₂ Br	14
6 N018	n-C ₄ F ₉ CH ₂ CH ₂ Br	14
6 N028	n-C ₆ F ₁₃ H	15
6 N029	n-C ₆ F ₁₃ Br	15
8 N001	n-C ₆ F ₁₃ CH ₂ CH ₂ I	19
8 N006	n-C ₈ F ₁₇ I	19
8 N024	n-C ₈ F ₁₇ H	19
8 N025	n-C ₈ F ₁₇ Br	20
8 N026	ICH ₂ CH ₂ (CF ₂) ₄ CH ₂ CH ₂ I	20
8 N029	n-C ₆ F ₁₃ CH ₂ CH ₃	20
8 N032	I(CF ₂ CF ₂) ₄ I	20
10 N001	n-C ₈ F ₁₇ CH ₂ CH ₂ I	24
10 N005	n-C ₁₀ F ₂₁ I	24
10 N009	n-C ₄ F ₉ CHICH ₂ -n-C ₄ F ₉	24
10 N017	n-C ₈ F ₁₇ CH ₂ CH ₃	25

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Halogenated hydrocarbons(continued)

	Catalog No.	Compounds	Page
	12 N 001	n-C10F21CH2CH2I	27
	12 N 009	n-C10F21CH2CH3	27
	12 N 013	n-C12F25I	28
	16 N 004	n-C6F13C10H21	29

Olefins

	2 E 005	CF2=CH2	4
	2 E 006	CH2=CHF	5
	2 E 011	CF2=CHF	5
	2 E 012	CF2=CFCI	5
	2 E 022	CFCI=CFCI	5
	3 E 011	CF3CBr=CH2	7
	3 E 012	CF2BrCH=CH2	7
	3 E 014	CF3CH=CH2	8
	3 E 020	CF3CF=CF2	8
	3 E 021	CF3CCI=CCI2	8
	4 E 004	CF2BrCF2CH=CH2	10
	4 E 005	CF3C(COOH)=CH2	11
	4 E 012	CF2BrCFCICH=CH2	11
	4 E 013	CF2=CFCH=CH2	11
	4 E 021	CF2=CFCH2CH2Br	11
	6 E 003	n-C4F9CH=CH2	16
	6 E 005	n-C4F9CBr=CH2	16
	6 E 009	CH2=C(CH3)COOCH2CF3	16
	6 E 011	CF3C(CF3)=CFCF2CF3	16
	7 E 001	n-C4F9CH=CHCH2OH	18
	8 E 003	n-C6F13CH=CH2	20
	8 E 015	n-C4F9COOCH2CH=CH2	21
	8 E 023	CH2=CH(CF2)4CH=CH2	21
	9 E 001	n-C6F13CH=CHCH2OH	23
	10 E 002	n-C8F17CH=CH2	25
	10 E 010	n-C4F9CH=CH-n-C4F9	25
	10 E 016	CH2=CH(CF2)6CH=CH2	26
	11 E 010	n-C8F17CH=CHCH2OH	27
	12 E 002	n-C10F21CH=CH2	28
	12 E 005	n-C8F17COOCH2CH=CH2	28
	13 E 002	n-C10F21CH=CHCH2OH	28
	14 E 001	n-C8F17CH2CH2OCOC(CH3)=CH2	29
	17 E 003	n-C6F13CH=CH(CH2)9OH	29
	19 E 002	n-C8F17CH=CH(CH2)9OH	30

Alcohols

	2 N 004	CF3CH2OH	2
	3 N 016	(CF3)2CHOH	7
	4 N 010	HOCH2CH(CF3)COOH	9
	5 N 008	n-C4F9CH2OH	12

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Alcohols(continued)

	Catalog No.	Compounds	Page
	6 N002	n-C4F9CH2CH2OH	13
	6 N021	HOCH2(CF2)4CH2OH	14
	6 N025	CF3C(OCH3)2CH2CH2OH	15
	6 N026	CF3CH2COC(CH3)2OH	15
	7 N014	n-C6F13CH2OH	18
	7 E001	n-C4F9CH=CHCH2OH	18
	8 N002	n-C6F13CH2CH2OH	19
	8 N022	HOCH2CH2(CF2)4CH2CH2OH	19
	9 E001	n-C6F13CH=CHCH2OH	23
	9 N014	n-C8F17CH2OH	22
	10 N006	n-C8F17CH2CH2OH	24
	11 N014	n-C10F21CH2OH	27
	11 E010	n-C8F17CH=CHCH2OH	27
	12 N006	n-C10F21CH2CH2OH	27
	13 E002	n-C10F21CH=CHCH2OH	28
	17 N001	n-C6F13(CH2)11OH	29
	17 E003	n-C6F13CH=CH(CH2)9OH	29
	19 E002	n-C8F17CH=CH(CH2)9OH	30
Amines			
	2 N034	CF3CH2NH2	4
Ethers			
	3 N023	CH3OCF2CHCIF	7
	P 001	4-(Trifluoromethoxy)aniline	31
	P 002	1-Chloro-4-(trifluoromethoxy)benzene	31
	P 003	1,3-Chloro-4-(trifluoromethoxy)benzene	31
	P 004	4-(1',1',2',2'-Tetrafluoroethoxy)aniline	31
	P 005	1-Bromo-4-(trifluoromethoxy)benzene	32
	P 020	4-(Bromodifluoromethoxy)nitrobenzene	33
Epoxides			
	H007	Hexafluoropropylene oxide	34
	H008	3-(Perfluoro-n-butyl)propylene oxide	34
	H009	3-(Perfluoro-n-hexyl)propylene oxide	34
	H010	3-(Perfluoro-n-octyl)propylene oxide	35
	H022	1,4-Bis(2',3'-epoxypropyl)perfluoro-n-butane	35
	H023	3-(Perfluoro-n-decyl)propylene oxide	35
Carbonyl compounds			
	4 N002	CF3CH(CH3)CHO	9
	6 N022	CF3COCH2COOC2H5	14
	6 N025	CF3C(OCH3)2CH2CH2OH	15
	7 N008	CF3C(OCH3)2CH2COOCH3	17
	10 N019	n-C8F17CH2CHO	25
	10 N020	n-C6F13CH2CH(OCH3)2	25
	14 N008	n-C8F17CH2CH(OC2H5)2	29

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Carboxylic acids

Catalog No.	Compounds	Page
4 N010	HOCH ₂ CH(CF ₃)COOH	9
5 N002	n-C ₄ F ₉ COOH	12
6 N019	HOOC(CF ₂) ₄ COOH	14
7 N002	n-C ₆ F ₁₃ COOH	17
9 N002	n-C ₈ F ₁₇ COOH	22
11 N008	n-C ₈ F ₁₇ CH ₂ CH ₂ COOH	26

Carboxylic acid derivatives

6 N022	CF ₃ COCH ₂ COOC ₂ H ₅	14
6 N023	CF ₃ CHOHCH ₂ COOC ₂ H ₅	15
6 E009	CH ₂ =C(CH ₃)COOCH ₂ CF ₃	16
7 N008	CF ₃ C(OCH ₃) ₂ CH ₂ COOCH ₃	17
7 N009	CHF(COOC ₂ H ₅) ₂	17
7 N010	n-C ₄ F ₉ COOC ₂ H ₅	17
8 E015	n-C ₄ F ₉ COOCH ₂ CH=CH ₂	21
9 N011	n-C ₆ F ₁₃ COOC ₂ H ₅	22
9 N012	n-C ₈ F ₁₇ COCl	22
10 N014	C ₂ H ₅ OOC(CF ₂) ₄ COOC ₂ H ₅	24
11 N007	n-C ₈ F ₁₇ COOC ₂ H ₅	26
12 E005	n-C ₈ F ₁₇ COOCH ₂ CH=CH ₂	28
13 N004	n-C ₁₀ F ₂₁ COOC ₂ H ₅	28
14 E001	n-C ₈ F ₁₇ CH ₂ CH ₂ OCOC(CH ₃)=CH ₂	29

Silicone compounds

4 N014	CF ₃ CH ₂ CH ₂ SiCl ₂ CH ₃	10
4 N024	CF ₃ Si(CH ₃) ₃	10
7 N005	n-C ₄ F ₉ CH ₂ CH ₂ SiCl ₂ CH ₃	17
9 N008	n-C ₆ F ₁₃ CH ₂ CH ₂ SiCl ₂ CH ₃	22
11 N003	n-C ₆ F ₁₃ CH ₂ CH ₂ Si(OCH ₃) ₂ CH ₃	26
11 N006	n-C ₆ F ₁₃ CH ₂ CH ₂ Si(OCH ₃) ₃	26

Aromatic compounds

P 001	4-(Trifluoromethoxy)aniline	31
P 002	1-Chloro-4-(trifluoromethoxy)benzene	31
P 003	1,3-Chloro-4-(trifluoromethoxy)benzene	31
P 004	4-(1',1',2',2'-Tetrafluoroethoxy)aniline	31
P 005	1-Bromo-4-(trifluoromethoxy)benzene	32
P 006	3,3,3-Trifluoropropylbenzene	32
P 008	2,2,2-Trifluoroethyl tosylate	32
P 009	Hexafluoroisopropyl tosylate	32
P 020	4-(Bromodifluoromethoxy)nitrobenzene	33
P 023	p-Fluorophenylsulfide	33

Nucleic acid derivatives

H001	5-(Trifluoromethyl)uracil	34
H019	5-Fluorouracil	35