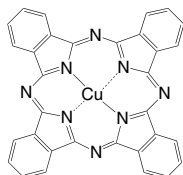


LT-E201 | CuPC

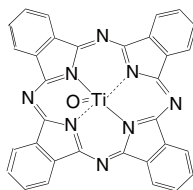
Copper(II) phthalocyanine

CAS No.	: 147-14-8
Grade	: Sublimed, > 99%
Formula	: $C_{32}H_{16}CuN_8$
M.W.	: 576.08 g/mole
UV	: 345, 631 nm (in CH_2Cl_2)
PL	: 404 nm (in film)
TGA	: > 430°C (0.5% weight loss)

**LT-E206** | TiOPC

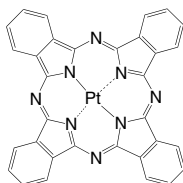
Titanium oxide phthalocyanine

CAS No.	: 26201-32-1
Grade	: Sublimed product
Formula	: $C_{32}H_{16}N_8OTi$
M.W.	: 576.39 g/mole
UV	: 349, 692 nm
PL	: 392 (in film)
TGA	: > 440°C (0.5% weight loss)

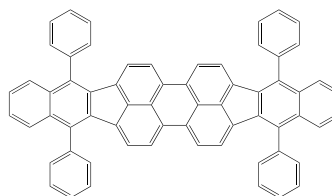
**LT-N219** | PtPC

Phthalocyanine, platinum complex

CAS No.	: 14075-08-2
Grade	: Sublimed, > 99% (TGA)
Formula	: $C_{32}H_{16}N_8Pt$
M.W.	: 707.6 g/mole
UV	: 228, 270 nm (in CH_2Cl_2)
PL	: 372.5 nm (in CH_2Cl_2)
TGA	: > 460 °C (0.5% weight loss)

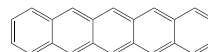
**LT-N4003** | DBPDibenzo[*h*,*f'*]-4,4',7,7'-tetraphenyl]diindeno[1,2,3-*cd*:1',2',3'-*lm*] perylene

CAS No.	: 175606-05-0
Grade	: Sublimed, > 99% (HPLC)
Formula	: $C_{64}H_{36}$
M.W.	: 804.97 g/mole
UV	: 333 nm (in THF)
PL	: 610 nm (in THF)
TGA	: > 350 °C (0.5% weight loss)

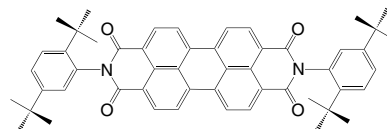
**LT-S901** | Pentacene

Pentacene

CAS No.	: 135-48-8
Grade	: Sublimed, > 99%
Formula	: $C_{22}H_{14}$
M.W.	: 278.35 g/mole
UV	: 300 nm (in CH_2Cl_2)
PL	: 509 nm (in CH_2Cl_2)
TGA	: > 240 °C (0.5% weight loss)

**LT-S902** | PDCDT*N,N'*-Bis(2,5-di-*tert*-butylphenyl)-3,4,9,10-perylene dicarboximide

CAS No.	: 83054-80-2
Grade	: Sublimed, > 99%
Formula	: $C_{52}H_{50}N_2O_4$
M.W.	: 766.96 g/mole
UV	: 524 nm (in CH_2Cl_2)
PL	: 544, 574 nm (in CH_2Cl_2)
TGA	: > 350 °C (0.5% weight loss)



LT-S903 | C₆₀Fullerene-C₆₀

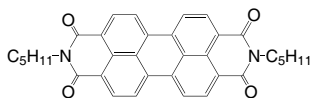
CAS No. : 99685-96-8
 Grade : > 99.5% (HPLC)
 Formula : C₆₀
 M.W. : 720.64 g/mole
 UV : 251 nm (in CH₂Cl₂)
 TGA : > 450 °C (0.5% weight loss)



LT-S904 | PenPTC

N,N'-Dipentyl-3,4,9,10-perylene dicarboximide

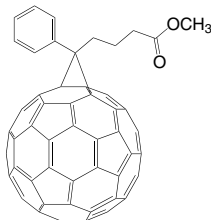
CAS No. : 76372-75-3
 Grade : Sublimed, > 99%
 Formula : C₃₄H₃₀N₂O₄
 M.W. : 530.61 g/mole
 UV : 523 nm (in CH₂Cl₂)
 PL : 535, 573 nm (in CH₂Cl₂)
 TGA : > 350 °C (0.5% weight loss)



LT-S905 | PCBM

(6,6)-Phenyl C₆₁ butyric acid methyl ester

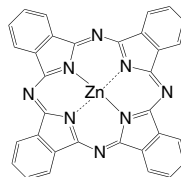
CAS No. : 160848-22-6
 Grade : > 99.5% (HPLC)
 Formula : C₇₂H₁₄O₂
 M.W. : 910.88 g/mole
 UV : 258, 328 nm (in THF)
 TGA : > 350 °C (0.5% weight loss)



LT-S906 | ZnPC

Zinc phthalocyanine

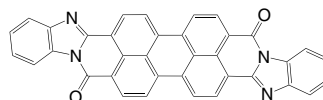
CAS No. : 14320-04-8
 Grade : Sublimed, > 99%
 Formula : C₃₂H₁₆N₈Zn
 M.W. : 577.92 g/mole
 PL : 534 nm (in CH₂Cl₂)



LT-S918 | PTCBI

Bisbenzimidazo[2,1-a:1',2'-b']anthra[2,1,9-def:6,5,10-d'e'f'] diisoguinoline-10,21-dione, with *cis* isomer

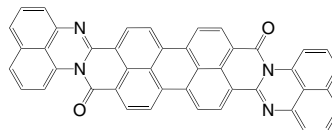
CAS No. : 79534-91-1
 Grade : Sublimed, > 99%
 Formula : C₃₆H₁₆N₄O₂
 M.W. : 536.54 g/mole
 PL : 414 nm (in CH₂Cl₂)
 TGA : > 420 °C (0.5% weight loss)



LT-S919 | ADIDI

Anthra[2'',1'',9'':4,5,6,6',5'',10'':4',5',6']diisiquino[2,1-a:2',1'-a'] dipirimidine-12,25-dione, with *cis* isomer

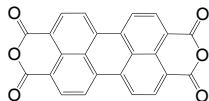
CAS No. : 6859-32-1
 Grade : Sublimed, > 99%
 Formula : C₄₄H₂₀N₄O₂
 M.W. : 636.66 g/mole
 PL : 413 nm (in CH₂Cl₂)
 TGA : > 430 °C (0.5% weight loss)



LT-S920 | PTCDA

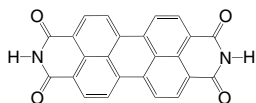
3,4,9,10-Perylenetetracarboxylic dianhydride

CAS No. : 128-69-8
 Grade : Sublimed, > 99%
 Formula : $C_{24}H_8O_6$
 M.W. : 392.32 g/mole
 PL : 413 nm (in CH_2Cl_2)
 TGA : > 450 °C (0.5% weight loss)

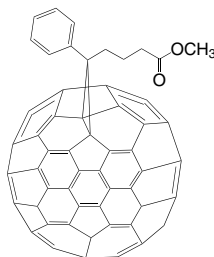
**LT-S921** | PTCDI

3,4,9,10-Perylenetetracarboxylic diimide

CAS No. : 81-33-4
 Grade : Sublimed, > 99%
 Formula : $C_{24}H_{10}N_2O_4$
 M.W. : 390.55 g/mole
 PL : 413 nm (in CH_2Cl_2)
 TGA : > 450 °C (0.5% weight loss)

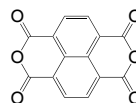
**LT-S923** | PC₇₁BM(6,6)-Phenyl C₇₁ butyric acid methyl ester, mixture of isomers

CAS No. : 609771-63-3
 Grade : > 99% (HPLC)
 Formula : $C_{82}H_{14}O_2$
 M.W. : 1030.93 g/mole
 UV : 372 nm (in Toluene)
 TGA : > 360 °C (0.5% weight loss)

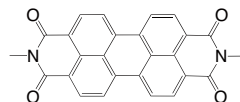
**LT-S924** | NTDA

1,4,5,8-Naphthalenetetracarboxylic dianhydride

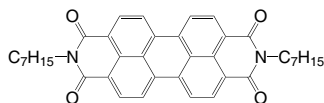
CAS No. : 81-30-1
 Grade : Sublimed, > 99%
 Formula : $C_{14}H_4O_6$
 M.W. : 268.18 g/mole
 UV : 366 nm (in CH_2Cl_2)
 PL : 394 nm (in CH_2Cl_2)
 TGA : > 270 °C (0.5% weight loss)

**LT-S925** | MePTC*N,N'*-Dimethyl-3,4,9,10-perylene dicarboximide

CAS No. : 5521-31-3
 Grade : Sublimed product
 Formula : $C_{26}H_{14}N_2O_4$
 M.W. : 419.40 g/mole
 UV : 522 nm (in CH_2Cl_2)
 PL : 571 nm (in CH_2Cl_2)
 TGA : > 440 °C (0.5% weight loss)

**LT-S926** | HepPTC*N,N'*-Diheptyl-3,4,9,10-perylene dicarboximide

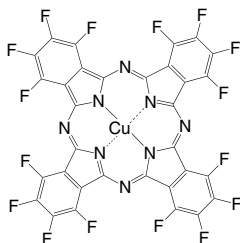
CAS No. : 95689-91-1
 Grade : Sublimed, > 99%
 Formula : $C_{38}H_{38}N_2O_4$
 M.W. : 586.72 g/mole
 UV : 524 nm (in CH_2Cl_2)
 PL : 537, 571 nm (in CH_2Cl_2)
 TGA : > 390 °C (0.5% weight loss)



LT-S928 | F₁₆CuPC

Copper(II) 1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecafluoro-29H,31H-phthalocyanine

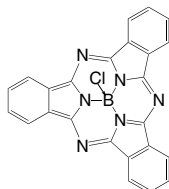
CAS No. : 14916-87-1
 Grade : Sublimed product
 Formula : C₃₂CuF₁₆N₈
 M.W. : 863.93 g/mole
 UV : 690 nm (in THF)
 TGA : > 400 °C (0.5% weight loss)



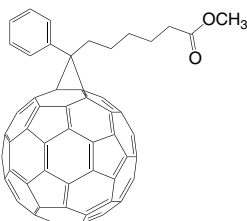
LT-S943 | SubPC

Boron subphthalocyanine chloride

CAS No. : 36530-06-0
 Grade : Sublimed, > 99%
 Formula : C₂₄H₁₂BN₆Cl
 M.W. : 430.66 g/mole
 UV : 565 nm (in DMF)
 PL : 577 nm (in DMF)

LT-S946 | PC₆₁HM(6,6)-Phenyl-C₆₁ methyl-hexanoate

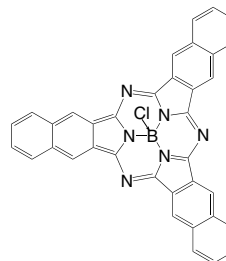
CAS No. : 1242279-48-6
 Grade : > 99% (HPLC)
 Formula : C₇₄H₁₈O₂
 M.W. : 938.81 g/mole
 UV : 328 nm (in CH₂Cl₂)
 TGA : > 350 °C (0.5% weight loss)



LT-S947 | SubNC

Boron sub-2,3-naphthalocyanine chloride

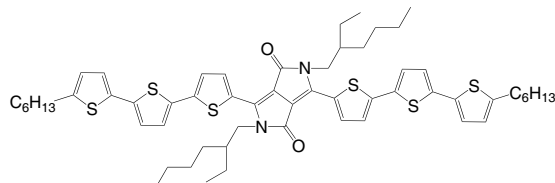
CAS No. : 142710-56-3
 Grade : Sublimed, > 99%
 Formula : C₃₆H₁₈BClN₆
 M.W. : 580.83 g/mole
 UV : 658 nm (in CH₂Cl₂)
 TGA : > 370 °C (0.5% weight loss)



LT-S952 | SMDPPEH

2,5-Di-(2-ethylhexyl)-3,6-bis-(5''-n-hexyl-[2,2',5',2'']terthiophen-5-yl)-pyrrolo[3,4-c]pyrrole-1,4-dione

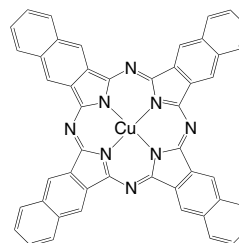
CAS No. : 1093468-95-1
 Grade : > 98% (NMR)
 Formula : C₅₈H₇₂N₂O₂S₆
 M.W. : 1021.59 g/mole
 UV : 644 nm (in CH₂Cl₂)
 TGA : > 370 °C (0.5% weight loss)



LT-S962 | CuNC

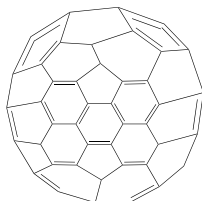
Copper(II) 2,3-naphthalocyanine

CAS No. : 33273-09-5
 Grade : Sublimed product
 Formula : C₄₈H₂₄CuN₈
 M.W. : 776.30 g/mole
 UV : 681 nm (in CH₂Cl₂)
 TGA : > 430 °C (0.5% weight loss)



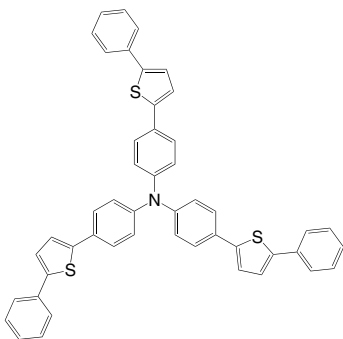
LT-S967 | **C₇₀**(5,6)-Fullerene-C₇₀

CAS No. : 115383-22-7
 Grade : > 99% (HPLC)
 Formula : C₇₀
 M.W. : 840.75 g/mole
 UV : 344, 382 nm (in CH₂Cl₂)
 TGA : > 450 °C (0.5% weight loss)

**LT-S984** | **TPTA**

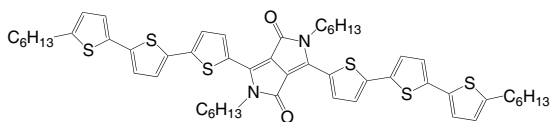
Tris(4-(5-phenylthiophen-2-yl)phenyl)amine

CAS No. : 803727-09-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₈H₃₃NS₃
 M.W. : 719.98 g/mole
 UV : 416 nm (in CH₂Cl₂)
 TGA : > 270 °C (0.5% weight loss)

**LT-S985** | **SMDPPH**

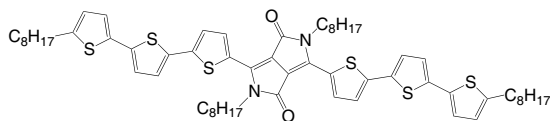
2,5-Dihexyl-3,6-bis-(5''-n-hexyl-[2,2',5',2'']terthiophen-5-yl)-pyrrolo[3,4-c]pyrrole-1,4-dione

CAS No. : 1077629-69-6
 Grade : > 98% (NMR)
 Formula : C₅₄H₆₄N₂O₂S₆
 M.W. : 965.49 g/mole
 UV : 644 nm (in CH₂Cl₂)
 TGA : > 310 °C (0.5% weight loss)

**LT-S986** | **SMDPPO**

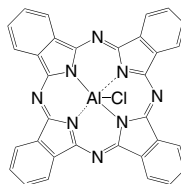
2,5-Dioctyl-3,6-bis-(5''-n-hexyl-[2,2',5',2'']terthiophen-5-yl)-pyrrolo[3,4-c]pyrrole-1,4-dione

CAS No. : 1435933-95-1
 Grade : > 98% (NMR)
 Formula : C₅₈H₇₂N₂O₂S₆
 M.W. : 1021.59 g/mole
 UV : 644 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)

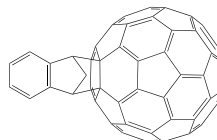
**LT-S9025** | **AIPCCI**

Aluminum phthalocyanine chloride

CAS No. : 14154-42-8
 Grade : Sublimed product
 Formula : C₃₂H₁₆AlClN₈
 M.W. : 574.97 g/mole
 UV : 675 nm (in DMF)

**LT-S9029** | **ICMA**C₆₀ derivative, indene-C₆₀ monoadduct

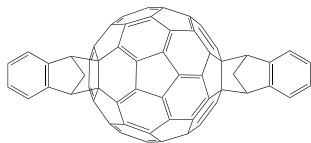
CAS No. : 172885-96-0
 Grade : > 99% (HPLC)
 Formula : C₆₉H₈
 M.W. : 836.82 g/mole
 UV : 318 nm (in CH₂Cl₂)
 TGA : > 200 °C (0.5% weight loss)



LT-S9030 ICBA

C₆₀ derivative, indene-C₆₀ bisadduct, mixture of isomers

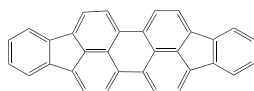
CAS No.	: 1207461-57-1
Grade	: > 99% (HPLC)
Formula	: C ₇₈ H ₁₆
M.W.	: 953.40 g/mole
UV	: 318 nm (in CH ₂ Cl ₂)
TGA	: > 200 °C (0.5% weight loss)



LT-S9036 DIP

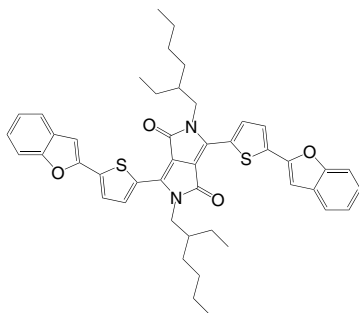
Diindeno[1,2,3-cd:1',2',3'-lm]perylene

CAS No.	: 188-94-3
Grade	: Sublimed product
Formula	: C ₃₂ H ₁₆
M.W.	: 400.47 g/mole
UV	: 494, 532 nm (in CH ₂ Cl ₂)
TGA	: > 230 °C (0.5% weight loss)

LT-S9040 DPP(TBFu)₂

3,6-Bis(5-(benzofuran-2-yl)thiophen-2-yl)-2,5-bis(2-ethylhexyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione

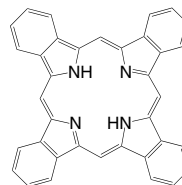
CAS No.	: 1241836-03-2
Grade	: > 99% (NMR)
Formula	: C ₄₆ H ₄₈ N ₂ O ₄ S ₂
M.W.	: 757.01 g/mole
UV	: 584, 629 nm (in CH ₂ Cl ₂)
TGA	: > 330 °C (0.5% weight loss)



LT-S9044 BP

Tetrabenzoporphine

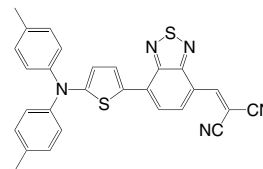
CAS No.	: 52952-31-5
Grade	: Sublimed product
Formula	: C ₃₆ H ₂₂ N ₄
M.W.	: 510.59 g/mole
TGA	: > 200 °C (0.5% weight loss)



LT-S9046 DTDCTB

2-((7-(5-(Di-p-tolylamino)thiophen-2-yl)benzo[c][1,2,5]thiadiazol-4-yl)methylene)malononitrile

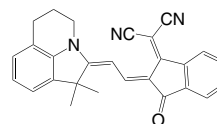
CAS No.	: 1335150-09-8
Grade	: > 99% (HPLC)
Formula	: C ₂₈ H ₁₉ N ₅ S ₂
M.W.	: 489.61 g/mole
UV	: 398, 622 nm (in CH ₂ Cl ₂)
TGA	: > 280 °C (0.5% weight loss)



LT-S9047 HB194

2-((Z)-2-((E)-2-(1,1-Dimethyl-5,6-dihydro-1H-pyrrolo[3,2,1-ij]quinolin-2(4H)-ylidene)ethylidene)-3-oxo-2,3-dihydro-1H-inden-1-ylidene)malononitrile

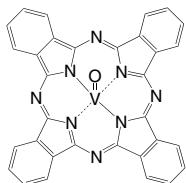
CAS No.	: 1207961-82-7
Grade	: > 99% (HPLC)
Formula	: C ₂₇ H ₂₁ N ₃ O
M.W.	: 403.48 g/mole
UV	: 481, 577 nm (in CH ₂ Cl ₂)
TGA	: > 280 °C (0.5% weight loss)



LT-S9053 | VOPC

Oxyvanadium phthalocyanine

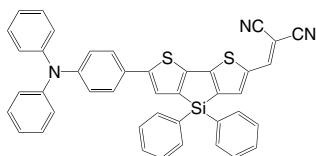
CAS No. : 13930-88-6
 Grade : Sublimed product
 Formula : $C_{32}H_{16}N_8O$
 M.W. : 579.47 g/mole
 UV : 338, 684 nm (in CH_2Cl_2)



LT-S9056 | TPDCDTS

2-(6-(4-(Diphenylamino)phenyl)-4,4'-diphenyl-dithieno[3,2-b:2',3'-d']silol-2-yl)-methylene-malononitrile

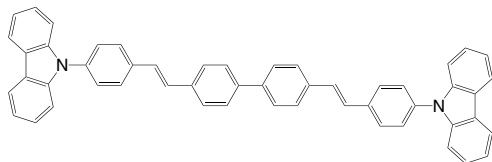
CAS No. : 1321562-79-1
 Grade : > 99% (HPLC)
 Formula : $C_{42}H_{27}N_3S_2Si$
 M.W. : 665.90 g/mole
 TGA : > 250 °C (0.5% weight loss)



LT-S9058 | BSB4

4,4'-Bis(4-(9H-carbazol-9-yl)styryl)biphenyl

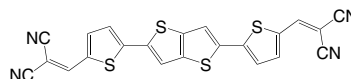
CAS No. : 850594-34-2
 Grade : Sublimed, > 99%
 Formula : $C_{52}H_{36}N_2$
 M.W. : 688.86 g/mole
 UV : 367 nm (in THF)
 PL : 424, 444 nm (in THF)
 TGA : > 320 °C (0.5% weight loss)



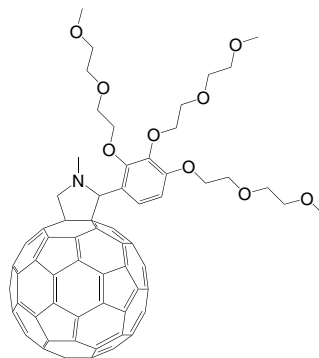
LT-S9061 | FT2TDMN

2,2'-(5,5'-(Thieno[3,2-b]thiophene-2,5-diyl)bis(thiophene-5,2-diyl))bis(methan-1-yl-1-ylidene)dimalononitrile

CAS No. : 1432613-96-1
 Grade : Sublimed, > 99%
 Formula : $C_{22}H_8N_4S_4$
 M.W. : 456.59 g/mole
 UV : 499 nm (in Toluene)
 TGA : > 350 °C (0.5% weight loss)

LT-S9071 | PrC₆₀MA*C*₆₀*N,N,N*-trimethyl-1-(2,3,4-tris(2-(2-methoxyethoxy)ethoxy)phenyl)methanaminium monoadduct

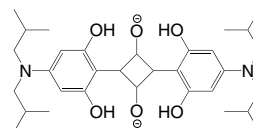
CAS No. : 1373957-22-2
 Grade : > 99% (HPLC)
 Formula : $C_{84}H_{41}NO_9$
 M.W. : 1208.26 g/mole
 TGA : > 300 °C (0.5% weight loss)



LT-S9074 | DIBSQ

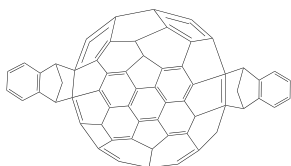
2,4-Bis(4-(diisobutylamino)-2,6-dihydroxyphenyl)cyclobutane-1,3-bis(olate)

CAS No. : 432493-75-9
 Grade : > 99% (HPLC)
 Formula : $C_{32}H_{48}N_2O_6$
 M.W. : 556.7 g/mole
 TGA : > 270 °C (0.5% weight loss)

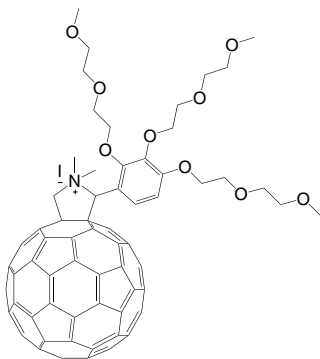


LT-S9078 | IC₇₀BAIndene-C₇₀ bisadduct, mixture of isomers

CAS No. : 1563175-93-8
 Grade : > 99% (HPLC)
 Formula : C₈₈H₁₆
 M.W. : 1073.04 g/mole
 UV : 290 nm (in CH₂Cl₂)
 TGA : > 180 °C (0.5% weight loss)

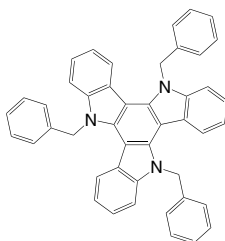
**LT-S9079** | PrC₆₀MA Iodide saltC₆₀/N,N,N-Trimethyl-1-(2,3,4-tris(2-(2-methoxyethoxy)ethoxy)phenyl)dimethanaminium monoadduct iodide salt

CAS No. : 1373957-23-3
 Grade : > 99% (HPLC)
 Formula : C₈₅H₄₄INO₉
 M.W. : 1386.23 g/mole

**LT-S9084** | TBDI

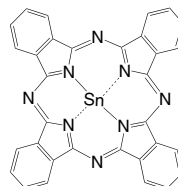
5,10,15-Tribenzyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole

CAS No. : 1092536-44-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₅H₃₃N₃
 M.W. : 615.76 g/mole
 TGA : > 270 °C (0.5% weight loss)

**LT-S9086** | SnPC

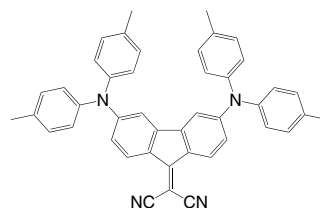
Tin(II) phthalocyanine

CAS No. : 15304-57-1
 Grade : Sublimed, > 99%
 Formula : C₃₂H₁₆N₈Sn
 M.W. : 631.23 g/mole
 UV : 693 nm (in CHCl₃)
 TGA : > 440 °C (0.5% weight loss)

**LT-S9089** | 3,6-DTNFMN

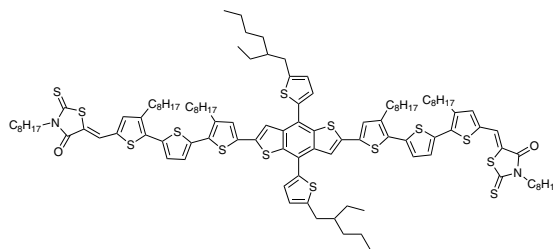
2-(3,6-Bis(di-p-tolylamino)-9H-fluorene-9-ylidene)malononitrile

CAS No. : 1527494-19-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₄H₃₄N₄
 M.W. : 618.77 g/mole
 UV : 291, 493 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)

**LT-S9123** | SMPV1

2,6-Bis[2,5-bis(3-octylrhodanine)-(3,3-dioctyl-2,2':5,2''-terthiophene)]-4,8-bis((5-ethylhexyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene

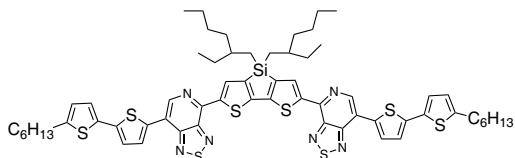
CAS No. : 1651168-29-4
 Grade : > 99% (NMR)
 Formula : C₁₁₄H₁₅₂N₂O₂S₁₄
 M.W. : 2031.35 g/mole
 UV : 360, 504 nm (in CH₂Cl₂)



LT-S9124 | DTS(PTTh2)2

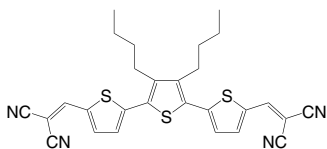
5,5'-Bis((4-(7-hexylthiophen-2-yl)thiophen-2-yl)-[1,2,5]thiadiazolo[3,4-c]pyridine)-3,3'-di-2-ethylhexylsilylene-2,2'-bithiophene

CAS No. : 1351374-94-1
 Grade : > 99% (NMR)
 Formula : $C_{62}H_{72}N_6S_8Si$
 M.W. : 1185.88 g/mole
 UV : 366, 645 nm (in CH_2Cl_2)

**LT-S9125** | DCV3T

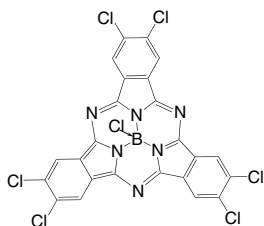
3',4'-Dibutyl-5,5''-bis(dicyanovinyl)-2,2':5',2''-terthiophene

CAS No. : 908588-68-1
 Grade : > 99% (HPLC)
 Formula : $C_{28}H_{24}N_4S_3$
 M.W. : 512.71 g/mole
 UV : 498 nm (in CH_2Cl_2)
 TGA : > 200 °C (0.5% weight loss)

**LT-S9149** | Cl_6 SubPC

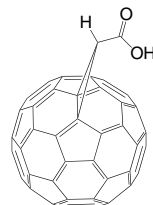
2,3,9,10,16,17-Hexachlorinated boron subphthalocyanine chloride

CAS No. : 309963-65-3
 Grade : Sublimed, > 99%
 Formula : $C_{24}H_6BCl_7N_6$
 M.W. : 637.33 g/mole
 UV : 578 nm (in CH_2Cl_2)
 TGA : > 300 °C (0.5% weight loss)

**LT-S9157** | C_{70} -COOH

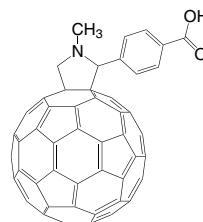
3'H-Cyclopropa[8,25][5,6]fullerene- C_{70} -3'-carboxylic acid

CAS No. : 180777-24-6
 Grade : > 99%
 Formula : $C_{72}H_2O_2$
 M.W. : 898.79 g/mole
 UV : 353, 370, 406 nm (in CH_2Cl_2)

**LT-S9161** | C_{60} -COOH-SAM

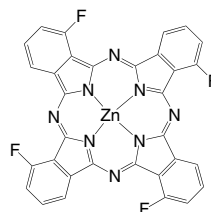
4-(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno- C_{60} -1h-[1,9-c]-pyrrol-2'-yl)benzoic acid

CAS No. : 631918-72-4
 Grade : > 99%
 Formula : $C_{70}H_{11}NO_2$
 M.W. : 897.84 g/mole
 UV : 345 nm (in CH_2Cl_2)

**LT-S9171** | F_4ZnPC

Zinc(II)-1,8,15,22-tetrafluoro-29H,31H-phthalocyanine, mixture of isomers

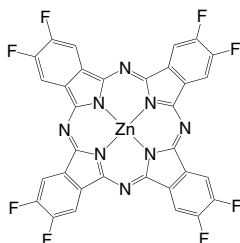
CAS No. : 1120355-28-3
 Grade : Sublimed, > 99%
 Formula : $C_{32}H_{12}F_4N_8Zn$
 M.W. : 649.89 g/mole
 UV : 681 nm (in $CHCl_3$)
 TGA : > 250 °C (0.5% weight loss)



LT-S9172 | F₈ZnPC

Zinc(II)-2,3,9,10,16,17,23,24-octafluoro-29*H*,31*H*-phthalocyanine

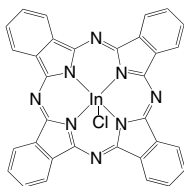
CAS No. : 676519-80-5
 Grade : Sublimed, > 99%
 Formula : C₃₂H₈F₈N₈Zn
 M.W. : 721.86 g/mole
 UV : 338, 656 nm (in DMF)
 TGA : > 300 °C (0.5% weight loss)



LT-S9176 | InClPC

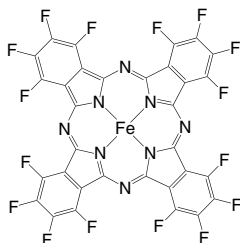
Indium(III) phthalocyanine chloride

CAS No. : 19631-19-7
 Grade : Sublimed, > 99%
 Formula : C₃₂H₁₆ClInN₈
 M.W. : 662.79 g/mole
 UV : 358, 683 nm (in CHCl₃)
 TGA : > 300 °C (0.5% weight loss)

LT-S9177 | F₁₆FePC

Iron(III) 1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecafluoro-29*H*,31*H*-phthalocyanine

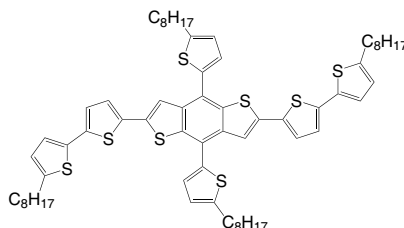
CAS No. : 23844-93-1
 Grade : Sublimed, > 99%
 Formula : C₃₂F₁₆FeN₈
 M.W. : 856.22 g/mole
 UV : 333, 627 nm (in Acetone)
 TGA : > 300 °C (0.5% weight loss)



LT-S9179 | BDT2TH

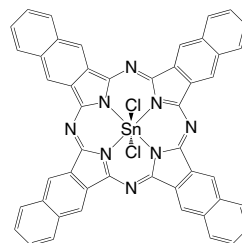
2,6-Bis[(5'-octyl[2,2'-bithiophene)][4,8-bis(5-octyl-2-thienyl)benzo[1,2-b:4,5-b']dithiophene]

Grade : > 99% (NMR)
 Formula : C₆₆H₈₂S₈
 M.W. : 1131.88 g/mole
 UV : 249, 359, 442 nm (in CHCl₃)

LT-S9180 | SnNCCl₂

Tin(IV) 2,3-naphthalocyanine dichloride

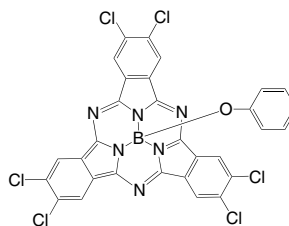
CAS No. : 26857-61-4
 Grade : Sublimed product
 Formula : C₄₈H₂₄Cl₂N₈Sn
 M.W. : 902.37 g/mole
 TGA : > 300 °C (0.5% weight loss)



LT-S9181 | PhO-BSubPC

[2,3,9,10,16,17-Hexachloro-7,12:14,19-diimino-21,5-nitrilo-5*H*-tribenzo[*c,h,m*][1,6,11]triazacyclopentadecinato(2-)-*N*22,*N*23,*N*24]phenoxy-Boron

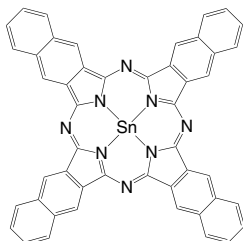
CAS No. : 1309390-01-9
 Grade : > 99% (HPLC)
 Formula : C₃₀H₁₁BCl₆N₆O
 M.W. : 694.98 g/mole
 UV : 267, 318, 569 nm (in CHCl₃)



LT-S9182 | SnNC

Tin(II) 2,3-naphthalocyanine

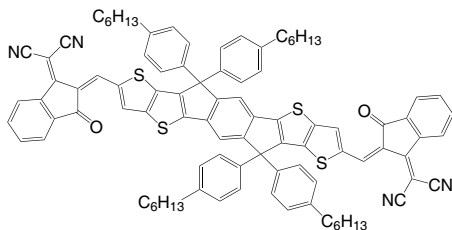
CAS No. : 110479-58-8
 Grade : Sublimed product
 Formula : $C_{48}H_{24}N_8Sn$
 M.W. : 831.47 g/mole
 TGA : > 300 °C (0.5% weight loss)



LT-S9212 | ITIC

3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithiophene[2,3-*d'*:2',3'-*d''*]-s-indaceno[1,2-*b*:5,6-*b'*]-dithiophene

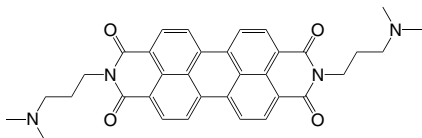
CAS No. : 1664293-06-4
 Grade : > 98% (HPLC)
 Formula : $C_{94}H_{82}N_4O_2S_4$
 M.W. : 1427.94 g/mole



LT-S9268 | PDIN

2,9-Bis(3-(dimethylamino)propyl)anthra[2,1,9-*def*:6,5,10-*d'e'f'*]diisoquinoline-1,3,8,10(2*H*,9*H*)-tetraone

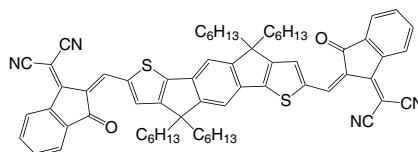
CAS No. : 117901-97-0
 Formula : $C_{34}H_{32}N_4O_4$
 M.W. : 560.64 g/mole



LT-S9279 | IDIC

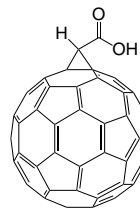
2,2'-[(4,4,9,9-Tetrahexyl-4,9-dihydro-s-indaceno[1,2-*b*:5,6-*b'*]-dithiophene-2,7-diyl)bis(methyldiylidene(3-oxo-1*H*-indene-2,1(3*H*)-diylidene))]bis-propanedinitrile

CAS No. : 1883441-92-6
 Grade : > 98% (HPLC)
 Formula : $C_{66}H_{66}N_4O_2S_2$
 M.W. : 1011.39 g/mole
 UV : 664 nm (in CH_2Cl_2)

LT-S9281 | C_{60} -COOH

3'*H*-Cyclopropa[1,9][5,6]fullerene- C_{60} -1*h*-3'-carboxylic acid

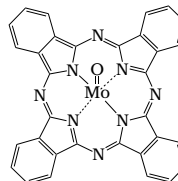
CAS No. : 155116-19-1
 Grade : > 99%
 Formula : $C_{62}H_2O_2$
 M.W. : 778.68 g/mole



LT-S9283 | MoOPC

Oxo-phthalocyaninato-molybdenum (IV)

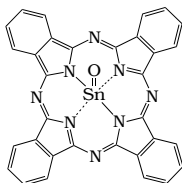
CAS No. : 15746-68-6
 Grade : Sublimed, > 99%
 Formula : $C_{32}H_{16}MoN_8O$
 M.W. : 624.46 g/mole



LT-S9284 | SnOPC

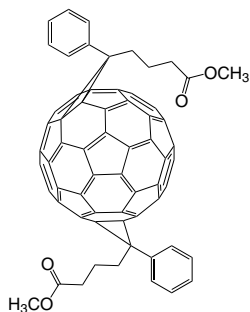
Oxo-phthalocyaninato-tin (IV)

CAS No. : 57156-41-9
 Grade : Sublimed, > 99%
 Formula : $C_{32}H_{16}N_8OSn$
 M.W. : 647.23 g/mole

LT-S9422 | Bis PC₆₂BM

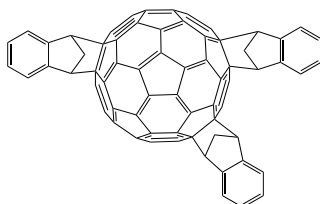
3'H,3''H-Dicyclopropa[1,9:16,17][5,6]-fullerene-C₆₀-Ih-3',3''-dibutanoic acid, 3',3''-diphenyl-3',3''-dimethyl ester, stereoisomer

CAS No. : 1258559-89-5
 Formula : $C_{84}H_{28}O_4$
 M.W. : 1101.12 g/mole

LT-S9423 | IC₆₀TA

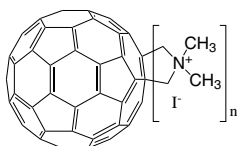
1',1'',1''',4',4'',4'''-Hexahydrotri[1,4]methanonaphtho[2',3':1,2;2'',3'':23,42;2''',3''':32,50][5,6]fullerene-C₆₀-Ih

CAS No. : 1363385-54-9
 Formula : $C_{87}H_{24}$
 M.W. : 1069.12 g/mole



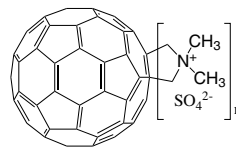
LT-S9424 |

Formula : $C_{60}(C_4H_{10}NI)_n$

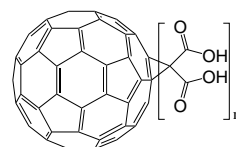


LT-S9425 |

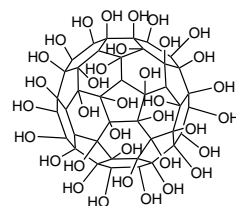
Formula : $C_{60}(C_4H_{10}NSO_4)_n$

LT-S9426 | C₆₀-(malonic acid)_n

Formula : $C_{60}(C_3H_2O_4)_n$

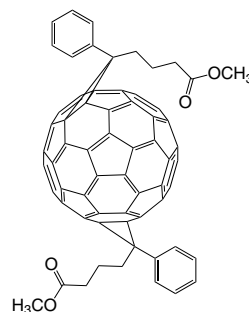
LT-S9427 | Fullerol C₆₀(OH)_n

Formula : $C_{60}(OH)_n$

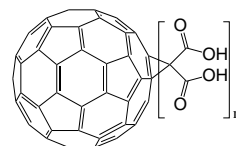
LT-S9428 | Bis-PC₇₂BM

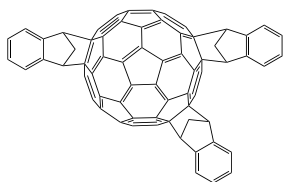
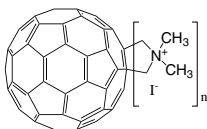
3'H,3''H-Dicyclopropa[8,25:53,54][5,6]-fullerene-C₇₀-D5h(6)-3',3''-dibutanoic acid,3',3''-diphenyl-,3',3''-dimethyl ester

CAS No. : 1244023-34-4
 Formula : $C_{94}H_{28}O_4$
 M.W. : 1221.23 g/mole

LT-S9429 | C₇₀-(malonic acid)_n

Formula : $C_{70}(C_3H_2O_4)_n$

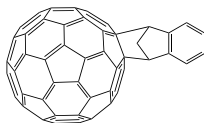
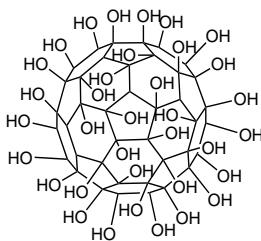


LT-S9431 | IC₇₀TAFormula : C₉₇H₂₄**LT-S9432** |Formula : C₇₀(C₄H₁₀NI)_n**LT-S9433** | IC₇₀MA1',4'-Dihydro-1,4-methanonaphtho[2',3':8,25]fullerene-C₇₀-D₅h(6)

CAS No. : 1287237-10-8

Formula : C₇₉H₈

M.W. : 956.91 g/mole

**LT-S9434** | Fullerol C₇₀(OH)_nFormula : C₇₀(OH)_n**LT-S9447** | IT-4F,ITIC-2F

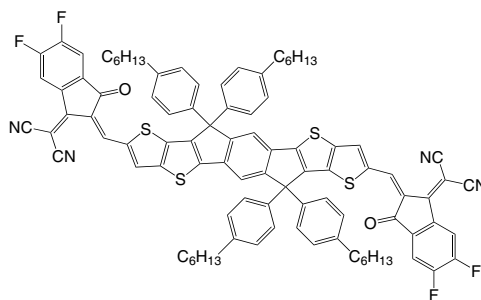
2,2'-[[[6,6,12,12-Tetrakis(4-hexylphenyl)-6,12-dihydrodithieno[2,3-d':3'-d'']-s-indaceno[1,2-b:5,6-b']dithiophene-2,8-diyl]]bis[methyldiylne(5,6-difluoro-3-oxo-1H-indene-2,1(3H)-diylidene)]]bis[propanedinitrile]

CAS No. : 2097998-59-7

Grade : > 98% (HPLC)

Formula : C₈₄H₇₈F₄N₄O₂S₄

M.W. : 1499.9 g/mole

**LT-S9466** | FBR

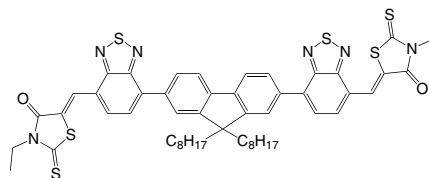
5,5'-[(9,9-Dioctyl-9H-fluorene-2,7-diyl)bis(2,1,3-benzothiadiazole-7,4-diylmethyldiylne)]bis[3-ethyl-2-thioxo-4-thiazolidinone]

CAS No. : 1644381-95-2

Grade : > 98%

Formula : C₅₃H₅₆N₆O₂S₆

M.W. : 1001.44 g/mole

**LT-S9468** | IDFBR

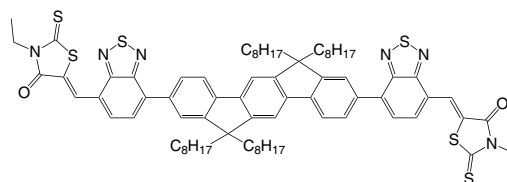
(5Z,5'Z)-5,5'-((7,7'-(6,6,12,12-Tetraoctyl-6,12-dihydroindeno[1,2-b]fluorene-2,8-diyl)bis(benzo[c][1,2,5]thiadiazole-7,4-diyl))bis(methanylylidene))bis(3-ethyl-2-thioxothiazolidin-4-one)

CAS No. : 2088628-64-0

Grade : > 98%

Formula : C₇₆H₉₂N₆O₂S₆

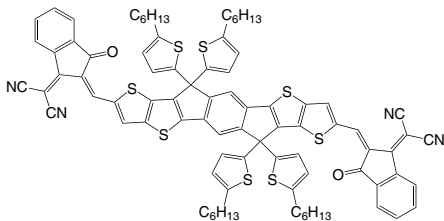
M.W. : 1313.97 g/mole



LT-S9471 ITIC-Th

3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-indanone))-5,5,11,11-tetrakis(5-hexylthienyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']-dithiophene

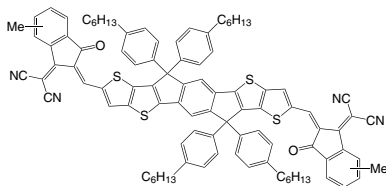
CAS No. : 1889344-13-1
Grade : > 98%
Formula : $C_{86}H_{74}N_4O_2S_8$
M.W. : 1452.05 g/mole



LT-S9473 ITIC-M

3,9-bis(2-methylene-((3-(1,1-dicyanomethylene)-6/7-methyl)-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

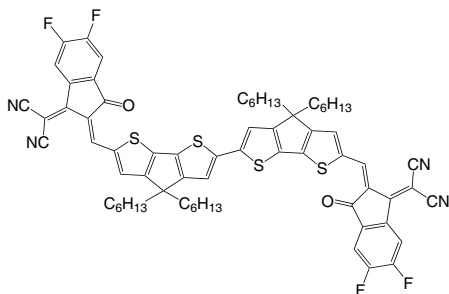
CAS No. : 2047352-80-5, 2047352-83-8,
2047352-86-1
Grade : > 98%
Formula : $C_{96}H_{86}N_4O_2S_4$
M.W. : 1455.99 g/mole



LT-S9475 CPDT-4F

2,2'-((2Z,2'Z)-((4,4,4',4'-Tetrahexyl-4H,4'H-[2,2'-bi(cyclopenta[1,2-b:5,4-b']dithiophene))-6,6'-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

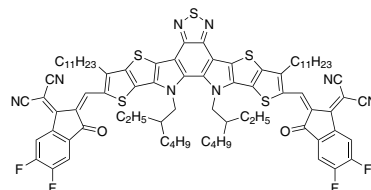
Grade : > 98% (HPLC)
Formula : $C_{68}H_{62}F_4N_4O_2S_4$
M.W. : 1171.50 g/mole



LT-S9476 Y6(BTPPT-4F)

2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-[1,2,5]thiadiazolo[3,4-e]thieno-[2'',3''':4',5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno-[2',3':4,5]thieno[3,2-b]indole-2,10-diyl))bis(methanylylidene))-bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

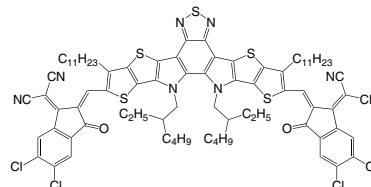
CAS No. : 2304444-49-1
Grade : > 99% (NMR)
Formula : $C_{82}H_{86}F_4N_8O_2S_5$
M.W. : 1451.93 g/mole
UV : 731, 821 nm (in $CHCl_3$)



LT-S9491 Y7, BTP-4Cl

2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-[1,2,5]thiadiazolo[3,4-e]thieno-[2'',3''':4',5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno-[2',3':4,5]thieno[3,2-b]indole-2,10-diyl))bis(methanylylidene))-bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

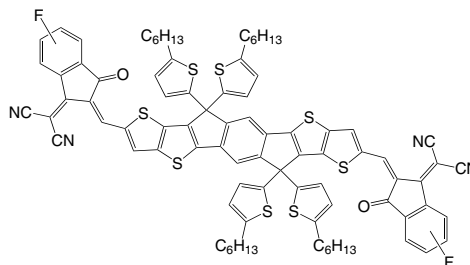
Grade : > 99% (NMR)
Formula : $C_{82}H_{86}Cl_4N_8O_2S_5$
M.W. : 1517.75 g/mole
UV : 746, 839 nm (in $CHCl_3$)



LT-S9492 ITIC-Th1

3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-6/7-fluoro)-indanone))-5,5,11,11-tetrakis(5-hexylthienyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

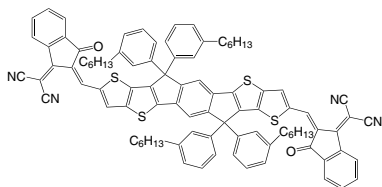
Grade : > 99% (NMR)
Formula : $C_{86}H_{72}F_2N_4O_2S_8$
M.W. : 1488.03 g/mole
UV : 677 nm (in CH_2Cl_2)



LT-S9493 | m-ITIC

3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-indanone))-5,5,11,11-tetrakis(3-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']-dithiophene

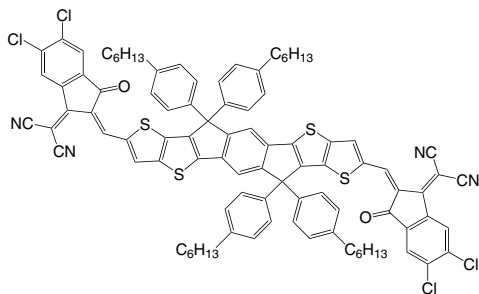
Grade : > 99% (NMR)
Formula : $C_{94}H_{82}N_4O_2S_4$
M.W. : 1427.94 g/mole



LT-S9494 | IT-4Cl,ITIC-2Cl

3,9-Bis(2-methylene-((3-(1,1-dicyanomethylene)-6,7-dichloro)-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

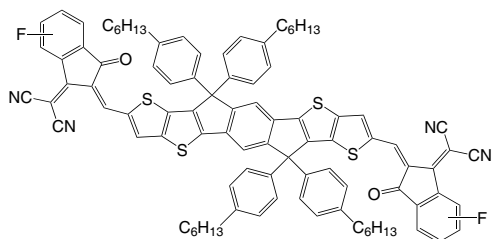
CAS No. : 2253663-81-7
Grade : > 99% (NMR)
Formula : $C_{94}H_{78}Cl_4N_4O_2S_4$
M.W. : 1565.72 g/mole



LT-S9495 | IT-2F

3,9-Bis(2-methylene-((3-(1,1-dicyanomethylene)-6/7-fluoro)-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

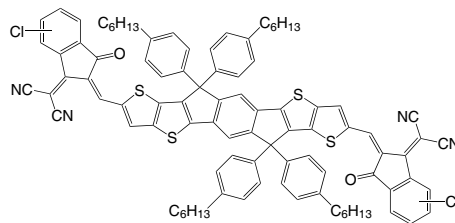
Grade : > 99% (NMR)
Formula : $C_{96}H_{88}F_2N_4O_2S_4$
M.W. : 1496.01 g/mole
UV : 685, 721 nm (in $CHCl_3$)



LT-S9496 | IT-2Cl

3,9-Bis(2-methylene-((3-(1,1-dicyanomethylene)-6/7-chloro)-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

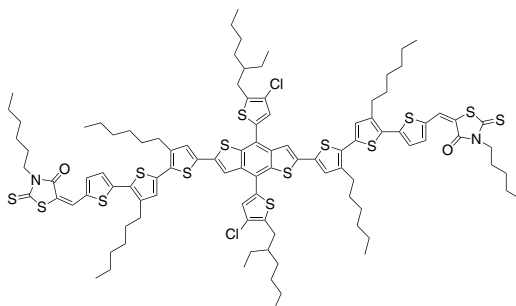
Grade : > 99% (NMR)
Formula : $C_{96}H_{88}Cl_2N_4O_2S_4$
M.W. : 1528.92 g/mole
UV : 690, 735 nm (in $CHCl_3$)



LT-S9498 | BTR-Cl

5,5'-[[4,8-Bis[5-(2-chloro)-4-hexyl-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]bis[(3,3''-dihexyl[2,2':5',2''-terthiophene]-5'',5-diyl)methylidyne]]bis[3-hexyl-2-thioxo-4-thiazolidinone]

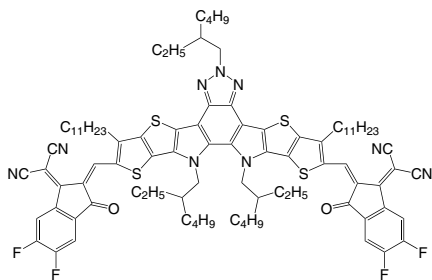
Grade : > 99% (NMR)
Formula : $C_{102}H_{126}Cl_2N_2O_2S_{14}$
M.W. : 1931.92 g/mole
UV : 520 nm (in $CHCl_3$)



LT-S9505 | Y11

2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-2-(2-ethylhexyl)-[1,2,3]triazole[3,4-e]thieno[2'',3'':4',5']thieno-[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno-[3,2-b]indole-2,10-diyl)bis(methanylylidene))bis-(5,6-difloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

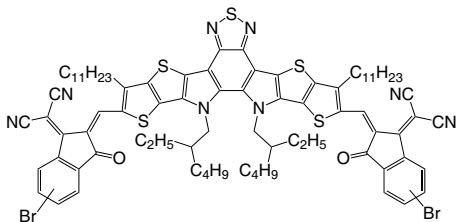
Grade : > 99% (NMR)
Formula : $C_{90}H_{103}F_4N_9O_2S_4$
M.W. : 1547.09 g/mole
UV : 850 nm (film)



LT-S9508 | TPT10

2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-[1,2,5]-thiadiazolo[3,4-e]thieno[2'',3'':4',5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno-[2',3':4,5]thieno[3,2-b]indole-2,10-diyl)bis(methanylylidene))bis(5/6-bromo-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

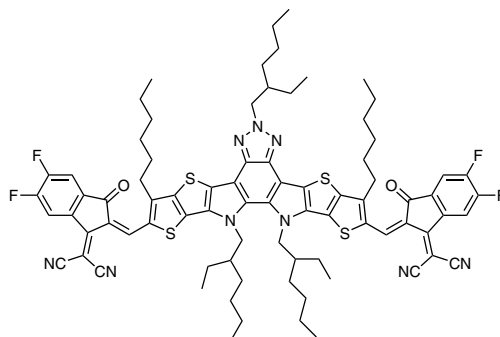
Grade : > 99% (NMR)
Formula : $C_{82}H_{88}Br_2N_8O_2S_5$
M.W. : 1547.09 g/mole
UV : 817 nm (film)



LT-S9544 | Y18

2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-2-(2-ethylhexyl)-[1,2,3]triazole[3,4-e]thieno[2'',3'':4',5']thieno-[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno-[3,2-b]indole-2,10-diyl)-bis(methanylylidene))bis-(5,6-difloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

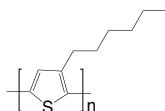
Grade : > 99% (NMR)
Formula : $C_{80}H_{83}F_4N_9O_2S_4$
M.W. : 1406.83 g/mole
HOMO : -5.58 eV
LUMO : -3.91 eV



LT-S909 | P3HT

Poly(3-hexylthiophene-2,5-diyl)

CAS No. : 104934-50-1
 Grade : Mw > 45,000 (GPC)
 Electronic Grade : Regio Regular > 93%
 Formula : $(C_{10}H_{14}S)_n$
 UV : 445 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene

**LT-S911 | PT**

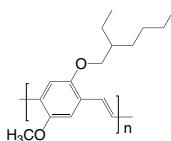
Poly(thiophene-2,5-diyl)

CAS No. : 25233-34-5
 Formula : $(C_4H_2S)_n$
 UV : 427 nm (in CH_2Cl_2)
 PL : 510 nm (in CH_2Cl_2)

**LT-S931 | MEH-PPV**

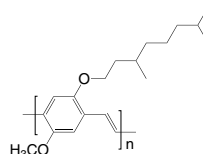
Poly[2-methoxy-5-(2-ethylhexyloxy)-1,4-phenylenevinylene]

CAS No. : 138184-36-8
 Grade : Mw > 100,000 (GPC)
 Formula : $(C_{17}H_{24}O_2)_n$
 UV : 501 nm (in CH_2Cl_2)
 PL : 502 nm (in CH_2Cl_2)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene

**LT-S932 | DDMO-PPV**

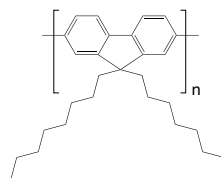
Poly[2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylenevinylene]

CAS No. : 177716-59-5
 Grade : Mw > 100,000 (GPC)
 Formula : $(C_{19}H_{28}O_2)_n$
 UV : 485 nm (in CH_2Cl_2)
 PL : 555 nm (in CH_2Cl_2)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene

**LT-S933 | PFO**

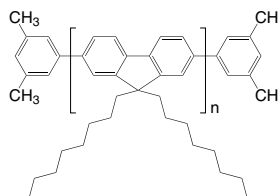
Poly(9,9-dioctylfluorenyl-2,7-diyl)

CAS No. : 123864-00-6
 Grade : Mw = 50,000 ~ 150,000 (GPC)
 Formula : $(C_{29}H_{40})_n$
 UV : 376 nm (in THF)
 PL : 426 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene

**LT-S934 | PFO-DMP**

Poly(9,9-dioctylfluorenyl-2,7-diyl) end capped with dimethylphenyl

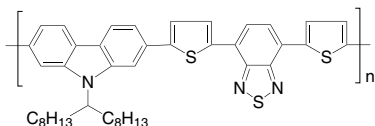
CAS No. : 874816-14-5
 Grade : Mw = 50,000 ~ 150,000 (GPC)
 Formula : $C_{16}H_{18}(C_{29}H_{40})_n$
 UV : 368 nm (in THF)
 PL : 421 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S948 | PCDTBT

Poly[N-9'-heptadecan-yl-2,7-carbazole-*alt*-5,5'-(4',7'-di-2-thienyl-2',1',3'-benzothiadiazole)]

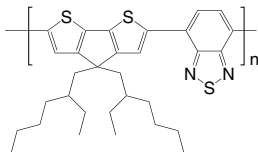
CAS No. : 958261-50-2
 Grade : Mw = 20,000 ~ 100,000 (GPC)
 Formula : $(C_{43}H_{47}N_3S_3)_n$
 UV : 390, 554 nm (in THF)
 PL : 639 nm (in THF)
 Solubility : > 5 mg/mL in $CHCl_3$



LT-S949 | PCPDTBT

Poly[2,6-(4,4-bis-(2-ethylhexyl)-4H-cyclopenta[2,1-*b*:3,4-*b'*]-dithiophene)-*alt*-4,7-(2,1,3-benzothiadiazole)]

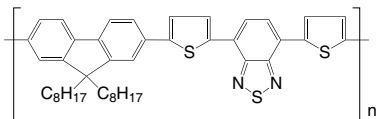
CAS No. : 920515-34-0
 Grade : Mw = 7,000 ~ 20,000 (GPC)
 Formula : $(C_{31}H_{38}N_2S_3)_n$
 UV : 695 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S950 | PFOBT

Poly[2,7-(9,9-di-octyl-fluorene)-*alt*-4,7-bis(thiophen-2-yl)benzo-2,1,3-thiadiazole]

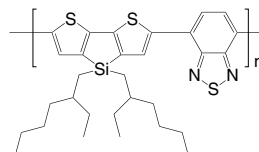
CAS No. : 782469-77-6
 Grade : Mw = 10,000 ~ 50,000 (GPC)
 Formula : $(C_{43}H_{46}N_2S_3)_n$
 UV : 523 nm (in CH_2Cl_2)
 PL : 630 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S951 | PSBTBT

Poly[2,6-(4,4'-bis(2-ethylhexyl)dithieno[3,2-*b*:2',3'-*d'*]silole)-*alt*-4,7-(2,1,3-benzothiadiazole)]

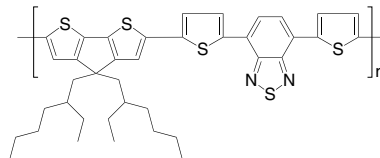
CAS No. : 1089687-02-4
 Grade : Mw = 10,000 ~ 30,000 (GPC)
 Formula : $(C_{30}H_{38}N_2S_3Si)_n$
 UV : 523 nm (in CH_2Cl_2)
 PL : 630 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S953 | PCPDTTBT

Poly[2,6-(4,4-bis(2-ethylhexyl)-4H-cyclopenta[2,1-*b*:3,4-*b'*]dithiophene)-*alt*-4,7-bis(thiophen-2-yl)benzo-2,1,3-thiadiazole]

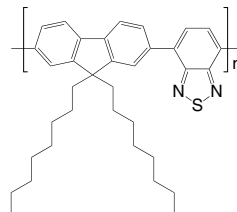
CAS No. : 1035681-83-4
 Grade : Mw = 8,000 ~ 20,000 (GPC)
 Formula : $(C_{39}H_{42}N_2S_5)_n$
 UV : 523 nm (in CH_2Cl_2)
 PL : 749 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S957 | F8BT

Poly[(9,9-dioctylfluorenyl-2,7-diyl)-*alt*-(benzo[2,1,3]thiadiazol-4,7-diyl)]

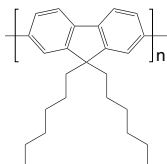
CAS No. : 210347-52-7
 Grade : Mw > 20,000 (GPC)
 Formula : $(C_{35}H_{42}N_2S)_n$
 UV : 453 nm (in THF)
 PL : 534 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S958 | PHF

Poly[9,9-dihexylfluorenyl-2,7-diyl]

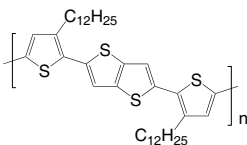
CAS No. : 201807-75-2
 Grade : Mw = 30,000~100,000 (GPC)
 Formula : $(C_{25}H_{32})_n$
 UV : 389 nm (in THF)
 PL : 418 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S981 | PBTTC-12

Poly[2,5-bis(3-dodecylthiophen-2-yl)thieno[3,2-b]thiophene]

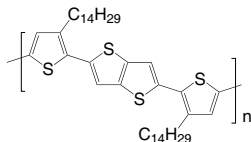
CAS No. : 888491-18-7
 Grade : Mw = 10,000~100,000 (GPC)
 Formula : $(C_{38}H_{54}S_4)_n$
 UV : 460 nm (in THF)
 PL : 557 nm (in THF)
 Solubility : > 5 mg/mL in $CHCl_3$



LT-S982 | PBTTC-14

Poly[2,5-bis(3-tetradecylthiophen-2-yl)thieno[3,2-b]thiophene]

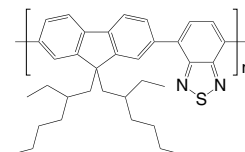
CAS No. : 888491-19-8
 Grade : Mw > 40,000 (GPC)
 Formula : $(C_{38}H_{54}S_4)_n$
 UV : 466 nm (in THF)
 PL : 557 nm (in THF)
 Solubility : > 5 mg/mL in $CHCl_3$



LT-S9003 | F2EHBT

Poly[(9,9-bis(2-ethylhexyl)fluorenyl-2,7-diyl)-*alt*-(benzo[2,1,3]thiadiazol-4,7-diyl)]

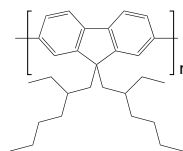
CAS No. : 1379051-13-4
 Grade : Mw = 20,000~100,000 (GPC)
 Formula : $(C_{35}H_{42}N_2S)_n$
 UV : 453 nm (in THF)
 PL : 645 nm (in THF)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9004 | PF2EH

Poly[9,9-bis(2-ethylhexyl)fluorenyl-2,7-diyl]

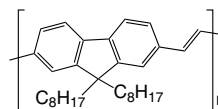
CAS No. : 188201-16-3
 Grade : Mw > 20,000 (GPC)
 Formula : $(C_{29}H_{40})_n$
 UV : 389 nm (in THF)
 PL : 418 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9006 |

Poly[(9,9-dioctyl-9H-fluorene-2,7-diyl)-(1E)-1,2-ethene-diyl]

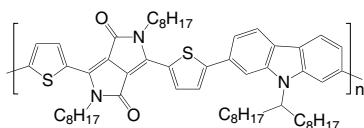
CAS No. : 360068-36-6
 Grade : Mw > 20,000 (GPC)
 Formula : $(C_{31}H_{42})_n$
 UV : 455 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9032 | PCBTDP

Poly[*N*-9'-heptadecanyl-2,7-carbazole-*alt*-3,6-bis(thiophen-5-yl)-2,5-dioctyl-2,5-dihydropyrrolo[3,4-*c*]pyrrole-1,4-dione]

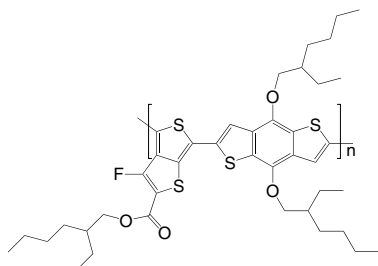
CAS No. : 1147374-60-4
 Grade : Mw > 10,000 (GPC)
 Formula : (C₅₉H₈₁N₃O₂S₂)_n
 UV : 647 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9050 | PTB7

Poly[4,8-bis[(2-ethylhexyl)oxy]benzo[1,2-*b*:4,5-*b'*]dithiophene-2,6-diyl-*alt*-3-fluoro-2-[(2-ethylhexyl)carbonyl]thieno[3,4-*b'*]thiophene-4,6-diyl]

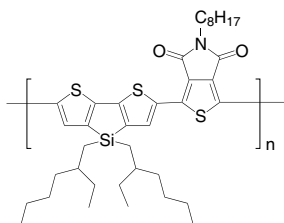
CAS No. : 1266549-31-8
 Grade : Mw > 20,000 (GPC)
 Formula : (C₄₁H₅₃FO₄S₄)_n
 UV : 670 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9066 | PDTSTPD

Poly[2,6-(4,4'-bis(ethylhexyl)dithiopheno[3,2-*b*:2',3'-*d'*]silole)-*alt*-(1,3-(5-octyl-4*H*-thieno[3,4-*c*]pyrrole-4,6(5*H*)-dione))]

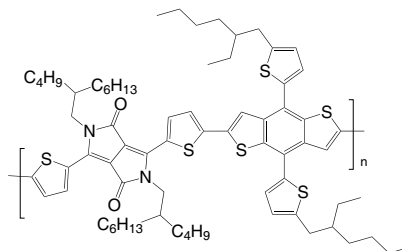
CAS No. : 1279109-93-1
 Grade : Mw = 7,000 ~ 30,000 (GPC)
 Formula : (C₃₈H₅₃NO₂S₃Si)_n
 UV : 614, 670 nm (film)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9081 | PBDT-DPP

Poly[2,6'-4,8-di(5-ethylhexylthienyl)benzo[1,2-*b*:3,4-*b'*]dithiophene-*alt*-5-dibutyloctyl-3,6-bis(5-bromothiophen-2-yl)-pyrrolo[3,4-*c*]pyrrole-1,4-dione]

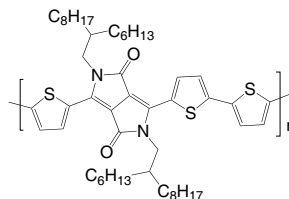
CAS No. : 1380582-98-8
 Grade : Mw > 50,000 (GPC)
 Formula : (C₇₂H₉₄N₂O₂S₆)_n
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9109 | PDPP3T

Poly[2,2'-[(2,5-bis(2-hexyloctyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-*c*]pyrrole-1,4-diyl)dithiophene]-5,5'-diyl-*alt*-thiophene-2,5-diyl]

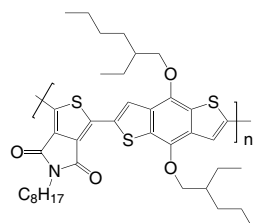
CAS No. : 1198291-01-8
 Grade : Mw > 30,000 (GPC)
 Formula : (C₅₀H₇₂N₂O₂S₃)_n
 UV : 830 nm (in CHCl₃)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9111 | PBDTTPD

Poly[4,8-bis[(2-ethylhexyl)oxy]benzo[1,2-*b*:4,5-*b'*]dithiophene-2,6-diyl-*alt*-(1,3-(5-octyl-4*H*-thieno[3,4-*c*]pyrrole-4,6(5*H*)-dione))]

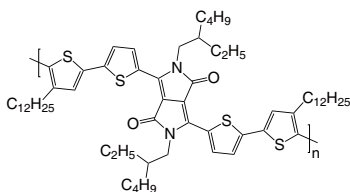
CAS No. : 1223479-75-1
 Grade : Mw > 30,000 (GPC)
 Formula : (C₄₀H₅₃NO₄S₃)_n
 UV : 610 nm (in CHCl₃)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9112 | pBBDTPD2

Poly[3,6-bis(4'-dodecyl[2,2'-bithiophen]-5-yl)-2,5-bis(2-ethylhexyl)-2,5-dihydropyrrolo[3,4-c]-pyrrole-1,4-dione]

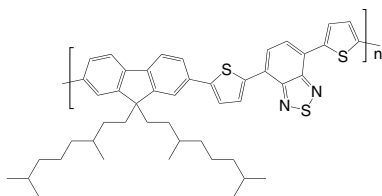
CAS No. : 1002094-22-5
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{62}H_{90}N_2O_2S_4)_n$
 UV : 650 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9113 | BisDMO-PFDTBT

Poly[2,7-(9,9-bis(3,7-dimethyloctyl)fluorene)-alt-[5,5-(4,7-di-2'-thienyl-2,1,3-benzothiadiazole)]]

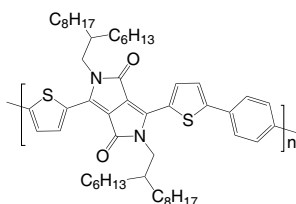
CAS No. : 1204005-82-2
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{47}H_{54}N_2S_3)_n$
 UV : 560 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9114 | PDPPTPT

Poly[2,2'-[(2,5-bis(2-hexyldodecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)]dithiophene-5,5'-diyl-alt-benzen-1,4-diyl]

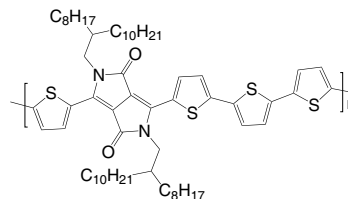
CAS No. : 1255939-39-9
 Grade : Mw > 20,000 (GPC)
 Formula : $(C_{52}H_{74}N_2O_2S_2)_n$
 UV : 628 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9117 | PDQT

Poly[2,2'-[(2,5-bis(2-octyldodecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)]dithiophene-5,5'-diyl-alt-2,2'-bithiophene-5,5'-diyl]

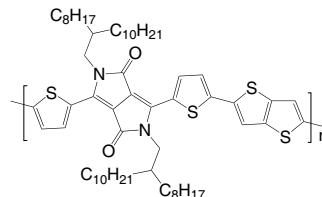
CAS No. : 1267540-03-3
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{62}H_{90}N_2O_2S_4)_n$
 UV : 810 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9118 | PDBT-co-TT

Poly[2,2'-[(2,5-bis(2-octyldodecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)]dithiophene-5,5'-diyl-alt-thieno[3,2-b]thiophen-2,5-diyl]

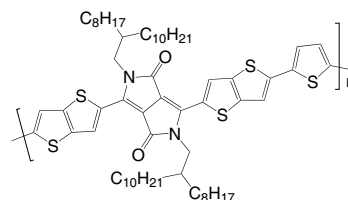
CAS No. : 1260685-65-1
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{60}H_{88}N_2O_2S_4)_n$
 UV : 810 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9119 | PDPPBTT

Poly[2,2'-[(2,5-bis(2-octyldodecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)]dithiophene-5,5'-diyl-alt-thiophen-2,5-diyl]

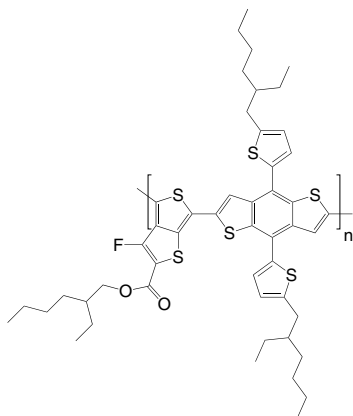
CAS No. : 1270977-98-4
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{62}H_{88}N_2O_2S_3)_n$
 UV : 812 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9139 | PTB7-Th

Poly[4,8-bis[5-(2-ethylhexyl)thiophen-2-yl]benzo[1,2-b:4,5-b']-dithiophene-2,6-diyl-*alt*-3-fluoro-2-[(2-ethylhexyl)carbonyl]-thieno[3,4-*b*]thiophene-4,6-diyl]

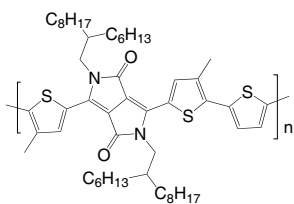
CAS No. : 1469791-66-9
 Grade : Mw = 10,000~100,000 (GPC)
 Formula : (C₄₉H₅₇FO₂S₆)_n
 UV : 695 nm (in CHCl₃)
 Solubility : > 5 mg/mL in CHCl₃



LT-S9178 | PMDPP3T

Poly[[2,5-bis(2-hexyldecyl)-2,3,5,6-tetrahydro-3,6-dioxopyrrolo[3,4-*c*]pyrrole-1,4-diyl]-*alt*-[3',3''-dimethyl-2,2':5',2''-terthiophene]-5,5''-diyl]

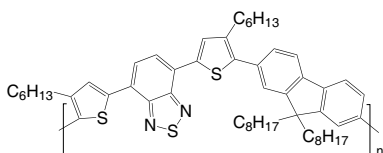
CAS No. : 1429119-71-0
 Grade : Mw > 30,000 (GPC)
 Formula : (C₅₂H₇₆N₂O₂S₃)_n
 UV : 830 nm (in CHCl₃)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9210 | F8TBT

4-(5-(9,9-Dioctyl-9H-fluoren-2-yl)-4-hexylthiophen-2-yl)-7-(4-hexylthiophen-2-yl)benzo[*c*][1,2,5]thiadiazole

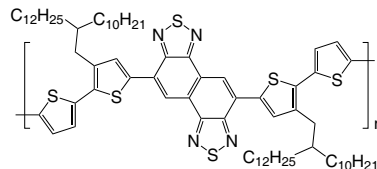
CAS No. : 891911-18-5
 Grade : Mw > 5,000 (GPC)
 Formula : (C₅₅H₇₀N₂S₃)_n



LT-S9271 | PNTz4T

Poly[naphtho[1,2-*c*:5,6-*c'*]bis[1,2,5]thiadiazole-5,10-diyl[3,3'''-bis(2-decyltetradecyl)[2,2':5',2'':5'',2'''-quaterthiophene]-5,5'''-diyl]]

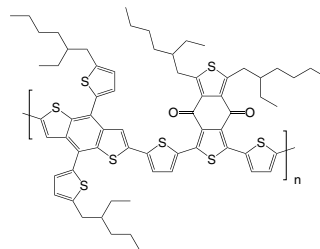
CAS No. : 1357999-94-0
 Grade : Mw > 30,000 (GPC)
 Formula : (C₇₄H₁₀₆N₄S₆)_n
 UV : 725 nm (film)



LT-S9273 | PBDB-T

Poly[[4,8-bis[5-(2-ethylhexyl)-2-thienyl]benzo[1,2-*b*:4,5-*b'*]dithiophene-2,6-diyl]-2,5-thiophenediyl[5,7-bis(2-ethylhexyl)-4,8-dioxo-4H,8H-benzo[1,2-*c*:4,5-*c'*]dithiophene-1,3-diyl]]

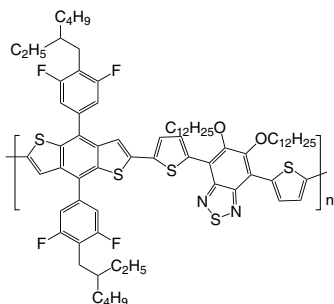
CAS No. : 1415929-80-4
 Grade : Mw > 10,000 (GPC)
 Formula : (C₆₈H₇₈O₂S₈)_n



LT-S9278 | PTFBDT-BZS

Poly[[5,6-bis(dodecyloxy)-2,1,3-benzothiadiazole-4,7-diyl]-2,5-thiophenediyl[4,8-bis[4-(2-ethylhexyl)-3,5-difluorophenyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl]

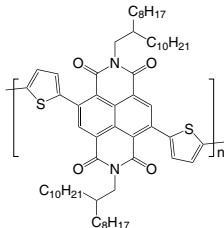
CAS No. : 1840869-86-4
 Grade : Mw > 20,000 (GPC)
 Formula : $(C_{76}H_{94}F_4N_2O_2S_5)_n$
 UV : 414, 542 nm (in DCB)



LT-S9282 | P(NDI2OD-T2)

Poly[[1,2,3,6,7,8-hexahydro-2,7-bis(2-octyldodecyl)-1,3,6,8-dioxobenzoo[lmn][3,8]phenanthroline-4,9-diyl][2,2'-bithiophene]-5,5'-diyl]

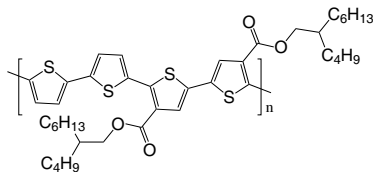
CAS No. : 1100243-40-0
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{62}H_{88}N_2O_4S_2)_n$



LT-S9288 | PDCBT

Poly[2,2'""-bis[[[2-butylloctyl]oxy]carbonyl]-[2,2':5',2'':5'','',2'""-quaterthiophene]-5,5'""-diyl]

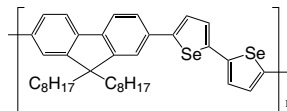
CAS No. : 1609536-17-5
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{42}H_{56}O_4S_4)_n$
 UV : 551 nm (film)



LT-S9420 | F8Se2

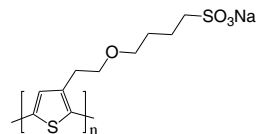
Poly[[2,2'-biselenophene]-5,5'-diyl(9,9-dioctyl-9H-fluorene-2,7-diyl)]

CAS No. : 898233-56-2
 Formula : $(C_{37}H_{44}Se_2)_n$



LT-S9421

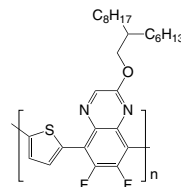
Formula : $(C_{10}H_{13}NaO_4S_2)_n$



LT-S9435 | PTQ10

Poly[(thiophene)-alt-(6,7-difluoro-2-(2-hexyldecyloxy)quinoxaline)]

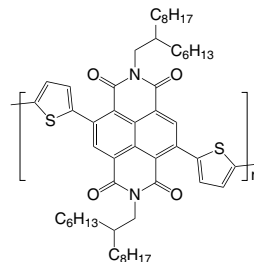
CAS No. : 2270233-86-6
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{28}H_{36}F_2N_2OS)_n$
 UV : A strong Absorption from 450 to 620 nm (in $CHCl_3$ and film)



LT-S9448 | PNDI(2HD)2T

Poly[[N,N'-bis(2-hexyldecyl)naphthalene-1,4,5,8-bis(dicarboximide)-2,6-diyl]-alt-5,5'-(2,2'-bithiophene)]

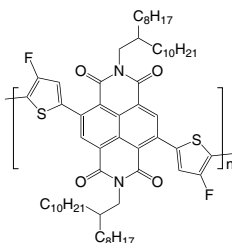
CAS No. : 1459168-70-7
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{54}H_{72}N_2O_4S_2)_n$



LT-S9449 | P(NDI2OD-2FT)

Poly[[1,2,3,6,7,8-hexahydro-2,7-bis(2-octyldodecyl)-1,3,6,8-tetraoxobenzo[Imn][3,8]phenanthroline-4,9-diyl]-(3,3'-difluoro[2,2'-bithiophene]-5,5'-diyl)]

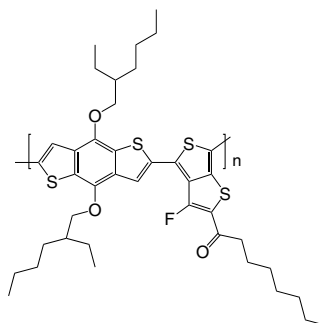
CAS No. : 1773524-46-1
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{62}H_{86}F_2N_2O_4S_2)_n$
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9452 | PBDDTT-CF

Poly[[4,8-bis[(2-ethylhexyl)oxy]benzo[1,2-b:4,5-b']-dithiophene-2,6-diyl][3-fluoro-2-(1-oxooctyl)thieno[3,4-b]thiophenediyl]]

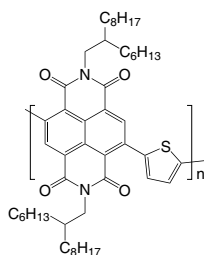
CAS No. : 1379592-65-0
 Grade : Mw = 50,000-100,000 (GPC)
 Formula : $(C_{40}H_{51}FO_3S_4)_n$



LT-S9454 | PNDI(2HD)T

Poly[[N,N'-bis(2-hexyldecyl)naphthalene-1,4,5,8-bis(dicarboximide)-2,6-diyl]-alt-2,5-thiophene]

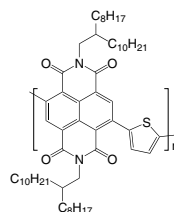
CAS No. : 1675973-74-6
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{50}H_{70}N_2O_4S)_n$
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9455 | PNDI(2OD)T

Poly[[1,2,3,6,7,8-hexahydro-2,7-bis(2-octyldodecyl)-1,3,6,8-tetraoxobenzo[Imn][3,8]phenanthroline-4,9-diyl]-2,5-thiophenediyl]

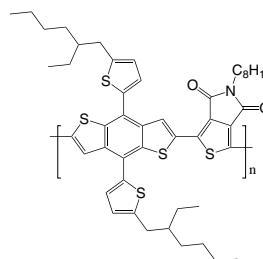
CAS No. : 1236111-76-4
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{58}H_{86}N_2O_4S)_n$
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9456 | PBDDT-T8-TPD

Poly[[5,6-dihydro-5-octyl-4,6-dioxo-4H-thieno[3,4-c]pyrrole-1,3-diyl][4,8-bis[5-(2-ethylhexyl)-2-thienyl]-benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]]

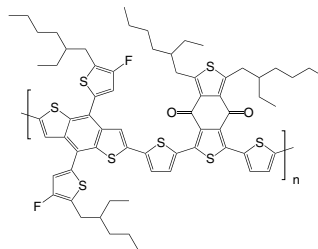
CAS No. : 1426534-44-2
 Grade : Mw = 50,000-150,000 (GPC)
 Formula : $(C_{48}H_{57}NO_2S_5)_n$
 UV : 557, 614 nm (film)



LT-S9457 | PBDB-T-F

Poly[[4,8-bis[5-(2-ethylhexyl)-4-fluoro-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl-[5,7-bis(2-ethylhexyl)-4,8-dioxo-4H-benzo[1,2-c:4,5-c']dithiophene-1,3-diyl]-2,5-thiophenediyl]

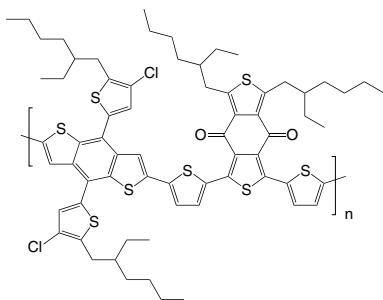
CAS No. : 1802013-83-7
 Grade : Mw > 50,000 (GPC)
 Formula : $(C_{68}H_{76}F_2O_2S_8)_n$
 UV : 614 nm (in $CHCl_3$)



LT-S9458 | PBDB-T-2Cl

Poly[[4,8-bis[4-chloro-5-(2-ethylhexyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl-[5,7-bis(2-ethylhexyl)-4,8-dioxo-4H,8H-benzo[1,2-c:4,5-c']-dithiophene-1,3-diyl]-2,5-thiophenediyl]

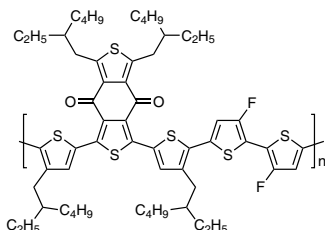
CAS No. : 2239295-71-5
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{68}H_{76}Cl_2O_2S_8)_n$
 PCE : 14%



LT-S9462 | PBDD4T-2F

Poly[[5,7-bis(2-ethylhexyl)-4,8-dioxo-4H,8H-benzo[1,2-c:4,5-c']dithiophene-1,3-diyl][3,3'''-bis[5-(2-butylheptyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl][3-(2-ethylhexyl)-2,5-thiophenediyl]]

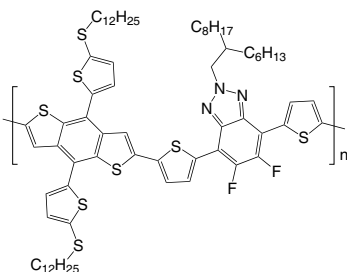
CAS No. : 1890205-85-2
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{58}H_{72}F_2O_2S_6)_n$
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9463 | J61

Poly[[5,6-difluoro-2-(2-hexyldecyl)-2H-benzotriazole-4,7-diyl]-2,5-thiophenediyl][4,8-bis[5-(dodecylthio)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl]

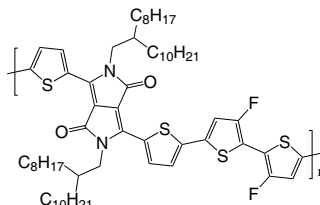
CAS No. : 1887136-03-9
 Grade : Mw = 50,000-150,000 (GPC)
 Formula : $(C_{72}H_{93}F_2N_3S_8)_n$
 PCE : 11.77%



LT-S9464 | PDPP4T-2F

Poly[[2,5-bis(2-decyltetradecyl)-2,3,5,6-tetrahydro-3,6-dioxopyrrolo[3,4-c]pyrrole-1,4-diyl]-3'',4'-difluoro[2,2':5',2'':5'',2'''-quaterthiophene]-5,5'''-diyl]]

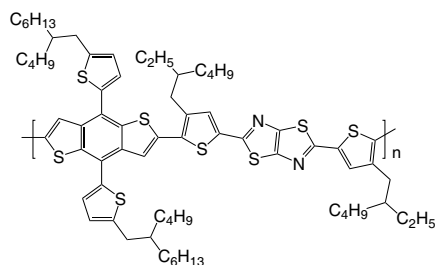
CAS No. : 1926166-46-2
 Grade : Mw = 50,000-100,000 (GPC)
 Formula : $(C_{70}H_{104}F_2N_2O_2S_4)_n$



LT-S9465 | PTZ1

Poly[thiazolo[5,4-d]thiazole-2,5-diyl[4-(2-ethylhexyl)-2,5-thiophenediyl][4,8-bis[5-(2-butylheptyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl][3-(2-ethylhexyl)-2,5-thiophenediyl]]

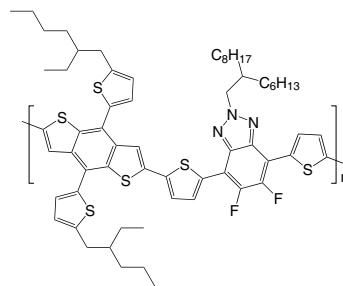
CAS No. : 2091841-68-6
 Grade : Mw = 10,000-50,000 (GPC)
 Formula : $(C_{70}H_{92}N_2S_8)_n$



LT-S9469 | J52

Poly[[5,6-difluoro-2-(2-hexyldecyl)-2H-benzotriazole-4,7-diyl]-2,5-thiophenediyl][4,8-bis[5-(2-ethylhexyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl]

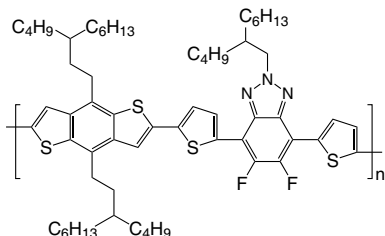
CAS No. : 1887136-01-7
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{64}H_{77}F_2N_3S_8)_n$
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9497 | FTAZ

Poly(4,8-bis(3-butylnonyl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl-alt-5,6-difluoro-2-(2-butyloctyl)-4,7-di(thiophen-2-yl)-2H-benzo[d][1,2,3]triazole-5,5-diyl)

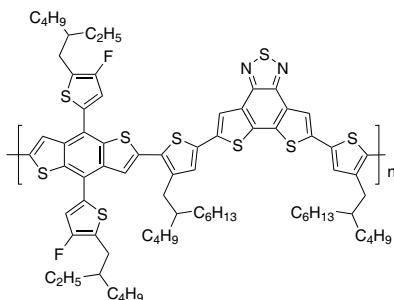
Grade : Mw > 10,000 (GPC)
 Formula : $C_{64}H_{91}F_2N_3S_4$
 PCE : 12.1%(with ITIC-Th₁)



LT-S9502 | D18

Poly((4,8-bis(5-(2-ethylhexyl)-4-fluorothiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)-alt-[5,8-(tributyl(4-(2-butyloctyl)thiophen)]dithieno-[3',2':3,4;2'',3''':5,6]benzo[1,2-c][1,2,5]thiadiazole))

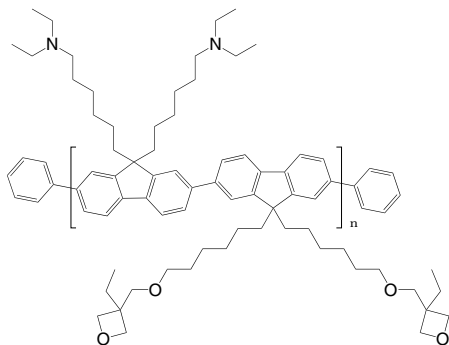
Grade : Mw > 30,000 (GPC)
 Formula : $(C_{76}H_{92}F_2N_2S_9)_n$
 UV : 555, 581 nm (Film)



LT-N177 | PFN-OX

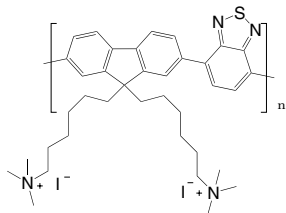
Poly[2,7-[9,9-bis(6'-(N,N-diethylamino)hexyl)fluorene]-*alt*-2,7-[9,9-bis(6-((3-ethyloxetan-3-yl)methoxy)hexyl)fluorene]]

CAS No. : 1345045-27-3
 Formula : $(C_{70}H_{102}N_2O_4)_n C_{12}H_{10}$
 UV : 378 ± 10 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$

**LT-N181** | PFNIBT

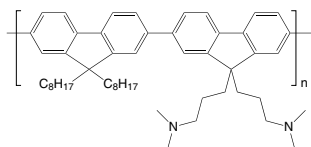
Poly[9,9-bis(6-trimethyl-ammoniumiodide)-hexylfluorene-2,7-diyl-*alt*-(benzo[2,1,3]thiadiazol-4,7-diyl)]

Grade : Mw > 10,000 (GPC)
 Formula : $(C_{37}H_{50}I_2N_4S)_n$
 UV : 317, 448 nm (in DMSO)
 Solubility : Soluble in MeOH

**LT-N4027** | PFN-DOF

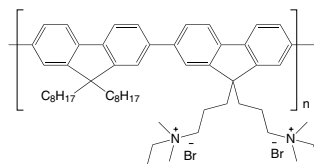
Poly[(9,9-bis(3'-(N,N-dimethylamino)propyl)-2,7-fluorene)-*alt*-2,7-(9,9-dioctylfluorene)]

CAS No. : 673474-75-4
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{52}H_{70}N_2)_n$
 UV : 378 nm (in CH_2Cl_2)
 PL : 414 nm (in CH_2Cl_2)
 Solubility : Soluble in CH_2Cl_2 , $CHCl_3$, Toluene

**LT-N878** | PFNBr

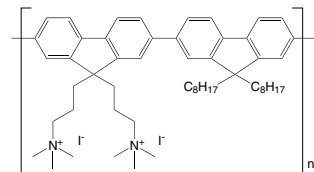
Poly[(9,9-bis(3'-(N,N-dimethyl)-N-ethylammonium)-propyl)-2,7-fluorene]-*alt*-2,7-(9,9-dioctylfluorene)]dibromide

CAS No. : 889672-99-5
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{56}H_{80}N_2Br_2)_n$
 UV : 375 nm (in MeOH)
 PL : 440 nm (in MeOH)
 Solubility : Soluble in MeOH

**LT-N8006** | PFN-diiodine salt

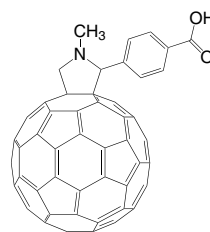
Poly[(9,9-bis[3-(trimethylammonium)propyl]-2,7-fluorene)-*alt*-2,7-(9,9-dioctylfluorene)]diiodide

CAS No. : 1687752-60-8
 Formula : $(C_{56}H_{80}N_2I_2)_n$

**LT-S9161** | C60-COOH-SAM

4-(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno-C₆₀-1h-[1,9-c]-pyrrol-2'-yl)benzoic acid

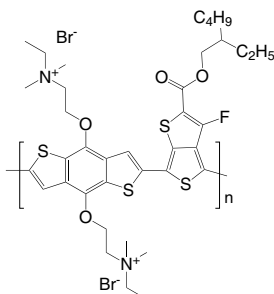
CAS No. : 631918-72-4
 Grade : > 99%
 Formula : $C_{70}H_{11}NO_2$
 M.W. : 897.84 g/mole
 UV : 345 nm (in CH_2Cl_2)



LT-S9274 | PTB7-NBr

Poly[4,8-bis{[(N,N-dimethyl)-N-ethylammonium]propyloxy}benzo[1,2-b:4,5-b']dithiophene-2,6-diyl-alt-3-fluoro-2-[(2-ethylhexyl)carbonyl]thieno[3,4-b]thiophene-4,6-diyl]

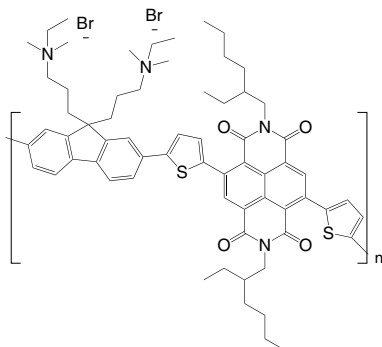
CAS No. : 2092936-05-3
 Grade : Mw > 10,000 (GPC)
 Formula : (C₃₇H₅₁Br₂FN₂O₄S₄)_n



LT-S9289 | PNDIT-F3N-Br

Poly[[2,7-bis(2-ethylhexyl)-1,2,3,6,7,8-hexahydro-1,3,6,8-tetraoxobenzo[Imn][3,8]phenanthroline-4,9-diyl]-2,5-thiophenediyl[9,9-bis[3'[(N,N-dimethyl)-N-ethylammonium]propyl]-9H-fluorene-2,7-diyl]-2,5-thiophenediyl]

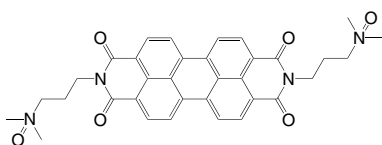
CAS No. : 2169941-79-9
 Grade : Mw > 10,000 (GPC)
 Formula : (C₆₅H₈₀Br₂N₄O₄S₂)_n
 UV : 380, 580 nm (in Methanol)



LT-S9479 | PDINO

2,9-Bis[3-(dimethyloxidoamino)propyl]anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone

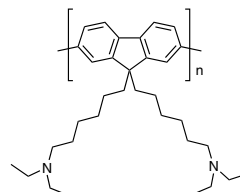
CAS No. : 1558023-86-1
 Grade : > 98%
 HOMO : -6.21 eV
 LUMO : -3.63 eV



LT-S9506 | PFN100

Poly[(9,9-bis(6'-(N,N-diethylamino)hexyl)-2,7-fluorene]

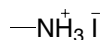
CAS No. : 1305335-08-3
 Grade : Mw = 30,000~100,000(GPC), PDI < 10
 Formula : (C₃₃H₅₀N₂)_n
 HOMO : -5.54 eV
 LUMO : -3.58 eV
 Mobility : 8.14x10⁻⁴ cm²/Vs



LT-S9126 | MAI

Methylammonium iodide

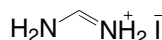
CAS No. : 14965-49-2
 Grade : > 99.5%, recrystallized 4 times
 Formula : CH_6IN
 M.W. : 158.97 g/mole



LT-S9136 | FAI

Formamidinium iodide

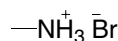
CAS No. : 879643-71-7
 Grade : > 99.5%, recrystallized 4 times
 Formula : CH_5IN_2
 M.W. : 171.97 g/mole



LT-S9137 | MABr

Methylammonium bromide

CAS No. : 6876-37-5
 Grade : > 99.5%, recrystallized 4 times
 Formula : CH_6BrN
 M.W. : 111.97 g/mole

LT-S9147 | PbI_2

Lead(II) iodide

CAS No. : 10101-63-0
 Grade : 99.999% (trace metals basis)
 Formula : PbI_2
 M.W. : 461.01 g/mole

LT-S9148 | PbCl_2

Lead(II) chloride

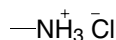
CAS No. : 7758-95-4
 Grade : 99.999% (trace metals basis)
 Formula : PbCl_2
 M.W. : 278.11 g/mole



LT-S9151 | MACl

Methylammonium chloride

CAS No. : 593-51-1
 Grade : > 99.5%, recrystallized 4 times
 Formula : CH_6ClN
 M.W. : 67.52 g/mole

LT-S9152 | PbBr_2

Lead(II) bromide

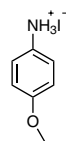
CAS No. : 10031-22-8
 Grade : 99.999% trace metals basis
 Formula : PbBr_2
 M.W. : 367.01 g/mole



LT-S9206 |

4-Methoxyphenylammonium iodide

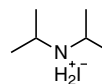
Grade : > 99.5%, recrystallized 4 times
 Formula : $\text{C}_7\text{H}_{10}\text{INO}$
 M.W. : 251.06 g/mole



LT-S9207 |

Diisopropylammonium iodide

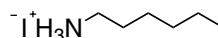
Grade : > 99.5%, recrystallized 4 times
 Formula : $\text{C}_6\text{H}_{16}\text{IN}$
 M.W. : 229.1 g/mole



LT-S9208 |

Hexylammonium iodide

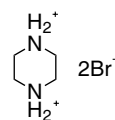
Grade : > 99.5%, recrystallized 4 times
 Formula : $\text{C}_6\text{H}_{16}\text{IN}^+$
 M.W. : 229.1 g/mole



LT-S9217 |

Piperazine-1,4-diium bromide

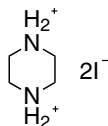
CAS No. : 59813-05-7
 Grade : > 99.5%, recrystallized 4 times
 Formula : $\text{C}_4\text{H}_{12}\text{Br}_2\text{N}_2$
 M.W. : 247.96 g/mole



LT-S9218

Piperazine-1,4-diium iodide

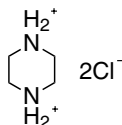
CAS No. : 58464-47-4
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_4H_{12}I_2N_2$
 M.W. : 341.96 g/mole



LT-S9219

Piperazine-1,4-diium chloride

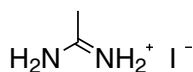
CAS No. : 142-64-3
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_4H_{12}Cl_2N_2$
 M.W. : 159.06 g/mole



LT-S9220

Acetamidinium iodide

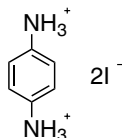
CAS No. : 1452099-14-7
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_2H_7IN_2$
 M.W. : 185.99 g/mole



LT-S9224

1,4-Benzene diammonium iodide

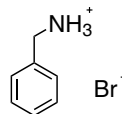
CAS No. : 116469-02-4
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_6H_{10}I_2N_2$
 M.W. : 363.97 g/mole



LT-S9225

Benzylammonium bromide

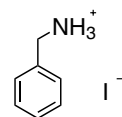
CAS No. : 37488-40-7
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_7H_{10}BrN$
 M.W. : 188.06 g/mole



LT-S9226

Benzylammonium iodide

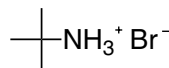
Grade : > 99.5%, recrystallized 4 times
 Formula : $C_7H_{10}IN$
 M.W. : 235.07 g/mole



LT-S9227

t-Butylammonium bromide

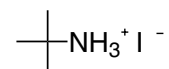
CAS No. : 60469-70-7
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9228

t-Butylammonium iodide

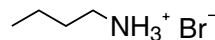
CAS No. : 39557-45-4
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_4H_{12}IN$
 M.W. : 201.05 g/mole



LT-S9229

n-Butylammonium bromide

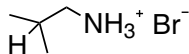
CAS No. : 15567-09-6
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9230

iso-Butylammonium bromide

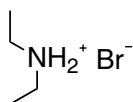
Grade : > 99.5% , recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9231

Diethylammonium bromide

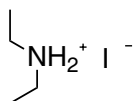
CAS No. : 6274-12-0
 Grade : > 99.5% , recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9232

Diethylammonium iodide

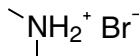
CAS No. : 19833-78-4
 Grade : > 99.5% , recrystallized 4 times
 Formula : $C_4H_{12}IN$
 M.W. : 201.05 g/mole



LT-S9233

Dimethylammonium bromide

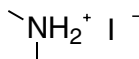
CAS No. : 6912-12-5
 Grade : > 99.5% , recrystallized 4 times
 Formula : C_2H_8BrN
 M.W. : 126 g/mole



LT-S9234

Dimethylammonium iodide

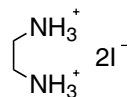
CAS No. : 51066-74-1
 Grade : > 99.5% , recrystallized 4 times
 Formula : C_2H_8IN
 M.W. : 173 g/mole



LT-S9235

1,2-Diammoniummethane iodide

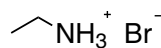
CAS No. : 5700-49-2
 Grade : > 99.5% , recrystallized 4 times
 Formula : $C_2H_{10}I_2N_2$
 M.W. : 315.92 g/mole



LT-S9236

Ethylammonium bromide

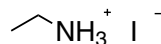
CAS No. : 593-55-5
 Grade : > 99.5% , recrystallized 4 times
 Formula : C_2H_8BrN
 M.W. : 125.99 g/mole



LT-S9237

Ethylammonium iodide

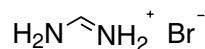
CAS No. : 506-58-1
 Grade : > 99.5% , recrystallized 4 times
 Formula : C_2H_8IN
 M.W. : 173 g/mole



LT-S9238 FABr

Formamidinium bromide

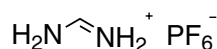
CAS No. : 146958-06-7
 Grade : > 99.5% , recrystallized 4 times
 Formula : CH_5BrN_2
 M.W. : 124.97 g/mole



LT-S9239

Formamidinium hexafluorophosphate

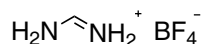
Grade : > 99.5% , recrystallized 4 times
 Formula : $CH_5F_6N_2P$
 M.W. : 190.03 g/mole



LT-S9240

Formamidinium tetrafluoroborate

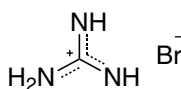
Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{CH}_5\text{BF}_4\text{N}_2$
 M.W. : 131.87 g/mole



LT-S9241

Guanidinium bromide

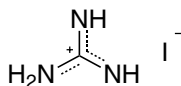
CAS No. : 19244-98-5
 Grade : > 99.5% , recrystallized 4 times
 Formula : CH_6BrN_3
 M.W. : 139.98 g/mole



LT-S9242

Guanidinium iodide

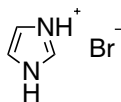
CAS No. : 19227-70-4
 Grade : > 99.5% , recrystallized 4 times
 Formula : CH_6IN_3
 M.W. : 186.98 g/mole



LT-S9243

Imidazolium bromide

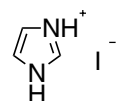
CAS No. : 101023-55-6
 Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{C}_3\text{H}_5\text{BrN}_2$
 M.W. : 148.99 g/mole



LT-S9244

Imidazolium iodide

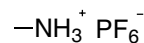
CAS No. : 68007-08-9
 Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{C}_3\text{H}_5\text{IN}_2$
 M.W. : 195.99 g/mole



LT-S9245

Methylammonium hexafluorophosphate

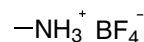
CAS No. : 28302-50-3
 Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{CH}_6\text{PF}_6\text{N}$
 M.W. : 177.03 g/mole



LT-S9246

Methylammonium tetrafluoroborate

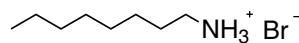
CAS No. : 42539-74-2
 Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{CH}_6\text{BF}_4\text{N}$
 M.W. : 118.87 g/mole



LT-S9247

n-Octylammonium bromide

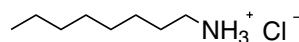
CAS No. : 14846-47-0
 Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{C}_8\text{H}_{20}\text{BrN}$
 M.W. : 210.16 g/mole



LT-S9248

n-Octylammonium chloride

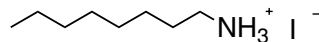
CAS No. : 142-95-0
 Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{C}_8\text{H}_{20}\text{ClN}$
 M.W. : 165.7 g/mole



LT-S9249

n-Octylammonium iodide

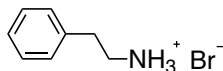
CAS No. : 60734-63-6
 Grade : > 99.5% , recrystallized 4 times
 Formula : $\text{C}_8\text{H}_{20}\text{IN}$
 M.W. : 257.16 g/mole



LT-S9250

Phenethylammonium bromide

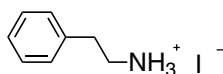
CAS No. : 53916-94-2
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_8H_{12}BrN$
 M.W. : 202.09 g/mole



LT-S9251

Phenethylammonium iodide

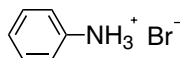
CAS No. : 151059-43-7
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_8H_{12}IN$
 M.W. : 249.09 g/mole



LT-S9252

Phenylammonium bromide

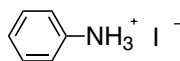
CAS No. : 542-11-0
 Grade : > 99.5%, recrystallized 4 times
 Formula : C_6H_8BrN
 M.W. : 174.04 g/mole



LT-S9253

Phenylammonium iodide

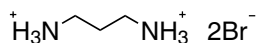
CAS No. : 45497-73-2
 Grade : > 99.5%, recrystallized 4 times
 Formula : C_6H_8IN
 M.W. : 221.04 g/mole



LT-S9254

1,3-Diammoniumpropane bromide

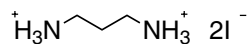
CAS No. : 18773-03-0
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_3H_{12}Br_2N_2$
 M.W. : 235.95 g/mole



LT-S9255

1,3-Diammoniumpropane iodide

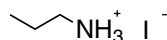
CAS No. : 120675-53-8
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_3H_{12}I_2N_2$
 M.W. : 329.95 g/mole



LT-S9256

n-Propylammonium iodide

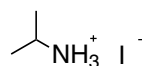
CAS No. : 14488-45-0
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_3H_{10}IN$
 M.W. : 187.02 g/mole



LT-S9257

iso-Propylammonium iodide

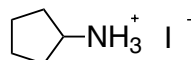
Grade : > 99.5%, recrystallized 4 times
 Formula : $C_3H_{10}IN$
 M.W. : 187.02 g/mole



LT-S9258

Pyrrolidinium iodide

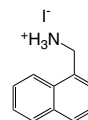
CAS No. : 45361-12-4
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_4H_{10}IN$
 M.W. : 199.03 g/mole



LT-S9286

1-Naphthylmethylamine iodide

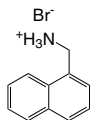
CAS No. : 256222-11-4
 Grade : > 99.5%, recrystallized 4 times
 Formula : $C_{11}H_{12}IN$
 M.W. : 285.12 g/mole



LT-S9287

1-Naphthylmethylamine bromide

CAS No. : 217309-83-6
 Grade : > 99.5% , recrystallized 4 times
 Formula : $C_{11}H_{12}BrN$
 M.W. : 238.12 g/mole



LT-S9300

Butane-1,4-diammonium iodide

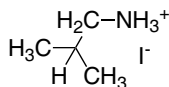
CAS No. : 916849-52-0
 Grade : > 99%
 Formula : $C_4H_{14}I_2N_2$
 M.W. : 343.98 g/mole



LT-S9301

iso-Butylammonium iodide

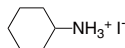
CAS No. : 205508-75-4
 Grade : > 99%
 Formula : $C_4H_{12}IN$
 M.W. : 201.05 g/mole



LT-S9302

Cyclohexylammonium iodide

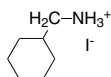
CAS No. : 45492-87-3
 Grade : > 99%
 Formula : $C_6H_{14}IN$
 M.W. : 227.09 g/mole



LT-S9303

Cyclohexylmethylammonium iodide

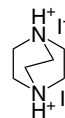
Grade : > 99%
 Formula : $C_7H_{16}IN$
 M.W. : 241.11 g/mole



LT-S9304

1,4-Diazabicyclo[2,2,2]octane-1,4-diium iodide

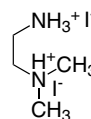
CAS No. : 33322-06-4
 Grade : > 99%
 Formula : $C_6H_{14}I_2N_2$
 M.W. : 368 g/mole



LT-S9305

N,N-Dimethyl-1,2-ethanediammonium iodide

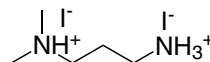
CAS No. : 244234-52-4
 Grade : > 99%
 Formula : $C_4H_{14}I_2N_2$
 M.W. : 343.98 g/mole



LT-S9306

N,N-Dimethyl-1,3-propanediammonium iodide

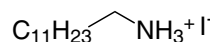
Grade : > 99%
 Formula : $C_5H_{16}I_2N_2$
 M.W. : 358 g/mole



LT-S9307

n-Dodecylammonium iodide

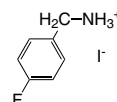
CAS No. : 34099-97-3
 Grade : > 99%
 Formula : $C_{12}H_{28}IN$
 M.W. : 313.26 g/mole



LT-S9308

4-Fluoro-benzylammonium iodide

CAS No. : 2097121-30-5
 Grade : > 99%
 Formula : C_7H_9FIN
 M.W. : 253.06 g/mole

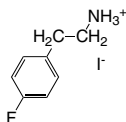


Perovskite Precursor

LT-S9309

4-Fluoro-phenethylammonium iodide

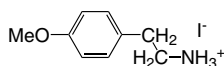
CAS No. : 1413269-55-2
 Grade : > 99%
 Formula : $C_8H_{11}FIN$
 M.W. : 267.08 g/mole



LT-S9311

4-Methoxy-phenethylammonium iodide

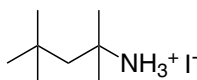
Grade : > 99%
 Formula : $C_9H_{14}INO$
 M.W. : 279.12 g/mole



LT-S9312

tert-Octylammonium iodide

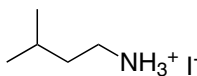
Grade : > 99%
 Formula : $C_8H_{20}IN$
 M.W. : 257.16 g/mole



LT-S9313

iso-Pentylammonium iodide

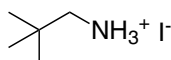
Grade : > 99%
 Formula : $C_5H_{14}IN$
 M.W. : 215.06 g/mole



LT-S9314

neo-Pentylammonium iodide

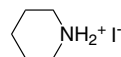
Grade : > 99%
 Formula : $C_5H_{14}IN$
 M.W. : 215.08 g/mole



LT-S9315

Piperidinium iodide

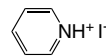
CAS No. : 21701-42-8
 Grade : > 99%
 Formula : $C_5H_{12}IN$
 M.W. : 213.06 g/mole



LT-S9316

Pyridinium iodide

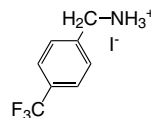
CAS No. : 18820-83-2
 Grade : > 99%
 Formula : C_5H_6IN
 M.W. : 207.01 g/mole



LT-S9317

4-Trifluoromethyl-benzylammonium iodide

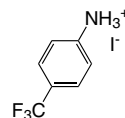
Grade : > 99%
 Formula : $C_8H_9F_3IN$
 M.W. : 303.06 g/mole



LT-S9318

4-Trifluoromethyl-phenylammonium iodide

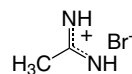
Grade : > 99%
 Formula : $C_7H_7F_3IN$
 M.W. : 289.04 g/mole



LT-S9319

Acetamidinium bromide

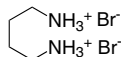
CAS No. : 1040352-82-6
 Grade : > 99%
 Formula : $C_2H_7BrN_2$
 M.W. : 138.99 g/mole



LT-S9320

Butane-1,4-diammonium bromide

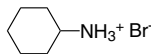
CAS No. : 18773-04-1
 Grade : > 99%
 Formula : $C_4H_{14}Br_2N_2$
 M.W. : 249.98 g/mole



LT-S9321

Cyclohexylammonium bromide

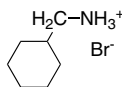
CAS No. : 26227-54-3
 Grade : > 99%
 Formula : $C_6H_{14}BrN$
 M.W. : 180.09 g/mole



LT-S9322

Cyclohexylmethylammonium bromide

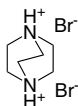
Grade : > 99%
 Formula : $C_7H_{16}BrN$
 M.W. : 194.11 g/mole



LT-S9323

1,4-Diazabicyclo[2,2,2]octane-1,4-diium bromide

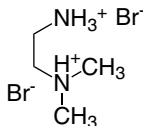
CAS No. : 54581-69-0
 Grade : > 99%
 Formula : $C_6H_{14}Br_2N_2$
 M.W. : 274 g/mole



LT-S9324

N,N-Dimethylethane-1,2-ethanediammonium bromide

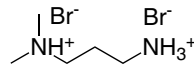
CAS No. : 1245570-04-0
 Grade : > 99%
 Formula : $C_4H_{14}Br_2N_2$
 M.W. : 249.98 g/mole



LT-S9325

N,N-Dimethyl-1,3-propanediammonium bromide

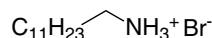
Grade : > 99%
 Formula : $C_5H_{16}Br_2N_2$
 M.W. : 264 g/mole



LT-S9326

n-Dodecylammonium bromide

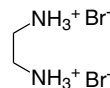
CAS No. : 26204-55-7
 Grade : > 99%
 Formula : $C_{12}H_{28}BrN$
 M.W. : 266.26 g/mole



LT-S9327

Ethane-1,2-diammonium bromide

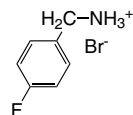
CAS No. : 624-59-9
 Grade : > 99%
 Formula : $C_2H_{10}Br_2N_2$
 M.W. : 221.92 g/mole



LT-S9328

4-Fluoro-benzylammonium bromide

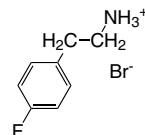
Grade : > 99%
 Formula : C_7H_9FBrN
 M.W. : 206.06 g/mole



LT-S9329

4-Fluoro-phenethylammonium bromide

CAS No. : 1807536-06-6
 Grade : > 99%
 Formula : $C_8H_{11}BrFN$
 M.W. : 220.08 g/mole

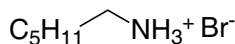


Perovskite Precursor

LT-S9330

n-Hexylammonium bromide

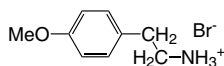
CAS No. : 7334-95-4
 Grade : > 99%
 Formula : $C_6H_{16}BrN$
 M.W. : 182.1 g/mole



LT-S9331

4-Methoxy-phenethylammonium bromide

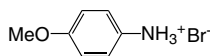
Grade : > 99%
 Formula : $C_9H_{14}BrNO$
 M.W. : 232.12 g/mole



LT-S9332

4-Methoxy-phenylammonium bromide

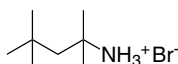
CAS No. : 116436-31-8
 Grade : > 99%
 Formula : $C_9H_{14}BrNO$
 M.W. : 232.12 g/mole



LT-S9333

tert-Octylammonium bromide

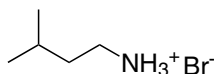
CAS No. : 1093859-61-0
 Grade : > 99%
 Formula : $C_8H_{20}BrN$
 M.W. : 210.16 g/mole



LT-S9334

iso-Pentylammonium bromide

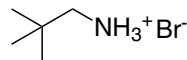
Grade : > 99%
 Formula : $C_5H_{14}BrN$
 M.W. : 168.08 g/mole



LT-S9335

neo-Pentylammonium bromide

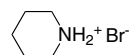
Grade : > 99%
 Formula : $C_5H_{14}BrN$
 M.W. : 168.08 g/mole



LT-S9336

Piperidinium bromide

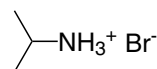
CAS No. : 14066-85-4
 Grade : > 99%
 Formula : $C_5H_{12}BrN$
 M.W. : 166.06 g/mole



LT-S9337

iso-Propylammonium bromide

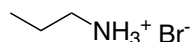
CAS No. : 29552-58-7
 Grade : > 99%
 Formula : $C_3H_{10}BrN$
 M.W. : 140.02 g/mole



LT-S9338

n-Propylammonium bromide

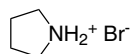
CAS No. : 4905-83-3
 Grade : > 99%
 Formula : $C_3H_{10}BrN$
 M.W. : 140.02 g/mole



LT-S9339

Pyrrolidinium bromide

CAS No. : 55810-80-5
 Grade : > 99%
 Formula : $C_4H_{10}BrN$
 M.W. : 152.03 g/mole



LT-S9340

Quinuclidin-1-ium bromide

CAS No. : 60662-68-2
 Grade : > 99%
 Formula : $C_7H_{14}BrN$
 M.W. : 192.1 g/mole



LT-S9341

4-Trifluoromethyl-benzylammonium bromide

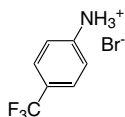
Grade : > 99%
 Formula : $C_8H_9F_3BrN$
 M.W. : 256.06 g/mole



LT-S9342

4-Trifluoromethyl-phenylammonium bromide

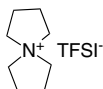
Grade : > 99%
 Formula : $C_7H_7BrF_3N$
 M.W. : 242.03 g/mole



LT-S9343

5-Azasp[4.4]nonan-5-ium bis(trifluoromethane)sulfonimide

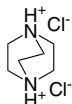
CAS No. : 706759-44-6
 Grade : > 99%
 Formula : $C_{10}H_{16}F_6N_2O_4S_2$
 M.W. : 406.37 g/mole



LT-S9344

1,4-Diazabicyclo[2.2.2]octane-1,4-diium chloride

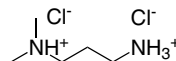
CAS No. : 49563-87-3
 Grade : > 99%
 Formula : $C_6H_{14}Cl_2N_2$
 M.W. : 185.09 g/mole



LT-S9345

N,N-Dimethyl-1,3-propanediammonium chloride

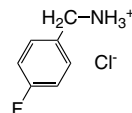
CAS No. : 52198-63-7
 Grade : > 99%
 Formula : $C_5H_{16}Cl_2N_2$
 M.W. : 175.1 g/mole



LT-S9346

4-Fluoro-benzylammonium chloride

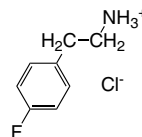
CAS No. : 659-41-6
 Grade : > 99%
 Formula : C_7H_9FCIN
 M.W. : 161.6 g/mole



LT-S9347

4-Fluoro-phenethylammonium chloride

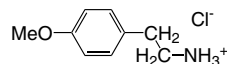
CAS No. : 459-19-8
 Grade : > 99%
 Formula : $C_8H_{11}ClFN$
 M.W. : 175.63 g/mole



LT-S9348

4-Methoxy-phenethylammonium chloride

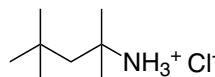
CAS No. : 645-58-9
 Grade : > 99%
 Formula : $C_9H_{14}ClNO$
 M.W. : 187.67 g/mole



LT-S9349

tert-Octylammonium chloride

CAS No. : 58618-91-0
 Grade : > 99%
 Formula : $C_8H_{20}ClN$
 M.W. : 165.7 g/mole

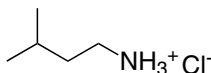


Perovskite Precursor

LT-S9350

iso-Pentylammonium chloride

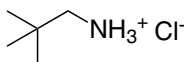
CAS No. : 541-23-1
 Grade : > 99%
 Formula : $C_5H_{14}ClN$
 M.W. : 123.62 g/mole



LT-S9351

neo-Pentylammonium chloride

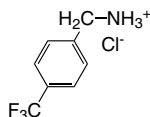
CAS No. : 15925-18-5
 Grade : > 99%
 Formula : $C_5H_{14}ClN$
 M.W. : 123.62 g/mole



LT-S9352

4-Trifluoromethyl-benzylammonium chloride

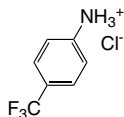
CAS No. : 3047-99-2
 Grade : > 99%
 Formula : $C_8H_9F_3ClN$
 M.W. : 211.61 g/mole



LT-S9353

4-Trifluoromethyl-phenylammonium chloride

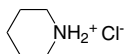
CAS No. : 90774-69-9
 Grade : > 99%
 Formula : $C_7H_7ClF_3N$
 M.W. : 197.59 g/mole



LT-S9354

Piperidinium chloride

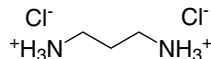
CAS No. : 6091-44-7
 Grade : > 99%
 Formula : $C_5H_{12}ClN$
 M.W. : 121.61 g/mole



LT-S9355

Propane-1,3-diammonium chloride

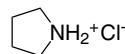
CAS No. : 10517-44-9
 Grade : > 99%
 Formula : $C_3H_{12}Cl_2N_2$
 M.W. : 147.05 g/mole



LT-S9356

Pyrrolidinium chloride

CAS No. : 25150-61-2
 Grade : > 99%
 Formula : $C_4H_{10}ClN$
 M.W. : 107.58 g/mole



LT-S9357

Quinuclidin-1-ium chloride

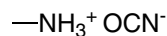
CAS No. : 39896-06-5
 Grade : > 99%
 Formula : $C_7H_{14}ClN$
 M.W. : 147.65 g/mole



LT-S9358

Methylammonium cyanate

CAS No. : 63405-91-4
 Grade : > 99%
 Formula : $C_2H_6N_2O$
 M.W. : 74.08 g/mole



LT-S9359

5-Azaspiro[4.4]nonan-5-ium tetrafluoroborate

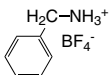
CAS No. : 129211-47-8
 Grade : > 99%
 Formula : $C_8H_{16}BF_4N$
 M.W. : 213.02 g/mole



LT-S9360

Benzylammonium tetrafluoroborate

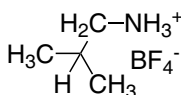
CAS No. : 41579-49-1
 Grade : > 99%
 Formula : $C_7H_{10}BF_4N$
 M.W. : 194.97 g/mole



LT-S9361

iso-Butylammonium tetrafluoroborate

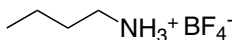
CAS No. : 71852-72-7
 Grade : > 99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9362

n-Butylammonium tetrafluoroborate

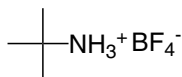
CAS No. : 71852-73-8
 Grade : > 99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9363

t-Butylammonium tetrafluoroborate

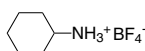
CAS No. : 24418-92-6
 Grade : > 99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9364

Cyclohexylammonium tetrafluoroborate

CAS No. : 71893-43-1
 Grade : > 99%
 Formula : $C_6H_{14}BF_4N$
 M.W. : 186.99 g/mole



LT-S9365

1,4-Diazabicyclo[2,2,2]octane-1,4-diium tetrafluoroborate

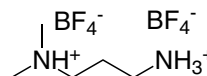
Grade : > 99%
 Formula : $C_6H_{14}B_2F_8N_2$
 M.W. : 160.95 g/mole



LT-S9366

N,N-Dimethyl-1,3-propanediammonium tetrafluoroborate

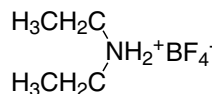
Grade : > 99%
 Formula : $C_5H_{16}B_2F_8N_2$
 M.W. : 277.8 g/mole



LT-S9367

Diethylammonium tetrafluoroborate

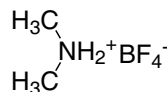
CAS No. : 17085-33-5
 Grade : > 99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9368

Dimethylammonium tetrafluoroborate

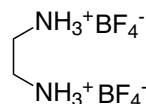
CAS No. : 16970-97-1
 Grade : > 99%
 Formula : $C_2H_8BF_4N$
 M.W. : 132.9 g/mole



LT-S9369

Ethane-1,2-diammonium tetrafluoroborate

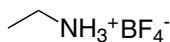
Grade : > 99%
 Formula : $C_2H_{10}B_2F_8N_2$
 M.W. : 235.72 g/mole



LT-S9370

Ethylammonium tetrafluoroborate

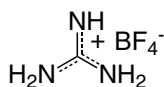
CAS No. : 12070-78-9
 Grade : > 99%
 Formula : $C_2H_5BF_4N$
 M.W. : 132.9 g/mole



LT-S9371

Guanidinium tetrafluoroborate

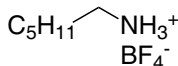
CAS No. : 36595-00-3
 Grade : > 99%
 Formula : $CH_6BF_4N_3$
 M.W. : 146.88 g/mole



LT-S9372

n-Hexylammonium tetrafluoroborate

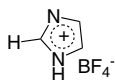
CAS No. : 41579-47-9
 Grade : > 99%
 Formula : $C_6H_{16}BF_4N$
 M.W. : 378.01 g/mole



LT-S9373

Imidazolium tetrafluoroborate

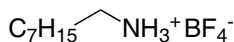
CAS No. : 112725-76-5
 Grade : > 99%
 Formula : $C_3H_5BF_4N_2$
 M.W. : 155.89 g/mole



LT-S9374

n-Octylammonium tetrafluoroborate

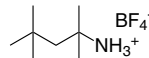
CAS No. : 790269-39-5
 Grade : > 99%
 Formula : $C_8H_{20}BF_4N$
 M.W. : 217.06 g/mole



LT-S9375

tert-Octylammonium tetrafluoroborate

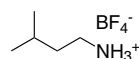
Grade : > 99%
 Formula : $C_8H_{20}BF_4N$
 M.W. : 217.06 g/mole



LT-S9376

iso-Pentylammonium tetrafluoroborate

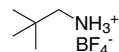
CAS No. : 150178-33-9
 Grade : > 99%
 Formula : $C_5H_{14}BF_4N$
 M.W. : 174.97 g/mole



LT-S9377

neo-Pentylammonium tetrafluoroborate

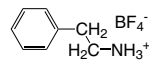
Grade : > 99%
 Formula : $C_5H_{14}BF_4N$
 M.W. : 174.98 g/mole



LT-S9378

Phenethylammonium tetrafluoroborate

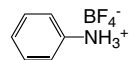
Grade : > 99%
 Formula : $C_8H_{12}BF_4N$
 M.W. : 208.99 g/mole



LT-S9379

Phenylammonium tetrafluoroborate

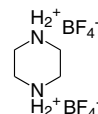
CAS No. : 3796-29-0
 Grade : > 99%
 Formula : $C_6H_8BF_4N$
 M.W. : 180.94 g/mole



LT-S9380

Piperazine-1,4-dium tetrafluoroborate

Grade : > 99%
 Formula : $C_4H_{12}B_2F_8N_2$
 M.W. : 261.76 g/mole



LT-S9381

Piperidinium tetrafluoroborate

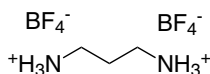
CAS No. : 20935-77-7
 Grade : > 99%
 Formula : $C_5H_{12}BF_4N$
 M.W. : 172.96 g/mole



LT-S9382

Propane-1,3-diammonium tetrafluoroborate

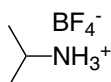
Grade : > 99%
 Formula : $C_3H_{12}B_2F_8N_2$
 M.W. : 249.75 g/mole



LT-S9383

iso-Propylammonium tetrafluoroborate

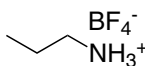
CAS No. : 71852-74-9
 Grade : > 99%
 Formula : $C_3H_{10}BF_4N$
 M.W. : 146.92 g/mole



LT-S9384

n-Propylammonium tetrafluoroborate

CAS No. : 71852-75-0
 Grade : > 99%
 Formula : $C_3H_{10}BF_4N$
 M.W. : 146.92 g/mole



LT-S9385

Pyridinium tetrafluoroborate

CAS No. : 505-07-7
 Grade : > 99%
 Formula : $C_5H_6BF_4N$
 M.W. : 166.91 g/mole



LT-S9386

Pyrrolidinium tetrafluoroborate

CAS No. : 95647-26-0
 Grade : > 99%
 Formula : $C_4H_{10}BF_4N$
 M.W. : 158.93 g/mole



LT-S9387

Quinuclidin-1-ium tetrafluoroborate

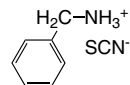
CAS No. : 936025-25-1
 Grade : > 99%
 Formula : $C_7H_{14}BF_4N$
 M.W. : 199 g/mole



LT-S9388

Benzylammonium thiocyanate

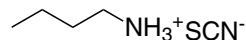
CAS No. : 51571-89-2
 Grade : > 99%
 Formula : $C_8H_{10}N_2S$
 M.W. : 166.24 g/mole



LT-S9389

n-Butylammonium thiocyanate

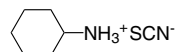
CAS No. : 25162-84-9
 Grade : > 99%
 Formula : $C_5H_{12}N_2S$
 M.W. : 132.23 g/mole



LT-S9390

Cyclohexylammonium thiocyanate

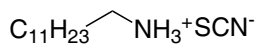
CAS No. : 96943-17-8
 Grade : > 99%
 Formula : $C_7H_{14}N_2S$
 M.W. : 158.26 g/mole



LT-S9391

n-Dodecylammonium thiocyanate

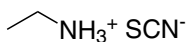
CAS No. : 22031-31-8
 Grade : > 99%
 Formula : $C_{13}H_{28}N_2S$
 M.W. : 244.44 g/mole



LT-S9392

Ethylammonium thiocyanate

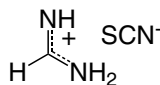
CAS No. : 25153-19-9
 Grade : > 99%
 Formula : $C_3H_8N_2S$
 M.W. : 104.17 g/mole



LT-S9393

Formamidinium thiocyanate

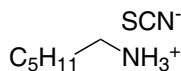
CAS No. : 1821033-48-0
 Grade : > 99%
 Formula : CH_5N_3S
 M.W. : 103.15 g/mole



LT-S9394

n-Hexylammonium thiocyanate

CAS No. : 25162-85-0
 Grade : > 99%
 Formula : $C_7H_{16}N_2S$
 M.W. : 160.28 g/mole



LT-S9395

Methylammonium thiocyanate

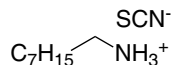
CAS No. : 61540-63-4
 Grade : > 99%
 Formula : $C_2H_6N_2S$
 M.W. : 90.15 g/mole



LT-S9396

n-Octylammonium thiocyanate

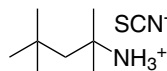
CAS No. : 25162-86-1
 Grade : > 99%
 Formula : $C_9H_{20}N_2S$
 M.W. : 188.33 g/mole



LT-S9397

tert-Octylammonium thiocyanate

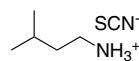
CAS No. : 41115-58-6
 Grade : > 99%
 Formula : $C_9H_{20}N_2S$
 M.W. : 188.33 g/mole



LT-S9398

iso-Pentylammonium thiocyanate

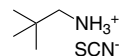
Grade : > 99%
 Formula : $C_6H_{14}N_2S$
 M.W. : 146.25 g/mole



LT-S9399

neo-Pentylammonium thiocyanate

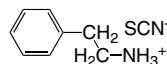
CAS No. : 61540-71-4
 Grade : > 99%
 Formula : $C_6H_{14}N_2S$
 M.W. : 146.25 g/mole



LT-S9400

Phenethylammonium thiocyanate

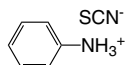
Grade : > 99%
 Formula : $C_9H_{12}N_2S$
 M.W. : 180.27 g/mole



LT-S9401

Phenylammonium thiocyanate

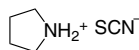
CAS No. : 27248-14-2
 Grade : > 99%
 Formula : $C_7H_8N_2S$
 M.W. : 152.22 g/mole



LT-S9402

Pyrrolidinium thiocyanate

CAS No. : 217309-80-3
 Grade : > 99%
 Formula : $C_5H_{10}N_2S$
 M.W. : 130.21 g/mole



LT-S9403

5-Azasp[4.4]nonan-5-ium hexafluorophosphate

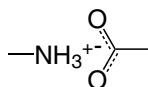
CAS No. : 129211-50-3
 Grade : > 99%
 Formula : $C_8H_{16}F_6NP$
 M.W. : 271.18 g/mole



LT-S9404

Methylammonium acetate

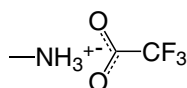
CAS No. : 6998-30-7
 Grade : > 99%
 Formula : $C_3H_9NO_2$
 M.W. : 91.11 g/mole



LT-S9405

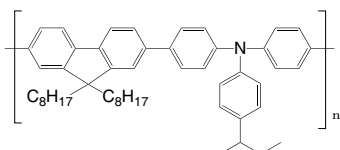
Methylammonium trifluoroacetate

CAS No. : 107326-29-4
 Grade : > 99%
 Formula : $C_3H_7F_3NO_2$
 M.W. : 146.09 g/mole

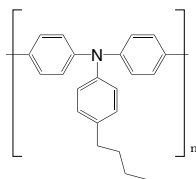


LT-N148 | TFBPoly[(9,9-dioctylfluorenyl-2,7-diyl)-*co*-(4,4'-(*N*-(4-*sec*-butylphenyl)diphenylamine)]

CAS No. : 220797-16-0
 Grade : Mw > 30,000 (GPC)
 Formula : (C₅₁H₆₁N)_n
 UV : 389 nm (in CH₂Cl₂)
 PL : 443 nm (in CH₂Cl₂)
 Solubility : Soluble in CH₂Cl₂, Toluene, CHCl₃

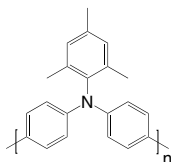
**LT-N149** | Poly-TPDPoly[*N,N'*-bis(4-butylphenyl)-*N,N'*-bis(phenyl)-benzidine]

CAS No. : 472960-35-3
 Grade : Mw = 20,000~200,000 (GPC)
 Formula : (C₂₂H₂₁N)_n
 UV : 371, 388 nm (in CH₂Cl₂)
 PL : 424 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene

**LT-N168** | PTAA

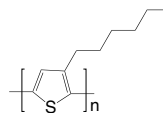
Poly[bis(4-phenyl)(2,4,6-trimethylphenyl)amine]

CAS No. : 1333317-99-9
 Grade : Mw = 20,000~100,000 (GPC)
 Formula : (C₂₁H₁₉N)_n
 UV : 371, 388 nm (in CH₂Cl₂)
 PL : 424 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene

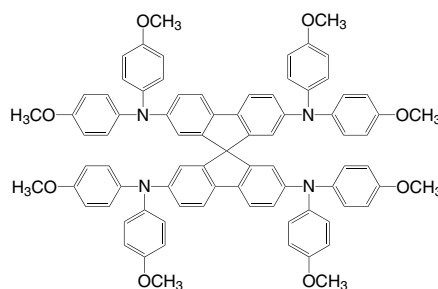
**LT-S909** | P3HT

Poly(3-hexylthiophene-2,5-diyl)

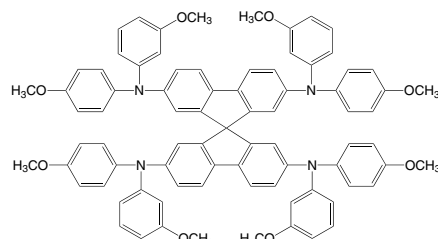
CAS No. : 104934-50-1
 Grade : Mw > 45,000 (GPC)
 Electronic Grade : Regio Regular > 93%
 Formula : (C₁₀H₁₄S)_n
 UV : 445 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene

**LT-S922** | Spiro-MeOTAD2,2',7,7'-Tetrakis(*N,N*-di-*p*-methoxyphenylamino)-9,9'-spirobifluorene

CAS No. : 207739-72-8
 Grade : > 99.5% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 M.W. : 1225.43 g/mole
 UV : 306, 385 nm (in CH₂Cl₂)
 PL : 429 nm (in CH₂Cl₂)
 TGA : > 360 °C (0.5% weight loss)

**LT-S9145** | p,m-Spiro-MeOTAD*N,N'*,*N'',N'''*-Tetrakis(3-methoxyphenyl)-*N,N'*,*N'',N'''*-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

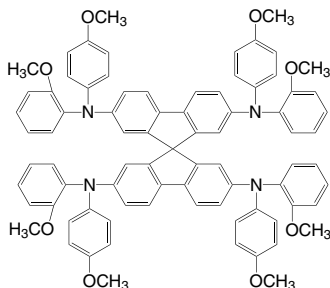
CAS No. : 1573202-44-4
 Grade : > 99% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 M.W. : 1225.43 g/mole
 UV : 308, 378 nm (in CH₂Cl₂)
 PL : 414 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)



LT-S9146 | p,o-Spiro-MeOTAD

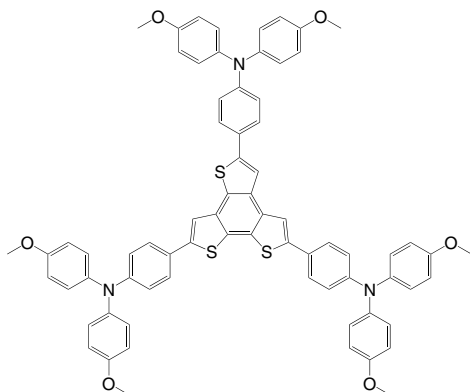
*N*²,*N*^{2'},*N*^{2''},*N*^{2'''}-Tetrakis(2-methoxyphenyl)-*N*²,*N*^{2'},*N*^{2''},*N*^{2'''}-tetrakis(4-methoxyphenyl)-9,9'-spirobi[fluorene]-2,2',7,7'-tetraamine

CAS No. : 1628961-22-7
 Grade : > 98.5% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 M.W. : 1225.43 g/mole
 UV : 316, 375 nm (in CH₂Cl₂)
 PL : 418 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)

**LT-S9276** | BTT-4

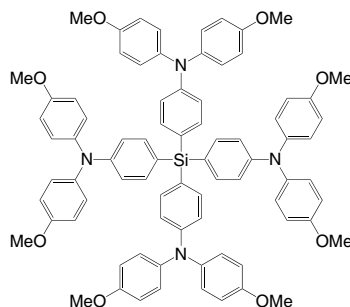
2,5,8-Tris(4-(bis(4-methoxyphenyl)amino)phenyl)benzotrithiophene

CAS No. : 1908506-93-3
 Formula : C₇₂H₅₇N₃O₆S₃
 M.W. : 1156.43 g/mole

**LT-S9290** | Si-OMeTPA

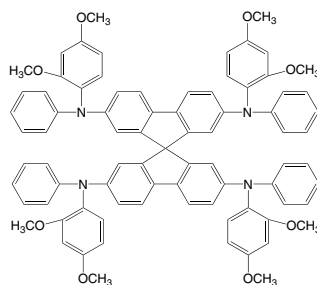
4,4',4'',4'''-Silane-tetrayl-tetrakis(N,N-bis(4-methoxyphenyl)aniline)

Grade : > 99% (HPLC)
 Formula : C₈₀H₇₂N₄O₈Si
 M.W. : 1245.54 g/mole
 HOMO : -5.39 eV
 LUMO : -1.96 eV

**LT-S9437** | 2,4-spiro-OMeTAD

*N*²,*N*^{2'},*N*^{2''},*N*^{2'''}-Tetrakis(2,4-dimethoxyphenyl)-*N*²,*N*^{2'},*N*^{2''},*N*^{2'''}-tetraphenyl-9,9'-spirobi[fluorene]-2,2',7,7'-tetraamine

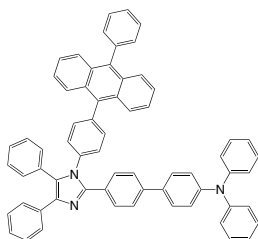
CAS No. : 2102348-92-3
 Grade : > 99% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 M.W. : 1225.43 g/mole
 HOMO : -5.24 eV
 LUMO : -2.08 eV



LT-S9446 | PTN

N,N-Diphenyl-[1,1'-biphenyl]-4-amine-4'-[4,5-diphenyl-1-[4-(10-phenyl-9-4'-[4,5-diphenyl-1-[4-(10-phenyl-9-anthracenyl)phenyl]-1*H*-imidazol-2-yl]

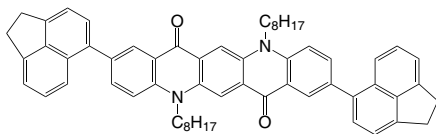
CAS No. : 2252254-01-4
 Grade : Sublimed, > 99%
 Formula : $C_{65}H_{45}N_3$
 M.W. : 868.07 g/mole
 PCE : 11.13 %



LT-S9484 | ACE-QA-ACE

2,9-Bis(1,2-dihydroacenaphthylen-5-yl)-5,12-dioctyl-5,12-dihydroquinolino[2,3-*b*]acridine-7,14-dione

Grade : > 99% (HPLC)
 Formula : $C_{60}H_{60}N_2O_2$
 M.W. : 841.13 g/mole
 UV : 301 nm (in $CHCl_3$)
 PL : 558 nm
 HOMO : -5.59 eV
 LUMO : -3.47 eV



LT-PS001 | PEDOT:PSS

Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)

Specification

Description : Aqueous dispersion, blue liquid.
 Sodium : Max. 400 ppm
 Sulfate : Max. 40 ppm
 Solid content: 1.3 - 1.7 wt%
 PSD d50 : 80 nm
 PSD d90 : 100 nm
 Resistivity : 500-5000 Ω cm
 Viscosity : 5-12 mPas

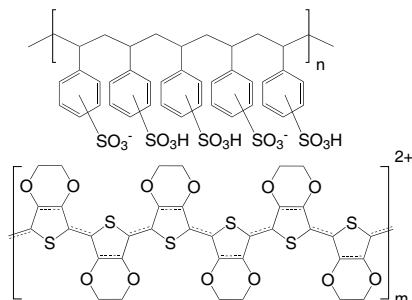
Technical Data (guide values, not a specification)

Form : liquid
 Odour : odourless
 Colour : dark blue
 PEDOT:PSS ratio : 1:6 (by weight)
 PEDOT work function : approx 5.2 eV
 pH : 1.2 - 2.2 at 20°C
 Boiling Point : approx 100°C

Storage:

The product is sensitive to frost and should therefore not be stored at temperatures below 5°C.

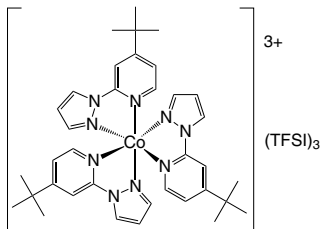
Avoid freezing!



LT-S9127 | FK209 Co(III) TFSI Salt

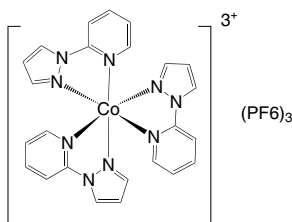
Tris(2-(1*H*-pyrazol-1-yl)-4-*tert*-butylpyridine)-cobalt(III)
tris(bis(trifluoromethylsulfonyl)imide)

CAS No. : 1447938-61-5
Grade : > 99% (NMR)
Formula : $C_{42}H_{45}CoF_{18}N_{12}O_{12}S_6$
M.W. : 1503.18 g/mole
UV : 227, 287 nm (in Acetonitrile)

**LT-S9135** | FK102 Co(III) PF6 Salt

Tris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(III)
tris(hexafluorophosphate)

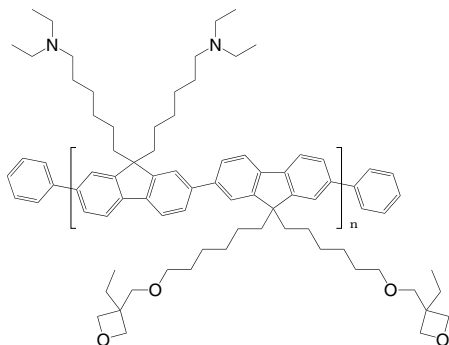
CAS No. : 1346416-70-3
Grade : > 99% (NMR)
Formula : $C_{24}H_{21}CoF_{18}N_9P_3$
UV : 929.31 g/mole
PL : 215, 292 nm (in Acetonitrile)



LT-N177 | PFN-OX

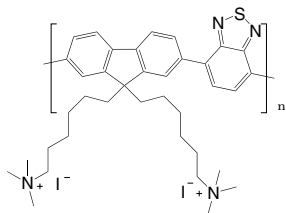
Poly(2,7-[9,9-bis(6'-(N,N-diethylamino)hexyl)fluorene]-*alt*-2,7-[9,9-bis(6-((3-ethyloxetan-3-yl)methoxy)hexyl)fluorene])

CAS No. : 1345045-27-3
 Formula : $(C_{70}H_{102}N_2O_4)_n C_{12}H_{10}$
 UV : 378 ± 10 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$

**LT-N181** | PFNIBT

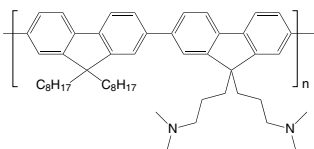
Poly(9,9-bis(6-trimethylammoniumiodide)-hexylfluorene-2,7-diyl-*alt*-(benzo[2,1,3]thiadiazol-4,7-diyl))

Grade : Mw > 10,000 (GPC)
 Formula : $(C_{37}H_{50}I_2N_4S)_n$
 UV : 317, 448 nm (in DMSO)
 Solubility : Soluble in MeOH

**LT-N4027** | PFN-DOF

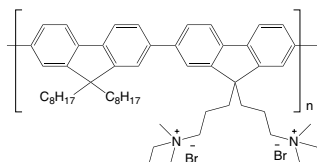
Poly[(9,9-bis(3'-(N,N-dimethylamino)propyl)-2,7-fluorene)-*alt*-2,7-(9,9-dioctylfluorene)]

CAS No. : 673474-75-4
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{52}H_{70}N_2)_n$
 UV : 378 nm (in CH_2Cl_2)
 PL : 414 nm (in CH_2Cl_2)
 Solubility : Soluble in CH_2Cl_2 , $CHCl_3$, Toluene

**LT-N878** | PFNBr

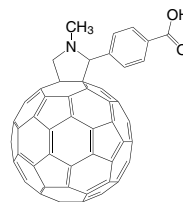
Poly[(9,9-bis(3'-(N,N-dimethyl)-N-ethylammonium)-propyl)-2,7-fluorene]-*alt*-2,7-(9,9-dioctylfluorene)]dibromide

CAS No. : 889672-99-5
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{56}H_{80}N_2Br_2)_n$
 UV : 375 nm (in MeOH)
 PL : 440 nm (in MeOH)
 Solubility : Soluble in MeOH

**LT-S9161** | C₆₀-COOH-SAM

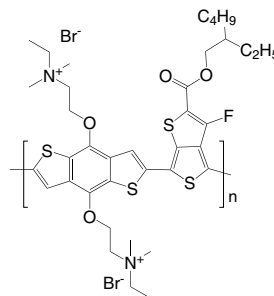
4-(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno-C₆₀-1h-[1,9-c]pyrrol-2'-yl)benzoic acid

CAS No. : 631918-72-4
 Grade : > 99%
 Formula : $C_{70}H_{11}NO_2$
 M.W. : 897.84 g/mole
 UV : 345 nm (in CH_2Cl_2)

**LT-S9274** | PTB7-NBr

Poly[4,8-bis{[(N,N-dimethyl)-N-ethylammonium]propyloxy}benzo[1,2-b:4,5-b']dithiophene-2,6-diyl-*alt*-3-fluoro-2-[(2-ethylhexyl)carbonyl]thieno[3,4-b]thiophene-4,6-diyl]

CAS No. : 2092936-05-3
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{37}H_{51}Br_2FN_2O_4S_4)_n$



LT-S9479 | PDINO

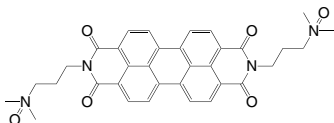
2,9-Bis[3-(dimethyloxidoamino)propyl]anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone

CAS No. : 1558023-86-1

Grade : > 98%

HOMO : -6.21 eV

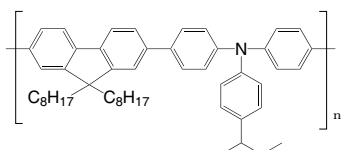
LUMO : -3.63 eV



LT-N148 | TFB

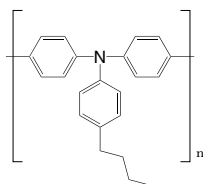
Poly[(9,9-dioctylfluorenyl-2,7-diyl)-co-(4,4'-(N-(4-sec-butylphenyl) diphenylamine)]

CAS No. : 220797-16-0
 Grade : Mw > 30,000 (GPC)
 Formula : (C₅₁H₆₁N)_n
 UV : 389 nm (in CH₂Cl₂)
 PL : 443 nm (in CH₂Cl₂)
 Solubility : Soluble in CH₂Cl₂, Toluene, CHCl₃

**LT-N149** | Poly-TPD

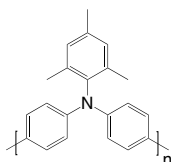
Poly[N,N'-bis(4-butylphenyl)-N,N'-bis(phenyl)-benzidine]

CAS No. : 472960-35-3
 Grade : Mw = 20,000~200,000 (GPC)
 Formula : (C₂₂H₂₁N)_n
 UV : 371, 388 nm (in CH₂Cl₂)
 PL : 424 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene

**LT-N168** | PTAA

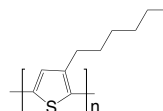
Poly[bis(4-phenyl)(2,4,6-trimethylphenyl)amine]

CAS No. : 1333317-99-9
 Grade : Mw = 20,000~100,000 (GPC)
 Formula : (C₂₁H₁₉N)_n
 UV : 371, 388 nm (in CH₂Cl₂)
 PL : 424 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene

**LT-S909** | P3HT

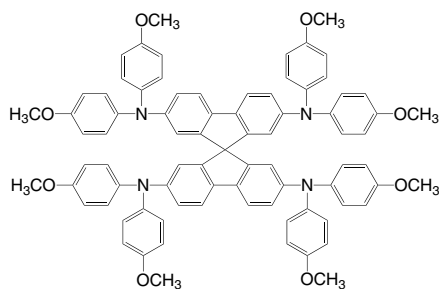
Poly(3-hexylthiophene-2,5-diyl)

CAS No. : 104934-50-1
 Grade : Mw > 45,000 (GPC)
 Electronic Grade : Regio Regular > 93%
 Formula : (C₁₀H₁₄S)_n
 UV : 445 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene

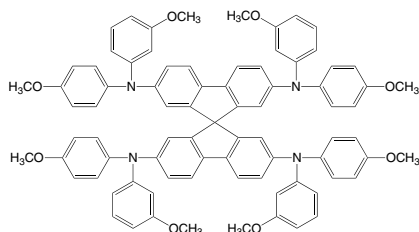
**LT-S922** | Spiro-MeOTAD

2,2',7,7'-Tetrakis(N,N-di-p-methoxyphenylamino)-9,9'-spirobifluorene

CAS No. : 207739-72-8
 Grade : > 99.5% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 UV : 306, 385 nm (in CH₂Cl₂)
 PL : 429 nm (in CH₂Cl₂)

**LT-S9145** | p,m-Spiro-MeOTADN²,N^{2'},N⁷,N^{7'}-Tetrakis(3-methoxyphenyl)-N²,N^{2'},N⁷,N^{7'}-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

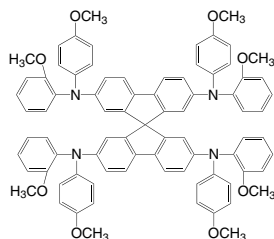
CAS No. : 1573202-44-4
 Grade : > 99% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 UV : 308, 378 nm (in CH₂Cl₂)
 PL : 414 nm (in CH₂Cl₂)



LT-S9146 | p,o-Spiro-MeOTAD

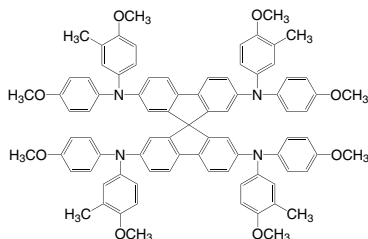
*N*²,*N*^{2'},*N*⁷,*N*^{7'}-Tetrakis(2-methoxyphenyl)-*N*²,*N*^{2'},*N*⁷,*N*^{7'}-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

CAS No. : 1628961-22-7
 Grade : > 98.5% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 UV : 316, 375 nm (in CH₂Cl₂)
 PL : 418 nm (in CH₂Cl₂)

**LT-S9170** | Spiro-MeOTAD-HTM1

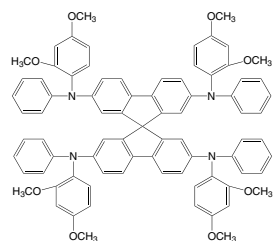
2,2',7,7'-Tetrakis(4,4'-dimethoxy-3-methylidiphenylamino)-9,9'-spirobifluorene

CAS No. : 1573202-31-9
 Grade : > 99% (HPLC)
 Formula : C₈₅H₇₆N₄O₈
 UV : 306, 385 nm (in CH₂Cl₂)
 PL : 429 nm (in CH₂Cl₂)

**LT-S9437** | 2,4-spiro-OMeTAD

*N*²,*N*^{2'},*N*⁷,*N*^{7'}-Tetrakis(2,4-dimethoxyphenyl)-*N*²,*N*^{2'},*N*⁷,*N*^{7'}-tetraphenyl-9,9'-spirobifluorene-2,2',7,7'-tetraamine

CAS No. : 2102348-92-3
 Grade : > 99% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 HOMO : -5.24 eV
 LUMO : -2.08 eV

**LT-PS001** | PEDOT: PSS

Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)

Specification

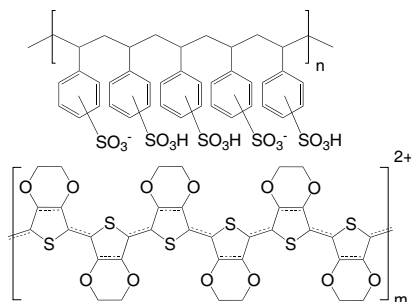
Description : Aqueous dispersion, blue liquid.
 Sodium : Max. 400 ppm
 Sulfate : Max. 40 ppm
 Solid content: 1.3 - 1.7 wt%
 PSD d50 : 80 nm
 PSD d90 : 100 nm
 Resistivity : 500-5000 Ωcm
 Viscosity : 5-12 mPas

Technical Data (guide values, not a specification)

Form : liquid
 Odour : odourless
 Colour : dark blue
 PEDOT:PSS ratio: 1:6 (by weight)
 PEDOT work function: approx 5.2 eV
 pH : 1.2 - 2.2 at 20°C
 Boiling Point : approx 100°C

Storage:

The product is sensitive to frost and should therefore not be stored at temperatures below 5°C.
 Avoid freezing!

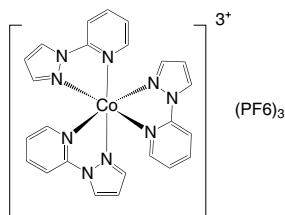


Redox Couple Electrolytes

LT-S9135 | FK102 Co(III) PF₆_Salt

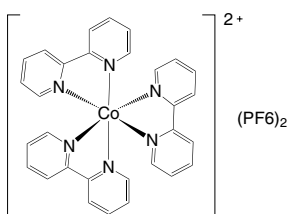
Tris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(III)
tris(hexafluorophosphate)

CAS No. : 1346416-70-3
Grade : > 99% (NMR)
Formula : C₂₄H₂₁CoF₁₈N₉P₃
M.W. : 1169.43 g/mole

**LT-S9183** | Co(II)(bpy)₃(PF₆)₂

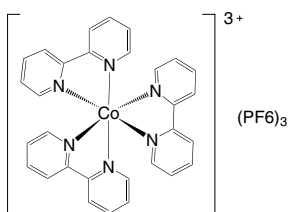
Tris-(2,2'-bipyridine)cobalt(II) bis(hexafluorophosphate)

CAS No. : 79151-78-3
Grade : > 99% (NMR)
Formula : C₃₀H₂₄CoF₁₂N₆P₂
M.W. : 817.41 g/mole

**LT-S9184** | Co(III) (bpy)₃(PF₆)₃

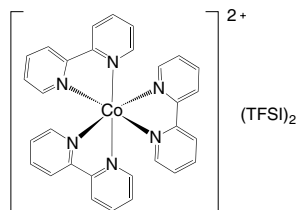
Tris-(2,2'-bipyridine)cobalt(III) tris(hexafluorophosphate)

CAS No. : 28277-53-4
Grade : > 99% (NMR)
Formula : C₃₀H₂₄CoF₁₈N₆P₃
M.W. : 962.38 g/mole

**LT-S9185** | Co(II)(bpy)₃(TFSI)₂

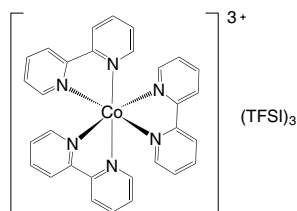
Tris-(2,2'-bipyridine)cobalt(II) bis(trifluoromethanesulfonimide)

CAS No. : 1353745-90-0
Grade : > 99% (NMR)
Formula : C₃₄H₂₄CoF₁₂N₈O₈S₄
M.W. : 1087.78 g/mole

**LT-S9186** | Co(III)(bpy)₃(TFSI)₃

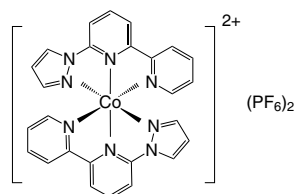
Tris-(2,2'-bipyridine)cobalt(III) tris(trifluoromethanesulfonimide)

CAS No. : 1353745-91-1
Grade : > 99% (NMR)
Formula : C₃₆H₂₄CoF₁₈N₉O₁₂S₆
M.W. : 1367.92 g/mole

**LT-S9187** | Co(II)(bpy-pz)₂(PF₆)₂

Bis(6-(1*H*-pyrazol-1-yl)-2,2'-bipyridine)cobalt(II)
bis(hexafluorophosphate), mixture of stereoisomers

CAS No. : 312322-08-0
Grade : > 99% (NMR)
Formula : C₂₆H₂₀CoF₁₂N₈P₂
M.W. : 793.35 g/mole

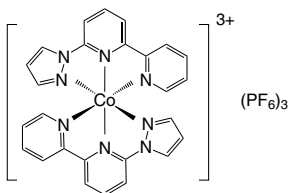


Redox Couple Electrolytes

LT-S9188 | $\text{Co(III)(bpy-pz)}_2(\text{PF}_6)_3$

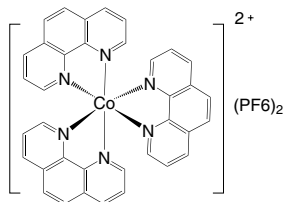
Bis(6-(1H-pyrazol-1-yl)-2,2'-bipyridine)cobalt(III)
tris(hexafluorophosphate), mixture of stereoisomers

CAS No. : 1346417-60-4
Grade : > 99% (NMR)
Formula : $\text{C}_{26}\text{H}_{20}\text{CoF}_{18}\text{N}_8\text{P}_3$
M.W. : 938.32 g/mole

**LT-S9191** | $\text{Co(II)(phen)}_3(\text{PF}_6)_2$

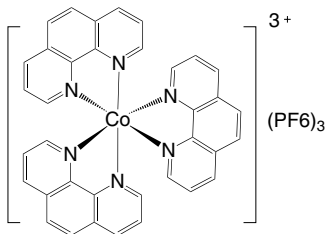
Tris(1,10-phenanthroline)cobalt(II) bis(hexafluorophosphate)

CAS No. : 31876-74-1
Grade : > 99% (NMR)
Formula : $\text{C}_{36}\text{H}_{24}\text{CoF}_{12}\text{N}_6\text{P}_2$
M.W. : 889.48 g/mole

**LT-S9192** | $\text{Co(III)(phen)}_3(\text{PF}_6)_3$

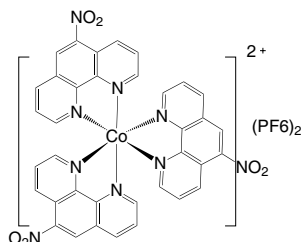
Tris(1,10-phenanthroline)cobalt(III) tris(hexafluorophosphate)

CAS No. : 28277-59-0
Grade : > 99% (NMR)
Formula : $\text{C}_{36}\text{H}_{24}\text{CoF}_{18}\text{N}_6\text{P}_3$
M.W. : 1034.44 g/mole

**LT-S9193** | $\text{Co(II)(NO}_2\text{-phen)}_3(\text{PF}_6)_2$

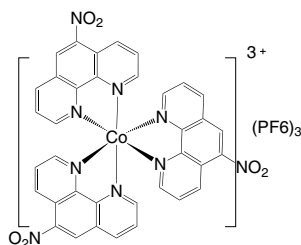
Tris(5-nitro-1,10-phenanthroline)cobalt(II)
bis(hexafluorophosphate)

Grade : > 99% (NMR)
Formula : $\text{C}_{36}\text{H}_{21}\text{CoF}_{12}\text{N}_9\text{O}_6\text{P}_2$
M.W. : 1024.47 g/mole

**LT-S9194** | $\text{Co(III)(NO}_2\text{-phen)}_3(\text{PF}_6)_3$

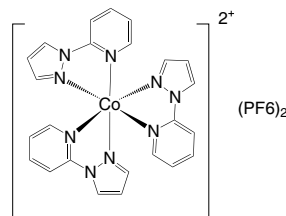
Tris(5-nitro-1,10-phenanthroline)cobalt(III)
tris(hexafluorophosphate)

Grade : > 99% (NMR)
Formula : $\text{C}_{36}\text{H}_{21}\text{CoF}_{18}\text{N}_9\text{O}_6\text{P}_3$
M.W. : 1169.43 g/mole

**LT-S9195** | FK102 Co(II) PF6 salt

Tris(1-(pyridin-2-yl)-1H-pyrazol)cobalt(II)
bis(hexafluorophosphate)

CAS No. : 1392221-69-0
Grade : > 99% (NMR)
Formula : $\text{C}_{24}\text{H}_{21}\text{CoF}_{12}\text{N}_9\text{P}_2$
M.W. : 784.35 g/mole

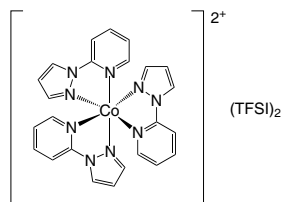


Redox Couple Electrolytes

LT-S9406 | FK 102 Co(II) TFSI Salt

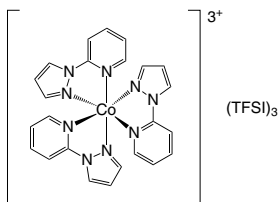
Tris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(II)
bis(trifluoromethanesulfonimide)

Grade : > 99% (NMR)
Formula : $C_{28}H_{21}CoN_{11}O_8S_4F_{12}$
M.W. : 1054.72 g/mole

**LT-S9407** | FK 102 Co(III) TFSI Salt

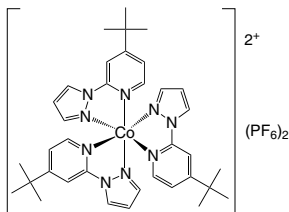
Tris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(III)
tris(trifluoromethanesulfonimide)

Grade : > 99% (NMR)
Formula : $C_{30}H_{21}CoN_{12}O_{12}S_6F_{18}$
M.W. : 1334.87 g/mole

**LT-S9408** | FK 209 Co(II) PF6 salt

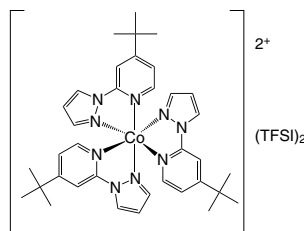
Tris[4-(tert-butyl)-2-(1*H*-pyrazol-1-yl)pyridine]cobalt(II)
bis(hexafluorophosphate)

Grade : > 99% (NMR)
Formula : $C_{36}H_{45}CoN_9P_2F_{12}$
M.W. : 952.68 g/mole

**LT-S9409** | FK 209 Co(II) TFSI salt

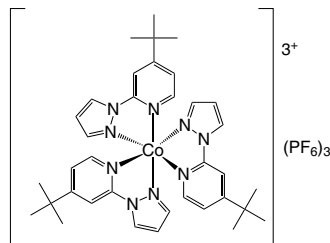
Tris[4-(tert-butyl)-2-(1*H*-pyrazol-1-yl)pyridine]cobalt(II)
bis(trifluoromethanesulfonimide)

Grade : > 99% (NMR)
Formula : $C_{40}H_{45}CoN_{11}O_8S_4F_{12}$
M.W. : 1223.02 g/mole

**LT-S9410** | FK 209 Co(III) PF6 salt

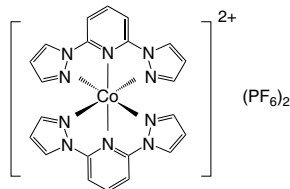
Tris[4-(tert-butyl)-2-(1*H*-pyrazol-1-yl)pyridine]cobalt(III)
tris(hexafluorophosphate)

Grade : > 99% (NMR)
Formula : $C_{36}H_{45}CoN_9P_3F_{18}$
M.W. : 1097.64 g/mole

**LT-S9412** | FK 269 Co(II) PF6 salt

Bis[2,6-di(1*H*-pyrazol-1-yl)pyridine]cobalt(II)
bis(hexafluorophosphate)

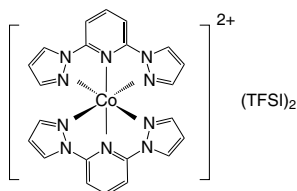
Grade : > 99% (NMR)
Formula : $C_{22}H_{18}CoN_{10}P_2F_{12}$
M.W. : 771.31 g/mole



LT-S9413 | FK 269 Co(II) TFSI salt

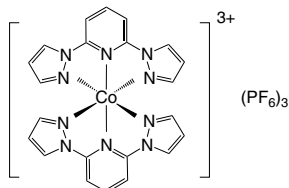
Bis[2,6-di(1*H*-pyrazol-1-yl)pyridine]cobalt(II)
bis(trifluoromethanesulfonimide)

Grade : > 99% (NMR)
Formula : $C_{26}H_{18}CoN_{12}O_8S_4F_{12}$
M.W. : 1041.67 g/mole

**LT-S9414** | FK 269 Co(III) PF6 salt

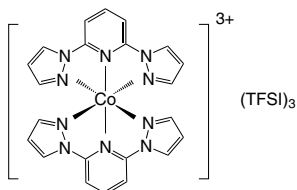
Bis[2,6-di(1*H*-pyrazol-1-yl)pyridine]cobalt(III)
tris(hexafluorophosphate)

Grade : > 99% (NMR)
Formula : $C_{22}H_{18}CoN_{10}P_3F_{18}$
M.W. : 916.27 g/mole

**LT-S9415** | FK 269 Co(III) TFSI salt

Bis[2,6-di(1*H*-pyrazol-1-yl)pyridine]cobalt(III)
tris(trifluoromethanesulfonimide)

Grade : > 99% (NMR)
Formula : $C_{26}H_{18}CoN_{13}O_{12}S_6F_{18}$
M.W. : 1321.83 g/mole

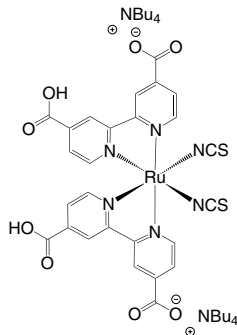


Dye-sensitized

LT-S945 | N719

Di-tetrabutylammonium *cis*-bis(isothiocyanato)bis(2,2'-bipyridyl-4,4'-dicarboxylato)ruthenium(II)

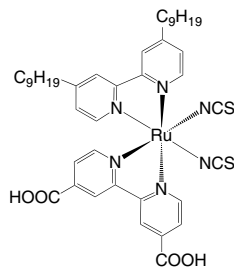
CAS No. : 207347-46-4
 Grade : > 98% (HPLC)
 Formula : $C_{58}H_{86}N_8O_8RuS_2$
 M.W. : 1188.55 g/mole
 UV : 313, 534 nm (in EtOH)



LT-S964 | Z-907

cis-Bis(isothiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylato)(4,4'-di-nonyl-2'-bipyridyl)ruthenium(II)

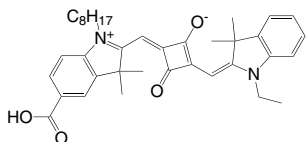
CAS No. : 502693-09-6
 Grade : > 98% (HPLC)
 Formula : $C_{42}H_{52}N_6O_4RuS_2$
 M.W. : 870.10 g/mole
 UV : 295, 531 nm (in EtOH)



LT-S9037 | SQ01

(*E*)-4-((5-Carboxy-3,3-dimethyl-1-octyl-3*H*-indolium-2-yl)-methylene)-2-((*E*)-(1-ethyl-3,3-dimethylindolin-2-ylidene)-methyl)-3-oxocyclobut-1-enolate

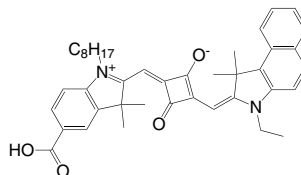
CAS No. : 951248-19-4
 Grade : > 99% (HPLC)
 Formula : $C_{37}H_{44}N_2O_4$
 M.W. : 580.67 g/mole
 UV : 637 nm (in DMF)
 TGA : > 220 °C (0.5% weight loss)



LT-S9038 | SQ02

(*E*)-4-((5-Carboxy-3,3-dimethyl-1-octyl-3*H*-indolium-2-yl)-methylene)-2-((*E*)-(3-ethyl-1,1-dimethyl-1*H*-benzo[e]indol-2(3*H*)-ylidene)methyl)-3-oxocyclobut-1-enolate

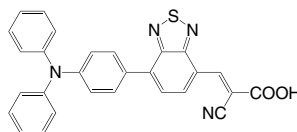
CAS No. : 1240041-84-2
 Grade : > 99% (HPLC)
 Formula : $C_{41}H_{46}N_2O_4$
 M.W. : 630.81 g/mole
 UV : 662 nm (in DMF)
 TGA : > 250 °C (0.5% weight loss)



LT-S9068 | RL-1

2-Cyano-3-(7-(4-(diphenylamino)phenyl)-benzo[c][1,2,5]-thiadiazol-4-yl)acrylic acid

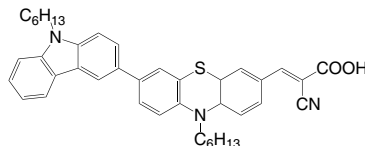
CAS No. : 1415134-59-6
 Grade : > 99% (NMR)
 Formula : $C_{28}H_{18}N_4O_2S$
 UV : 324, 486 nm (in THF)
 TGA : > 240 °C (0.5% weight loss)



LT-S9120 | PTCbCA

(*E*)-2-Cyano-3-(10-hexyl-7-(9-hexyl-9*H*-carbazol-3-yl)-10*H*-phenothiazin-3-yl)acrylic acid

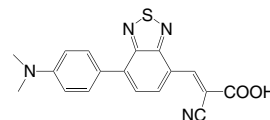
CAS No. : 1347758-70-6
 Grade : > 99% (NMR)
 Formula : $C_{40}H_{41}N_3O_2S$
 M.W. : 627.84 g/mole



LT-S9121 | CDMA-PBTCA

2-Cyano-3-(7-(4-(dimethylamino)phenyl)-benzo[c][1,2,5]-thiadiazol-4-yl)acrylic acid

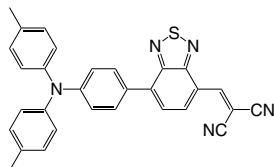
Grade : > 99% (NMR)
 Formula : $C_{18}H_{14}N_4O_2S$
 M.W. : 350.39 g/mole



LT-S9122 | DTDCPB

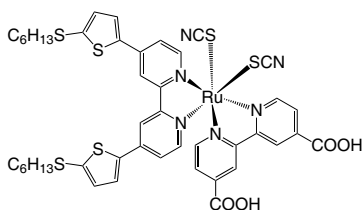
2-((7-(4-(Di-p-tolylamino)phenyl)benzo[c][1,2,5]thiadiazol-4-yl)methylene)malononitrile

CAS No. : 1393343-58-2
 Grade : > 99% (NMR)
 Formula : $C_{30}H_{21}N_5S$
 M.W. : 483.59 g/mole
 UV : 306, 568 nm (in CH_2Cl_2)

**LT-S9416** | C106 Dye

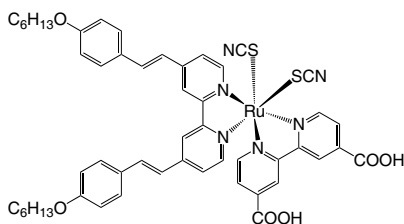
cis-Bis(isothiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylato)-(4,4'-bis(5-(hexylthio)thiophen-2-yl)-2,2'-bipyridyl)-ruthenium(II)

CAS No. : 1152310-69-4
 Formula : $C_{44}H_{44}N_6O_4RuS_6$
 M.W. : 1014.32 g/mole

**LT-S9417** | K19 Dye

cis-Bis(thiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylic acid)-(4,4'-bis(phenoxyloxy)styryl)-2,2'-bipyridine)ruthenium(II)

CAS No. : 847665-45-6
 Formula : $C_{52}H_{52}N_6O_6RuS_2$
 M.W. : 1022.21 g/mole

**LT-S9418** | N749 Black Dye

Tris(tetrabutylammonium)-tris(isothiocyanato)(2,2':6',6''-terpyridyl-4,4',4''-tricarboxylato)ruthenium(II)

CAS No. : 359415-47-7
 Formula : $C_{69}H_{117}N_9O_6RuS_3$
 M.W. : 1364.98 g/mole

