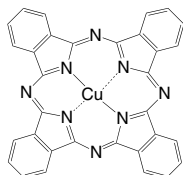


LT-E201 | CuPC

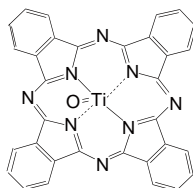
Copper(II) phthalocyanine

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 ₂ Cl ₂)
PL	: 404 nm (film)
TGA	: >430°C (0.5% weight loss)

**LT-E206** | TiOPC

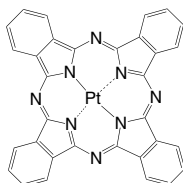
Titanium oxide phthalocyanine

CAS No.	: 26201-32-1
Grade	: Sublimed >99%
Formula	: C ₃₂ H ₁₆ N ₈ O ₂ Ti
M.W.	: 576.39 g/mole
UV	: 349,692 nm (in CH ₂ Cl ₂)
PL	: 392 nm (film)
TGA	: >440°C (0.5% weight loss)

**LT-N219** | PtPC

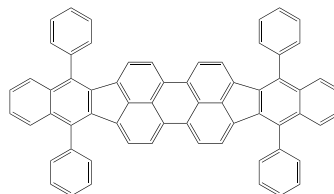
Phthalocyanine platinum

CAS No.	: 14075-08-2
Grade	: Sublimed >99% (TGA)
Formula	: C ₃₂ H ₁₆ N ₈ Pt
M.W.	: 707.6 g/mole
UV	: 228, 270 nm (in CH ₂ Cl ₂)
PL	: 372.5 nm (in CH ₂ Cl ₂)
TGA	: >460 °C (0.5% weight loss)

**LT-N4003** | DBP

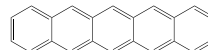
Dibenzo[[f,f']-4,4',7,7'-tetraphenyl]diindeno[1,2,3-cd:1',2',3'-lm]perylene

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)

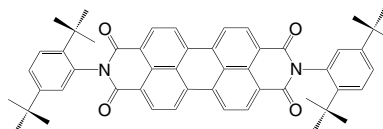
**LT-S901** | Pentacene

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 ₂ Cl ₂)
PL	: 509 nm (in CH ₂ Cl ₂)
TGA	: >290 °C (0.5% weight loss)

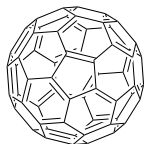
**LT-S902** | PDCDT*N,N'*-Bis(2,5-di-*tert*-butylphenyl)-3,4,9,10-perylene dicarboximide

CAS No.	: 83054-80-2
Grade	: Sublimed >99%
Formula	: C ₅₂ H ₅₀ N ₂ O ₄
M.W.	: 766.96 g/mole
UV	: 524 nm (in CH ₂ Cl ₂)
PL	: 544, 574 nm (in CH ₂ Cl ₂)
TGA	: >350 °C (0.5% weight loss)



LT-S903 | C₆₀Fullerene-C₆₀

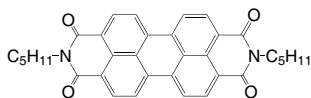
CAS No.	: 99685-96-8
Grade	: >99.5% (HPLC)
Formula	: C ₆₀
M.W.	: 720.64 g/mole
UV	: 251 nm (in CH ₂ Cl ₂)
TGA	: >450 °C (0.5% weight loss)



LT-S904 | PenPTC

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

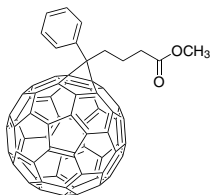
CAS No.	: 76372-75-3
Grade	: Sublimed >99%
Formula	: C ₃₄ H ₃₀ N ₂ O ₄
M.W.	: 530.61 g/mole
UV	: 523 nm (in CH ₂ Cl ₂)
PL	: 535, 573 nm (in CH ₂ Cl ₂)
TGA	: >350 °C (0.5% weight loss)



LT-S905 | PCBM

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

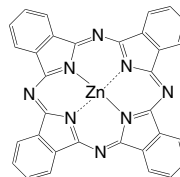
CAS No.	: 160848-22-6
Grade	: >99.5% (HPLC)
Formula	: C ₇₂ H ₁₄ O ₂
M.W.	: 910.88 g/mole
UV	: 258, 328 nm (in THF)



LT-S906 | ZnPC

Zinc phthalocyanine

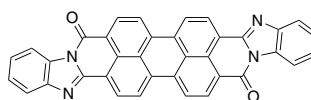
CAS No.	: 14320-04-8
Grade	: Sublimed >99%
Formula	: C ₃₂ H ₁₆ N ₈ Zn
M.W.	: 577.92 g/mole
PL	: 534 nm (in CH ₂ Cl ₂)



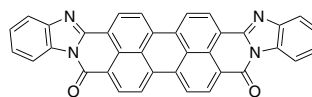
LT-S918 | PTCBI

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	: C ₃₆ H ₁₆ N ₄ O ₂
M.W.	: 536.54 g/mole
PL	: 414 nm (in CH ₂ Cl ₂)
TGA	: >420 °C (0.5% weight loss)



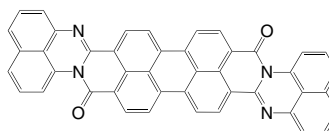
+



LT-S919 | ADIDI

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

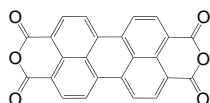
CAS No.	: 6859-32-1
Grade	: Sublimed >99%
Formula	: C ₄₄ H ₂₀ N ₄ O ₂
M.W.	: 636.66 g/mole
PL	: 413 nm (in CH ₂ Cl ₂)
TGA	: >430 °C (0.5% weight loss)



LT-S920 | PTCDA

3,4,9,10-Perylenetetracarboxylic dianhydride

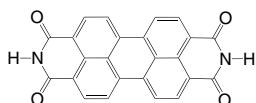
CAS No. : 128-69-8
 Grade : Sublimed >99%
 Formula : $C_{24}H_8O_6$
 M.W. : 392.32 g/mole
 PL : 413 nm (in CH_2Cl_2)
 TGA : >450 °C (0.5% weight loss)



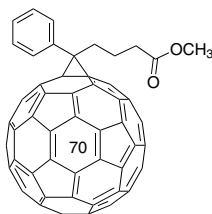
LT-S921 | PTCDI

3,4,9,10-Perylenetetracarboxylic diimide

CAS No. : 81-33-4
 Grade : Sublimed >99%
 Formula : $C_{24}H_{10}N_2O_4$
 M.W. : 390.35 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

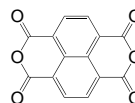
CAS No. : 609771-63-3
 Grade : >99% (HPLC)
 Formula : $C_{82}H_{14}O_2$
 M.W. : 1030.93 g/mole
 UV : 372 nm (in Toluene)
 TGA : >360 °C (0.5% weight loss)



LT-S924 | NTCDA

1,4,5,8-Naphthalenetetracarboxylic dianhydride

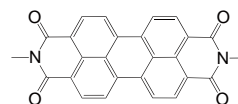
CAS No. : 81-30-1
 Grade : Sublimed >99%
 Formula : $C_{14}H_4O_6$
 M.W. : 268.18 g/mole
 UV : 366 nm (in CH_2Cl_2)
 PL : 394 nm (in CH_2Cl_2)



LT-S925 | MePTC

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

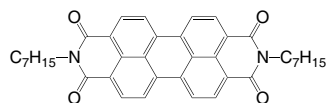
CAS No. : 5521-31-3
 Grade : Sublimed product
 Formula : $C_{26}H_{14}N_2O_4$
 M.W. : 418.4 g/mole
 UV : 522 nm (in CH_2Cl_2)
 PL : 571 nm (in CH_2Cl_2)
 TGA : >440 °C (0.5% weight loss)



LT-S926 | HepPTC

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

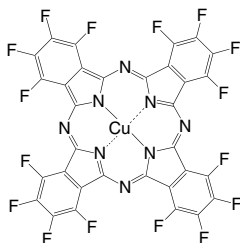
CAS No. : 95689-91-1
 Grade : Sublimed >99%
 Formula : $C_{38}H_{38}N_2O_4$
 M.W. : 586.72 g/mole
 UV : 524 nm (in CH_2Cl_2)
 PL : 537, 571 nm (in CH_2Cl_2)
 TGA : >390 °C (0.5% weight loss)



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

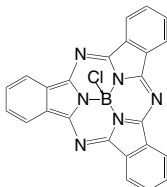
CAS No.	: 14916-87-1
Grade	: Sublimed product
Formula	: C ₃₂ CuF ₁₆ N ₈
M.W.	: 863.93 g/mole
UV	: 690 nm (in THF)
TGA	: >400 °C (0.5% weight loss)



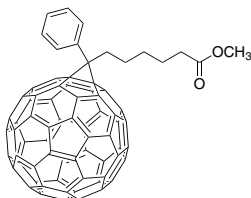
LT-S943 | SubPC

Boron subphthalocyanine chloride

CAS No.	: 36530-06-0
Grade	: Sublimed >99%
Formula	: C ₂₄ H ₁₂ BN ₆ Cl
M.W.	: 430.66 g/mole
UV	: 565 nm (in DMF)
PL	: 577 nm (in DMF)
TGA	: >340 °C (0.5% weight loss)

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

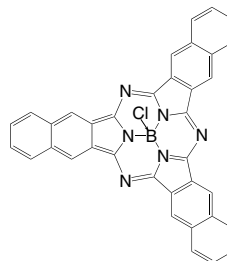
CAS No.	: 1242279-48-6
Grade	: >99% (HPLC)
Formula	: C ₇₄ H ₁₈ O ₂
M.W.	: 938.93 g/mole
UV	: 328 nm (in CH ₂ Cl ₂)
TGA	: >350 °C (0.5% weight loss)



LT-S947 | SubNC

Boron sub-2,3-naphthalocyanine chloride

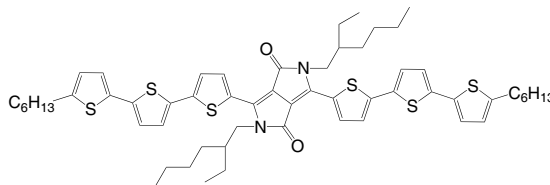
CAS No.	: 142710-56-3
Grade	: Sublimed >99%
Formula	: C ₃₆ H ₁₈ BClN ₆
M.W.	: 580.83 g/mole
UV	: 658 nm (in CH ₂ Cl ₂)
TGA	: >370 °C (0.5% weight loss)



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

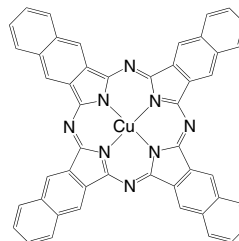
CAS No.	: 1093468-95-1
Grade	: >98% (NMR)
Formula	: C ₅₈ H ₇₂ N ₂ O ₂ S ₆
M.W.	: 1021.59 g/mole
UV	: 644 nm (in CH ₂ Cl ₂)
TGA	: >370 °C (0.5% weight loss)



LT-S962 | CuNC

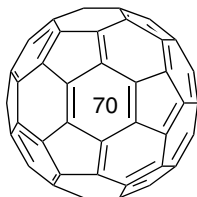
Copper(II) 2,3-naphthalocyanine

CAS No.	: 33273-09-5
Grade	: Sublimed >99% (TGA)
Formula	: C ₄₈ H ₂₄ CuN ₈
M.W.	: 776.30 g/mole
UV	: 681 nm (in CH ₂ Cl ₂)
TGA	: >430 °C (0.5% weight loss)



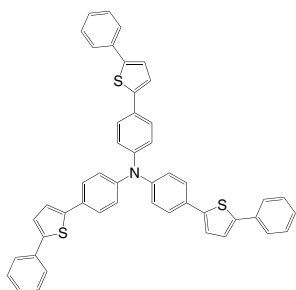
LT-S967 | C₇₀(5,6)-Fullerene-C₇₀

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** | TPTPA

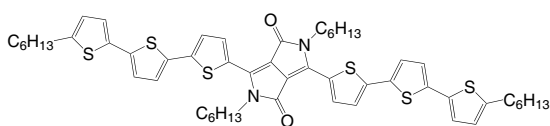
Tris(4-(5-phenylthiophen-2-yl)phenyl)amine

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** | SMDPPP

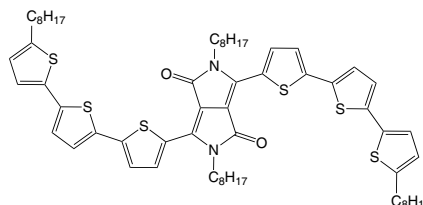
2,5-Dihexyl-3,6-bis-(5'-n-hexyl-[2,2',5',2'']terthiophen-5-yl)-pyrrolo[3,4-c]pyrrole-1,4-dione

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

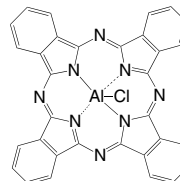
2,5-Dioctyl-3,6-bis-(5''-n-hexyl-[2,2',5',2'']terthiophen-5-yl)-pyrrolo[3,4-c]pyrrole-1,4-dione

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)

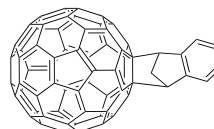
**LT-S9025** | AIPCCI

Aluminum phthalocyanine chloride

CAS No. : 14154-42-8
 Grade : Sublimed >99%
 Formula : C₃₂H₁₆AlClN₈
 M.W. : 574.97 g/mole
 UV : 675 nm (in DMF)
 TGA : >370 °C (0.5% weight loss)

**LT-S9029** | ICMAC₆₀ derivative, indene-C₆₀ monoadduct

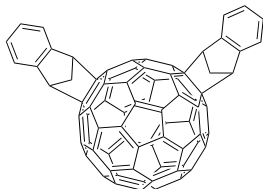
CAS No. : 172885-96-0
 Grade : >99% (HPLC)
 Formula : C₆₉H₈
 M.W. : 836.82 g/mole
 UV : 318 nm (in CH₂Cl₂)
 TGA : >200 °C (0.5% weight loss)



LT-S9030 | ICBA

C₆₀ derivative, indene-C₆₀ bisadduct, mixture of isomers

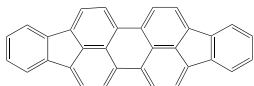
CAS No.	: 1207461-57-1
Grade	: >99% (HPLC)
Formula	: C ₇₈ H ₁₆
M.W.	: 952.26 g/mole
UV	: 318 nm (in CH ₂ Cl ₂)
TGA	: >200 °C (0.5% weight loss)



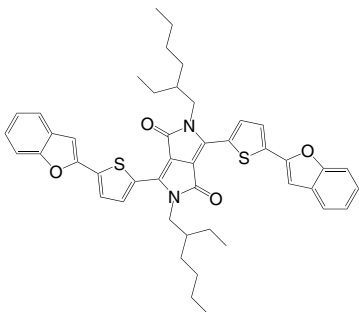
LT-S9036 | DIP

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)₂3,6-Bis(5-(benzofuran-2-yl)thiophen-2-yl)-2,5-bis(2-ethylhexyl)pyrrolo[3,4-*c*]pyrrole-1,4(2*H*,5*H*)-dione

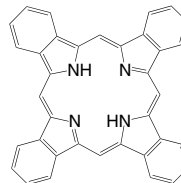
CAS No.	: 1241836-03-2
Grade	: >99% (NMR)
Formula	: C ₄₆ H ₄₈ N ₂ O ₄ S ₂
M.W.	: 757.01 g/mole
UV	: 584, 629 nm (in CH ₂ Cl ₂)
TGA	: >330 °C (0.5% weight loss)



LT-S9044 | BP

Tetrabenzoporphine

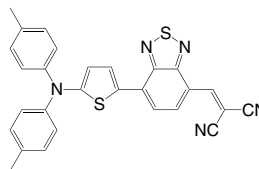
CAS No.	: 52952-31-5
Grade	: Sublimed product
Formula	: C ₃₆ H ₂₂ N ₄
M.W.	: 510.59 g/mole
TGA	: >200 °C (0.5% weight loss)



LT-S9046 | DTDCTB

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

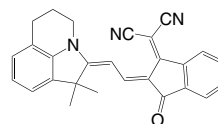
CAS No.	: 1335150-09-8
Grade	: >99% (HPLC)
Formula	: C ₂₈ H ₁₉ N ₅ S ₂
M.W.	: 489.61 g/mole
UV	: 398, 622 nm (in CH ₂ Cl ₂)
TGA	: >280 °C (0.5% weight loss)



LT-S9047 | HB194

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

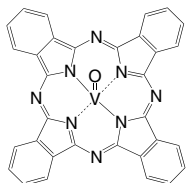
CAS No.	: 1207961-82-7
Grade	: >99% (HPLC)
Formula	: C ₂₇ H ₂₁ N ₃ O
M.W.	: 403.48 g/mole
UV	: 481, 577 nm (in CH ₂ Cl ₂)
TGA	: >280 °C (0.5% weight loss)



LT-S9053 | VOPC

Oxyvanadium phthalocyanine

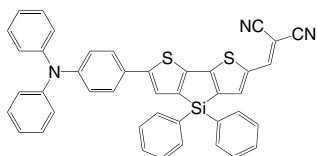
CAS No. : 13930-88-6
 Grade : Sublimed product
 Formula : $C_{32}H_{16}N_8O$
 M.W. : 579.47 g/mole
 UV : 338, 684 nm (in CH_2Cl_2)



LT-S9056 | TPDCDTS

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

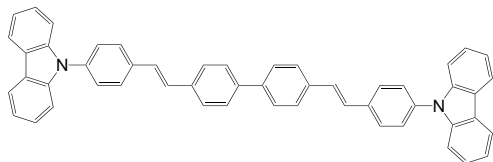
CAS No. : 1321562-79-1
 Grade : >99% (HPLC)
 Formula : $C_{42}H_{27}N_3S_2Si$
 M.W. : 665.90 g/mole
 TGA : >250 °C (0.5% weight loss)



LT-S9058 | BSB4

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

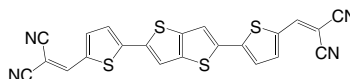
CAS No. : 850594-34-2
 Grade : Sublimed >99%
 Formula : $C_{52}H_{36}N_2$
 M.W. : 688.86 g/mole
 UV : 367 nm (in THF)
 PL : 424, 444 nm (in THF)
 TGA : >320 °C (0.5% weight loss)



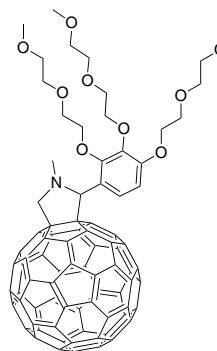
LT-S9061 | FT2TDMN

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

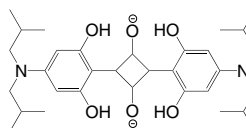
CAS No. : 1373957-22-2
 Grade : >99% (HPLC)
 Formula : $C_{84}H_{41}NO_9$
 M.W. : 1208.26 g/mole
 TGA : >300 °C (0.5% weight loss)



LT-S9074 | DIBSQ

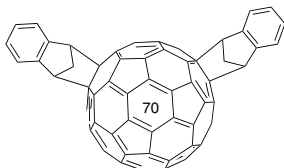
2,4-Bis(4-(diisobutylamino)-2,6-dihydroxyphenyl)cyclobutane-1,3-bis(olate)

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)

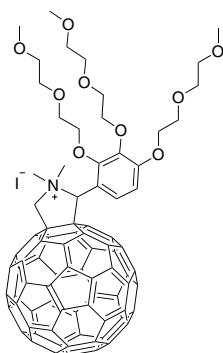


LT-S9078 | IC₇₀BAIndene-C₇₀ bisadduct, mixture of isomers

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)

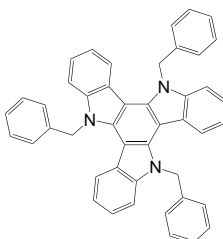
**LT-S9079** | PrC₆₀MA Iodide saltC₆₀/N,N,N-Trimethyl-1-(2,3,4-tris(2-(2-methoxyethoxy)ethoxy)phenyl)dimethanaminium monoadduct iodide salt

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

**LT-S9084** | TBDI

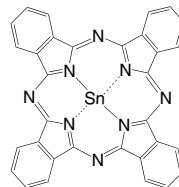
5,10,15-Tribenzyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole

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

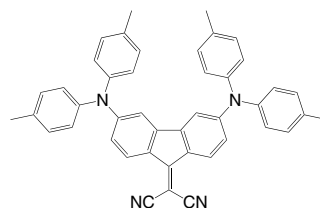
Tin(II) phthalocyanine

CAS No. : 15304-57-1
 Grade : Sublimed >99%
 Formula : C₃₂H₁₆N₈Sn
 M.W. : 631.23 g/mole

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

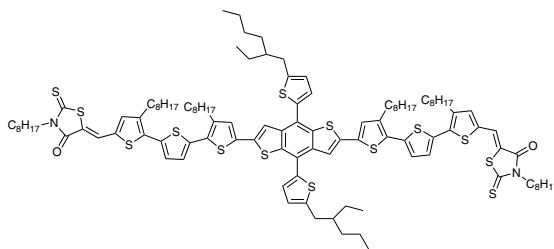
2-(3,6-Bis(di-p-tolylamino)-9H-fluorene-9-ylidene)malononitrile

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

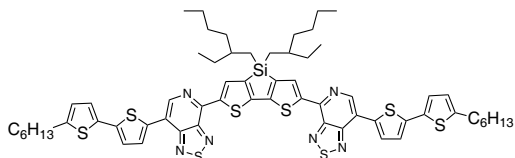
CAS No. : 1651168-29-4
 Grade : >99% (NMR)
 Formula : C₁₁₄H₁₅₂N₂O₂S₁₄
 M.W. : 2031.35 g/mole
 UV : 360, 504 nm (in CH₂Cl₂)



LT-S9124 | DTS(PTTh2)2

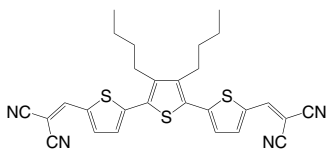
5,5'-Bis(4-(7-hexylthiophen-2-yl)thiophen-2-yl)-[1,2,5]thiadiazolo[3,4-c]pyridine-3,3'-di-2-ethylhexylsilylene-2,2'-bithiophene

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

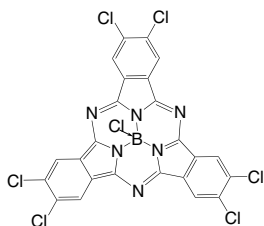
3',4'-Dibutyl-5,5'-bis(dicyanovinyl)-2,2':5',2''-terthiophene

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)

**LT-S9149** | Cl_6 SubPC

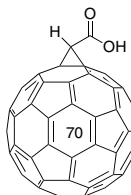
2,3,9,10,16,17-Hexachlorinated boron subphthalocyanine chloride

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

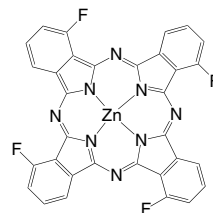
3'H-Cyclopropa[8,25][5,6]fullerene- C_{70} -3'-carboxylic acid

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-S9171** | F_4 ZnPC

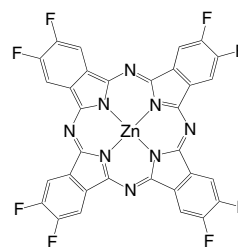
Zinc(II)-1,8,15,22-tetrafluoro-29H,31H-phthalocyanine, mixture of isomers

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** | F_8 ZnPC

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

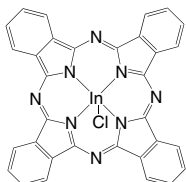
CAS No. : 676519-80-5
 Grade : Sublimed >99%
 Formula : $C_{32}H_8F_8N_8Zn$
 M.W. : 721.86 g/mole
 UV : 338, 656 nm (in DMF)
 TGA : >300 °C (0.5% weight loss)



LT-S9176 | InClPC

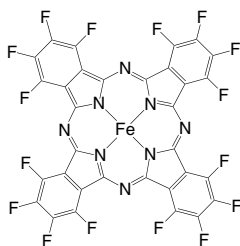
Indium(III) phthalocyanine chloride

CAS No.	: 19631-19-7
Grade	: Sublimed >99%
Formula	: $C_{32}H_{16}ClInN_8$
M.W.	: 662.79 g/mole
UV	: 358, 683 nm (in $CHCl_3$)
TGA	: >300 °C (0.5% weight loss)

LT-S9177 | F_{16} FePC

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

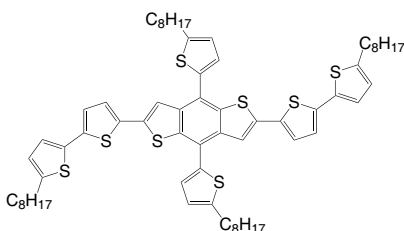
CAS No.	: 23844-93-1
Grade	: Sublimed >99%
Formula	: $C_{32}F_{16}FeN_8$
M.W.	: 856.22 g/mole
UV	: 333, 627 nm (in Acetone)
TGA	: >300 °C (0.5% weight loss)



LT-S9179 | BDT2TH

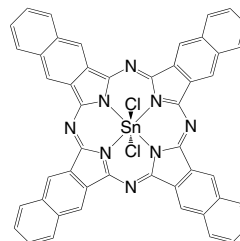
2,6-Bis[(5'-octyl)[2,2'-bithiophene]][4,8-bis(5-octyl-2-thienyl)benzo[1,2-b:4,5-b']dithiophene]

Grade	: >99% (NMR)
Formula	: $C_{66}H_{82}S_8$
M.W.	: 1131.88 g/mole
UV	: 249, 359, 442 nm (in $CHCl_3$)

LT-S9180 | $SnNCCL_2$

Tin(IV) 2,3-naphthalocyanine dichloride

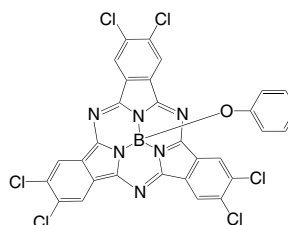
CAS No.	: 26857-61-4
Grade	: Sublimed product
Formula	: $C_{48}H_{24}Cl_2N_8Sn$
M.W.	: 902.37 g/mole
TGA	: >300 °C (0.5% weight loss)



LT-S9181 | PhO-BSubPC

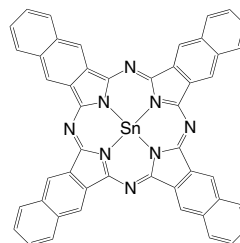
[2,3,9,10,16,17-Hexachloro-7,12:14,19-diimino-21,5-nitrilo-5H-tribenzo[*c,h,m*][1,6,11]triazacyclopentadecinato(2-)-N22,N23,N24]phenoxy-Boron

CAS No.	: 1309390-01-9
Grade	: >99% (HPLC)
Formula	: $C_{30}H_{11}BCl_6N_6O$
M.W.	: 694.98 g/mole
UV	: 267, 318, 569 nm (in $CHCl_3$)

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)

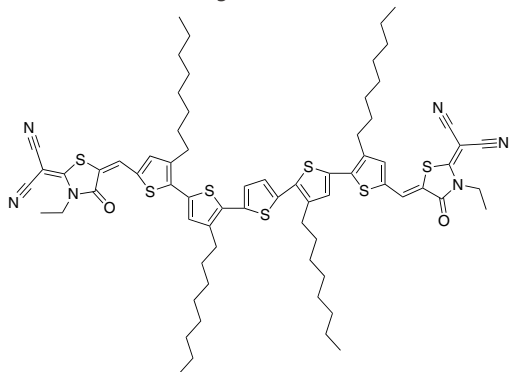


LT-S9197 | DRCN5T

NEW

2,2'-[(3,3''',3''',4'-tetraoctyl[2,2':5',2'':5'',2''':5''',2''''-quinquethiophene]-5,5''''-diyl)bis[(Z)-methylidyne(3-ethyl-4-oxo-5,2-thiazolidinediylidene)]]bis-propanedinitrile

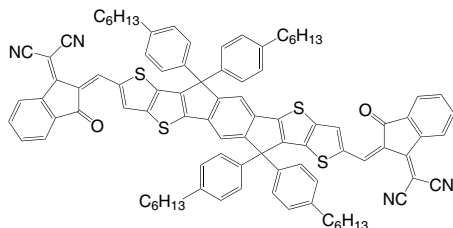
CAS No. : 1674394-69-4
 Grade : >99%
 Formula : C₇₀H₈₆N₆O₂S₇
 M.W. : 1267.93 g/mole



LT-S9212 | ITIC

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

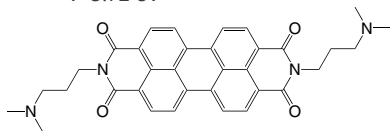
CAS No. : 1664293-06-4
 Grade : >98% (HPLC)
 Formula : C₉₄H₈₂N₄O₂S₄
 M.W. : 1427.94 g/mole



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

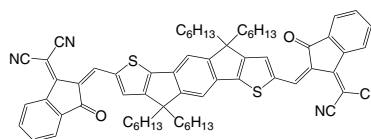
CAS No. : 117901-97-0
 Formula : C₃₄H₃₂N₄O₄
 M.W. : 560.64 g/mole
 HOMO : -6.05 eV
 LUMO : -3.72 eV



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[methylidyne(3-oxo-1*H*-indene-2,1(3*H*)-diylidene)]]bis-propanedinitrile

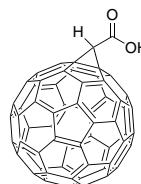
CAS No. : 1883441-92-6
 Grade : >98% (HPLC)
 Formula : C₆₆H₆₆N₄O₂S₂
 M.W. : 1011.39 g/mole
 UV : 664 nm (in CH₂Cl₂)
 HOMO : -5.69 eV
 LUMO : -3.91 eV
 PCE : 8.71%(with PDBT-T1)



LT-S9281 | C₆₀-COOH

3*H*-Cyclopropa[1,9][5,6]fullerene-C₆₀-1*H*-3'-carboxylic acid

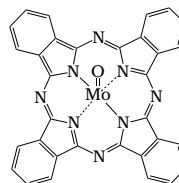
CAS No. : 155116-19-1
 Grade : >99%
 Formula : C₆₂H₂O₂
 M.W. : 778.68 g/mole



LT-S9283 | MoOPC

Oxo-phthalocyaninato-molybdenum (IV)

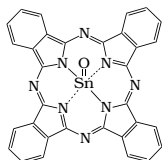
CAS No. : 15746-68-6
 Grade : Sublimed >99%
 Formula : C₃₂H₁₆MoN₈O
 M.W. : 624.46 g/mole



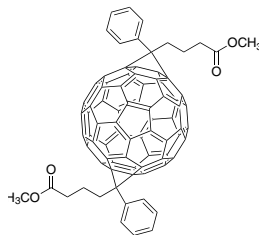
LT-S9284 | SnOPC

Oxo-phthalocyaninato-tin (IV)

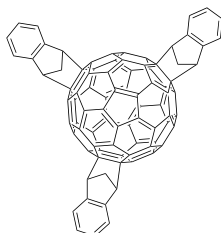
CAS No. : 57156-42-0
 Grade : Sublimed >99%
 Formula : $C_{32}H_{16}N_8OSn$
 M.W. : 647.23 g/mole

LT-S9422 | Bis PC₆₂BM3''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. : 1048679-01-1
 Grade : >99.5%
 Formula : $C_{84}H_{28}O_4$
 M.W. : 1101.12 g/mole

LT-S9423 | IC₆₀TA1',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

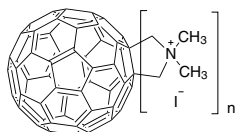
CAS No. : 1363385-54-9
 Grade : >96%
 Formula : $C_{87}H_{24}$
 M.W. : 1069.12 g/mole



LT-S9424

C60-(N,N-dimethyl pyrrolidinium iodide) Adduct

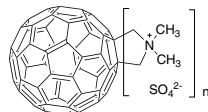
Grade : >99%
 Formula : $C_{60}(C_4H_{10}NI)_n$



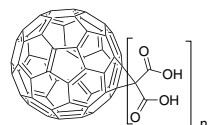
LT-S9425

C60-n-(N,N-dimethylpyrrolidinium sulfate)

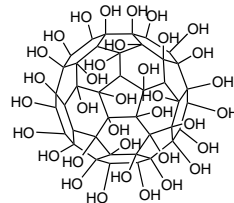
Grade : >99%
 Formula : $C_{60}(C_4H_{10}NSO_4)_n$

LT-S9426 | C₆₀-(malonic acid)_n

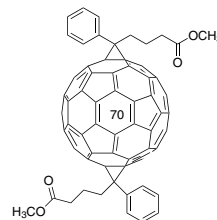
Grade : >99% n > 5
 Formula : $C_{60}(C_3H_2O_4)_n$

LT-S9427 | Fullerol C₆₀(OH)_n

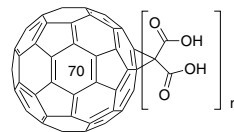
Grade : >99.5% n = 30-50
 Formula : $C_{60}(OH)_n$

LT-S9428 | Bis-PC₇₂BM3''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
 Grade : >98%
 Formula : $C_{94}H_{26}O_4$
 M.W. : 1221.23 g/mole

LT-S9429 | C₇₀-(malonic acid)_n

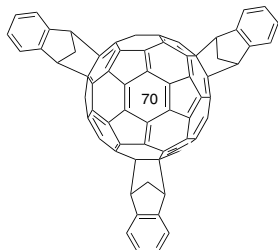
Grade : >99%
 Formula : $C_{70}(C_3H_2O_4)_n$



LT-S9431 | IC₇₀TA

Indene C70 Tris Adduct

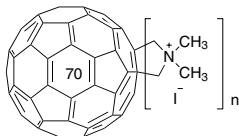
Grade : >96%
Formula : C₉₇H₂₄



LT-S9432

C70-(N,N-dimethyl pyrrolidinium iodide) Adduct

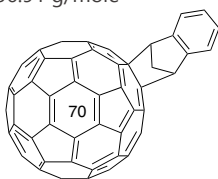
Grade : >99%
Formula : C₇₀(C₄H₁₀NI)_n



LT-S9433 | IC₇₀MA

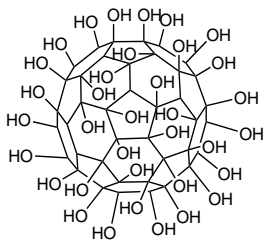
1',4'-Dihydro-1,4-methanonaphtho[2',3':8,25]fullerene-C₇₀-D₃h(6)

CAS No. : 1287237-10-8
Grade : >98%
Formula : C₇₉H₈
M.W. : 956.91 g/mole



LT-S9434 | Fullerol C₇₀(OH)_n

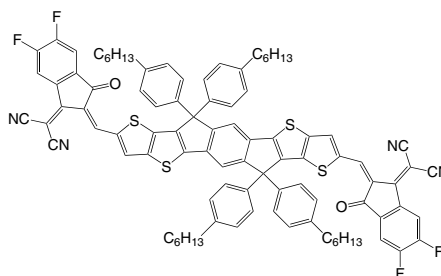
Grade : >99.5% water soluble, >50 mg/ml
Formula : C₇₀(OH)_n



LT-S9447 | IT-4F,ITIC-2F

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

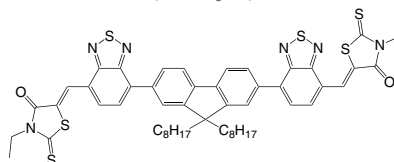
CAS No. : 2097998-59-7
Grade : >98% (HPLC)
Formula : C₉₄H₇₈F₄N₄O₂S₄
M.W. : 1499.9 g/mole
HOMO : -5.69 eV
LUMO : -4.07 eV
PCE : 13.1% (with PBDB-T-SF)e



LT-S9466 | FBR

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

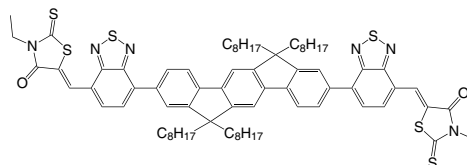
CAS No. : 1644381-95-2
Grade : >98%
Formula : C₅₃H₅₆N₆O₂S₆
M.W. : 1001.44 g/mole
HOMO : -5.7 eV
LUMO : -3.57 eV
PCE : 4.11% (with P₃HT)



LT-S9468 | IDFBF

(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(methanylydene))bis(3-ethyl-2-thioxothiazolidin-4-one)

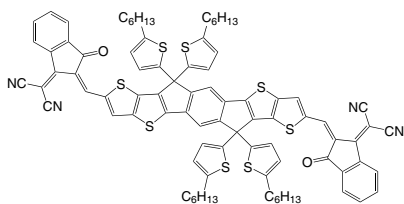
CAS No. : 2088628-64-0
Grade : >98%
Formula : C₇₆H₉₂N₆O₂S₆
M.W. : 1313.97 g/mole
HOMO : -5.75 eV
LUMO : -3.70 eV
PCE : 11.0% (with PTB7-Th)



LT-S9471 | ITIC-Th

3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-indanone))-5,5,11,11-tetrakis(5-hexylthieryl)-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
 HOMO : -5.66 eV
 LUMO : -3.93 eV
 PCE : 9.6% (with PDBT-T1)

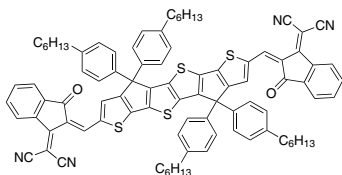


LT-S9472 | IHIC

NEW

2,2'-[[4,4,9,9-Tetrakis(4-hexylphenyl)-4,9-dihydrothieno[3',2':4,5]cyclopenta[1,2-b]thieno[2'',3''':3',4']cyclopenta[1',2':4,5]thieno[2,3-d]thiophene-2,7-diyl]bis(methylidyne(3-oxo-1H-indene-2,1(3H)-diylidene))]bis-propanedinitrile

CAS No. : 2127354-15-6
 Grade : >98% (NMR)
 Formula : $C_{90}H_{80}N_4O_2S_4$
 UV : 796 nm
 M.W. : 1377.88 g/mole
 HOMO : -5.28 eV
 LUMO : -3.87 eV

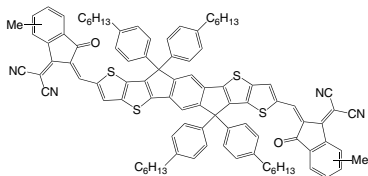


LT-S9473 | IT-M

NEW

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

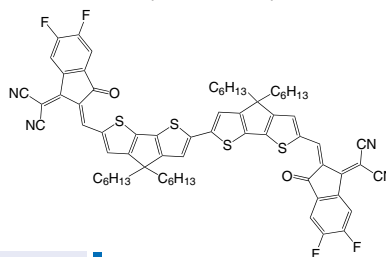
CAS No. : 2107971-73-1
 Grade : >98% (HPLC)
 Formula : $C_{96}H_{86}N_4O_2S_4$
 M.W. : 1456 g/mole
 HOMO : -5.58 eV
 LUMO : -3.98 eV
 PCE : 12% (with PBDB-T)



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

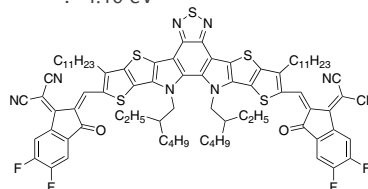
Grade : >98% (HPLC)
 Formula : $C_{68}H_{62}F_4N_4O_2S_4$
 M.W. : 1171.50 g/mole
 HOMO : -5.26 eV
 LUMO : -3.87 eV
 PCE : 9.47% (with PBDB-T)



LT-S9476 | Y6(BTPPTT-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

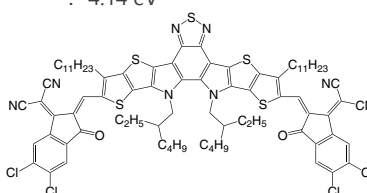
CAS No. : 2304444-49-1
 Grade : >99% (NMR)
 Formula : $C_{82}H_{86}F_4N_8O_2S_5$
 M.W. : 1451.93 g/mole
 UV : 731 nm (in $CHCl_3$)
 HOMO : -5.65 eV
 LUMO : -4.10 eV



LT-S9491 | Y7, BTP-4CI

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

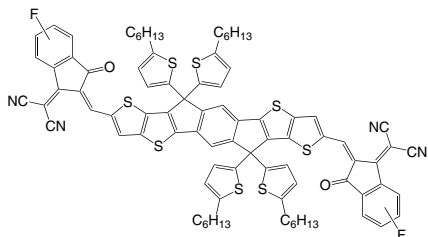
CAS NO : 2447642-40-0
 Grade : >99% (NMR)
 Formula : $C_{82}H_{86}Cl_4N_8O_2S_5$
 M.W. : 1517.75 g/mole
 UV : 746, 839 nm (in $CHCl_3$)
 HOMO : -5.68 eV
 LUMO : -4.14 eV



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

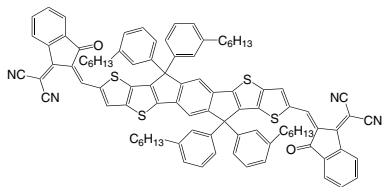
Grade	: >99% (NMR)
Formula	: C ₈₆ H ₇₂ F ₂ N ₄ O ₂ S ₈
M.W.	: 1488.03 g/mole
UV	: 677 nm (in CH ₂ Cl ₂)
HOMO	: -5.74 eV
LUMO	: -4.01 eV
PCE	: 12.1% (with FTAZ)



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

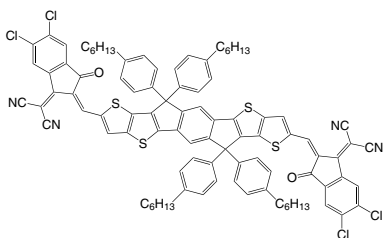
Grade	: >99% (NMR)
Formula	: C ₉₄ H ₈₂ N ₄ O ₂ S ₄
M.W.	: 1427.94 g/mole
HOMO	: -5.58 eV
LUMO	: -3.98 eV
PCE	: 11.77% (with J61)



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

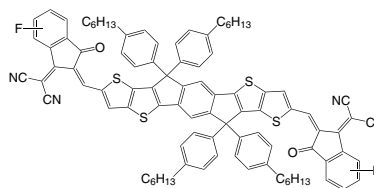
CAS No.	: 2253663-81-7
Grade	: >99% (NMR)
Formula	: C ₉₄ H ₇₈ Cl ₄ N ₄ O ₂ S ₄
M.W.	: 1565.72 g/mole
HOMO	: -5.75 eV
LUMO	: -4.09 eV
PCE	: 13.45% (with PM6)



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

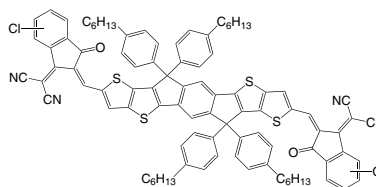
Grade	: >99% (NMR)
Formula	: C ₉₆ H ₈₈ F ₂ N ₄ O ₂ S ₄
M.W.	: 1496.01 g/mole
UV	: 685, 721 nm (in CHCl ₃)
HOMO	: -5.41 eV
LUMO	: -3.87 eV
PCE	: 12.08% (with PBDB-T)



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

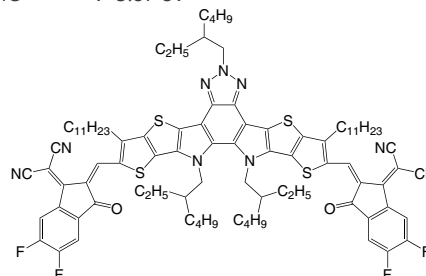
Grade	: >99% (NMR)
Formula	: C ₉₄ H ₈₀ Cl ₂ N ₄ O ₂ S ₄
M.W.	: 1496.83 g/mole
UV	: 690, 735 nm (in CHCl ₃)
HOMO	: -5.42 eV
LUMO	: -3.90 eV
PCE	: 10.77% (with PBDB-T)



LT-S9505 | Y11

2,2'-((2Z,2'Z)-((1,13-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-diy)bis(methanylylidene))bis-(5,6-difloro-3-oxo-2,3-dihydro-1H-indene-2,1-diy)lidene)dimalononitrile

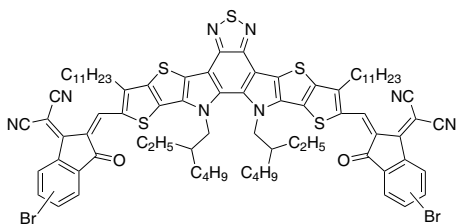
Grade	: >99% (NMR)
Formula	: C ₉₀ H ₁₀₃ F ₄ N ₉ O ₂ S ₄
M.W.	: 1547.09 g/mole
UV	: 850 nm (film)
HOMO	: -5.69 eV
LUMO	: -3.87 eV



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

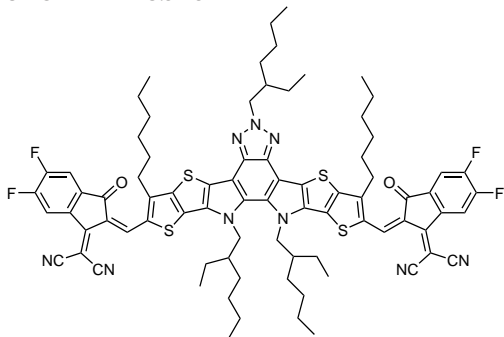
CAS No. : 2414381-17-0
 Grade : >99% (NMR)
 Formula : $C_{82}H_{88}Br_2N_8O_2S_5$
 M.W. : 1537.76 g/mole
 UV : 817 nm (film)
 HOMO : -5.52 eV
 LUMO : -3.99 eV



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

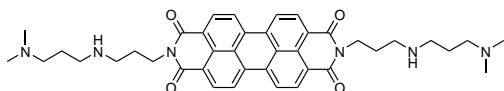
Grade : >99% (NMR)
 Formula : $C_{80}H_{83}F_4N_8O_2S_4$
 M.W. : 1406.83 g/mole
 HOMO : -5.58 eV
 LUMO : -3.91 eV



LT-S9545 | PDINN

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

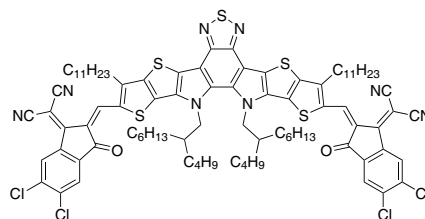
CAS No. : 1020180-01-1
 Grade : >99% (NMR)
 Formula : $C_{40}H_{46}N_6O_4$
 M.W. : 674.83 g/mole
 Hole Mobility : 7.1 cm^2 / (Vs)



LT-S9558 | Y6-BO-4Cl

2,2'-((2Z,2'Z)-((12,13-bis(2-butylloctyl)-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

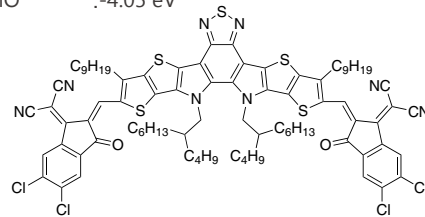
CAS No. : 2447642-41-1
 Grade : >99% (NMR)
 Formula : $C_{90}H_{102}Cl_4N_8O_2S_5$
 M.W. : 1629.96 g/mole
 HOMO : -5.63 eV
 LUMO : -4.04 eV



LT-S9559 | BTP-eC9

2,2'-((2Z,2'Z)-((12,13-bis(2-butylloctyl)-3,9-dinonyl-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

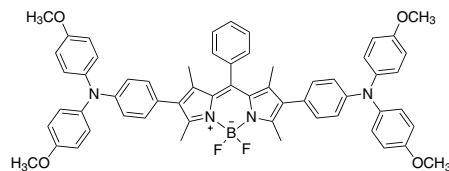
CAS No. : 2598965-39-8
 Grade : >99% (NMR)
 Formula : $C_{96}H_{94}Cl_4N_8O_2S_5$
 M.W. : 1573.89 g/mole
 UV : 543 nm
 HOMO : -5.64 eV
 LUMO : -4.05 eV



LT-S9560 | BTPA III

2,8-Bis(4-(bis(4-methoxyphenyl)amino)phenyl)-5,5-difluoro-1,3,7,9-tetramethyl-10-phenyl-5H-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-4-ium-5-uide

Grade : >99% (NMR)
 Formula : $C_{59}H_{53}BF_2N_2O_4$
 M.W. : 930.88 g/mole
 UV : 543 nm
 HOMO : -5.14 eV
 LUMO : -3.34 eV



Our products are used for testing and research purpose; they are not guaranteed in patent contention by customer use.

LT-S9563

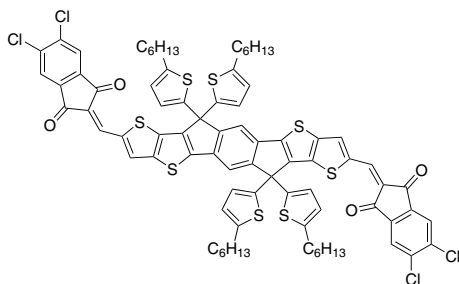
NEW

3,9-bis(2-methylene-(5,6-dichloro-1H-indene-1,3(2H)-dione))-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% (HPLC)

Formula : $C_{80}H_{70}Cl_4O_4S_8$

M.W. : 1493.74 g/mole



LT-S9581

L8-BO-F

2,2'-((2Z,2'Z)-((12,13-bis(2-ethylhexyl)-3,9-butyloctyl-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-fluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

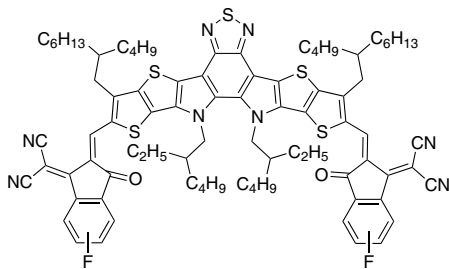
Grade : >99% (NMR)

Formula : $C_{84}H_{92}F_2N_8O_2S_5$

M.W. : 1444.00 g/mole

HOMO : -5.59 eV

LUMO : -3.85 eV



LT-S9582

DR8

(5Z,5'Z)-5,5'-((4-(2-butyloctyl)-4H-dithieno[3,2-b:2',3'-d']pyrrole-2,6-diyl)bis(methanylylidene))bis(3-octyl-2-thioxothiazolidin-4-one)

Grade : >99%

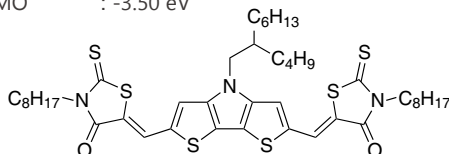
Formula : $C_{44}H_{63}N_3O_2S_6$

M.W. : 858.38 g/mole

UV : 584 nm(in $CHCl_3$)

HOMO : -5.67 eV

LUMO : -3.50 eV



LT-S9584

ITC6-4Cl

2,2'-[[[3,9-Dihexyl-6,6,12,12-tetrakis(4-hexylphenyl)-6,12-dihydrodithieno[2,3-d':2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene-2,8-diyl]]bis(methylydyne(5,6-chloro-3-oxo-1H-indene-2,1(3H)-diylidene))]bispropanedinitrile

Grade : >99% (NMR)

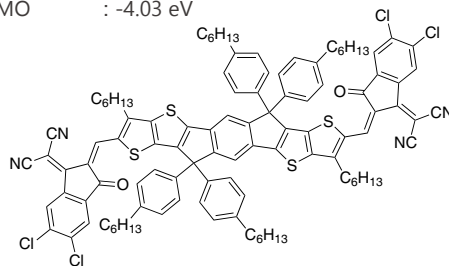
Formula : $C_{106}H_{102}Cl_4N_4O_2S_4$

M.W. : 1734.04 g/mole

UV : 718 nm (in $CHCl_3$)

HOMO : -5.79 eV

LUMO : -4.03 eV



LT-S9606

BTR

NEW

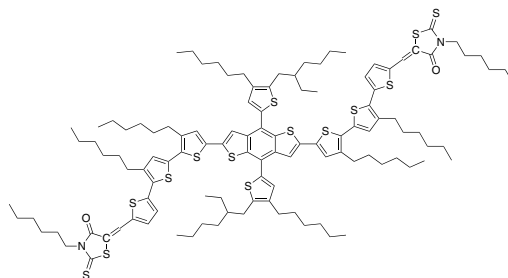
5,5'-[[[4,8-bis[5-(2-ethylhexyl)-4-hexyl-2-thienyl]]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]]bis[3',3''-dihexyl[[2,2':5',2''-terthiophene]-5'',5-diy]]methylidyne]]bis[3-hexyl-2-thioxo-4-thiazolidinone]

CAS No. : 2041283-06-9

Grade : >98%

Formula : $C_{114}H_{152}N_2O_2S_{14}$

M.W. : 2031.41 g/mole



LT-S9607 | DTY6

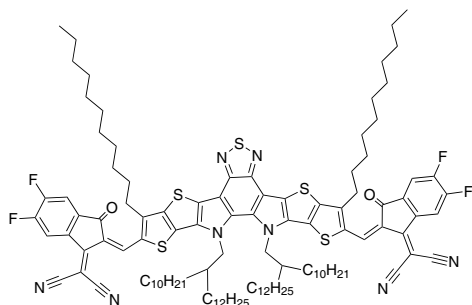
NEW

2,2'-((2Z,2'Z)-((12,13-bis(2-decylteradecyl)-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-diyli)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

Grade : > 99%

Formula : C₁₁₄H₁₅₀F₄N₈O₂S₅

M.W. : 1900.83 g/mole



LT-S9608 | TPT10-C8C12

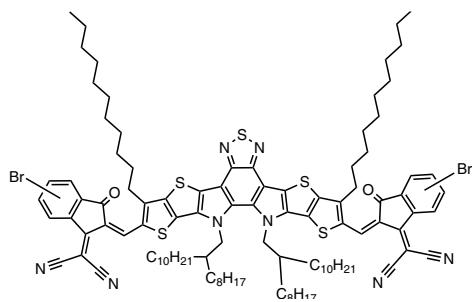
NEW

2,2'-[[12,13-Bis(2-octyldodecyl)-12,13-dihydro-3,9-dinonylbisthieno[2'',3'':4',5']thieno[2',3':4,5]pyrrolo[3,2-e:2',3':g][2,1,3]benzothiadiazole-2,10-diyli]bis(methylylidene(5 or 6-bromo-3-oxo-1H-indene-2,1(3H)-diylidene))]bis[propanedinitrile]

Grade : > 98%

Formula : C₁₀₆H₁₃₆Br₂N₈O₂S₅

M.W. : 1874.45 g/mole



LT-S9609 | BTP-4F-12

NEW

2,2'-((2Z,2'Z)-((12,13-bis(2-butylloctyl)-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-diyli)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No. : 2389125-23-7

Grade : > 98% (NMR)

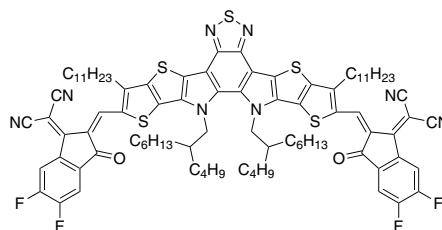
Formula : C₉₀H₁₀₂F₄N₈O₂S₅

M.W. : 1564.14 g/mole

UV : 715 nm

HOMO : -5.68 eV

LUMO : -4.06 eV



LT-S9707 | L8-BO

NEW

2,2'-((2Z,2'Z)-((12,13-bis(2-ethylhexyl)-3,9-(2-butylloctyl)-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-diyli)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No : 2668341-40-8

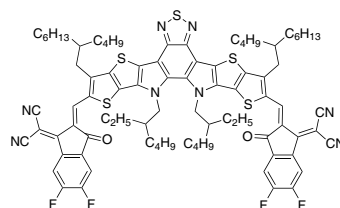
Grade : > 99% (NMR)

Formula : C₈₄H₁₀₀F₄N₈O₂S₅

M.W. : 1479.98 g/mole

HOMO : -5.68 eV

LUMO : -3.9 eV

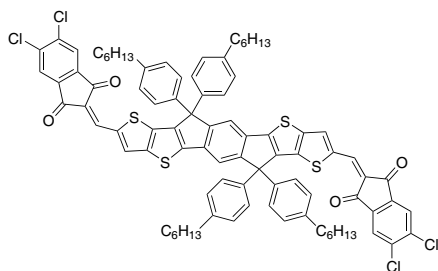


LT-S9712 | IO-4Cl

NEW

3,9-Bis[5,6-dichloro-1H-indene-1,3(2H)dione]-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

Grade : >98% (NMR)
 Formula : $C_{88}H_{78}Cl_4O_4S_4$
 M.W. : 1469.63 g/mole
 HOMO : -5.72 eV
 LUMO : -3.83 eV

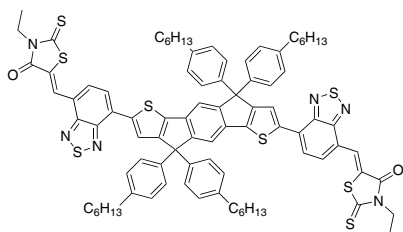


LT-S9713 | IDT-2Br

NEW

5,5'-[[4,4,9,9-Tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl]bis(2,1,3-benzothiaziazole-7,4-diylmethylidene)]bis[3-ethyl-2-thioxo-4-thiazolidinone]

CAS No. : 2042521-91-3
 Grade : >98% (NMR)
 Formula : $C_{88}H_{88}N_6O_2S_8$
 UV : 636 nm
 M.W. : 1518.2 g/mole
 HOMO : -5.52 eV
 LUMO : -3.69 eV

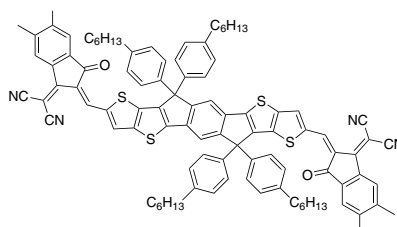


LT-S9714 | ITIC-DM

NEW

3,9-Bis(2-methylene-((3-(1,1-dicyanomethylene)-6,7-dimethyl)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. : 2047352-92-9
 Grade : >98% (NMR)
 Formula : $C_{98}H_{90}N_4O_2S_4$
 M.W. : 1484.05 g/mole
 HOMO : -5.56 eV
 LUMO : -3.93 eV

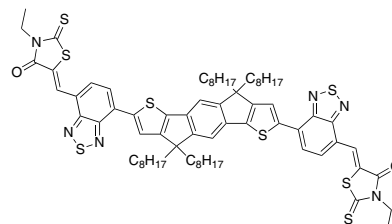


LT-S9715 | o-IDTBR

NEW

(5Z,5'Z)-5,5'-((7,7'-(4,4,9,9-tetraoctyl-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(benzo[c][1,2,5]thiadiazole-7,4-diyl)bis(methanylylidene))bis(3-ethyl-2-thioxothiazolidin-4-one)

CAS No. : 2077945-91-4
 Grade : >98% (NMR)
 Formula : $C_{72}H_{88}N_6O_2S_8$
 M.W. : 1326.03 g/mole
 HOMO : -5.56 eV
 LUMO : -3.93 eV

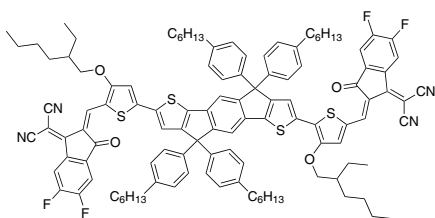


LT-S9716 | IEICO-4F

NEW

2,2'-((2Z,2'Z)-((4,4,9-tris(4-hexylphenyl)-9-(4-pentylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(4-(2-ethylhexyl)oxythiophene-5,2-diyl))bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene)) dimalononitrile

CAS No. :2089044-02-8
 Grade :>98% (NMR)
 Formula :C₁₁₄H₁₁₄F₄N₄O₄S₄
 UV :865 nm
 M.W. :1808.4 g/mole
 HOMO :-5.44 eV
 LUMO :-4.16 eV

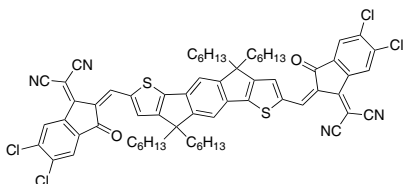


LT-S9717 | IDIC-4Cl

NEW

2,2'-((2Z,2'Z)-(((4,4,9,9-tetrahexyl-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(methanylylidene))bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene)) dimalononitrile

CAS No. :2361961-01-3
 Grade :>98% (NMR)
 Formula :C₆₆H₆₂Cl₄N₄O₄S₂
 M.W. :1149.17 g/mole
 HOMO :-5.72 eV
 LUMO :-4.1 eV

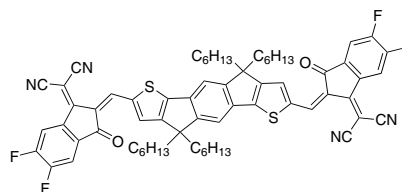


LT-S9718 | IDIC-4F

NEW

2,2'-((2Z,2'Z)-((4,4,9,9-tetrahexyl-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene)) dimalononitrile

CAS No. :2229934-71-6
 Grade :>98% (NMR)
 Formula :C₆₆H₆₂F₄N₄O₄S₂
 UV :707 nm
 M.W. :1083.35
 HOMO :-6.3 eV
 LUMO :-3.82 eV

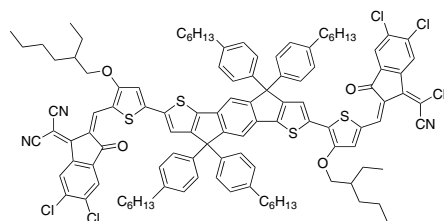


LT-S9719 | IEICO-4Cl

NEW

2,2'-((2Z,2'Z)-(((4,4,9-tris(4-hexylphenyl)-9-(4-pentylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(4-(2-ethylhexyl)oxythiophene-5,2-diyl))bis(methanylylidene))bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene)) dimalononitrile

CAS No. :2240998-88-1
 Grade :>98% (NMR)
 Formula :C₁₁₄H₁₁₄Cl₄N₄O₄S₄
 UV :802 nm
 M.W. :1874.22
 HOMO :-5.56 eV
 LUMO :-4.23 eV

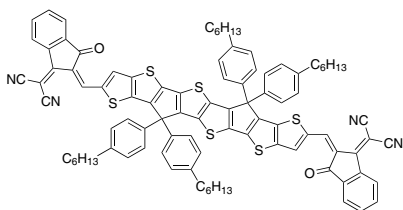


LT-S9720 | 6TIC

NEW

2,2'-[[[6,6,12,12-tetrakis(4-hexylphenyl)-6,12-dihydro-Thieno[2'',3'':4,5']thieno[3',2':4,5]cyclopenta[1,2-b]thieno[2''',3''':4,5']thieno[2'',3'':3',4']cyclopenta[1',2':4,5]thieno[2,3-d]thiophene-2,7-diyl]]bis[methyldiylidene(3-oxo-1H-indene-2,1(3H)-diylidene)]]bis-propanedinitrile

CAS No. :2244414-53-5
 Grade :>98% (NMR)
 Formula :C₉₄H₈₀N₄O₂S₆
 UV :795 nm
 M.W. :1490.06 g/mole
 HOMO :-5.45 eV
 LUMO :-3.94 eV

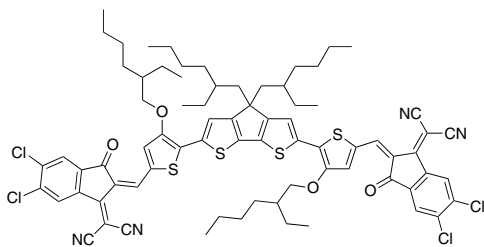


LT-S9721 | COTIC-4Cl

NEW

2,2'-((2Z,2'Z)-((4,4-bis(2-ethylhexyl)-4H-cyclopenta[2,1-b:3,4-b']dithiophene-2,6-diyl)bis(4-(2-ethylhexyloxy)thiophene-5,2-diyl))bis(methanylylidene)bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No. :2328092-51-7
 Grade :>98% (NMR)
 Formula :C₇₅H₇₈Cl₄N₄O₄S₄
 UV :1005 nm
 M.W. :1369.52 g/mole
 HOMO :-5.24 eV
 LUMO :-4.02 eV

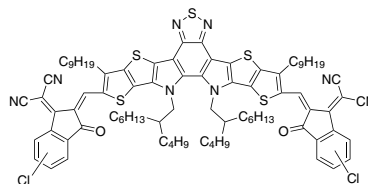


LT-S9722 | eC9-2Cl

NEW

2,2'-[[[12,13-Bis(2-butyltolyl)-12,13-dihydro-3,9-dinonylbisthieno[2'',3'':4,5']thieno[2',3':4,5]pyrrolo[3,2-e:2',3'-g][2,1,3]benzothiadiazole-2,10-diyl]]bis[methyldiylidene(2 or 3-chloro-3-oxo-1H-indene-2,1(3H)-diylidene)]]bis[propanedinitrile]

Grade :>98% (NMR)
 Formula :C₈₆H₉₆Cl₂N₈O₂S₅
 M.W. :1504.97 g/mole
 HOMO :-5.57 eV
 LUMO :-3.74 eV

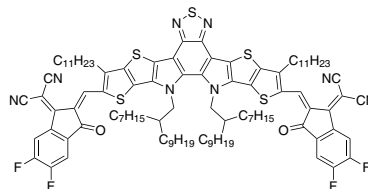


LT-S9723 | HU-Y6

NEW

2,2'-((2Z,2'Z)-((12,13-bis(2-heptylundecyl)-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

Grade :>98% (NMR)
 Formula :C₁₀₂H₁₂₆F₄N₈O₂S₅
 M.W. :1732.46 g/mole

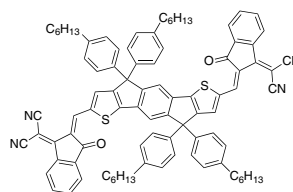


LT-S9724 | IDPC

NEW

2,2'-((2Z,2'Z)-((4,4,9,9-tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(methanylylidene)bis(3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No. :2095504-33-7
 Grade :>98% (NMR)
 Formula :C₉₀H₈₂N₄O₂S₂
 M.W. :1315.77 g/mole

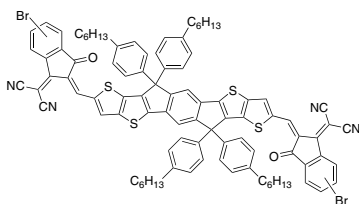


LT-S9725 | IT-2Br

NEW

3,9-Bis(2-methylene-((3-(1,1-dicyanomethylene)-6/7-bromo-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. :2408481-69-4
 Grade :>98% (NMR)
 Formula :C₉₄H₈₀Br₂N₄O₂S₄
 UV :741 nm
 M.W. :1585.73 g/mole
 HOMO :-5.53 eV
 LUMO :-3.9 eV

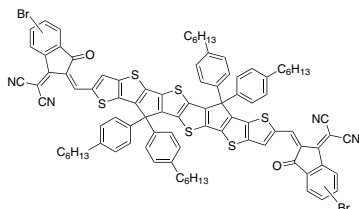


LT-S9726 | 6TIC-Br

NEW

2,2'-[[6,6,12,12-tetrakis(4-hexylphenyl)-6,12-dihydro-Thieno[2'',3''':4,5]thieno[3',2':4,5]cyclopenta[1,2-b]thieno[2''',3''':4'',5'']thieno[2'',3''':4'',5'']cyclopenta[1',2':4,5]thieno[2,3-d]thiophene-2,7-diy]]bis[methylidyne(2 or 3-chloro-3-oxo-1H-indene-2,1(3H)-diylidene)]bis-propanedinitrile

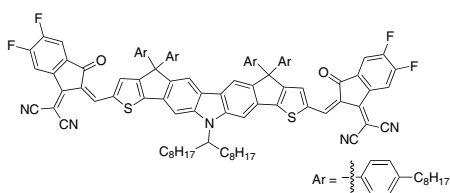
Grade :>98% (NMR)
 Formula :C₉₄H₇₈Br₂N₄O₂S₆
 M.W. :1647.85 g/mole



LT-S9742 | DTCCIC-4F

NEW

CAS No. :2375196-39-5
 Formula :C₁₂₁H₁₃₁F₄N₅O₂S₂
 M.W. :1827.5 g/mole
 UV :703 nm (in DCM)
 HOMO :-5.8 eV
 LUMO :-3.94 eV
 Synonym :DTC(4Ph)-4FIC

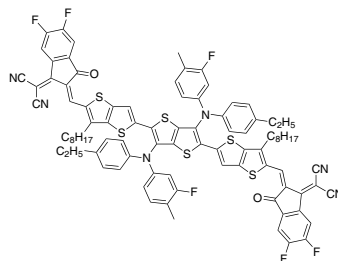


LT-S9836 | 3TT-C2-F

NEW

2,2'-((2Z,2'Z)-((3',6'-bis(4-ethylphenyl)(3-fluoro-4-methylphenyl)amino)-6,6''-dioctyl-[2,2':5',2''-terthieno[3,2-b]thiophene]-5,5''-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

Grade :NMR >99%
 Formula :C₉₀H₇₂F₆N₆O₂S₆
 M.W. :1575.95 g/mole
 UV :712 nm (in CHCl₃)
 HOMO :-5.56 eV
 LUMO :-3.95 eV

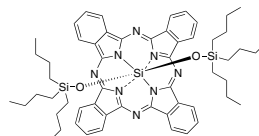


LT-S9847 | 3BS-SiPc

NEW

Bis(tri-n-butylsilyl oxide) silicon phthalocyanine

Grade :>95%
 Formula :C₅₆H₇₀N₈O₂Si₃
 M.W. :971.46 g/mole
 HOMO :-5.3 eV
 LUMO :-3.5 eV

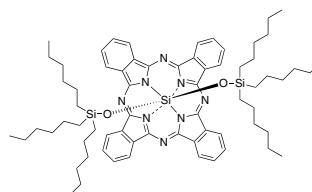


LT-S9849 | 3HS-SiPc

NEW

Bis(tri-n-hexylsilyl oxide) silicon phthalocyanine

CAS No. :92396-89-9
 Grade :>95%
 Formula :C₆₈H₉₄N₈O₂Si₃
 M.W. :1139.78 g/mole
 HOMO :-5.3 eV
 LUMO :-3.5 eV



Organic Photovoltaic (OPV)

Small Molecular / Oligomer Materials

LT-S9850

3PS-SiPc

NEW

Bis(tri-n-propylsilyl oxide) silicon phthalocyanine

CAS No :

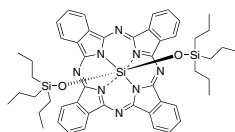
Grade : >95%

Formula : $C_{50}H_{58}N_8O_2Si_3$

M.W. : 887.3 g/mole

HOMO : -5.3 eV

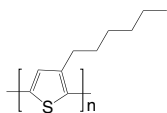
LUMO : -3.5 eV



LT-S909 | P3HT

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

CAS No.	: 110134-47-9 / 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)

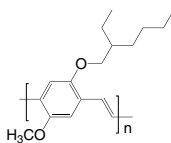
CAS No.	: 25233-34-5
Formula	: $(C_4H_2S)_n$
UV	: 427 nm (in CH_2Cl_2)
PL	: 510 nm (in CH_2Cl_2)



LT-S931 | MEH-PPV

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

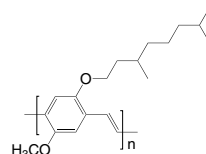
CAS No.	: 138184-36-8
Grade	: Mw >100,000 (GPC)
Formula	: $(C_{17}H_{24}O_2)_n$
UV	: 501 nm (in CH_2Cl_2)
PL	: 502 nm (in CH_2Cl_2)
Solubility	: Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S932 | MDMO-PPV

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

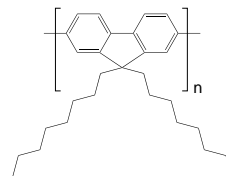
CAS No.	: 177716-59-5
Grade	: Mw >100,000 (GPC)
Formula	: $(C_{19}H_{26}O_2)_n$
UV	: 485 nm (in CH_2Cl_2)
PL	: 555 nm (in CH_2Cl_2)
Solubility	: Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S933 | PFO

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

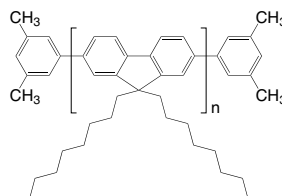
CAS No.	: 123864-00-6
Grade	: Mw = 50,000 ~ 150,000 (GPC)
Formula	: $(C_{29}H_{40})_n$
UV	: 376 nm (in THF)
PL	: 426 nm (in THF)
Solubility	: Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S934 | PFO-DMP

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

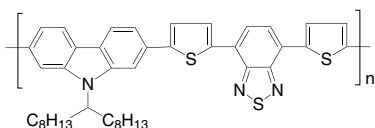
CAS No.	: 874816-14-5
Grade	: Mw = 50,000 ~ 150,000 (GPC)
Formula	: $C_{16}H_{18}(C_{29}H_{40})_n$
UV	: 368 nm (in THF)
PL	: 421 nm (in THF)
Solubility	: Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S948 | PCDTBT

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

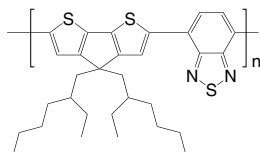
CAS No. : 958261-50-2
 Grade : Mw = 20,000 ~ 100,000 (GPC)
 Formula : (C₄₃H₄₇N₃S₃)_n
 UV : 390, 554 nm (in THF)
 PL : 639 nm (in THF)
 Solubility : >5 mg/mL in CHCl₃



LT-S949 | PCPDTBT

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

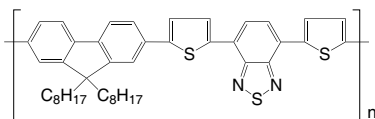
CAS No. : 920515-34-0
 Grade : Mw = 7,000 ~ 20,000 (GPC)
 Formula : (C₃₁H₃₈N₂S₃)_n
 UV : 695 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S950 | PFOBT / PFODBT

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

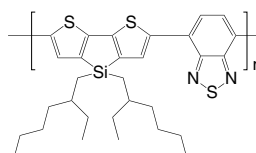
CAS No. : 782469-77-6
 Grade : Mw = 10,000 ~ 50,000 (GPC)
 Formula : (C₄₃H₄₆N₂S₃)_n
 UV : 523 nm (in CH₂Cl₂)
 PL : 630 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



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)]

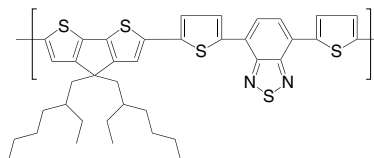
CAS No. : 1089687-02-4
 Grade : Mw = 10,000 ~ 30,000 (GPC)
 Formula : (C₃₀H₃₈N₂S₃Si)_n
 UV : 652 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S953 | PCPDTTBT

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

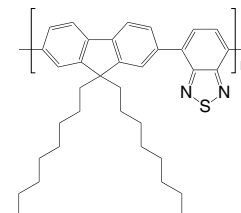
CAS No. : 1035681-83-4
 Grade : Mw = 8,000 ~ 20,000 (GPC)
 Formula : (C₃₉H₄₂N₂S₅)_n
 UV : 615 nm (in CHCl₃)
 PL : 749 nm (in CHCl₃)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S957 | F8BT

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

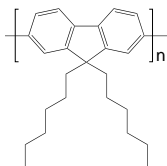
CAS No. : 210347-52-7
 Grade : Mw > 20,000 (GPC)
 Formula : (C₃₅H₄₂N₂S)_n
 UV : 453 nm (in THF)
 PL : 534 nm (in THF)
 Solubility : Soluble in THF, CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S958 | PHF

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

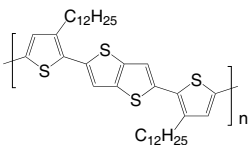
CAS No. : 201807-75-2
 Grade : Mw = 30,000~100,000 (GPC)
 Formula : $(C_{25}H_{32})_n$
 UV : 389 nm (in THF)
 PL : 418 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S981 | PBTTC-12

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

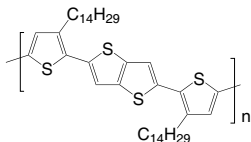
CAS No. : 888491-18-7
 Grade : Mw = 10,000~100,000 (GPC)
 Formula : $(C_{38}H_{54}S_4)_n$
 UV : 460 nm (in THF)
 PL : 557 nm (in THF)
 Solubility : >5 mg/mL in $CHCl_3$



LT-S982 | PBTTC-14

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

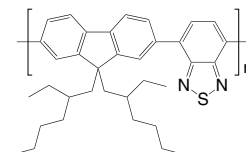
CAS No. : 888491-19-8
 Grade : Mw = 10,000~100,000 (GPC)
 Formula : $(C_{42}H_{62}S_4)_n$
 UV : 466 nm (in THF)
 PL : 557 nm (in THF)
 Solubility : >5 mg/mL in $CHCl_3$



LT-S9003 | F2EHBT

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

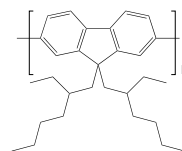
CAS No. : 1379051-13-4
 Grade : Mw = 10,000 ~ 50,000 (GPC)
 Formula : $(C_{35}H_{42}N_2S)_n$
 UV : 453 nm (in THF)
 PL : 645 nm (in THF)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9004 | PF2EH

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

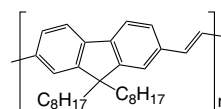
CAS No. : 188201-16-3
 Grade : Mw >20,000 (GPC)
 Formula : $(C_{29}H_{40})_n$
 UV : 389 nm (in THF)
 PL : 418 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9006

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

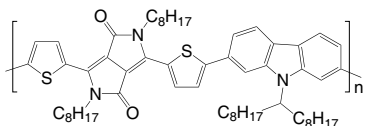
CAS No. : 360068-36-6
 Grade : Mw >20,000 (GPC)
 Formula : $(C_{31}H_{42})_n$
 UV : 455 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9032 | PCBTDP

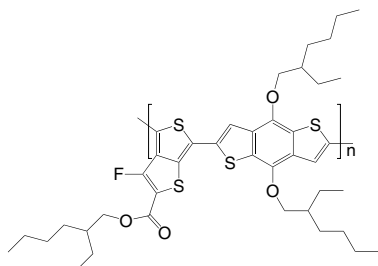
Poly[*N*-9'-heptadecanyl-2,7-carbazole-*alt*-3,6-bis(thiophen-5-yl)-2,5-dioctyl-2,5-dihydropyrrolo[3,4-*c*]pyrrole-1,4-dione]

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

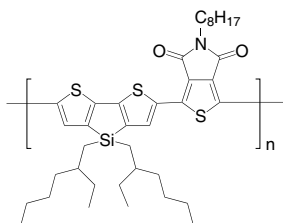
Poly[4,8-bis[(2-ethylhexyl)oxy]benzo[1,2-*b*:4,5-*b'*]dithiophene-2,6-diyl-*alt*-3-fluoro-2-[(2-ethylhexyl)carbonyl]thieno[3,4-*b*]thiophene-4,6-diyl]

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

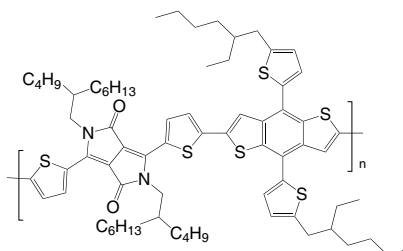
Poly[2,6-(4,4'-bis(ethylhexyl)dithiopheno[3,2-*b*:2',3'-*d*]silole)-*alt*-(1,3-(5-octyl-4*H*-thieno[3,4-*c*]pyrrole-4,6(5*H*)-dione)]

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** | PBDTT-DPP

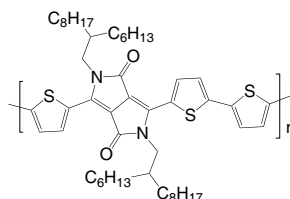
Poly[2,6'-4,8-di(5-ethylhexylthieryl)benzo[1,2-*b*:3,4-*b'*]dithiophene-*alt*-5-dibutylthiophen-3,6-bis(5-bromothiophen-2-yl)-pyrrolo[3,4-*c*]pyrrole-1,4-dione]

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

**LT-S9109** | PDPP3T

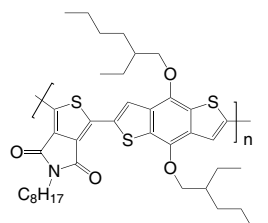
Poly[2,2'-[(2,5-bis(2-hexyldecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-*c*]pyrrole-1,4-diyl)dithiophene]-5,5'-diyl-*alt*-thiophen-2,5-diyl]

CAS No. : 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)]

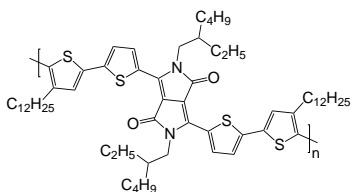
CAS No. : 1223479-75-1
 Grade : Mw > 30,000 (GPC)
 Formula : (C₄₀H₅₃NO₄S₃)_n
 UV : 610 nm (in CHCl₃)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9112 | pBBTDP2

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]

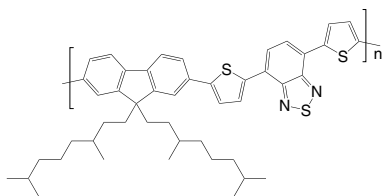
CAS No. : 1002094-22-5
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{62}H_{90}N_2O_2S_4)_n$
 UV : 650 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



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)]]

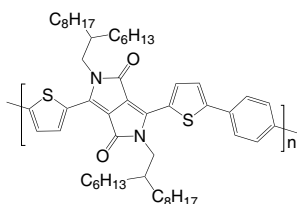
CAS No. : 1204005-82-2
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{47}H_{54}N_2S_3)_n$
 UV : 560 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9114 | PDPPTPT

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

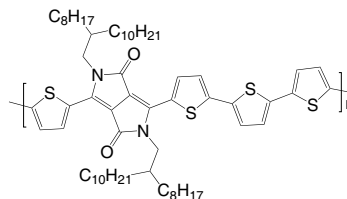
CAS No. : 1255939-39-9
 Grade : Mw > 20,000 (GPC)
 Formula : $(C_{52}H_{74}N_2O_2S_2)_n$
 UV : 628 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



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}

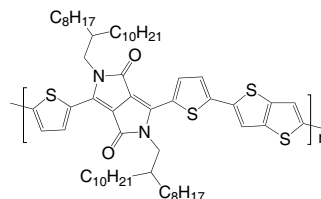
CAS No. : 1267540-03-3
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{62}H_{90}N_2O_2S_4)_n$
 UV : 810 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



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}

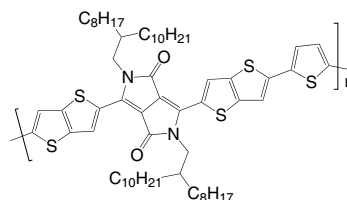
CAS No. : 1444870-74-9
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{60}H_{88}N_2O_2S_4)_n$
 UV : 810 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9119 | PDPPBT

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}

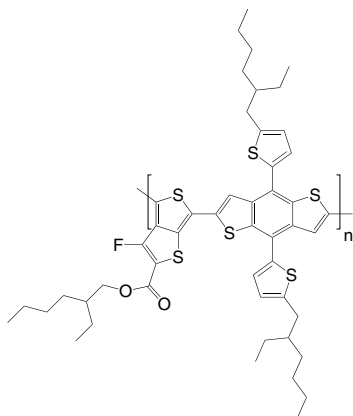
CAS No. : 1270977-98-4
 Grade : Mw > 30,000 (GPC)
 Formula : $(C_{62}H_{88}N_2O_2S_3)_n$
 UV : 812 nm (in $CHCl_3$)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



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]

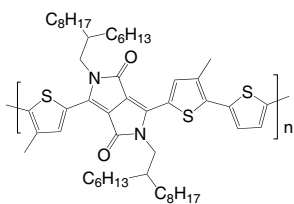
CAS No. : 1469791-66-9
 Grade : Mw = 10,000~100,000 (GPC)
 Formula : (C₄₉H₅₇FO₂S₆)_n
 UV : 695 nm (in CHCl₃)
 Solubility : > 5 mg/mL in CHCl₃



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]

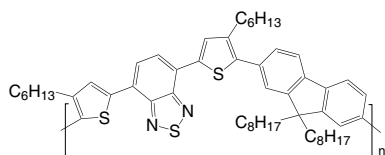
CAS No. : 1429119-71-0
 Grade : Mw > 30,000 (GPC)
 Formula : (C₅₂H₇₆N₂O₂S₃)_n
 UV : 830 nm (in CHCl₃)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



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

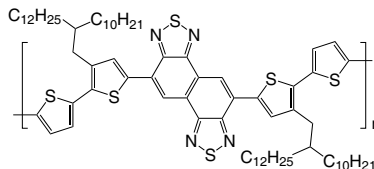
CAS No. : 891911-18-5
 Grade : Mw > 5,000 (GPC)
 Formula : (C₅₅H₇₀N₂S₃)_n



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''':5''']-quaterthiophene]-5,5''-diyl]

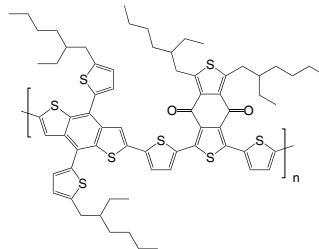
CAS No. : 1357999-94-0
 Grade : Mw > 30,000 (GPC)
 Formula : (C₇₄H₁₀₆N₄S₆)_n
 UV : 725 nm (film)



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

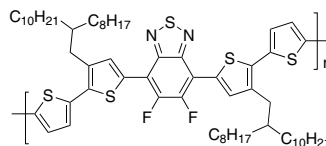


LT-S9216 | PffBT4T-2OD

NEW

Poly[(5,6-difluoro-2,1,3-benzothiadiazole-4,7-diyl)[3,3''-bis(2-octyldodecyl)[2,2':5',2'':5'',2''':5''']-quaterthiophene]-5,5''-diyl]

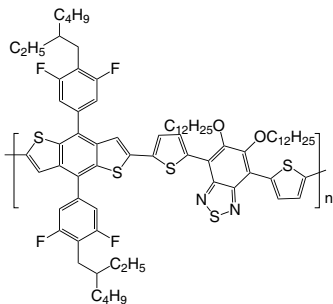
CAS No. : 1644164-62-4
 Grade : Mw > 30,000
 Formula : (C₆₂H₈₈F₂N₂S₅)_n



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]

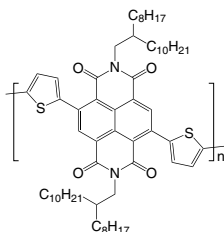
CAS No. : 1840869-86-4
 Grade : Mw > 20,000 (GPC)
 Formula : (C₇₆H₉₄F₄N₂O₂S₅)_n
 UV : 414, 542 nm (in DCB)



LT-S9282 | P(NDI2OD-T2)

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

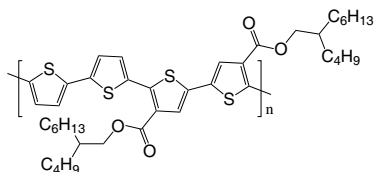
CAS No. : 1100243-40-0
 Grade : Mw > 10,000 (GPC)
 Formula : (C₆₂H₈₈N₂O₄S₂)_n



LT-S9288 | PDCBT

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

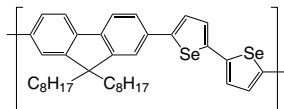
CAS No. : 1609536-17-5
 Grade : Mw > 10,000 (GPC)
 Formula : (C₄₂H₅₆O₄S₄)_n
 UV : 551 nm (film)



LT-S9420 | F8Se2

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

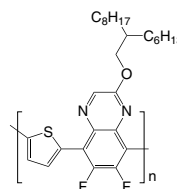
CAS No. : 898233-56-2
 Formula : (C₃₇H₄₄Se₂)_n



LT-S9435 | PTQ10

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

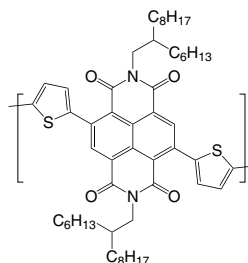
CAS No. : 2270233-86-6
 Grade : Mw > 10,000 (GPC)
 Formula : (C₂₈H₃₆F₂N₂O₂S)_n
 UV : A strong Absorption from 450 to 620 nm (in CHCl₃ and film)
 HOMO : -5.54 eV
 LUMO : -2.98 eV



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)]

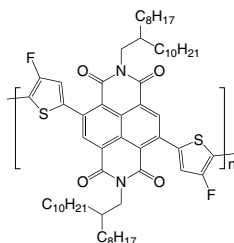
CAS No. : 1459168-70-7
 Grade : Mw > 10,000 (GPC)
 Formula : (C₅₄H₇₂N₂O₄S₂)_n



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)]

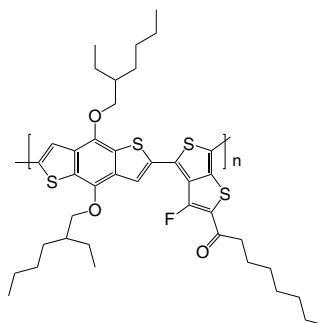
CAS No. : 1773524-46-1
 Grade : Mw > 10,000 (GPC)
 Formula : (C₆₂H₈₆F₂N₂O₄S₂)_n
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S9452 | PBDTTT-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]]

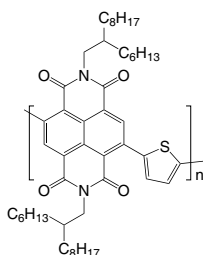
CAS No. : 1379592-65-0
 Grade : Mw > 50,000 (GPC)
 Formula : (C₄₀H₅₁FO₃S₄)_n



LT-S9454 | PNDI(2HD)T

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

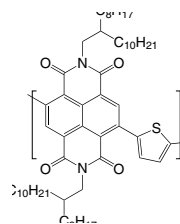
CAS No. : 1675973-74-6
 Grade : Mw > 10,000 (GPC)
 Formula : (C₅₀H₇₀N₂O₄S)_n
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



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]

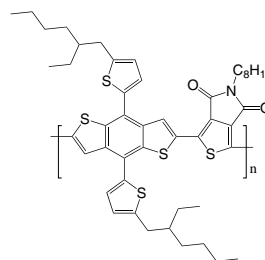
CAS No. : 1236111-76-4
 Grade : Mw > 10,000 (GPC)
 Formula : (C₅₈H₈₆N₂O₄S)_n
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



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]}

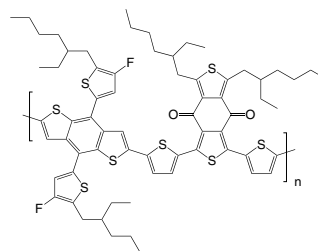
CAS No. : 1426534-44-2
 Grade : Mw = 50,000-150,000 (GPC)
 Formula : (C₄₈H₅₇NO₂S₅)_n
 UV : 557, 614 nm (film)



LT-S9457 | PM6 (PBDB-T-2F)

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,8H-benzo[1,2-c:4,5-c']-dithiophene-1,3-diyl]-2,5-thiophenediyl]

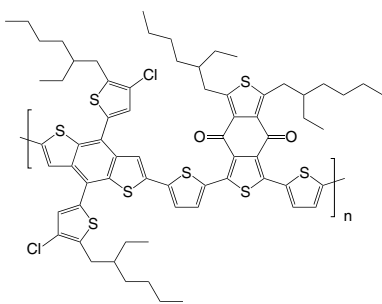
CAS No. : 1802013-83-7
 Grade : Mw = 10000~100000 (GPC)
 Formula : (C₆₈H₇₆F₂O₂S₈)_n
 UV : 614 nm (in CHCl₃)
 HOMO : -5.45 eV
 LUMO : -3.65 eV



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 : (C₆₈H₇₆Cl₂O₂S₈)_n
 PCE : 14%

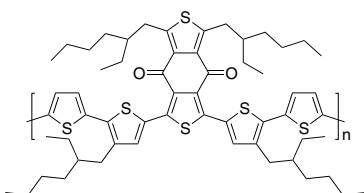


LT-S9459 | PBDD4T

NEW

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(2-ethylhexyl)[2,2':5,2'':5'',2'''-quaterthiophene]-5,5'''-diyl]]

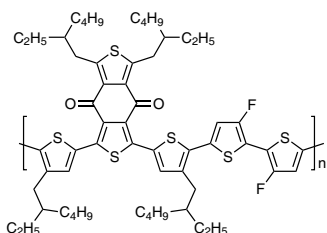
CAS No. : 1439937-09-3
 Grade : Mw > 10,000
 Formula : (C₅₈H₇₄O₂S₆)_n



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(2-ethylhexyl)-3',4'-difluoro[2,2':5,2'':5'',2'''-quaterthiophene]-5,5'''-diyl]]

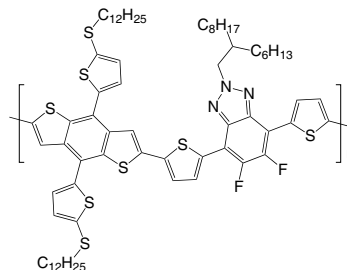
CAS No. : 1890205-85-2
 Grade : Mw > 10,000 (GPC)
 Formula : (C₅₈H₇₂F₂O₂S₆)_n
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



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]

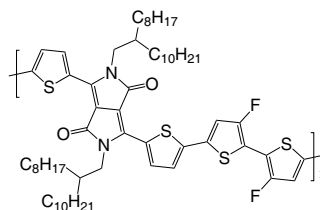
CAS No. : 1887136-03-9
 Grade : Mw = 50,000-150,000 (GPC)
 Formula : (C₇₂H₉₃F₂N₃S₈)_n
 PCE : 11.77%



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]]

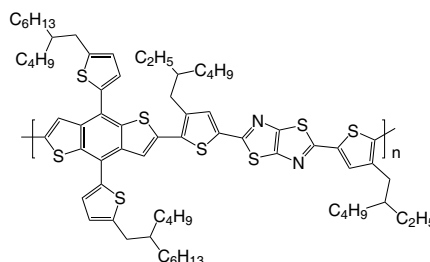
CAS No. : 1926166-46-2
 Grade : Mw = 20,000~200,000 (GPC)
 Formula : (C₇₀H₁₀₄F₂N₂O₂S₄)_n



LT-S9465 | PTZ1

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

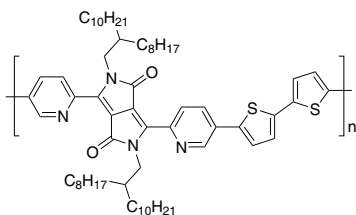
CAS No. : 2029196-34-5
 Grade : Mw = 10,000-50,000 (GPC)
 Formula : (C₇₀H₉₂N₂S₈)_n



LT-S9467 | PDBPyBT **NEW**

Poly(2,5-bis(2-octyldecyl)-3,6-di(pyridin-2-yl)-pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione-alt-2,2'-bithiophene)

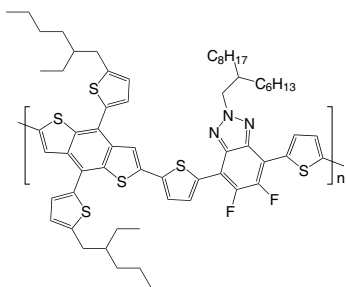
CAS No. : 1455028-36-0
 Formula : $(C_{64}H_{92}N_4O_2S_2)_n$
 M.W. : $M_w > 10,000$



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]

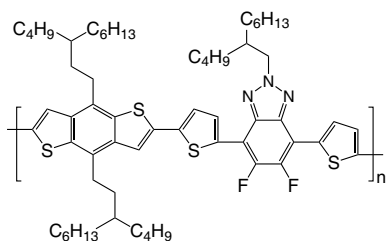
CAS No. : 1887136-01-7
 Grade : $M_w > 10,000$ (GPC)
 Formula : $(C_{64}H_{77}F_2N_3S_6)_n$
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-S9497 | FTAZ

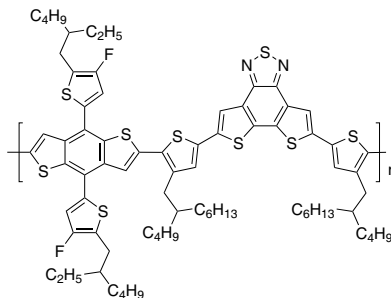
Poly[4,8-bis(3-butylononyl)benzo[1,2-b:4,5-b']dithiophene-2,6-diyl-alt-5,6-difluoro-2-(2-butyldecyl)-4,7-di(thiophen-2-yl)-2H-benzo[d][1,2,3]triazole-5,5-diyl]

Grade : $M_w > 10,000$ (GPC)
 Formula : $(C_{62}H_{85}F_2N_3S_4)_n$
 PCE : 12.1% (with ITIC-Th₁)
 HOMO : -5.38 eV
 LUMO : -3.17 eV

LT-S9502 | D18 **NEW**

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-butyldecyl)thiophen)]dithieno-[3',2':3,4;2'',3'':5,6]benzo[1,2-c][1,2,5]thiadiazole)]

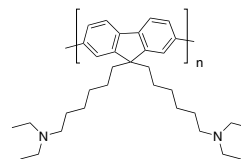
CAS No. : 2433725-54-1
 Grade : $M_w > 30,000$ (GPC)
 Formula : $(C_{76}H_{92}F_2N_2S_9)_n$



LT-S9506 | PFN100

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

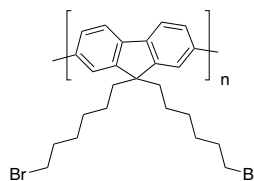
CAS No. : 1305335-08-3
 Grade : $M_w = 30,000 \sim 100,000$
 Formula : $(C_{33}H_{50}N_2)_n$
 HOMO : -5.54 eV
 LUMO : -3.58 eV
 Mobility : $8.14 \times 10^{-4} \text{ cm}^2/\text{Vs}$



LT-S9509

Poly[(9,9-bis(6-bromohexyl)-2,7-fluorene]

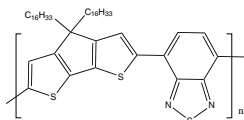
Grade : $M_w = 30,000 \sim 100,000$
 Formula : $(C_{25}H_{30}Br_2)_n$



LT-S9537 | CDT-BTZ

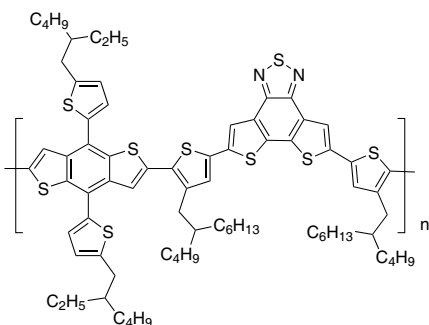
Poly[2,1,3-benzothiadiazole-4,7-diyl(4,4-dihexadecyl-4H-cyclopenta[2,1-b:3,4-b']dithiophene-2,6-diyl)]

CAS No. : 1079041-67-0
 Grade : Mw > 10000
 Formula : (C₄₇H₇₀N₂S₃)_n

**LT-S9585** | JD40

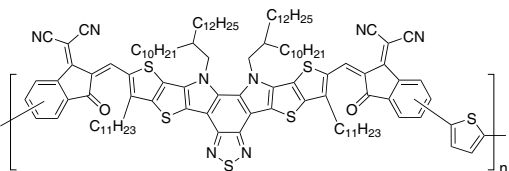
Poly[(4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene-2,6-diyl)-alt-(5,8-[tributyl(4-(2-butyloctyl)thiophen)]dithieno-[3',2':3,4;2'',3'':5,6]benzo[1,2-c][1,2,5]thiadiazole)]

Grade : Mw > 30000
 Formula : (C₇₆H₉₄N₂S₉)_n
 UV : 580 nm (in CHCl₃)
 HOMO : -5.28 eV
 LUMO : -3.32 eV

**LT-S9590** | PJ1

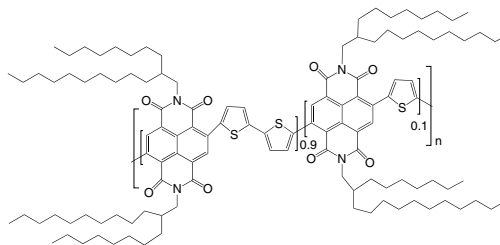
Poly[[12,13-bis(2-decyltetradecyl)-12,13-dihydro-3,9-diundecylbisthieno[2'',3'':4',5']thieno[2',3':4,5]pyrrolo[3,2-e:2',3'-g][2,1,3]benzothiadiazole-2,10-diyl]methylidyne[1-(dicyanomethylene)-1,3-dihydro-3-oxo-2H-inden-yl-2-ylidene]-2,5-thiophenediyl[1-(dicyanomethylene)-1,3-dihydro-3-oxo-2H-inden-yl-2-ylidene]methylidyne]

CAS No. : 2411023-04-4
 Grade : Mw > 10000
 Formula : (C₁₁₈H₁₅₄N₈O₂S₆)_n
 UV : 765 nm (in CHCl₃)
 HOMO : -5.61 eV
 LUMO : -3.80 eV

**NEW****LT-S9610** | PNDI-T10 (PCE9, high mobility n-type polymer)

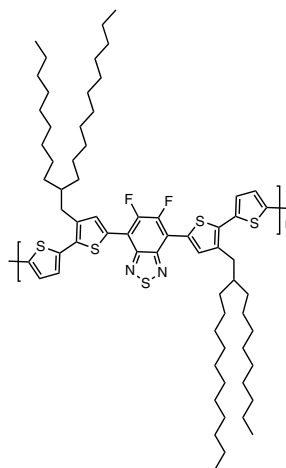
Poly{[([N,N'-bis(2-octyldodecyl),aphthalene-1,4,5,8-bis(dicarboximide)-2,6-diyl)-alt-5,5'-(2,2'-bithiophene)]-ran-([N,N'-bis(2-octyldodecyl),aphthalene-1,4,5,8-bis(dicarboximide)-2,6-diyl)-alt-2,5-thiophene]}

CAS No. : 1977539-03-9
 Grade : Mw > 100,000
 Formula : (C₆₂H₈₈N₂O₄S₂)_{0.9} · (C₅₈H₈₆N₂O₄S)_{0.1}

**LT-S9611** | PffBT4T-C9C13 (PCE12) **NEW**

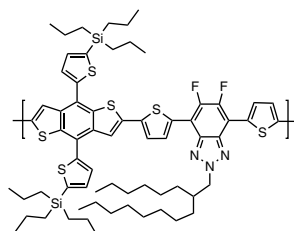
Poly[(5,6-difluoro-2,1,3-benzothiadiazol-4,7-diyl)-alt-(3,3''-di(2-nonyltridecyl)-2,2';5',2'';5'',2'''-quaterthiophen-5,5'''-diyl)]

Grade : Mw > 100,000
 Formula : (C₆₆H₉₇F₂N₂S₅)_n

**LT-S9612** | PJ71**NEW**

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

CAS No. : 2035466-89-6
 Grade : Mw > 100,000
 Formula : (C₆₆H₈₅F₂N₃S₆Si₂)_n



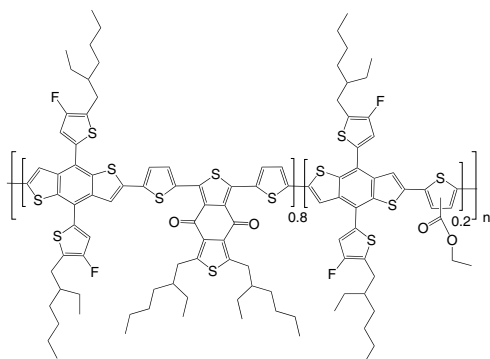
Our products are used for testing and research purpose; they are not guaranteed in patent contention by customer use.

LT-S9613 | PBDB-TF-T1 **NEW**

Poly[(2,6-(4,8-bis(5-(2-ethylhexyl-3-fluoro)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene))-alt-(5,5-(1',3'-di-2-thienyl-5',7'-bis(2-ethylhexyl)benzo[1',2'-c:4',5'-c']dithiophene-4,8-dione))-ran-poly[(2,6-(4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene))-alt-(2,2-ethyl-3(or4)-carboxylate-thiophene)]

Grade :Mw >50,000

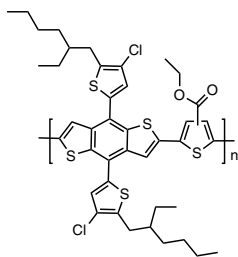
Formula :[(C₆₈H₇₆F₂O₂S₈)0.8(C₄₁H₄₄F₂O₂S₅)0.2]n

**LT-S9614** | PCITO2 **NEW**

Poly[(2,6-(4,8-bis(5-(2-ethylhexyl-3-chloro)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene))-alt-(2,2-ethyl-3(or4)-carboxylate-thiophene)]

Grade :Mw >50,000

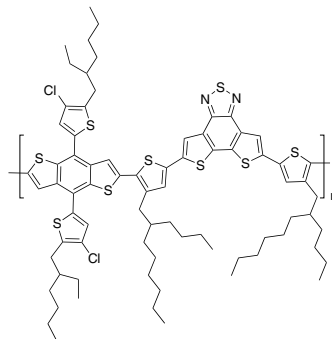
Formula :[(C₄₁H₄₄Cl₂O₂S₅)_n

**LT-S9615** | D18-Cl **NEW**

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

Grade :Mw >30,000

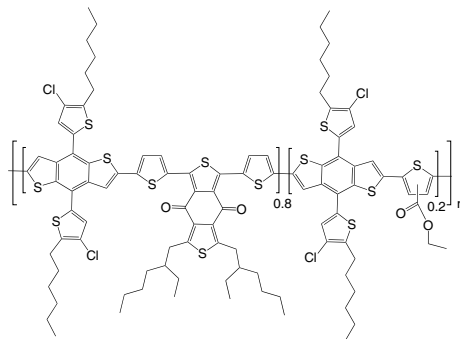
Formula :[(C₇₆H₉₂Cl₂N₂S₇)_n

**LT-S9616** | PBDB-TCI-T1 **NEW**

Poly[(2,6-(4,8-bis(5-(2-ethylhexyl-3-chloro)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene))-alt-(5,5-(1',3'-di-2-thienyl-5',7'-bis(2-ethylhexyl)benzo[1',2'-c:4',5'-c']dithiophene-4,8-dione))-ran-poly[(2,6-(4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene))-alt-(2,2-ethyl-3(or4)-carboxylate-thiophene)]

Grade :Mw >100,000

Formula :[(C₆₈H₇₆Cl₂O₂S₈)0.8(C₄₁H₄₄F₂O₂S₅)0.2]n



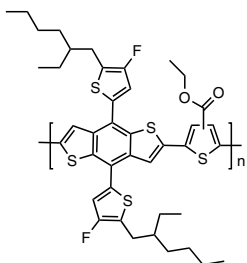
LT-S9617 | PTO2

NEW

Poly[(2,6-(4,8-bis(5-(2-ethylhexyl)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene))-alt-(2,2-ethyl-3(or4)-carboxylate-thiophene)]

Grade :Mw >50,000

Formula : $(C_{41}H_{44}F_2O_2S_5)_n$



LT-S9618

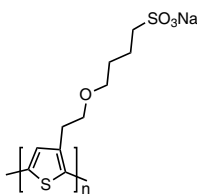
PTEBS Water Soluble Polythiophenes

NEW

Sodium poly[2-(3-thienyl)-ethoxy-4-butylsulfonate]

Grade :>99%

Formula : $(C_{10}H_{13}S_2O_4Na)_n$



LT-S9709 | J52-Cl

NEW

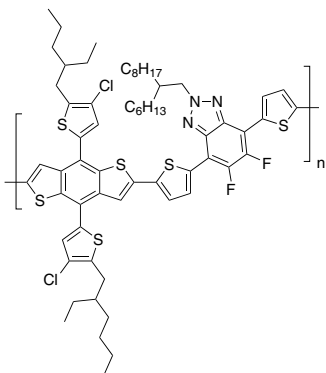
Poly[[5,6-difluoro-2-(2-hexyldecyl)-2H-benzotriazole-4,7-diyl]-2,5-thiophenediyl[4,8-bis[5-(2-ethylhexyl-3-chloro)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl]

Grade :Mw >20,000

Formula : $(C_{63}H_{73}Cl_2F_2N_3S_6)_n$

HOMO :-5.38 eV

LUMO :-3.44 eV



LT-S9710 | P4T2F-HD

NEW

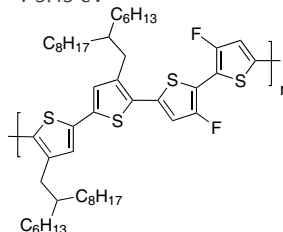
Poly(3,3'-dihexyldecyl-4''',4''''-difluoro[2,2':5',2''':5'',2''''-quaterthiophene]-5,5''''-diyl)

Grade :Mw >20,000

Formula : $(C_{48}H_{70}F_2S_4)_n$

HOMO :-5.35 eV

LUMO :-3.43 eV



LT-S9711 | PBQx-TF

NEW

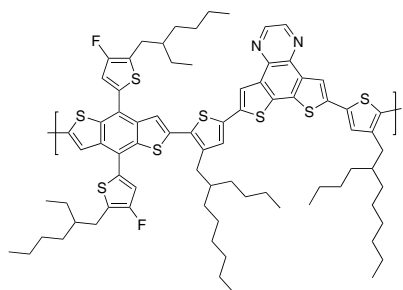
Poly[(2,6-(4,8-bis(5-(2-ethylhexyl-3-fluoro)thiophen-2-yl)-benzo[1,2-b:4,5-b']dithiophene))-alt-5,5'-(6,9-bis(4-(2-butyl)thiophen-2-yl)dithieno[3,2-f:2',3'-h]quinoxaline)]

Grade :Mw >20,000

Formula : $(C_{78}H_{94}F_2N_2S_8)_n$

HOMO :-5.41 eV

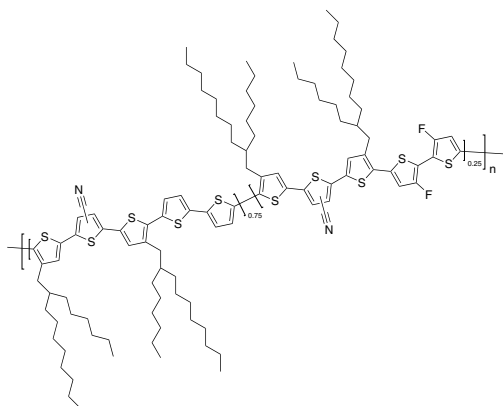
LUMO :-2.82 eV



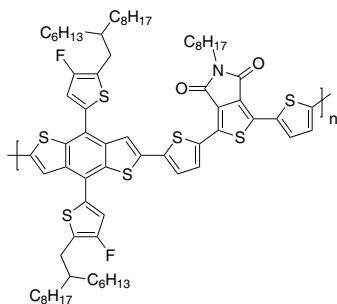
LT-S9728 | P5TCN-F25 **NEW**

Poly[[3,3''-bis(2-hexyldecyl)-3'(4')-cyano[2,2':5',2''':5'',2''''':5''''',2''''''-quinquethiophene]-5,5''''-diyl]-alt-[3,3''-bis(2-hexyldecyl)-3'(4')-cyano-3''',4''''-difluoro[2,2':5',2''':5'',2''''':5''''',2''''''-quinquethiophene]-5,5''''-diyl]]

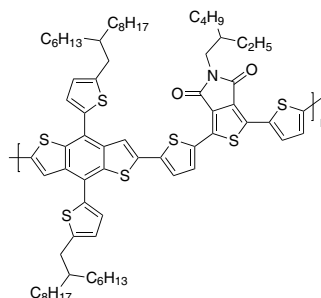
Grade :Mw >40,000 (GPC)

**LT-S9743** | TPD-3F **NEW**

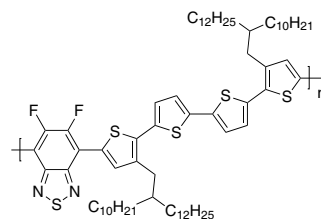
CAS No. :2499690-26-3
 Formula : $(C_{72}H_{91}F_2NO_2S_7)_n$
 M.W. :Mw >30,000
 UV :555 nm (in o-xylene, film)
 HOMO :-5.64 eV
 LUMO :-3.76 eV

**LT-S9744** | PT-7 **NEW**

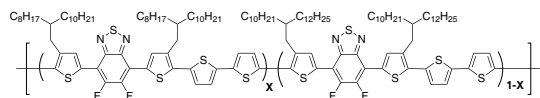
Grade :Mw >40,000
 Formula : $(C_{72}H_{93}NO_2S_7)_n$
 UV :558 nm (in o-xylene, film)
 HOMO :-5.44 eV
 LUMO :-3.56 eV

**LT-S9745** | PV3006 **NEW**

CAS No. :1430201-61-8
 Grade :Mw >40,000
 Formula : $(C_{70}H_{104}F_2N_2S_5)_n$
 UV :702 nm (in CB)
 HOMO :-5.36 eV
 LUMO :-3.74 eV
 Synonym :FBT- $Th_4(1,4)$

**LT-S9746** | PV5001 **NEW**

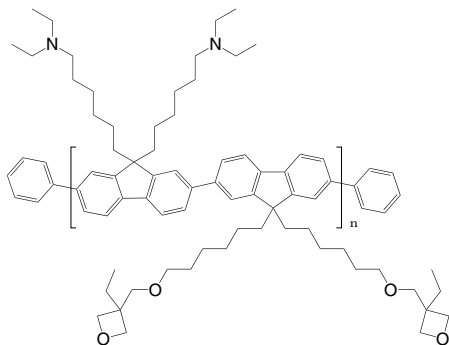
CAS No. :2221940-37-8
 Formula : $(C_{66}H_{96}F_2N_2S_5)_n$
 UV :702 nm (in CB)
 Synonym :PffBT $_4$ T-500D



LT-N177 | PFN-OX

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

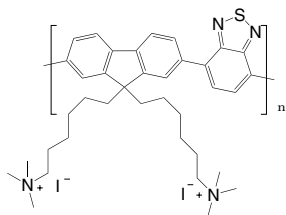
CAS No. : 1345045-27-3
 Formula : $(C_{70}H_{102}N_2O_4)_n C_{12}H_{10}$
 UV : 378 ± 10 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$



LT-N181 | PFNIBT

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

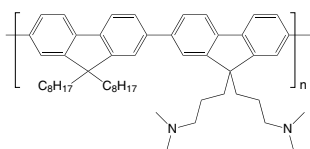
Grade : Mw > 10,000 (GPC)
 Formula : $(C_{35}H_{42}N_4S)_n$
 UV : 317, 448 nm (in DMSO)
 Solubility : Soluble in MeOH



LT-N4027 | PFN-DOF

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

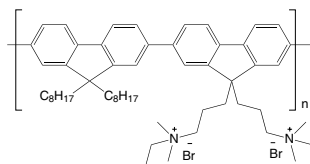
CAS No. : 673474-75-4
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{52}H_{70}N_2)_n$
 UV : 378 nm (in CH_2Cl_2)
 PL : 414 nm (in CH_2Cl_2)
 Solubility : Soluble in CH_2Cl_2 , $CHCl_3$, Toluene



LT-N878 | PFN-Br

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

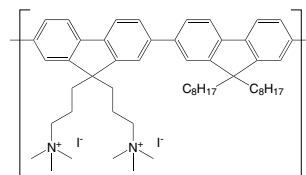
CAS No. : 889672-99-5
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{56}H_{80}N_2Br_2)_n$
 UV : 375 nm (in MeOH)
 PL : 440 nm (in MeOH)
 Solubility : Soluble in MeOH



LT-N8006 | PFN-diiodine salt

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

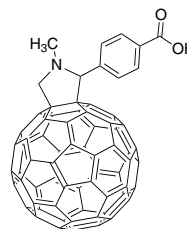
CAS No. : 1687752-60-8
 Grade : Mw = 10,000 ~ 100,000 (GPC)
 Formula : $(C_{56}H_{80}N_2I_2)_n$



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

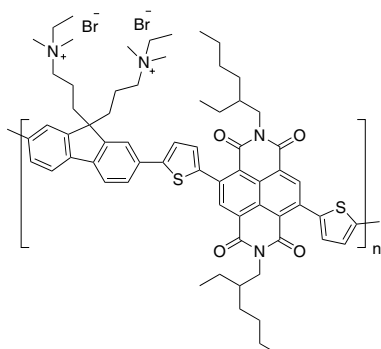
CAS No. : 631918-72-4
 Grade : > 99%
 Formula : $C_{70}H_{11}NO_2$
 M.W. : 897.84 g/mole
 UV : 345 nm (in CH_2Cl_2)



LT-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-diy]-2,5-thiophenediy][9,9-bis[3'((N,N-dimethyl)-N-ethylammonium)]-propyl]-9H-fluorene-2,7-diy]-2,5-thiophenediy]

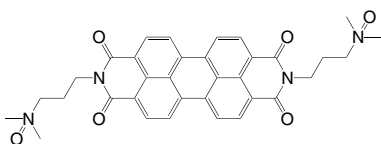
CAS No. : 2169941-79-9
 Grade : Mw > 10,000 (GPC)
 Formula : (C₆₅H₈₀Br₂N₄O₄S₂)_n
 UV : 380, 580 nm (in Methanol)



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

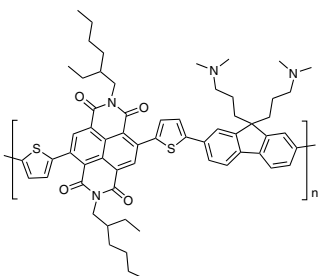
CAS No. : 1558023-86-1
 Grade : >97%
 Formula : C₃₄H₃₂N₄O₆
 M.W. : 592.64 g/mole
 HOMO : -6.21 eV
 LUMO : -3.63 eV



LT-S9490 | PNDIT-F3N NEW

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

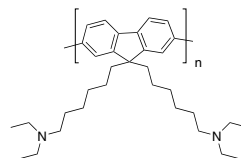
CAS No. : 1800206-46-5
 Grade : M.W > 10,000
 Formula : (C₆₁H₇₀N₄O₄S₂)_n



LT-S9506 | PFN100

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

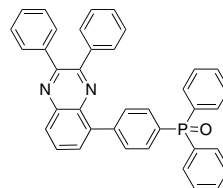
CAS No. : 1305335-08-3
 Grade : Mw = 30,000~100,000
 Formula : (C₃₃H₅₀N₂)_n
 HOMO : -5.54 eV
 LUMO : -3.58 eV
 Mobility : 8.14x10⁻⁴ cm²/Vs



LT-S9562 | QxTPPO1

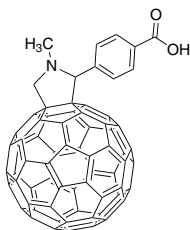
(4-(2,3-Diphenylquinoxalin-5-yl) phenyl)diphenylphosphine oxide

Grade : Sublimed >99%
 Formula : C₃₈H₂₇N₂OP
 M.W. : 558.61 g/mole
 UV : 265 nm (IPA)
 HOMO : -6.22 eV
 LUMO : -3.01 eV



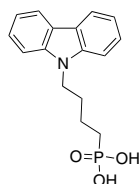
LT-S9161 | C₆₀-COOH-SAM4-(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno-C₆₀-1h-[1,9-c]-pyrrol-2'-yl)benzoic acid

CAS No. : 631918-72-4
 Grade : >99%
 Formula : C₇₀H₁₁NO₂
 M.W. : 897.84 g/mole
 UV : 345 nm (in CH₂Cl₂)

**LT-S9567** | 4PACz

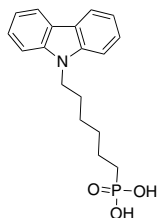
(4-(9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 20999-36-4
 Grade : >99%
 Formula : C₁₆H₁₈NO₃P
 M.W. : 303.29 g/mole

**LT-S9568** | 6PACz

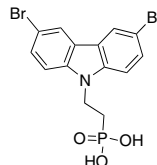
(6-(9H-carbazol-9-yl)hexyl)phosphonic acid

CAS No. : 3015516-21-6
 Grade : >99%
 Formula : C₁₈H₂₂NO₃P
 M.W. : 331.35 g/mole

**LT-S9569** | Br-2PACz

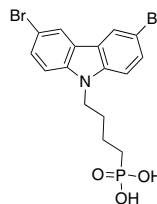
(2-(3,6-Dibromo-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 2762888-11-7
 Grade : >99%
 Formula : C₁₄H₁₂Br₂NO₃P
 M.W. : 433.03 g/mole
 HOMO : -6.01 eV
 LUMO : -2.64 eV

**LT-S9570** | Br-4PACz

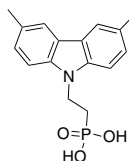
(4-(3,6-Dibromo-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2996161-28-3
 Grade : >99%
 Formula : C₁₆H₁₆Br₂NO₃P
 M.W. : 461.08 g/mole

**LT-S9571** | Me-2PACz

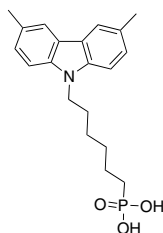
(2-(3,6-Dimethyl-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade : >99%
 Formula : C₁₆H₁₈NO₃P
 M.W. : 303.29 g/mole

**LT-S9572** | Me-6PACz

(6-(3,6-Dimethyl-9H-carbazol-9-yl)hexyl)phosphonic acid

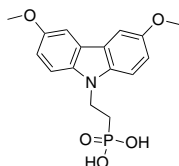
CAS No. : 2996161-29-4
 Grade : >99%
 Formula : C₂₀H₂₆NO₃P
 M.W. : 359.4 g/mole



LT-S9573 | MeO-2PACz

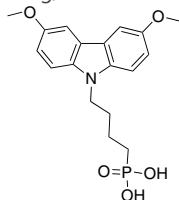
(2-(3,6-Dimethoxy-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. :2377770-18-6
 Grade :>99%
 Formula :C₁₆H₁₈NO₅P
 M.W. :335.29 g/mole
 HOMO :-5.3 eV
 LUMO :-2.12 eV

**LT-S9574** | MeO-4PACz

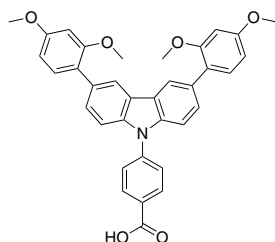
(4-(3,6-Dimethoxy-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. :2922526-56-3
 Grade :>99%
 Formula :C₁₈H₂₂NO₅P
 M.W. :363.34 g/mole

**LT-S9583** | EADR03

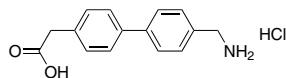
4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)benzoic acid

CAS No. :2918298-65-2
 Grade :>99%
 Formula :C₃₅H₂₉NO₆
 M.W. :559.61 g/mole
 HOMO :-5.05 eV
 LUMO :-1.77 eV

**LT-S9647**

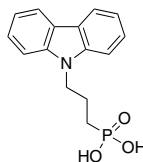
4'-(Aminomethyl)-[1,1'-biphenyl]-4-acetic acid

Grade :>99%
 Formula :C₁₅H₁₆ClNO₂
 M.W. :277.75 g/mole

**LT-S9648** | 3PACz

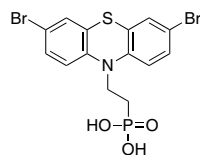
(3-(9H-carbazol-9-yl)propyl)phosphonic acid

CAS No. :915376-57-7
 Grade :>99%
 Formula :C₁₅H₁₆NO₃P
 M.W. :289.27 g/mole

**LT-S9649** | Br-2EPT

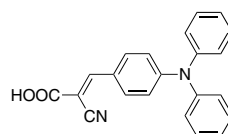
(2-(3,7-Dibromo-10H-phenothiazin-10-yl)ethyl)phosphonic acid

CAS No. :2826271-17-2
 Grade :>99%
 Formula :C₁₄H₁₂BrNO₃PS
 M.W. :465.10 g/mole
 HOMO :-5.47 eV
 LUMO :-2.12 eV

**LT-S9650** | LS1

2-Cyano-3-[4-(N-phenylanilino)phenyl]prop-2-enoic acid

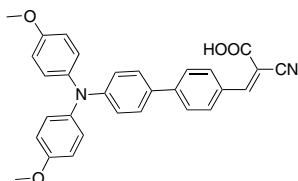
CAS No. :30388-31-9
 Grade :>99%
 Formula :C₂₂H₁₆N₂O₂
 M.W. :340.37 g/mole



LT-S9667 | MPA-Ph-CA

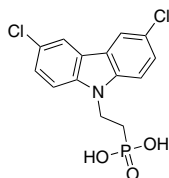
(Z)-3-(4'-(Bis(4-methoxyphenyl)amino)-[1,1'-biphenyl]-4-yl)-2-cyanoacrylic acid

CAS No. :1813558-55-2
 Grade :>99%
 Formula :C₃₀H₂₄N₂O₄
 M.W. :476.52 g/mole
 HOMO :-5.39 eV
 LUMO :-2.64 eV

**LT-S9673** | Cl-2PACz

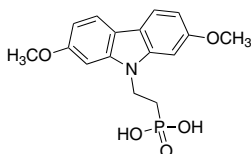
(2-(3,6-Dichloro-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade :>99%
 Formula :C₁₄H₁₂Cl₂NO₃P
 M.W. :344.13 g/mole
 HOMO :-6.05 eV
 LUMO :-2.67 eV

**LT-S9674** | DC-PA

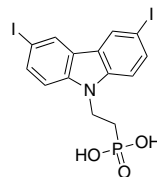
(2-(2,7-Dimethoxy-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade :>99%
 Formula :C₁₆H₁₈NO₅P
 M.W. :335.29 g/mole

**LT-S9675** | I-2PACz

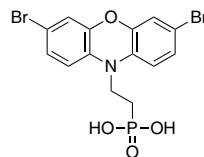
(2-(3,6-Diiodo-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade :>99%
 Formula :C₁₄H₁₂I₂NO₃P
 M.W. :527.03 g/mole
 HOMO :-5.98 eV
 LUMO :-2.61 eV

**LT-S9676** | Br-2EPO

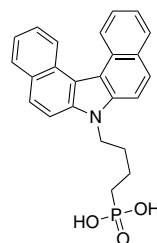
(2-(3,7-Dibromo-10H-phenoxazin-10-yl)ethyl)phosphonic acid

Grade :>99%
 Formula :C₁₄H₁₂Br₂NO₄P
 M.W. :449.03 g/mole
 HOMO :-5.25 eV
 LUMO :-1.81 eV

**LT-S9677** | CbzNaph

(4-(7H-dibenzo[c,g]carbazol-7-yl)butyl)phosphonic acid

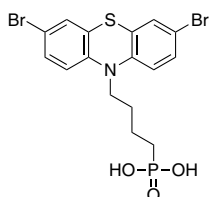
CAS No. :2882156-63-8
 Grade :>99%
 Formula :C₂₄H₂₂NO₃P
 M.W. :403.41 g/mole
 HOMO :-5.35 eV
 LUMO :-2.28 eV



LT-S9678 | 2BrPTZPA

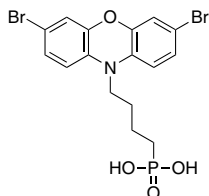
(4-(3,7-dibromo-10H-phenothiazin-10-yl)butyl)phosphonic acid

Grade :>99%
 Formula :C₁₆H₁₆Br₂NO₃PS
 M.W. :493.15 g/mole
 HOMO :-5.34 eV
 LUMO :-1.16 eV

**LT-S9679** | 2BrPXZPA

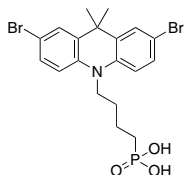
(4-(3,7-dibromo-10H-phenoxazin-10-yl)butyl)phosphonic acid

Grade :>99%
 Formula :C₁₆H₁₆Br₂NO₄P
 M.W. :477.08 g/mole
 HOMO :-5.22 eV
 LUMO :-1.01 eV

**LT-S9747** | DMAcPA **NEW**

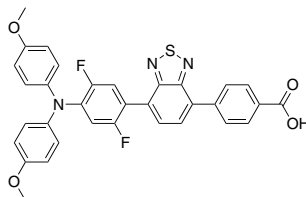
(4-(2,7-Dibromo-9,9-dimethylacridin-10(9H)-yl)butyl)phosphonic acid

CAS No :2971088-37-4
 Grade :>98%
 Formula :C₁₉H₂₂Br₂NO₃P
 M.W. :503.16 g/mole

**LT-S9748** | MPA2FPh-BT-BA **NEW**

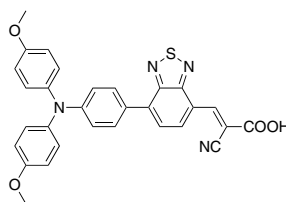
4-(7-(4-(Bis(4-methoxyphenyl)amino)-2,5-difluorophenyl)benzo[c][1,2,5]thiadiazol-4-yl)benzoic acid

Grade :>98%
 Formula :C₃₃H₂₃F₂N₃O₄S
 M.W. :595.62 g/mole

**LT-S9750** | MPA-BT-CA **NEW**

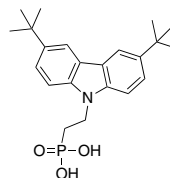
(E)-3-(7-(4-(Bis(4-methoxyphenyl)amino)phenyl)benzo[c][1,2,5]thiadiazol-4-yl)-2-cyanoacrylic acid

Grade :>98%
 Formula :C₃₀H₂₂N₄O₄S
 M.W. :534.59 g/mole
 UV :514 nm (in THF)
 HOMO :-5.29 eV
 LUMO :-3.26 eV

**LT-S9755** | tBu-2PACz

(2-(3,6-Di-tert-butyl-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade :>98%
 Formula :C₂₂H₃₀NO₃P
 M.W. :387.45 g/mole



LT-S9791

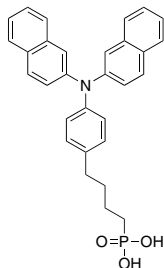
NEW

(4-(4-(Di(naphthalen-2-yl)amino)phenyl)butyl)phosphonic acid

Grade : >98%

Formula : $C_{30}H_{28}NO_3P$

M.W. : 481.52 g/mole



LT-S9792

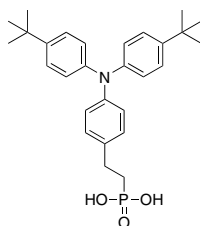
NEW

(4-(Bis(4-(tert-butyl)phenyl)amino)phenethyl)phosphonic acid

Grade : >98%

Formula : $C_{28}H_{36}NO_3P$

M.W. : 465.56 g/mole



LT-S9793

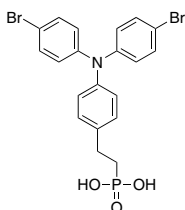
NEW

(4-(bis(4-bromophenyl)amino)phenethyl)phosphonic acid

Grade : >98%

Formula : $C_{20}H_{18}Br_2NO_3P$

M.W. : 511.14 g/mole



LT-S9794

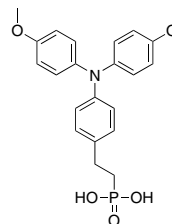
NEW

(4-(Bis(4-methoxyphenyl)amino)phenethyl)phosphonic acid

Grade : >98%

Formula : $C_{22}H_{24}NO_5P$

M.W. : 413.4 g/mole



LT-S9795

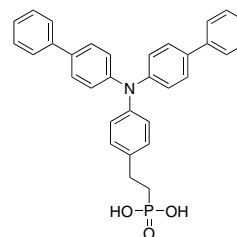
NEW

(4-(Di([1,1'-biphenyl]-4-yl)amino)phenethyl)phosphonic acid

Grade : >98%

Formula : $C_{32}H_{28}NO_3P$

M.W. : 505.54 g/mole



LT-S9796

NEW

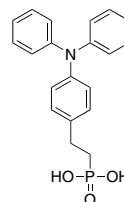
(4-(Diphenylamino)phenethyl)phosphonic acid

CAS No. : 3015516-16-9

Grade : >98%

Formula : $C_{20}H_{20}NO_3P$

M.W. : 353.35 g/mole



LT-S9797

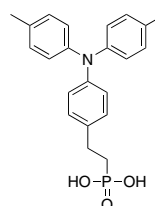
NEW

(4-(Di-p-tolylamino)phenethyl)phosphonic acid

Grade : >98%

Formula : $C_{22}H_{24}NO_3P$

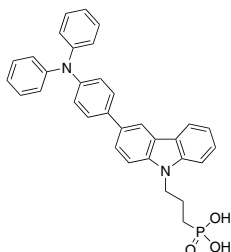
M.W. : 381.4 g/mole



LT-S9798 | 4dp3PACz **NEW**

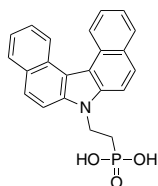
[3-[4-(Diphenylamino)phenyl]-9H-carbazol-9-yl] propylphosphonic acid

Grade : >98%
 Formula : $C_{33}H_{29}N_2O_3P$
 M.W. : 532.57 g/mole

**LT-S9799** | DCB-C2-POOH **NEW**

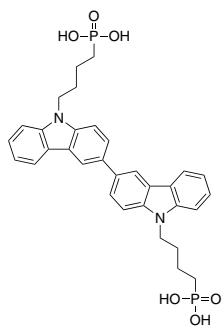
[2-(7H-dibenzo[c,g]carbazol-7-yl)ethyl]phosphonic acid

CAS No. : 2882156-61-6
 Grade : >99%
 Formula : $C_{22}H_{18}NO_3P$
 M.W. : 375.36 g/mole
 HOMO : -5.53 eV
 LUMO : -2.34 eV

**LT-S9800** | DCZ-C4POH **NEW**

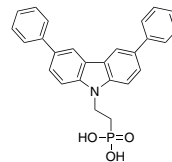
(9H,9'H-[3,3'-bicarbazole]-9,9'-diylbis(butane-4,1-diyl)) diphosphonic acid

Grade : >98%
 Formula : $C_{32}H_{34}N_2O_6P_2$
 M.W. : 604.57 g/mole

**LT-S9801** | Ph-2PACz **NEW**

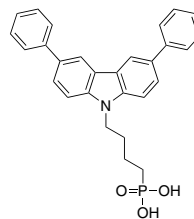
(2-(3,6-Diphenyl-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade : >99%
 Formula : $C_{26}H_{22}NO_3P$
 M.W. : 427.43 g/mole

**LT-S9802** | Ph-4PACz **NEW**

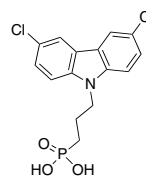
(4-(3,6-Diphenyl-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2814500-04-2
 Grade : >99%
 Formula : $C_{28}H_{26}NO_3P$
 M.W. : 455.48 g/mole

**LT-S9851** | Cl-3PACz **NEW**

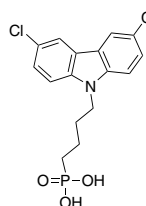
(4-(3,6-Dichloro-9H-carbazol-9-yl)propyl)phosphonic acid

CAS No. :
 Grade : >99%
 Formula : $C_{15}H_{14}Cl_2NO_3P$
 M.W. : 358.16 g/mole

**LT-S9852** | Cl-4PACz **NEW**

(4-(3,6-Dichloro-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : >99%
 Formula : $C_{16}H_{16}Cl_2NO_3P$
 M.W. : 372.18 g/mole

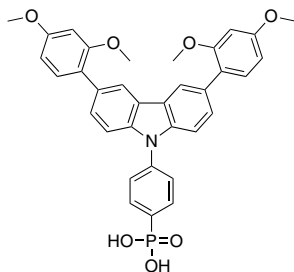


LT-S9842

NEW

(4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)phenyl) phosphonic acid

Grade : >98%
Formula : $C_{34}H_{30}NO_7P$
M.W. : 595.58 g/mole

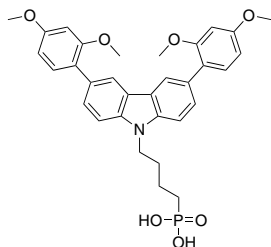


LT-S9843

NEW

(4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)butyl) phosphonic acid

CAS No : 2986396-31-8
Grade : >98%
Formula : $C_{32}H_{34}NO_7P$
M.W. : 575.59 g/mole

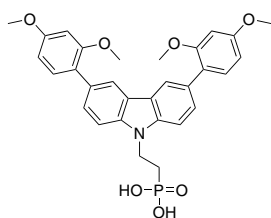


LT-S9844

NEW

(2-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)ethyl) phosphonic acid

CAS No : 2986396-25-0
Grade : >98%
Formula : $C_{30}H_{30}NO_7P$
M.W. : 547.54 g/mole



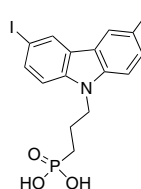
LT-S9855

I-3PACz

NEW

(4-(3,6-Diiodo-9H-carbazol-9-yl)propyl)phosphonic acid

Grade : >99%
Formula : $C_{15}H_{14}I_2NO_3P$
M.W. : 541.06 g/mole



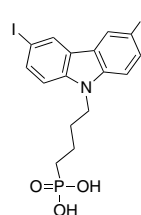
LT-S9856

I-4PACz

NEW

(4-(3,6-Diiodo-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : >99%
Formula : $C_{16}H_{16}I_2NO_3P$
M.W. : 555.09 g/mole



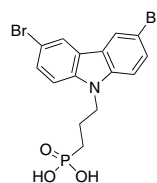
LT-S9857

Br-3PACz

NEW

(4-(3,6-Dibromo-9H-carbazol-9-yl)propyl)phosphonic acid

Grade : >99%
Formula : $C_{15}H_{14}Br_2NO_3P$
M.W. : 447.06 g/mole



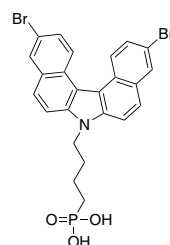
LT-S9859

Br-4PADBC

NEW

(4-(3,11-Dibromo-7H-dibenzo[c,g]carbazol-7-yl)butyl) phosphonic acid

Grade : >98%
Formula : $C_{24}H_{20}Br_2NO_3P$
M.W. : 561.2 g/mole

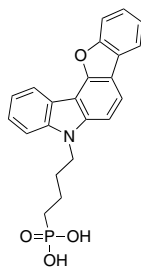


LT-S9860 | CbzBF

NEW

(4-(5H-benzofuro[3,2-c]carbazol-5-yl)butyl)phosphonic acid

Grade : > 98%
 Formula : $C_{22}H_{20}NO_4P$
 M.W. : 393.37 g/mole
 HOMO : -5.5 eV
 LUMO : -1.15 eV

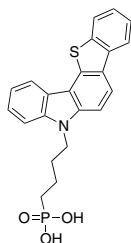


LT-S9861 | CbzBT

NEW

(4-(5H-benzo[4,5]thieno[3,2-c]carbazol-5-yl)butyl)phosphonic acid

Grade : > 98%
 Formula : $C_{22}H_{20}NO_3PS$
 M.W. : 409.44 g/mole
 HOMO : -5.54 eV
 LUMO : -1.17 eV

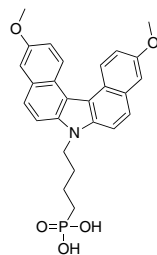


LT-S9862 | MeO-4PADBC

NEW

(4-(3,11-Dimethoxy-7H-dibenzo[c,g]carbazol-7-yl)butyl) phosphonic acid

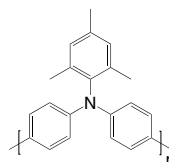
Grade : > 98%
 Formula : $C_{26}H_{26}NO_5P$
 M.W. : 463.46 g/mole
 HOMO : -4.91 eV
 LUMO : -1.15 eV



LT-N168 | PTAA

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

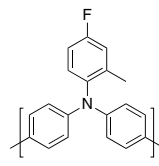
CAS No. : 1333317-99-9
 Grade : Mw = 20,000~100,000 (GPC)
 Formula : $(C_{21}H_{19}N)_n$
 UV : 388 nm (in CH_2Cl_2)
 PL : 424 nm (in CH_2Cl_2)
 Solvent : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-N1021 | 1F-PTAA

Poly(bis(4-phenyl)(4-fluoro-2-methylphenyl)amine)

Grade : Mw > 20,000
 Formula : $(C_{19}H_{14}FN)_n$
 HOMO : -5.52 eV
 LUMO : -2.55 eV

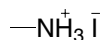


Perovskite Precursor

LT-S9126 | MAI

Methylammonium iodide

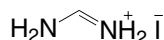
CAS No. : 14965-49-2
 Grade : >99.5% , recrystallized 4 times
 Formula : CH₆I
 M.W. : 158.97 g/mole



LT-S9136 | FAI

Formamidinium iodide

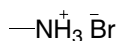
CAS No. : 879643-71-7
 Grade : >99.5% , recrystallized 4 times
 Formula : CH₅IN₂⁺
 M.W. : 171.97 g/mole



LT-S9137 | MABr

Methylammonium bromide

CAS No. : 6876-37-5
 Grade : >99.5% , recrystallized 4 times
 Formula : CH₆BrN
 M.W. : 111.97 g/mole

LT-S9147 | Pbl₂

Lead(II) iodide

CAS No. : 10101-63-0
 Grade : 99.999% (trace metals basis)
 Formula : Pbl₂
 M.W. : 461.01 g/mole

LT-S9148 | PbCl₂

Lead(II) chloride

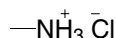
CAS No. : 7758-95-4
 Grade : 99.999% (trace metals basis)
 Formula : PbCl₂
 M.W. : 278.11 g/mole



LT-S9151 | MACl

Methylammonium chloride

CAS No. : 593-51-1
 Grade : >99.5% , recrystallized 4 times
 Formula : CH₆ClN
 M.W. : 67.52 g/mole

LT-S9152 | PbBr₂

Lead(II) bromide

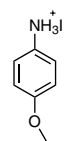
CAS No. : 10031-22-8
 Grade : 99.999% trace metals basis
 Formula : PbBr₂
 M.W. : 367.01 g/mole



LT-S9206 |

4-Methoxyphenylammonium iodide

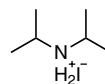
Grade : >99.5% , recrystallized 4 times
 Formula : C₇H₁₀INO
 M.W. : 251.06 g/mole



LT-S9207 |

Diisopropylammonium iodide

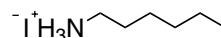
Grade : >99.5% , recrystallized 4 times
 Formula : C₆H₁₆IN
 M.W. : 229.1 g/mole



LT-S9208 |

Hexylammonium iodide

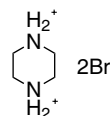
Grade : >99.5% , recrystallized 4 times
 Formula : C₆H₁₆IN
 M.W. : 229.1 g/mole



LT-S9217 |

Piperazine-1,4-dium bromide

CAS No. : 59813-05-7
 Grade : >99.5% , recrystallized 4 times
 Formula : C₄H₁₂Br₂N₂⁺
 M.W. : 247.96 g/mole

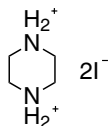


Perovskite Precursor

LT-S9218

Piperazine-1,4-dium iodide

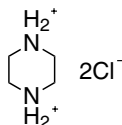
CAS No. : 58464-47-4
 Grade : >99% (NMR & EA)
 Formula : $C_4H_{12}N_2$
 M.W. : 341.96 g/mole



LT-S9219

Piperazine-1,4-dium chloride

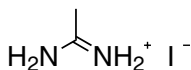
CAS No. : 142-64-3
 Grade : >99.5%, recrystallized 4 times
 Formula : $C_4H_{12}Cl_2N_2$
 M.W. : 159.06 g/mole



LT-S9220

Acetamidinium iodide

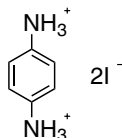
CAS No. : 1452099-14-7
 Grade : >99.5%, recrystallized 4 times
 Formula : $C_2H_7IN_2$
 M.W. : 185.99 g/mole



LT-S9224

1,4-Benzene diammonium iodide

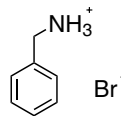
CAS No. : 116469-02-4
 Grade : >99.5%, recrystallized 4 times
 Formula : $C_6H_{10}N_2$
 M.W. : 363.97 g/mole



LT-S9225

Benzylammonium bromide

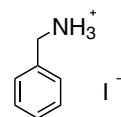
CAS No. : 37488-40-7
 Grade : >99.5%, recrystallized 4 times
 Formula : $C_7H_{10}BrN$
 M.W. : 188.06 g/mole



LT-S9226

Benzylammonium iodide

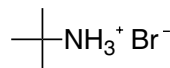
Grade : >99.5%, recrystallized 4 times
 Formula : $C_7H_{10}IN$
 M.W. : 235.07 g/mole



LT-S9227

t-Butylammonium bromide

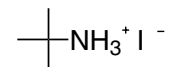
CAS No. : 60469-70-7
 Grade : >99.5%, recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9228

t-Butylammonium iodide

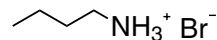
CAS No. : 39557-45-4
 Grade : >99.5%, recrystallized 4 times
 Formula : $C_4H_{12}IN$
 M.W. : 201.05 g/mole



LT-S9229

n-Butylammonium bromide

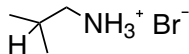
CAS No. : 15567-09-6
 Grade : >99.5%, recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9230

iso-Butylammonium bromide

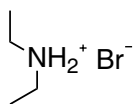
Grade : >99.5% , recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9231

Diethylammonium bromide

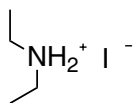
CAS No. : 6274-12-0
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_4H_{12}BrN$
 M.W. : 154.05 g/mole



LT-S9232

Diethylammonium iodide

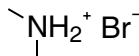
CAS No. : 19833-78-4
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_4H_{12}IN$
 M.W. : 201.05 g/mole



LT-S9233

Dimethylammonium bromide

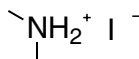
CAS No. : 6912-12-5
 Grade : >99.5% , recrystallized 4 times
 Formula : C_2H_8BrN
 M.W. : 126 g/mole



LT-S9234

Dimethylammonium iodide

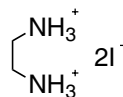
CAS No. : 51066-74-1
 Grade : >99.5% , recrystallized 4 times
 Formula : C_2H_8IN
 M.W. : 173 g/mole



LT-S9235

1,2-Diammoniummethane iodide

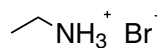
CAS No. : 5700-49-2
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_2H_{10}I_2N_2$
 M.W. : 315.92 g/mole



LT-S9236

Ethylammonium bromide

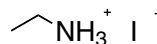
CAS No. : 593-55-5
 Grade : >99.5% , recrystallized 4 times
 Formula : C_2H_8BrN
 M.W. : 125.99 g/mole



LT-S9237

Ethylammonium iodide

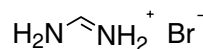
CAS No. : 506-58-1
 Grade : >99.5% , recrystallized 4 times
 Formula : C_2H_8IN
 M.W. : 173 g/mole



LT-S9238 FABr

Formamidinium bromide

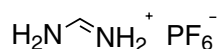
CAS No. : 146958-06-7
 Grade : >99.5% , recrystallized 4 times
 Formula : CH_5BrN_2
 M.W. : 124.97 g/mole



LT-S9239

Formamidinium hexafluorophosphate

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

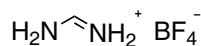


Perovskite Precursor

LT-S9240

Formamidinium tetrafluoroborate

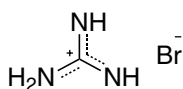
Grade : >99.5%, recrystallized 4 times
 Formula : $\text{CH}_5\text{BF}_4\text{N}_2$
 M.W. : 131.87 g/mole



LT-S9241

Guanidinium bromide

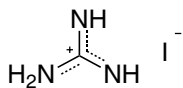
CAS No. : 19244-98-5
 Grade : >99.5%, recrystallized 4 times
 Formula : CH_6BrN_3
 M.W. : 139.98 g/mole



LT-S9242

Guanidinium iodide

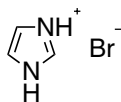
CAS No. : 19227-70-4
 Grade : >99.5%, recrystallized 4 times
 Formula : CH_6IN_3
 M.W. : 186.98 g/mole



LT-S9243

Imidazolium bromide

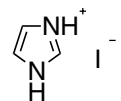
CAS No. : 101023-55-6
 Grade : >99.5%, recrystallized 4 times
 Formula : $\text{C}_3\text{H}_5\text{BrN}_2$
 M.W. : 148.99 g/mole



LT-S9244

Imidazolium iodide

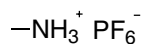
CAS No. : 68007-08-9
 Grade : >99.5%, recrystallized 4 times
 Formula : $\text{C}_3\text{H}_5\text{IN}_2$
 M.W. : 195.99 g/mole



LT-S9245

Methylammonium hexafluorophosphate

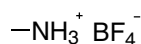
CAS No. : 28302-50-3
 Grade : >99.5%, recrystallized 4 times
 Formula : $\text{CH}_6\text{PF}_6\text{N}$
 M.W. : 177.03 g/mole



LT-S9246

Methylammonium tetrafluoroborate

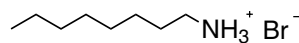
CAS No. : 42539-74-2
 Grade : >99.5%, recrystallized 4 times
 Formula : $\text{CH}_6\text{BF}_4\text{N}$
 M.W. : 118.87 g/mole



LT-S9247

n-Octylammonium bromide

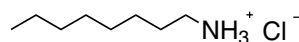
CAS No. : 14846-47-0
 Grade : >99.5%, recrystallized 4 times
 Formula : $\text{C}_8\text{H}_{20}\text{BrN}$
 M.W. : 210.16 g/mole



LT-S9248

n-Octylammonium chloride

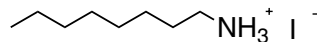
CAS No. : 142-95-0
 Grade : >99.5%, recrystallized 4 times
 Formula : $\text{C}_8\text{H}_{20}\text{ClN}$
 M.W. : 165.7 g/mole



LT-S9249

n-Octylammonium iodide

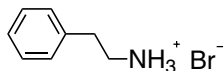
CAS No. : 60734-63-6
 Grade : >99.5%, recrystallized 4 times
 Formula : $\text{C}_8\text{H}_{20}\text{IN}$
 M.W. : 257.16 g/mole



LT-S9250

Phenethylammonium bromide

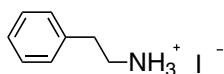
CAS No. : 53916-94-2
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_8H_{12}BrN$
 M.W. : 202.09 g/mole



LT-S9251

Phenethylammonium iodide

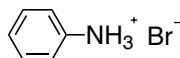
CAS No. : 151059-43-7
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_8H_{12}IN$
 M.W. : 249.09 g/mole



LT-S9252

Phenylammonium bromide

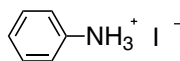
CAS No. : 542-11-0
 Grade : >99.5% , recrystallized 4 times
 Formula : C_6H_8BrN
 M.W. : 174.04 g/mole



LT-S9253

Phenylammonium iodide

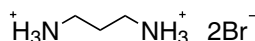
CAS No. : 45497-73-2
 Grade : >99.5% , recrystallized 4 times
 Formula : C_6H_8IN
 M.W. : 221.04 g/mole



LT-S9254

1,3-Diammoniumpropane bromide

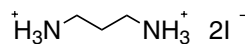
CAS No. : 18773-03-0
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_3H_{12}Br_2N_2$
 M.W. : 235.95 g/mole



LT-S9255

1,3-Diammoniumpropane iodide

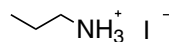
CAS No. : 120675-53-8
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_3H_{12}I_2N_2$
 M.W. : 329.95 g/mole



LT-S9256

n-Propylammonium iodide

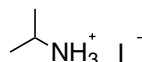
CAS No. : 14488-45-0
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_3H_{10}IN$
 M.W. : 187.02 g/mole



LT-S9257

iso-Propylammonium iodide

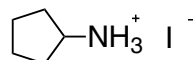
Grade : >99.5% , recrystallized 4 times
 Formula : $C_3H_{10}IN$
 M.W. : 187.02 g/mole



LT-S9258

Pyrrolidinium iodide

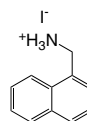
CAS No. : 45361-12-4
 Grade : >99.5% , recrystallized 4 times
 Formula : $C_4H_{10}IN$
 M.W. : 199.03 g/mole



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

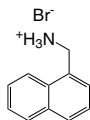


Perovskite Precursor

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

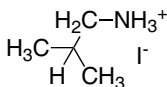
CAS No. : 916849-52-0
 Grade : >99%
 Formula : $C_4H_{14}I_2N_2$
 M.W. : 343.98 g/mole



LT-S9301

iso-Butylammonium iodide

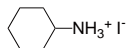
CAS No. : 205508-75-4
 Grade : >99%
 Formula : $C_4H_{12}IN$
 M.W. : 201.05 g/mole



LT-S9302

Cyclohexylammonium iodide

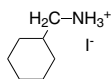
CAS No. : 45492-87-3
 Grade : >99%
 Formula : $C_6H_{14}IN$
 M.W. : 227.09 g/mole



LT-S9303

Cyclohexylmethylammonium iodide

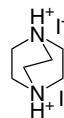
Grade : >99%
 Formula : $C_7H_{16}IN$
 M.W. : 241.11 g/mole



LT-S9304

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

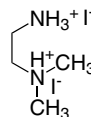
CAS No. : 33322-06-4
 Grade : >99%
 Formula : $C_6H_{14}I_2N_2$
 M.W. : 368 g/mole



LT-S9305

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

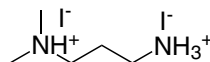
CAS No. : 244234-52-4
 Grade : >99%
 Formula : $C_4H_{14}I_2N_2$
 M.W. : 343.98 g/mole



LT-S9306

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

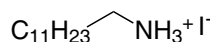
Grade : >99%
 Formula : $C_5H_{16}I_2N_2$
 M.W. : 358 g/mole



LT-S9307

n-Dodecylammonium iodide

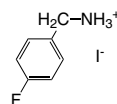
CAS No. : 34099-97-3
 Grade : >99%
 Formula : $C_{12}H_{28}IN$
 M.W. : 313.26 g/mole



LT-S9308

4-Fluoro-benzylammonium iodide

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

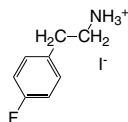


Perovskite Precursor

LT-S9309

4-Fluoro-phenethylammonium iodide

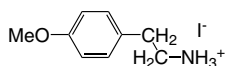
CAS No. : 1413269-55-2
 Grade : >99%
 Formula : C₈H₁₁FIN
 M.W. : 267.08 g/mole



LT-S9311

4-Methoxy-phenethylammonium iodide

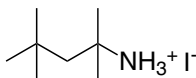
Grade : >99%
 Formula : C₉H₁₄INO
 M.W. : 279.12 g/mole



LT-S9312

tert-Octylammonium iodide

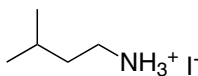
Grade : >99%
 Formula : C₈H₂₀IN
 M.W. : 257.16 g/mole



LT-S9313

iso-Pentylammonium iodide

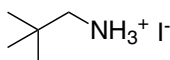
Grade : >99%
 Formula : C₅H₁₄IN
 M.W. : 215.06 g/mole



LT-S9314

neo-Pentylammonium iodide

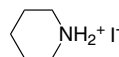
Grade : >99%
 Formula : C₅H₁₄IN
 M.W. : 215.08 g/mole



LT-S9315

Piperidinium iodide

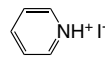
CAS No. : 21701-42-8
 Grade : >99%
 Formula : C₅H₁₂IN
 M.W. : 213.06 g/mole



LT-S9316

Pyridinium iodide

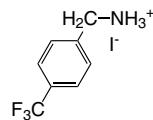
CAS No. : 18820-83-2
 Grade : >99%
 Formula : C₅H₆IN
 M.W. : 207.01 g/mole



LT-S9317

4-Trifluoromethyl-benzylammonium iodide

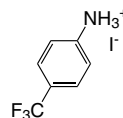
Grade : >99%
 Formula : C₈H₉F₃IN
 M.W. : 303.06 g/mole



LT-S9318

4-Trifluoromethyl-phenylammonium iodide

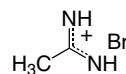
Grade : >99%
 Formula : C₇H₇IF₃N
 M.W. : 289.04 g/mole



LT-S9319

Acetamidinium bromide

CAS No. : 1040352-82-6
 Grade : >99%
 Formula : C₂H₇BrN₂
 M.W. : 138.99 g/mole

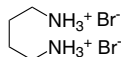


Perovskite Precursor

LT-S9320

Butane-1,4-diammonium bromide

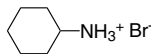
CAS No. : 18773-04-1
 Grade : >99%
 Formula : $C_4H_{14}Br_2N_2$
 M.W. : 249.98 g/mole



LT-S9321

Cyclohexylammonium bromide

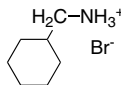
CAS No. : 26227-54-3
 Grade : >99%
 Formula : $C_6H_{14}BrN$
 M.W. : 180.09 g/mole



LT-S9322

Cyclohexylmethylammonium bromide

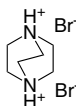
Grade : >99%
 Formula : $C_7H_{16}BrN$
 M.W. : 194.11 g/mole



LT-S9323

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

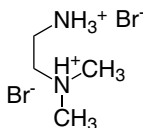
CAS No. : 54581-69-0
 Grade : >99%
 Formula : $C_6H_{14}Br_2N_2$
 M.W. : 274 g/mole



LT-S9324

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

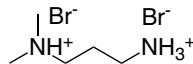
CAS No. : 1245570-04-0
 Grade : >99%
 Formula : $C_4H_{14}Br_2N_2$
 M.W. : 249.98 g/mole



LT-S9325

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

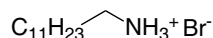
Grade : >99%
 Formula : $C_5H_{16}Br_2N_2$
 M.W. : 264 g/mole



LT-S9326

n-Dodecylammonium bromide

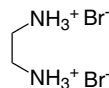
CAS No. : 26204-55-7
 Grade : >99%
 Formula : $C_{12}H_{28}BrN$
 M.W. : 266.26 g/mole



LT-S9327

Ethane-1,2-diammonium bromide

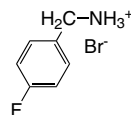
CAS No. : 624-59-9
 Grade : >99%
 Formula : $C_2H_{10}Br_2N_2$
 M.W. : 221.92 g/mole



LT-S9328

4-Fluoro-benzylammonium bromide

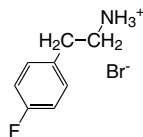
Grade : >99%
 Formula : C_7H_9FBrN
 M.W. : 206.06 g/mole



LT-S9329

4-Fluoro-phenethylammonium bromide

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

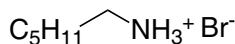


Perovskite Precursor

LT-S9330

n-Hexylammonium bromide

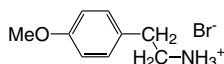
CAS No. : 7334-95-4
 Grade : >99%
 Formula : C₆H₁₆BrN
 M.W. : 182.1 g/mole



LT-S9331

4-Methoxy-phenethylammonium bromide

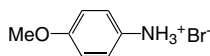
Grade : >99%
 Formula : C₉H₁₄BrNO
 M.W. : 232.12 g/mole



LT-S9332

4-Methoxy-phenylammonium bromide

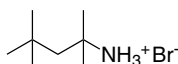
CAS No. : 116436-31-8
 Grade : >99%
 Formula : C₉H₁₄BrNO
 M.W. : 232.12 g/mole



LT-S9333

tert-Octylammonium bromide

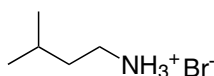
CAS No. : 1093859-61-0
 Grade : >99%
 Formula : C₈H₂₀BrN
 M.W. : 210.16 g/mole



LT-S9334

iso-Pentylammonium bromide

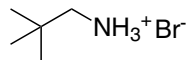
Grade : >99%
 Formula : C₅H₁₄BrN
 M.W. : 168.08 g/mole



LT-S9335

neo-Pentylammonium bromide

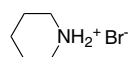
Grade : >99%
 Formula : C₅H₁₄BrN
 M.W. : 168.08 g/mole



LT-S9336

Piperidinium bromide

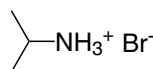
CAS No. : 14066-85-4
 Grade : >99%
 Formula : C₅H₁₂BrN
 M.W. : 166.06 g/mole



LT-S9337

iso-Propylammonium bromide

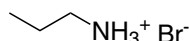
CAS No. : 29552-58-7
 Grade : >99%
 Formula : C₃H₁₀BrN
 M.W. : 140.02 g/mole



LT-S9338

n-Propylammonium bromide

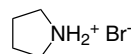
CAS No. : 4905-83-3
 Grade : >99%
 Formula : C₃H₁₀BrN
 M.W. : 140.02 g/mole



LT-S9339

Pyrrolidinium bromide

CAS No. : 55810-80-5
 Grade : >99%
 Formula : C₄H₁₀BrN
 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

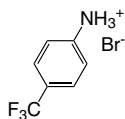
Grade : >99%
 Formula : $C_8H_9F_3BrN$
 M.W. : 256.06 g/mole



LT-S9342

4-Trifluoromethyl-phenethylammonium bromide

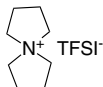
Grade : >99%
 Formula : $C_7H_7BrF_3N$
 M.W. : 242.03 g/mole



LT-S9343

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

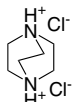
CAS No. : 706759-44-6
 Grade : >99%
 Formula : $C_{10}H_{16}F_6N_2O_4S_2$
 M.W. : 406.37 g/mole



LT-S9344

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

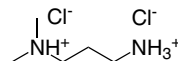
CAS No. : 49563-87-3
 Grade : >99%
 Formula : $C_6H_{14}Cl_2N_2$
 M.W. : 185.09 g/mole



LT-S9345

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

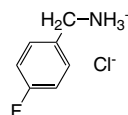
CAS No. : 52198-63-7
 Grade : >99%
 Formula : $C_5H_{16}Cl_2N_2$
 M.W. : 175.1 g/mole



LT-S9346

4-Fluoro-benzylammonium chloride

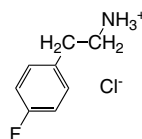
CAS No. : 659-41-6
 Grade : >99%
 Formula : C_7H_9FCIN
 M.W. : 161.6 g/mole



LT-S9347

4-Fluoro-phenethylammonium chloride

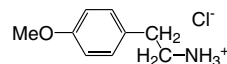
CAS No. : 459-19-8
 Grade : >99%
 Formula : $C_8H_{11}ClFN$
 M.W. : 175.63 g/mole



LT-S9348

4-Methoxy-phenethylammonium chloride

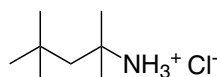
CAS No. : 645-58-9
 Grade : >99%
 Formula : $C_9H_{14}ClNO$
 M.W. : 187.67 g/mole



LT-S9349

tert-Octylammonium chloride

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

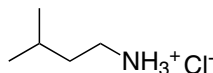


Perovskite Precursor

LT-S9350

iso-Pentylammonium chloride

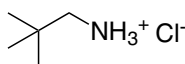
CAS No. : 541-23-1
 Grade : >99%
 Formula : C₅H₁₄ClN
 M.W. : 123.62 g/mole



LT-S9351

neo-Pentylammonium chloride

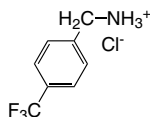
CAS No. : 15925-18-5
 Grade : >99%
 Formula : C₅H₁₄ClN
 M.W. : 123.62 g/mole



LT-S9352

4-Trifluoromethyl-benzylammonium chloride

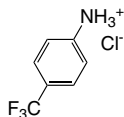
CAS No. : 3047-99-2
 Grade : >99%
 Formula : C₈H₉F₃ClN
 M.W. : 211.61 g/mole



LT-S9353

4-Trifluoromethyl-phenylammonium chloride

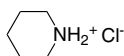
CAS No. : 90774-69-9
 Grade : >99%
 Formula : C₇H₇ClF₃N
 M.W. : 197.59 g/mole



LT-S9354

Piperidinium chloride

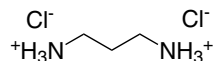
CAS No. : 6091-44-7
 Grade : >99%
 Formula : C₅H₁₂ClN
 M.W. : 121.61 g/mole



LT-S9355

Propane-1,3-diammonium chloride

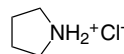
CAS No. : 10517-44-9
 Grade : >99%
 Formula : C₃H₁₂Cl₂N₂
 M.W. : 147.05 g/mole



LT-S9356

Pyrrolidinium chloride

CAS No. : 25150-61-2
 Grade : >99%
 Formula : C₄H₁₀ClN
 M.W. : 107.58 g/mole



LT-S9357

Quinuclidin-1-ium chloride

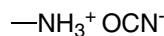
CAS No. : 39896-06-5
 Grade : >99%
 Formula : C₇H₁₄ClN
 M.W. : 147.65 g/mole



LT-S9358

Methylammonium cyanate

CAS No. : 63405-91-4
 Grade : >99%
 Formula : C₂H₆N₂O
 M.W. : 74.08 g/mole



LT-S9359

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

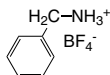
CAS No. : 129211-47-8
 Grade : >99%
 Formula : C₈H₁₆BF₄N
 M.W. : 213.02 g/mole



LT-S9360

Benzylammonium tetrafluoroborate

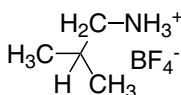
CAS No. : 41579-49-1
 Grade : >99%
 Formula : $C_7H_{10}BF_4N$
 M.W. : 194.97 g/mole



LT-S9361

iso-Butylammonium tetrafluoroborate

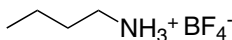
CAS No. : 71852-72-7
 Grade : >99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9362

n-Butylammonium tetrafluoroborate

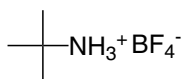
CAS No. : 71852-73-8
 Grade : >99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9363

t-Butylammonium tetrafluoroborate

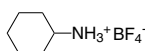
CAS No. : 24418-92-6
 Grade : >99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



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-dium tetrafluoroborate

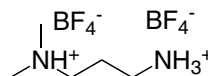
Grade : >99%
 Formula : $C_6H_{14}B_2F_8N_2$
 M.W. : 287.8 g/mole



LT-S9366

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

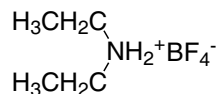
Grade : >99%
 Formula : $C_5H_{16}B_2F_8N_2$
 M.W. : 277.8 g/mole



LT-S9367

Diethylammonium tetrafluoroborate

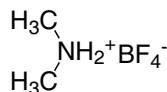
CAS No. : 17085-33-5
 Grade : >99%
 Formula : $C_4H_{12}BF_4N$
 M.W. : 160.95 g/mole



LT-S9368

Dimethylammonium tetrafluoroborate

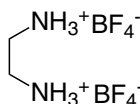
CAS No. : 16970-97-1
 Grade : >99%
 Formula : $C_2H_8BF_4N$
 M.W. : 132.9 g/mole



LT-S9369

Ethane-1,2-diammonium tetrafluoroborate

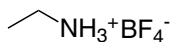
Grade : >99%
 Formula : $C_2H_{10}B_2F_8N_2$
 M.W. : 235.72 g/mole



LT-S9370

Ethylammonium tetrafluoroborate

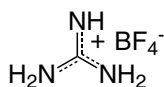
CAS No. : 12070-78-9
 Grade : >99%
 Formula : $C_2H_8BF_4N$
 M.W. : 132.9 g/mole



LT-S9371

Guanidinium tetrafluoroborate

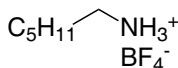
CAS No. : 36595-00-3
 Grade : >99%
 Formula : $CH_6BF_4N_3$
 M.W. : 146.88 g/mole



LT-S9372

n-Hexylammonium tetrafluoroborate

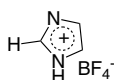
CAS No. : 41579-47-9
 Grade : >99%
 Formula : $C_6H_{16}BF_4N$
 M.W. : 378.01 g/mole



LT-S9373

Imidazolium tetrafluoroborate

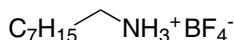
CAS No. : 112725-76-5
 Grade : >99%
 Formula : $C_3H_5BF_4N_2$
 M.W. : 155.89 g/mole



LT-S9374

n-Octylammonium tetrafluoroborate

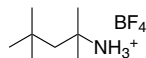
CAS No. : 790269-39-5
 Grade : >99%
 Formula : $C_8H_{20}BF_4N$
 M.W. : 217.06 g/mole



LT-S9375

tert-Octylammonium tetrafluoroborate

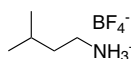
Grade : >99%
 Formula : $C_8H_{20}BF_4N$
 M.W. : 217.06 g/mole



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

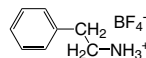
Grade : >99%
 Formula : $C_5H_{14}BF_4N$
 M.W. : 174.98 g/mole



LT-S9378

Phenethylammonium tetrafluoroborate

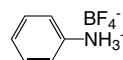
Grade : >99%
 Formula : $C_8H_{12}BF_4N$
 M.W. : 208.99 g/mole



LT-S9379

Phenylammonium tetrafluoroborate

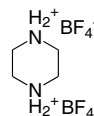
CAS No. : 3796-29-0
 Grade : >99%
 Formula : $C_6H_8BF_4N$
 M.W. : 180.94 g/mole



LT-S9380

Piperazine-1,4-dium tetrafluoroborate

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



Perovskite Precursor

LT-S9381

Piperidinium tetrafluoroborate

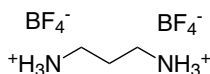
CAS No. : 20935-77-7
 Grade : >99%
 Formula : $C_5H_{12}BF_4N$
 M.W. : 172.96 g/mole



LT-S9382

Propane-1,3-diammonium tetrafluoroborate

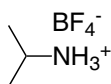
Grade : >99%
 Formula : $C_3H_{12}B_2F_8N_2$
 M.W. : 249.75 g/mole



LT-S9383

iso-Propylammonium tetrafluoroborate

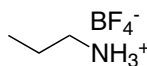
CAS No. : 71852-74-9
 Grade : >99%
 Formula : $C_3H_{10}BF_4N$
 M.W. : 146.92 g/mole



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

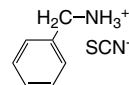
CAS No. : 936025-25-1
 Grade : >99%
 Formula : $C_7H_{14}BF_4N$
 M.W. : 199 g/mole



LT-S9388

Benzylammonium thiocyanate

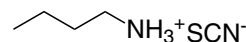
CAS No. : 51571-89-2
 Grade : >99%
 Formula : $C_8H_{10}N_2S$
 M.W. : 166.24 g/mole



LT-S9389

n-Butylammonium thiocyanate

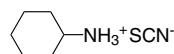
CAS No. : 25162-84-9
 Grade : >99%
 Formula : $C_5H_{12}N_2S$
 M.W. : 132.23 g/mole



LT-S9390

Cyclohexylammonium thiocyanate

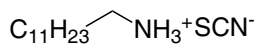
CAS No. : 96943-17-8
 Grade : >99%
 Formula : $C_7H_{14}N_2S$
 M.W. : 158.26 g/mole



LT-S9391

n-Dodecylammonium thiocyanate

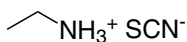
CAS No. : 22031-31-8
 Grade : >99%
 Formula : $C_{13}H_{28}N_2S$
 M.W. : 244.44 g/mole



LT-S9392

Ethylammonium thiocyanate

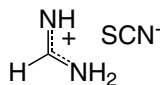
CAS No. : 25153-19-9
 Grade : >99%
 Formula : $C_3H_8N_2S$
 M.W. : 104.17 g/mole



LT-S9393

Formamidinium thiocyanate

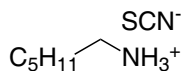
CAS No. : 1821033-48-0
 Grade : >99%
 Formula : CH_5N_3S
 M.W. : 103.15 g/mole



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

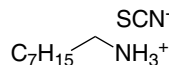
CAS No. : 61540-63-4
 Grade : >99%
 Formula : $C_2H_6N_2S$
 M.W. : 90.15 g/mole



LT-S9396

n-Octylammonium thiocyanate

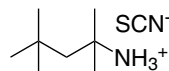
CAS No. : 25162-86-1
 Grade : >99%
 Formula : $C_9H_{20}N_2S$
 M.W. : 188.33 g/mole



LT-S9397

tert-Octylammonium thiocyanate

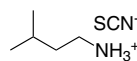
CAS No. : 41115-58-6
 Grade : >99%
 Formula : $C_9H_{20}N_2S$
 M.W. : 188.33 g/mole



LT-S9398

iso-Pentylammonium thiocyanate

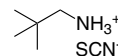
Grade : >99%
 Formula : $C_6H_{14}N_2S$
 M.W. : 146.25 g/mole



LT-S9399

neo-Pentylammonium thiocyanate

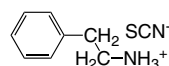
CAS No. : 61540-71-4
 Grade : >99%
 Formula : $C_6H_{14}N_2S$
 M.W. : 146.25 g/mole



LT-S9400

Phenethylammonium thiocyanate

CAS No. : 2656409-76-4
 Grade : >99%
 Formula : $C_9H_{12}N_2S$
 M.W. : 180.27 g/mole

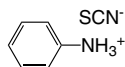


Perovskite Precursor

LT-S9401

Phenylammonium thiocyanate

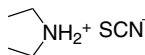
CAS No. : 27248-14-2
 Grade : >99%
 Formula : $C_7H_8N_2S$
 M.W. : 152.22 g/mole



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-Azaspiro[4.4]nonan-5-ium hexafluorophosphate

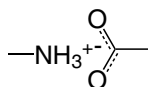
CAS No. : 129211-50-3
 Grade : >99%
 Formula : $C_8H_{16}F_6NP$
 M.W. : 271.18 g/mole



LT-S9404

Methylammonium acetate

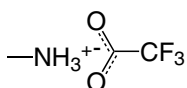
CAS No. : 6998-30-7
 Grade : >99%
 Formula : $C_3H_9NO_2$
 M.W. : 91.11 g/mole



LT-S9405

Methylammonium trifluoroacetate

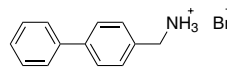
CAS No. : 107326-29-4
 Grade : >99%
 Formula : $C_3H_7F_3NO_2$
 M.W. : 146.09 g/mole



LT-S9510

4-Phenylbenzylammonium bromide

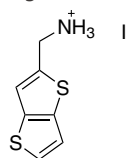
Grade : >99%
 Formula : $C_{13}H_{14}BrN$
 M.W. : 264.16 g/mole



LT-S9588 TTMAI

Thieno[3,2-b]thiophen-2-ylmethanaminium iodide

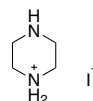
Grade : > 99.5%
 Formula : $C_7H_8INS_2$
 M.W. : 297.18 g/mole



LT-S9671 PipI

Piperazinium Iodide

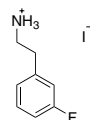
CAS No. : 56310-12-4
 Grade : >99.5%
 Formula : $C_4H_{11}IN_2$
 M.W. : 214.05 g/mole



LT-S9680

3-Fluoro-phenethylammonium iodide

CAS No. : 2810129-43-0
 Grade : >99%
 Formula : $C_8H_{11}FIN$
 M.W. : 267.08 g/mole



LT-S9690

Cesium bromide

CAS No. : 7787-69-1
 Grade : 99.9% trace metals basis
 Formula : $CsBr$
 M.W. : 212.81 g/mole



LT-S9691

NEW

Cesium chloride

CAS No. :7647-17-8
 Grade :99.9% trace metals basis
 Formula :CsCl
 M.W. :168.36 g/mole



LT-S9692

NEW

Cesium iodide

CAS No. :7789-17-5
 Grade :99.9% trace metals basis
 Formula :CsI
 M.W. :259.81 g/mole



LT-S9693

NEW

Copper(II) chloride dihydrate

CAS No. :10125-13-0
 Grade :>99%
 Formula :CuCl₂ · 2H₂O
 M.W. :170.48 g/mole



LT-S9694

NEW

Tin(II) bromide

CAS No. :10031-24-0
 Grade :>99%
 Formula :SnBr₂
 M.W. :278.52 g/mole



LT-S9695

NEW

Tin(II) chloride

CAS No. :7772-99-8
 Grade :>99%
 Formula :SnCl₂
 M.W. :189.62 g/mole



LT-S9696

NEW

Tin(II) iodide

CAS No. :10294-70-9
 Grade :>99%
 Formula :SnI₂
 M.W. :372.52 g/mole

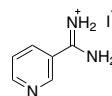


LT-S9729 3API

NEW

Iodized 3-pyridinecarboximidamide

Grade :>99%
 Formula :C₆H₈IN₃
 M.W. :249.05 g/mole

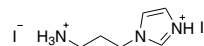


LT-S9730 APDI

NEW

N-(3-Aminopropyl)-imidazole Diiodide

CAS No. :1350616-11-3
 Grade :>99%
 Formula :C₆H₁₃I₂N₃
 M.W. :381 g/mole

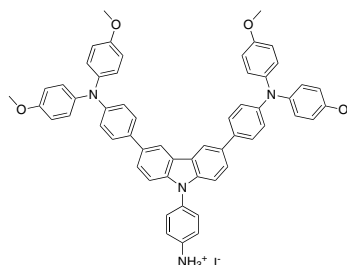


LT-S9731 CBZ-PAI

NEW

4-(3,6-Bis(4-(bis(4-methoxyphenyl)amino)phenyl)-9H-carbazol-9-yl)benzenaminium iodide

Grade :>99%
 Formula :C₅₈H₄₉IN₄O₄
 M.W. :992.94 g/mole
 HOMO :-5.36 eV
 LUMO :-2.26 eV



Perovskite Precursor

LT-S9732 | PNEACI **NEW**

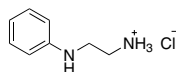
2-(Phenylamino)ethanaminium chloride

CAS No :108445-06-3

Grade :>99%

Formula :C₈H₁₃ClN₂

M.W. :172.66 g/mole

LT-S9733 | TMBAI **NEW**

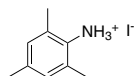
2,4,6-Trimethylbenzenaminium iodide

CAS No :947749-12-4

Grade :>99%

Formula :C₉H₁₄I⁺N

M.W. :263.12 g/mole

LT-S9734 | 5-AVAI **NEW**

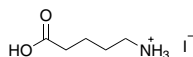
5-Ammoniumvaleric acid iodide

CAS No :705581-28-7

Grade :>99%

Formula :C₅H₁₂I⁺NO₂

M.W. :245.06 g/mole

LT-S9735 | 5-AVACI **NEW**

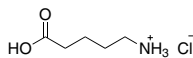
5-Ammoniumvaleric acid chloride

CAS No :627-95-2

Grade :>99%

Formula :C₅H₁₂ClNO₂

M.W. :153.61 g/mole

LT-S9736 | 3AAH **NEW**

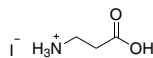
3-Aminopropanoic acid hydroiodide

CAS No :2096495-59-7

Grade :>99%

Formula :C₃H₈I⁺NO₂

M.W. :217.01 g/mole

LT-S9763 | (BA)2PbBr4 **NEW**

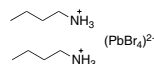
Di-n-butylammonium lead tetrabromide

CAS No :274903-07-0

Grade :>99%

Formula :C₈H₂₄Br₄N₂Pb

M.W. :675.11 g/mole

LT-S9764 | (BA)2PbI4 **NEW**

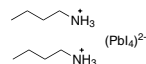
Di-n-butylammonium lead tetraiodide

CAS No :132069-10-4

Grade :>99%

Formula :C₈H₂₄I₄N₂Pb

M.W. :863.11 g/mole

LT-S9765 | 2-ThEABr **NEW**

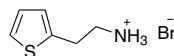
2-Thiophenethylammonium bromide

CAS No :2490324-60-0

Grade :>99%

Formula :C₆H₁₀BrNS

M.W. :208.12 g/mole

LT-S9766 | 2-ThEAI **NEW**

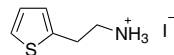
2-Thiopheneethylammonium iodide

CAS No :2414055-94-8

Grade :>99%

Formula :C₆H₁₀INS

M.W. :255.12 g/mole

LT-S9767 | 2-ThMABr **NEW**

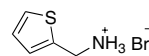
2-Thiophenemethylammonium bromide

CAS No :59852-33-4

Grade :>99%

Formula :C₅H₈BrNS

M.W. :194.09 g/mole



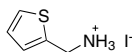
Perovskite Precursor

LT-S9768 | 2-ThMAI

NEW

2-Thiophenemethylammonium iodide

CAS No :2247100-32-7
Grade :>99%
Formula :C₅H₈IN₂
M.W. :241.09 g/mole

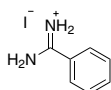


LT-S9769 | BFAI

NEW

Benzimidamide hydroiodide

CAS No :860684-44-2
Grade :>99%
Formula :C₇H₉IN₂
M.W. :248.06 g/mole

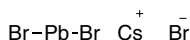


LT-S9770 | CsPbBr3

NEW

Cesium lead tribromide

CAS No :15243-48-8
Grade :>99%
Formula :Br₃CsPb
M.W. :579.82 g/mole

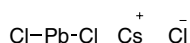


LT-S9771 | CsPbCl3

NEW

Cesium lead trichloride

CAS No :15203-83-5
Grade :>99%
Formula :Cl₃CsPb
M.W. :446.46 g/mole

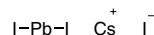


LT-S9772 | CsPbI3

NEW

Cesium lead triiodide

CAS No :18041-25-3
Grade :>99%
Formula :CsI₃Pb
M.W. :720.82 g/mole

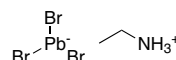


LT-S9773 | EAPbBr3

NEW

Ethylammonium tribromoplumbate

CAS No :17251-33-1
Grade :>99%
Formula :C₂H₅Br₃NPb
M.W. :493 g/mole

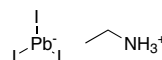


LT-S9774 | EAPbI3

NEW

Ethylammonium triiodoplumbate

CAS No :1640335-04-1
Grade :>99%
Formula :C₂H₅I₃NPb
M.W. :634.01 g/mole

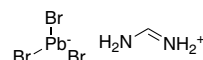


LT-S9775 | FAPbBr3

NEW

Formamidinium tribromoplumbate

CAS No :1008105-17-6
Grade :>99%
Formula :CH₂Br₃N₂Pb
M.W. :491.98 g/mole

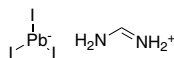


Perovskite Precursor

LT-S9776 | FAPbI3 NEW

Formamidinium triiodoplumbate

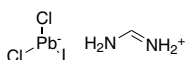
CAS No :1451592-07-6
Grade :>99%
Formula :CH₃I₃N₂Pb
M.W. :632.98 g/mole



LT-S9777 | FAPbClI2 NEW

Formamidinium Lead Chloride Iodide

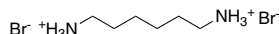
CAS No :1616115-25-3
Grade :>99%
Formula :CH₃Cl₂I₂N₂Pb
M.W. :450.07 g/mole



LT-S9778 | HDADBr NEW

Hexane-1,6-diammonium bromide

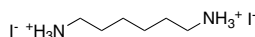
CAS No :24731-81-5
Grade :>99%
Formula :C₆H₁₈Br₂N₂
M.W. :278.03 g/mole



LT-S9779 | HDADI

Hexane-1,6-diammonium iodide

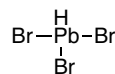
CAS No :20208-23-5
Grade :>99%
Formula :C₆H₁₈I₂N₂
M.W. :372.03 g/mole



LT-S9780 | HPbBr3 NEW

Hydrogen lead tribromide

CAS No :192874-55-8
Grade :>99%
Formula :Br₃HPb
M.W. :447.92 g/mole



LT-S9781 | HPbI3 NEW

Hydrogen lead triiodide

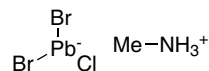
CAS No :134879-44-0
Grade :>99%
Formula :HI₃Pb
M.W. :588.92 g/mole



LT-S9782 | MAPbBr2Cl NEW

Methylammonium Lead Chloride Bromide

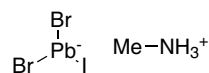
CAS No :479066-07-4
Grade :>99%
Formula :CH₃Br₂ClNPb
M.W. :434.53 g/mole



LT-S9783 | MAPbBr2I NEW

Methylammonium Lead Bromide Iodide

CAS No :1472068-58-8
Grade :>99%
Formula :CH₃Br₂INPb
M.W. :525.98 g/mole

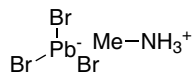


Perovskite Precursor

LT-S9784 | MAPbBr3 **NEW**

Methylammonium tribromoplumbate

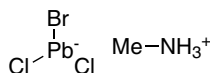
CAS No :69276-13-7
Grade :>99%
Formula :CH₆Br₃NPb
M.W. :478.98 g/mole



LT-S9785 | MAPbBrCl2 **NEW**

Methylammonium Lead Chloride Bromide

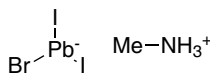
CAS No :479066-09-6
Grade :>99%
Formula :CH₆BrCl₂NPb
M.W. :390.08 g/mole



LT-S9786 | MAPbBrI2 **NEW**

Methylammonium Lead Bromide Iodide

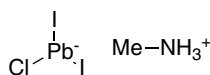
CAS No :1446121-02-3
Grade :>99%
Formula :CH₆BrI₂NPb
M.W. :572.98 g/mole



LT-S9787 | MAPbI2Cl **NEW**

Methylammonium Lead Chloride Iodide

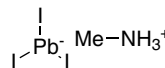
CAS No :1446121-07-8
Grade :>99%
Formula :CH₆ClI₂NPb
M.W. :528.53 g/mole



LT-S9788 | MAPbI3 **NEW**

Methylammonium triiodoplumbate

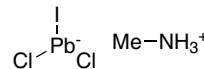
CAS No :69507-98-8
Grade :>99%
Formula :CH₆I₃NPb
M.W. :619.98 g/mole



LT-S9789 | MAPbClI2 **NEW**

Methylammonium Lead Chloride Iodide

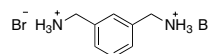
CAS No :1472068-56-6
Grade :>99%
Formula :CH₆Cl₂INPb
M.W. :437.08 g/mole



LT-S9790 | mPhDMADBr **NEW**

1,3-Phenylenedimethanamine dihydrobromide

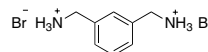
CAS No :2265236-82-4
Grade :>99%
Formula :C₈H₁₄Br₂N₂
M.W. :298.02 g/mole



LT-S9811 | mPhDMADI **NEW**

1,3-Phenylenedimethanamine dihydroiodide

Grade :>99%
Formula :C₈H₁₄Br₂N₂
M.W. :298.02 g/mole



Perovskite Precursor

LT-S9812 | PAPbI3 **NEW**

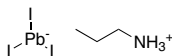
Propylammonium triiodoplumbate

CAS No :1646171-78-9

Grade :>99%

Formula :C₃H₁₀I₃NPb

M.W. :648.03 g/mole

LT-S9813 | PbAc2 **NEW**

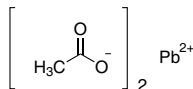
Lead(II) Acetate

CAS No :301-04-2

Grade :>99%

Formula :C₄H₆O₄Pb

M.W. :325.29 g/mole

LT-S9814 | p-Br-MBACl **NEW**

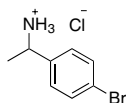
1-(4-Bromophenyl)ethylamine hydrochloride

CAS No :90006-14-7

Grade :>99%

Formula :C₈H₁₁BrClN

M.W. :236.54 g/mole

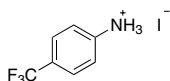
LT-S9815 | p-CF3PhAl **NEW**

4-Trifluoromethyl-Phenylammonium iodide

Grade :>99%

Formula :C₇H₇F₃IN

M.W. :289.04 g/mole

LT-S9816 | PentABr **NEW**

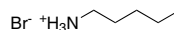
n-Pentylammonium bromide

CAS No :7334-94-3

Grade :>99%

Formula :C₅H₁₄BrN

M.W. :168.08 g/mole

LT-S9817 | PentACl **NEW**

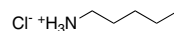
n-Pentylammonium chloride

CAS No :142-65-4

Grade :>99%

Formula :C₅H₁₄ClN

M.W. :123.62 g/mole

LT-S9818 | PentAI **NEW**

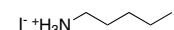
n-Pentylammonium iodide

CAS No :60762-85-8

Grade :>99%

Formula :C₅H₁₄I N

M.W. :215.08 g/mole

LT-S9819 | p-F-PMABr **NEW**

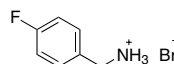
4-Fluorobenzylamine hydrobromide

CAS No :2270172-94-4

Grade :>99%

Formula :C₇H₉BrFN

M.W. :206.06 g/mole

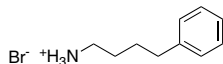


Perovskite Precursor

LT-S9820 | PhBABr **NEW**

4-Phenylbutylammonium bromide

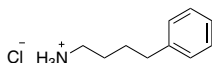
CAS No :120375-52-2
 Grade :>99%
 Formula :C₁₀H₁₆BrN
 M.W. :230.14 g/mole



LT-S9821 | PhBACl **NEW**

4-Phenylbutylamine hydrochloride

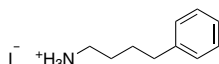
CAS No :30684-06-1
 Grade :>99%
 Formula :C₁₀H₁₆ClN
 M.W. :185.69 g/mole



LT-S9822 | PhBAI **NEW**

4-Phenylbutylammonium iodide

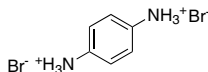
CAS No :2602663-31-8
 Grade :>99%
 Formula :C₁₀H₁₆IN
 M.W. :277.15 g/mole



LT-S9823 | PhDADBr **NEW**

1,4-Benzene diammonium bromide

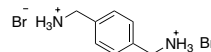
CAS No :116469-01-3
 Grade :>99%
 Formula :C₆H₁₀Br₂N₂
 M.W. :269.96 g/mole



LT-S9824 | PhDMADBr **NEW**

1,4-Phenylenedimethanamine dihydrobromide

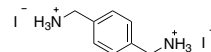
CAS No :1294005-02-9
 Grade :>99%
 Formula :C₈H₁₄Br₂N₂
 M.W. :298.02 g/mole



LT-S9825 | PhDMADI **NEW**

1,4-Phenylenedimethanamine dihydroiodide

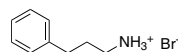
CAS No :2304829-65-8
 Grade :>99%
 Formula :C₈H₁₄I₂N₂
 M.W. :392.02 g/mole



LT-S9826 | PhPABr **NEW**

3-Phenylpropylammonium bromide

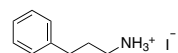
CAS No :120375-53-3
 Grade :>99%
 Formula :C₉H₁₄BrN
 M.W. :216.12 g/mole



LT-S9827 | PhPAI **NEW**

3-Phenylpropylammonium iodide

CAS No :2673196-34-2
 Grade :>99%
 Formula :C₉H₁₄IN
 M.W. :263.12 g/mole



Perovskite Precursor

LT-S9828 | PipBr

NEW

Piperazine hydrobromide

CAS No :59813-07-9

Grade :>99%

Formula :C₄H₁₁BrN₂

M.W. :167.05 g/mole



LT-S9829 | PMACI

NEW

Benzylamine hydrochloride

CAS No :3287-99-8

Grade :>99%

Formula :C₇H₁₀ClN

M.W. :143.61 g/mole



LT-S9831 | p-CF3PEAI

NEW

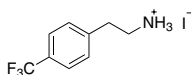
4-Trifluorophenylethylammonium iodide

CAS No :2770278-13-0

Grade :>99%

Formula :C₉H₁₁F₃IN

M.W. :317.09 g/mole



LT-S9832 | 2API

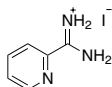
NEW

Iodized 2-pyridinecarboximidamide

Grade :>99%

Formula :C₆H₈IN₃

M.W. :249.05 g/mole



LT-S9835 | GBAC

NEW

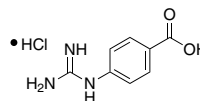
4-Guanidinobenzoic acid hydrochloride

CAS No :42823-46-1

Grade :>98%

Formula :C₈H₁₀ClN₃O₂

M.W. :215.64 g/mole



LT-S9838 | 2F-2CN

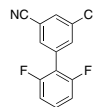
NEW

2',6'-Difluoro-[1,1'-biphenyl]-3,5-dicarbonitrile

Grade :>99%

Formula :C₁₄H₆F₂N₂

M.W. :240.21 g/mole



LT-S9839 | EVL

NEW

3-Ethoxy-4-hydroxybenzaldehyde

CAS No :121-32-4

Grade :>99%

Formula :C₉H₁₀O₃

M.W. :166.17 g/mole



LT-S9840 | MS

NEW

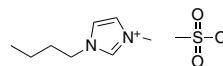
1-Butyl-3-methylimidazolium methanesulfonate

CAS No :342789-81-5

Grade :>98%

Formula :C₉H₁₈N₂O₃S

M.W. :234.32 g/mole



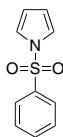
Perovskite Precursor

LT-S9841 | PSF

NEW

1-(Phenylsulfonyl)pyrrole

CAS No :16851-82-4
Grade :>98%
Formula :C₁₀H₉NO₂S
M.W. :207.25 g/mole

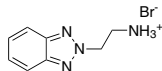


LT-S9749 | BTaBr

NEW

2-(2H-benzo[d][1,2,3]triazol-2-yl)ethylammonium bromide

Grade :>99%
Formula :C₈H₁₁BrN₄
M.W. :243.1 g/mole

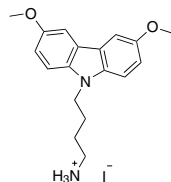


LT-S9751 | MeO-4CzNH3I

NEW

4-(3,6-Dimethoxy-9H-carbazol-9-yl)butan-1-aminium iodide

Grade :>99%
Formula :C₁₈H₂₃IN₂O₂
M.W. :426.29 g/mole

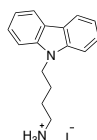


LT-S9752 | 4CzNH3I

NEW

4-(9H-carbazol-9-yl)butan-1-ammonium iodide

Grade :>99%
Formula :C₁₆H₁₉IN₂
M.W. :366.24 g/mole

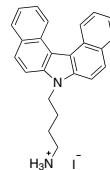


LT-S9753 | 4DBCzNH3I

NEW

4-(7H-dibenzo[c,g]carbazol-7-yl)butan-1-aminium

Grade :>99%
Formula :C₂₄H₂₃IN₂
M.W. :466.36 g/mole

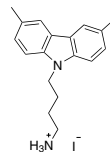


LT-S9754 | Me-4CzNH3I

NEW

4-(3,6-Dimethyl-9H-carbazol-9-yl)butan-1-aminium iodide

Grade :>99%
Formula :C₁₈H₂₃IN₂
M.W. :394.29 g/mole

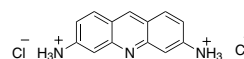


LT-S9858

NEW

Acridine-3,6-diamine dihydrochloride

CAS No :531-73-7
Grade :>99%
Formula :C₁₃H₁₃Cl₂N₃
M.W. :282.17 g/mole

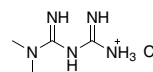


LT-PM2050 | DGACI

NEW

Metformin hydrochloride

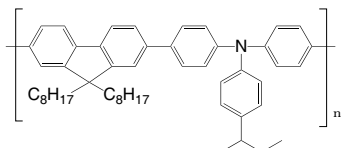
CAS No :1115-70-4
Grade :>97%
Formula :C₄H₁₂ClN₅
M.W. :165.62 g/mole



LT-N148 | TFB

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

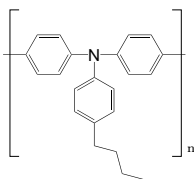
CAS No. : 220797-16-0
 Grade : Mw >30,000 (GPC)
 Formula : (C₅₁H₆₁N)_n
 UV : 389 nm (in CH₂Cl₂)
 PL : 443 nm (in CH₂Cl₂)
 Solubility : Soluble in CH₂Cl₂, Toluene, CHCl₃



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

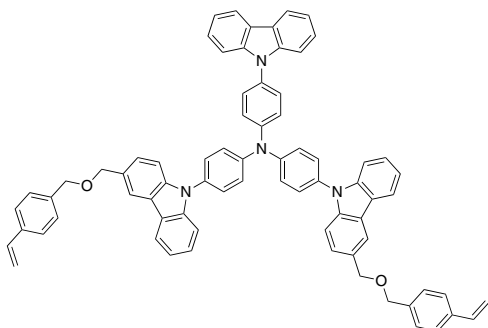


LT-N1013 | VB-TCTA

NEW

N-(4-(9H-carbazol-9-yl)phenyl)-4-(3-(((4-vinylbenzyl)oxy)methyl)-9H-carbazol-9-yl)-*N*-(4-(3-(((4-vinylbenzyl)oxy)methyl)-9H-carbazol-9-yl)phenyl)aniline

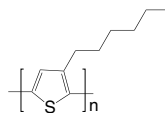
CAS No. : 931398-01-5
 Grade : >98%
 Formula : C₇₄H₅₆N₄O₂
 M.W. : 1033.26 g/mole
 HOMO : -5.2 eV
 LUMO : -1.9 eV



LT-S909 | P3HT

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

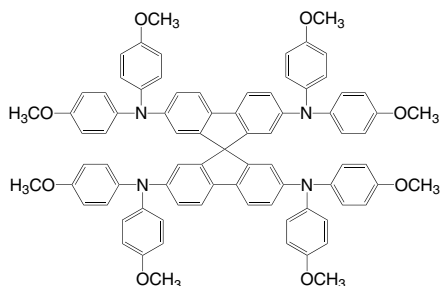
CAS No. : 110134-47-9 / 104934-50-1
 Grade : Mw >45,000 (GPC) Electronic
 Grade : Regio Regular >93%
 Formula : (C₁₀H₁₄S)_n
 UV : 445 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S922 | Spiro-MeOTAD

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

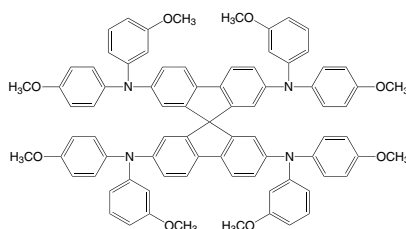
CAS No. : 207739-72-8
 Grade : >99.5% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 M.W. : 1225.43 g/mole
 UV : 306, 385 nm (in CH₂Cl₂)
 PL : 429 nm (in CH₂Cl₂)
 TGA : >360 °C (0.5% weight loss)



LT-S9145 | p,m-Spiro-MeOTAD

*N*²,*N*^{2'},*N*⁷,*N*^{7'}-Tetrakis(3-methoxyphenyl)-*N*²,*N*^{2'},*N*⁷,*N*^{7'}-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene]-2,2',7,7'-tetraamine

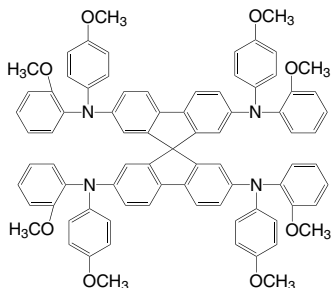
CAS No. : 1573202-44-4
 Grade : >99% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 M.W. : 1225.43 g/mole
 UV : 308, 378 nm (in CH₂Cl₂)
 PL : 414 nm (in CH₂Cl₂)
 TGA : >280 °C (0.5% weight loss)



LT-S9146 | p,o-Spiro-MeOTAD

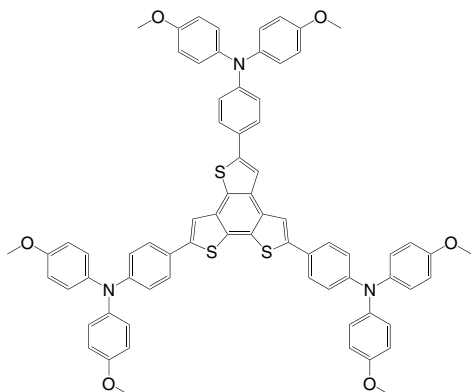
*N*²,*N*²,*N*⁷,*N*⁷-Tetrakis(2-methoxyphenyl)-*N*²,*N*²,*N*⁷,*N*⁷-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene]-2,2',7,7'-tetraamine

CAS No.	: 1628961-22-7
Grade	: >98.5% (HPLC)
Formula	: C ₈₁ H ₆₈ N ₄ O ₈
M.W.	: 1225.43 g/mole
UV	: 316, 375 nm (in CH ₂ Cl ₂)
PL	: 418 nm (in CH ₂ Cl ₂)
TGA	: >280 °C (0.5% weight loss)

**LT-S9276** | BTT-4

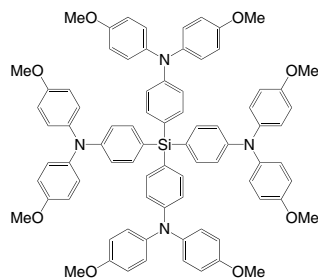
2,5,8-Tris(4-(bis(4-methoxyphenyl)amino)phenyl)benzotrithiophene

CAS No.	: 1908506-93-3
Formula	: C ₇₂ H ₅₇ N ₃ O ₆ S ₃
M.W.	: 1156.43 g/mole

**LT-S9290** | Si-OMeTPA

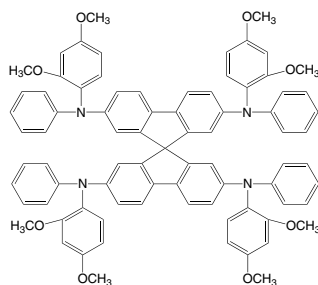
4,4',4'',4'''-Silane-tetrayl-tetrakis(N,N-bis(4-methoxyphenyl)aniline)

CAS No.	: 2202763-90-2
Grade	: >99% (HPLC)
Formula	: C ₈₀ H ₇₂ N ₄ O ₈ Si
M.W.	: 1245.54 g/mole
HOMO	: -5.39 eV
LUMO	: -1.96 eV

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

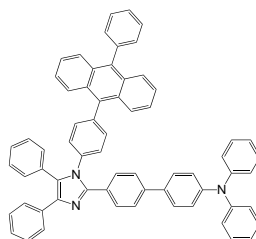
*N*²,*N*²,*N*⁷,*N*⁷-Tetrakis(2,4-dimethoxyphenyl)-*N*²,*N*²,*N*⁷,*N*⁷-tetraphenyl-9,9'-spirobifluorene]-2,2',7,7'-tetraamine

CAS No.	: 2102348-92-3
Grade	: >99% (HPLC)
Formula	: C ₈₁ H ₆₈ N ₄ O ₈
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)]

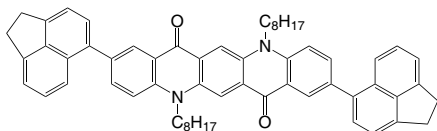
CAS No.	: 2252254-01-4
Grade	: Sublimed >99%
Formula	: C ₆₅ H ₄₅ N ₃
M.W.	: 868.07 g/mole
PCE	: 11.13 %



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

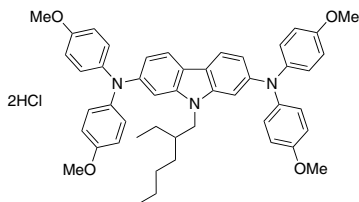
Grade : >99% (HPLC)
 Formula : $C_{60}H_{60}N_2O_2$
 M.W. : 841.13 g/mole
 UV : 301 nm (in $CHCl_3$)
 PL : 558 nm
 HOMO : -5.59 eV
 LUMO : -3.47 eV



LT-S9555 | EH-44

9-(2-Ethylhexyl)- N^2,N^2,N^7,N^7 -tetrakis(4-methoxyphenyl)-9H-carbazole-2,7-diamine hydrochloride salt

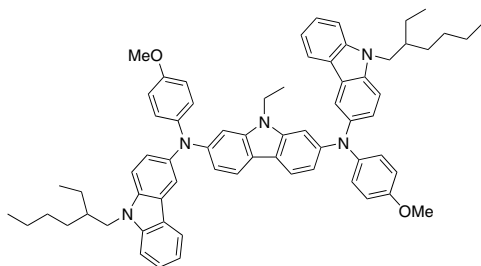
Grade : >99%
 Formula : $C_{48}H_{53}Cl_2N_3O_4$
 M.W. : 806.86 g/mole



LT-S9556 | EtCz-3EHCz

9-Ethyl- N^2,N^7 -bis(9-(2-ethylhexyl)-9H-carbazol-3-yl)- N^2,N^7 -bis(4-methoxyphenyl)-9H-carbazole-2,7-diamine hydrochloride salt

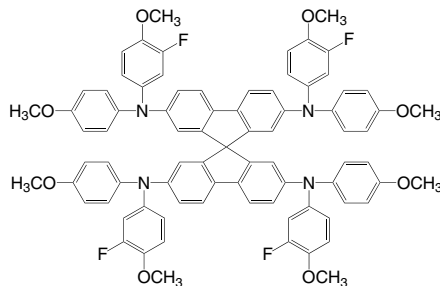
Grade : >99%
 Formula : $C_{68}H_{75}N_5O_2$
 M.W. : 1065.26 g/mole



LT-S9564 | Spiro-mF

N^2,N^2,N^7,N^7 -Tetrakis(3-fluoro-4-methoxyphenyl)- N^2,N^2,N^7,N^7 -tetrakis(4-methoxyphenyl)-9,9'-spirobi[fluorene]-2,2',7,7'-tetraamine

CAS No. : 2644017-35-4
 Grade : >99%
 Formula : $C_{81}H_{64}F_4N_4O_8$
 M.W. : 1297.39 g/mole
 HOMO : -5.19 eV
 LUMO : -2.23 eV

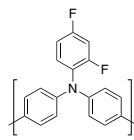


LT-S9756 | PTAA-2F

NEW

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

CAS No : 1414662-10-4
 Grade : MW >20,000
 Formula : $(C_{18}H_{11}F_2N)_n$

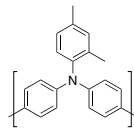


LT-S9757 | PTAA-2Me

NEW

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

CAS No : 313996-10-0
 Grade : MW >20,000
 Formula : $(C_{20}H_{17}N)_n$

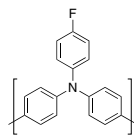


LT-S9758 | PTAA-F

NEW

Poly[bis(4-phenyl)(4-fluorophenyl)amine]

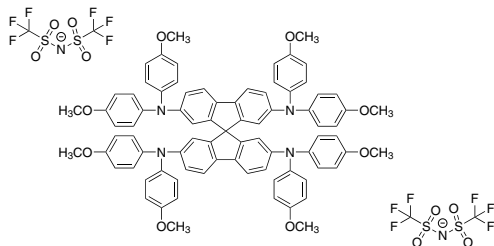
CAS No : 618108-64-8
 Grade : MW >20,000
 Formula : $(C_{18}H_{12}FN)_n$



LT-S9759 | Spiro(TFSI)2

2,2',7,7'-Tetrakis(N,N-di-p-methoxyphenylamino)-9,9'-spirobifluorene di[bis-(trifluoromethanesulfonyl)imide]

Grade : >99%
 Formula : $C_{85}H_{68}F_{12}N_6O_{16}S_4$
 M.W. : 1785.72 g/mole

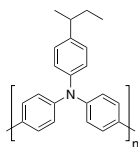


LT-S9760 | s-Poly-TPD

NEW

Poly[4,4'-(N-(4-secbutylphenyl)diphenylamine)]

CAS No : 860495-18-7
 Grade : MW >20,000
 Formula : $(C_{22}H_{21}N)_n$

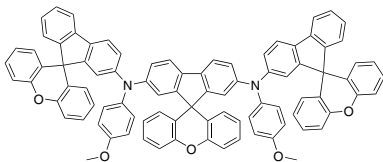


LT-S9761 | X55

NEW

N_2,N_7 -bis(4-methoxyphenyl)- N_2,N_7 -di(spiro[fluorene-9,9'-xanthen]-2-yl)spiro[fluorene-9,9'-xanthen]-2,7-diamine

CAS No : 2128308-79-0
 Grade : >99%
 Formula : $C_{89}H_{58}N_2O_5$
 M.W. : 1235.42 g/mole

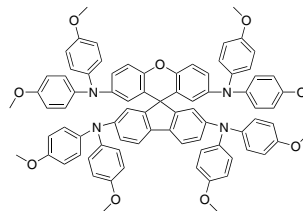


LT-S9762 | X60

NEW

$N_2,N_2,N_2',N_2',N_7,N_7,N_7',N_7'$ -octakis(4-methoxyphenyl)spiro[fluorene-9,9'-xanthen]-2,2',7,7'-tetraamine

CAS No : 1887794-22-0
 Grade : >99%
 Formula : $C_{81}H_{68}N_4O_9$
 M.W. : 1241.43 g/mole



LT-PS001 | PEDOT:PSS

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

Specification

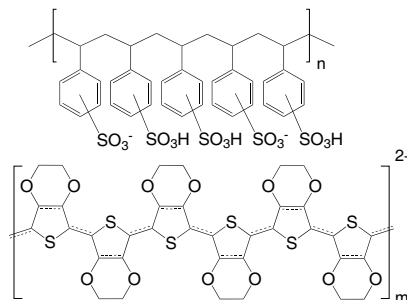
CAS No. : 155090-83-8
 Description : Aqueous dispersion, blue liquid.
 Sodium : Max. 400 ppm
 Sulfate : Max. 40 ppm
 Solid content: 1.3 - 1.7 wt%
 PSD d50 : 80 nm
 PSD d90 : 100 nm
 Resistivity : 500-5000 Ω cm
 Viscosity : 5-12 mPas

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!

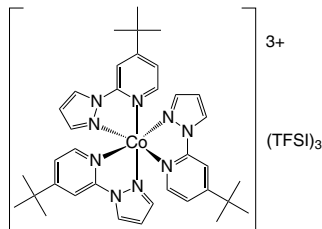


Hole Transport Dopant

LT-S9127 | FK209 Co(III) TFSI Salt

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

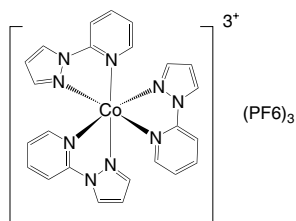
CAS No. : 1447938-61-5
Grade : >99% (NMR)
Formula : $C_{42}H_{45}CoF_{18}N_{12}O_{12}S_6$
M.W. : 1503.18 g/mole
UV : 227, 287 nm (in Acetonitrile)



LT-S9135 | FK102 Co(III) PF6 Salt

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

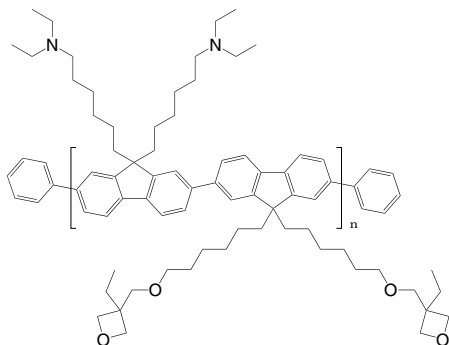
CAS No. : 1346416-70-3
Grade : >99% (NMR)
Formula : $C_{24}H_{21}CoF_{18}N_9P_3$
UV : 929.31 g/mole



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]]

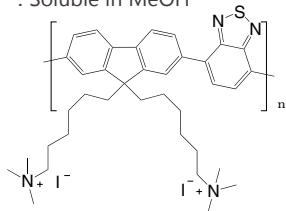
CAS No. : 1345045-27-3
 Formula : $(C_{70}H_{102}N_2O_4)_n C_{12}H_{10}$
 UV : 378 ± 10 nm (in THF)
 Solubility : Soluble in THF, $CHCl_3$



LT-N181 | PFNIBT

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

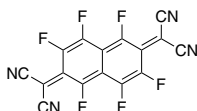
Grade : Mw > 10,000 (GPC)
 Formula : $(C_{35}H_{42}I_2N_4S)_n$
 UV : 317, 448 nm (in DMSO)
 Solubility : Soluble in MeOH



LT-N223 | F6TCNNQ NEW

1,3,4,5,7,8-hexafluorotetracyanonaphthoquinodimethane

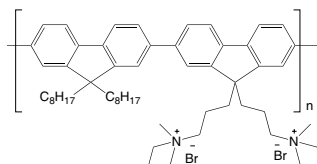
CAS No. : 912482-15-6
 Grade : Sublimed >98% (By Element Analysis)
 Formula : $C_{16}F_6N_4$
 M.W. : 362.19 g/mole



LT-N878 | PFN-Br

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

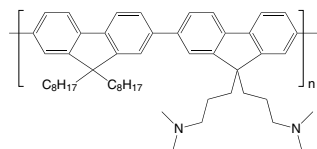
CAS No. : 889672-99-5
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{56}H_{80}N_2Br_2)_n$
 UV : 375 nm (in MeOH)
 PL : 440 nm (in MeOH)
 Solubility : Soluble in MeOH



LT-N4027 | PFN-DOF

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

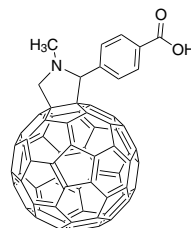
CAS No. : 673474-75-4
 Grade : Mw > 10,000 (GPC)
 Formula : $(C_{52}H_{70}N_2)_n$
 UV : 378 nm (in CH_2Cl_2)
 PL : 414 nm (in CH_2Cl_2)
 Solubility : Soluble in CH_2Cl_2 , $CHCl_3$, Toluene



LT-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

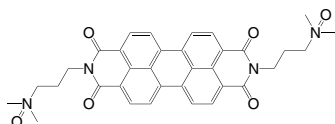
CAS No. : 631918-72-4
 Grade : >99%
 Formula : $C_{70}H_{11}NO_2$
 M.W. : 897.84 g/mole
 UV : 345 nm (in CH_2Cl_2)



LT-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

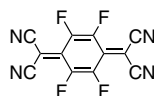
CAS No. : 1558023-86-1
 Grade : >97%
 Formula : C₃₄H₃₂N₄O₆
 M.W. : 592.64 g/mole
 HOMO : -6.21 eV
 LUMO : -3.63 eV



LT-E208 | F4-TCNQ

2,3,5,6-Tetrafluoro-7,7,8,8-tetracyano-quinodimethane

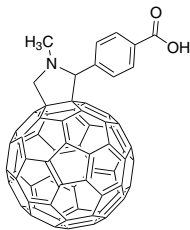
CAS No. : 29261-33-4
 Grade : Sublimed >99%
 Formula : C₁₂F₄N₄
 M.W. : 276.15 g/mole
 UV : 394 nm (in Chloroform)
 PL : 600 nm (in Chloroform)
 TGA : >210 °C (0.5% weight loss)



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

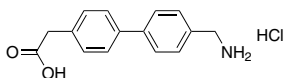
CAS No. : 631918-72-4
 Grade : >99%
 Formula : C₇₀H₁₁NO₂
 M.W. : 897.84 g/mole
 UV : 345 nm (in CH₂Cl₂)



LT-S9647

4'-(Aminomethyl)-[1,1'-biphenyl]-4-acetic acid

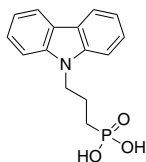
Grade : >99%
 Formula : C₁₅H₁₆ClNO₂
 M.W. : 277.75 g/mole



LT-S9648 | 3PACz

(3-(9H-carbazol-9-yl)propyl)phosphonic acid

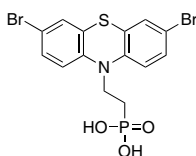
CAS No. : 915376-57-7
 Grade : >99%
 Formula : C₁₅H₁₆NO₃P
 M.W. : 289.27 g/mole



LT-S9649 | Br-2EPT

(2-(3,7-Dibromo-10H-phenothiazin-10-yl)ethyl)phosphonic acid

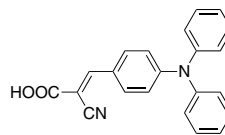
CAS No. : 2826271-17-2
 Grade : >99%
 Formula : C₁₄H₁₂BrNO₃PS
 M.W. : 465.10 g/mole
 HOMO : -5.47 eV
 LUMO : -2.12 eV



LT-S9650 | LS1

2-Cyano-3-[4-(N-phenylanilino)phenyl]prop-2-enoic acid

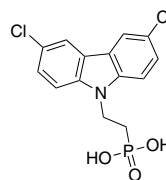
CAS No. : 30388-31-9
 Grade : >99%
 Formula : C₂₂H₁₆N₂O₂
 M.W. : 340.37 g/mole



LT-S9673 | Cl-2PACz

(2-(3,6-Dichloro-9H-carbazol-9-yl)ethyl)phosphonic acid

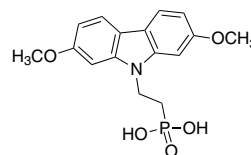
Grade : >99%
 Formula : C₁₄H₁₂Cl₂NO₃P
 M.W. : 344.13 g/mole
 HOMO : -6.05 eV
 LUMO : -2.67 eV



LT-S9674 | DC-PA

(2-(2,7-Dimethoxy-9H-carbazol-9-yl)ethyl)phosphonic acid

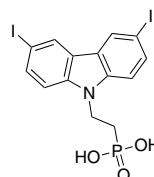
Grade : >99%
 Formula : C₁₆H₁₈NO₅P
 M.W. : 335.29 g/mole



LT-S9675 | I-2PACz

(2-(3,6-Diiodo-9H-carbazol-9-yl)ethyl)phosphonic acid

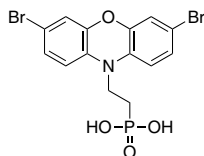
Grade : >99%
 Formula : C₁₄H₁₂I₂NO₃P
 M.W. : 527.03 g/mole
 HOMO : -5.98 eV
 LUMO : -2.61 eV



LT-S9676 | Br-2EPO

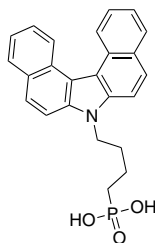
(2-(3,7-Dibromo-10H-phenoxazin-10-yl)ethyl)phosphonic acid

Grade : > 99%
 Formula : $C_{14}H_{12}Br_2NO_4P$
 M.W. : 449.03 g/mole
 HOMO : -5.25 eV
 LUMO : -1.81 eV

**LT-S9677** | CbzNaph

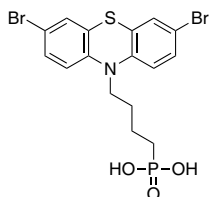
(4-(7H-dibenzo[c,g]carbazol-7-yl)butyl)phosphonic acid

CAS No. : 2882156-63-8
 Grade : > 99%
 Formula : $C_{24}H_{22}NO_3P$
 M.W. : 403.41 g/mole
 HOMO : -5.35 eV
 LUMO : -2.28 eV

**LT-S9678** | 2BrPTZPA

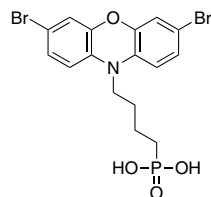
(4-(3,7-dibromo-10H-phenothiazin-10-yl)butyl)phosphonic acid

Grade : > 99%
 Formula : $C_{16}H_{16}Br_2NO_3PS$
 M.W. : 493.15 g/mole
 HOMO : -5.34 eV
 LUMO : -1.16 eV

**LT-S9679** | 2BrPXZPA

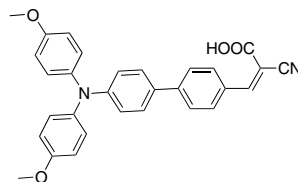
(4-(3,7-dibromo-10H-phenoxazin-10-yl)butyl)phosphonic acid

Grade : > 99%
 Formula : $C_{16}H_{16}Br_2NO_4P$
 M.W. : 477.08 g/mole
 HOMO : -5.22 eV
 LUMO : -1.01 eV

**LT-S9667** | MPA-Ph-CA

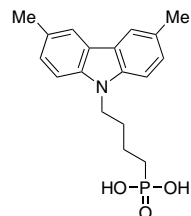
(Z)-3-(4'-(Bis(4-methoxyphenyl)amino)-[1,1'-biphenyl]-4-yl)-2-cyanoacrylic acid

CAS No. : 1813558-55-2
 Grade : > 99%
 Formula : $C_{30}H_{24}N_2O_4$
 M.W. : 476.52 g/mole
 HOMO : -5.39 eV
 LUMO : -2.64 eV

**LT-S9557** | Me-4PACz

(4-(3,6-Dimethyl-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2747959-96-0
 Grade : > 99%
 Formula : $C_{18}H_{22}NO_3P$
 M.W. : 331.35 g/mole
 HOMO : -5.74 eV
 LUMO : -2.49 eV



LT-S9566 | 2PACz

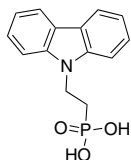
(2-(9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. :20999-38-6

Grade :>99%

Formula :C₁₄H₁₄NO₃P

M.W. :275.24 g/mole



LT-S9567 | 4PACz

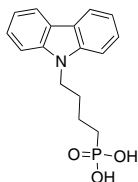
(4-(9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. :20999-36-4

Grade :>99%

Formula :C₁₆H₁₈NO₃P

M.W. :303.29 g/mole



LT-S9568 | 6PACz

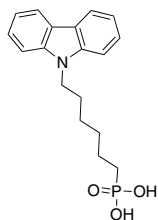
(6-(9H-carbazol-9-yl)hexyl)phosphonic acid

CAS No. :3015516-21-6

Grade :>99%

Formula :C₁₈H₂₂NO₃P

M.W. :331.35 g/mole



LT-S9569 | Br-2PACz

(2-(3,6-Dibromo-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. :2762888-11-7

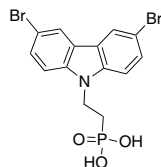
Grade :>99%

Formula :C₁₄H₁₂Br₂NO₃P

M.W. :433.03 g/mole

HOMO :-6.01 eV

LUMO :-2.64 eV



LT-S9570 | Br-4PACz

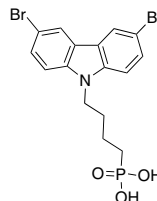
(4-(3,6-Dibromo-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. :2996161-28-3

Grade :>99%

Formula :C₁₆H₁₆Br₂NO₃P

M.W. :461.08 g/mole



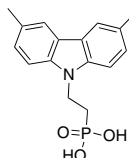
LT-S9571 | Me-2PACz

(2-(3,6-Dimethyl-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade :>99%

Formula :C₁₆H₁₈NO₃P

M.W. :303.29 g/mole



LT-S9572 | Me-6PACz

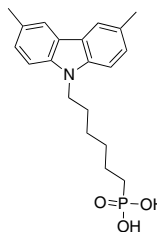
(6-(3,6-Dimethyl-9H-carbazol-9-yl)hexyl)phosphonic acid

CAS No. :2996161-29-4

Grade :>99%

Formula :C₂₀H₂₆NO₃P

M.W. :359.4 g/mole



LT-S9573 | MeO-2PACz

(2-(3,6-Dimethoxy-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. :2377770-18-6

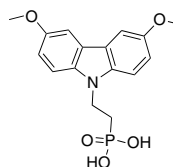
Grade :>99%

Formula :C₁₆H₁₈NO₅P

M.W. :335.29 g/mole

HOMO :-5.3 eV

LUMO :-2.12 eV



LT-S9574 | MeO-4PACz

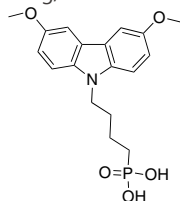
(4-(3,6-Dimethoxy-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. :2922526-56-3

Grade :>99%

Formula :C₁₈H₂₂NO₅P

M.W. :363.34 g/mole



LT-S9583 | EADR03

4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)benzoic acid

CAS No. :2918298-65-2

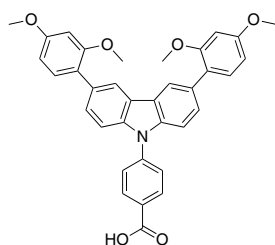
Grade :>99%

Formula :C₃₅H₂₉NO₆

M.W. :559.61 g/mole

HOMO :-5.05 eV

LUMO :-1.77 eV



LT-S9727 | MPA-CPA

NEW

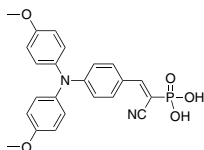
(2-(4-(Bis(4-methoxyphenyl)amino)phenyl)-1-cyanovinyl) phosphonic acid

CAS No. :2212003-31-9

Grade :>98%

Formula :C₂₃H₂₁N₂O₅P

M.W. :436.4 g/mole



LT-S9737 | 3PATAT-C3

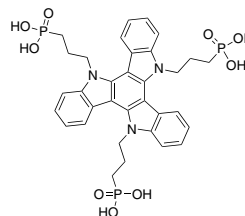
NEW

((5H-Diindolo[3,2-a:3',2'-c]carbazole-5,10,15-triyl)tris(propane-3,1-diyl)triphosphonic acid

Grade :>98%

Formula :C₃₃H₃₆N₃O₉P₃

M.W. :711.57 g/mole



LT-S9738 | 4,3BuPACz

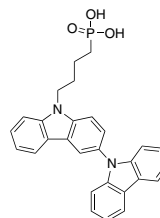
NEW

(4-(9H-[3,9'-bicarbazol]-9-yl)butyl)phosphonic acid

Grade :>98%

Formula :C₂₈H₂₅N₂O₃P

M.W. :468.48 g/mole



LT-S9739 | BCBBR-C4PA

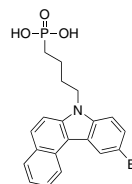
NEW

(4-(10-Bromo-7H-benzo[c]carbazol-7-yl)butyl)phosphonic acid

Grade :>99%

Formula :C₂₀H₁₉BrNO₃P

M.W. :432.25 g/mole



LT-S9740 | PPA

NEW

7-(4-(Diphenylamino)phenyl)benzo[c][1,2,5]thiadiazol-4-yl) phosphonic acid

CAS No : 2759856-06-7

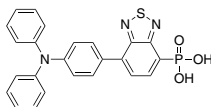
Grade : >98%

Formula : $C_{24}H_{18}N_3O_3PS$

M.W. : 459.46 g/mole

HOMO : -5.28 eV

LUMO : -2.96 eV



LT-S9741 | DCB-BPA

NEW

(4-(5,9-Dibromo-7H-dibenzo[c,g]carbazol-7-yl)butyl) phosphonic acid

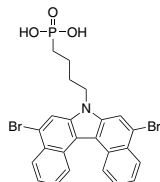
Grade : >98%

Formula : $C_{24}H_{20}Br_2NO_3P$

M.W. : 561.2 g/mole

HOMO : -5.35 eV

LUMO : -1.62 eV



LT-S9747 | DMAcPA

NEW

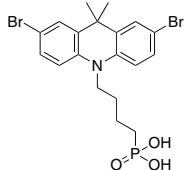
(4-(2,7-Dibromo-9,9-dimethylacridin-10(9H)-yl)butyl) phosphonic acid

CAS No : 2971088-37-4

Grade : >98%

Formula : $C_{19}H_{22}Br_2NO_3P$

M.W. : 503.16 g/mole



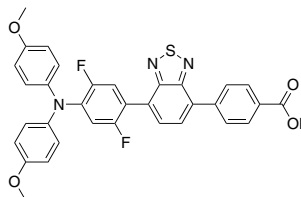
LT-S9748 | MPA2FPh-BT-BA

4-(7-(4-(Bis(4-methoxyphenyl)amino)-2,5-difluorophenyl)benzo[c][1,2,5]thiadiazol-4-yl)benzoic acid

Grade : >98%

Formula : $C_{33}H_{23}F_2N_3O_4S$

M.W. : 595.62 g/mole



LT-S9750 | MPA-BT-CA

(E)-3-(7-(4-(Bis(4-methoxyphenyl)amino)phenyl)benzo[c][1,2,5]thiadiazol-4-yl)-2-cyanoacrylic acid

Grade : >98%

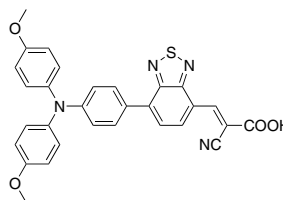
Formula : $C_{30}H_{22}N_4O_4S$

M.W. : 534.59 g/mole

UV : 514 nm (in THF)

HOMO : -5.29 eV

LUMO : -3.26 eV



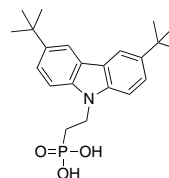
LT-S9755 | tBu-2PACz

(2-(3,6-Di-tert-butyl-9H-carbazol-9-yl)ethyl)phosphonic acid

Grade : >98%

Formula : $C_{22}H_{30}NO_3P$

M.W. : 387.45 g/mole



LT-S9791

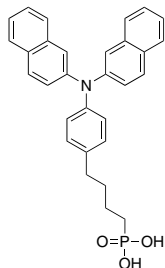
NEW

(4-(4-(Di(naphthalen-2-yl)amino)phenyl)butyl)phosphonic acid

Grade :>98%

Formula :C₃₀H₂₈NO₃P

M.W. :481.52 g/mole



LT-S9792

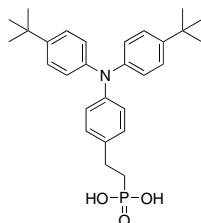
NEW

(4-(Bis(4-(tert-butyl)phenyl)amino)phenethyl)phosphonic acid

Grade :>98%

Formula :C₂₈H₃₆NO₃P

M.W. :465.56 g/mole



LT-S9793

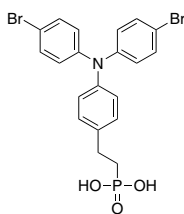
NEW

(4-(bis(4-bromophenyl)amino)phenethyl)phosphonic acid

Grade :>98%

Formula :C₂₀H₁₈Br₂NO₃P

M.W. :511.14 g/mole



LT-S9794

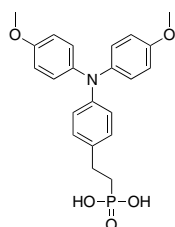
NEW

(4-(Bis(4-methoxyphenyl)amino)phenethyl)phosphonic acid

Grade :>98%

Formula :C₂₂H₂₄NO₅P

M.W. :413.4 g/mole



LT-S9795

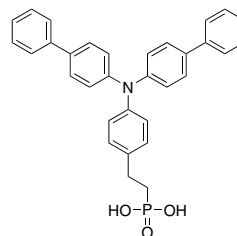
NEW

(4-(Di([1,1'-biphenyl]-4-yl)amino)phenethyl)phosphonic acid

Grade :>98%

Formula :C₃₂H₂₈NO₃P

M.W. :505.54 g/mole



LT-S9796

NEW

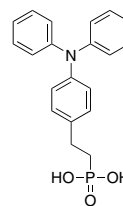
(4-(Diphenylamino)phenethyl)phosphonic acid

CAS No. :3015516-16-9

Grade :>98%

Formula :C₂₀H₂₀NO₃P

M.W. :353.35 g/mole



LT-S9797

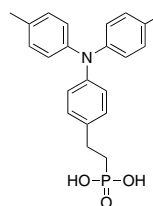
NEW

(4-(Di-p-tolylamino)phenethyl)phosphonic acid

Grade :>98%

Formula :C₂₂H₂₄NO₃P

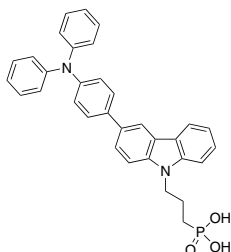
M.W. :381.4 g/mole



LT-S9798 | 4dp3PACz NEW

[3-[4-(Diphenylamino)phenyl]-9H-carbazol-9-yl] propylphosphonic acid

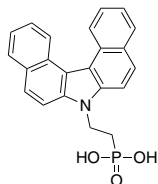
Grade : > 98%
 Formula : $C_{33}H_{29}N_2O_3P$
 M.W. : 532.57 g/mole



LT-S9799 | DCB-C2-POOH NEW

(2-(7H-dibenzo[c,g]carbazol-7-yl)ethyl)phosphonic acid

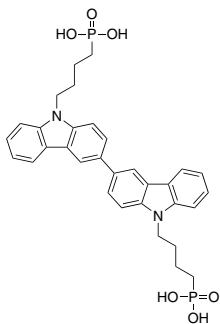
CAS No. : 2882156-61-6
 Grade : > 99%
 Formula : $C_{22}H_{18}NO_3P$
 M.W. : 375.36 g/mole
 HOMO : -5.53 eV
 LUMO : -2.34 eV



LT-S9800 | DCZ-C4POH NEW

(9H,9'H-[3,3'-bicarbazole]-9,9'-diylbis(butane-4,1-diyl)) diphosphonic acid

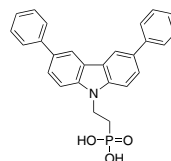
Grade : > 98%
 Formula : $C_{32}H_{34}N_2O_6P_2$
 M.W. : 604.57 g/mole



LT-S9801 | Ph-2PACz NEW

(2-(3,6-Diphenyl-9H-carbazol-9-yl)ethyl)phosphonic acid

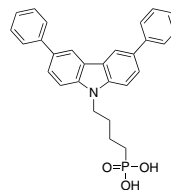
Grade : > 99%
 Formula : $C_{26}H_{22}NO_3P$
 M.W. : 427.43 g/mole



LT-S9802 | Ph-4PACz NEW

(4-(3,6-Diphenyl-9H-carbazol-9-yl)butyl)phosphonic acid

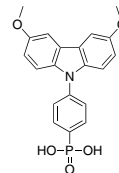
CAS No. : 2814500-04-2
 Grade : > 99%
 Formula : $C_{28}H_{26}NO_3P$
 M.W. : 455.48 g/mole



LT-S9837 | MeO-PhPACz NEW

(4-(3,6-Dimethoxy-9H-carbazol-9-yl)phenyl)phosphonic acid

Grade : > 98%
 Formula : $C_{20}H_{18}NO_5P$
 M.W. : 383.33 g/mole
 UV : 379 nm (in DMF)
 HOMO : -5.61 eV
 LUMO : -2.41 eV



Organic Photovoltaic (OPV)_Perovskite Solar Cells Materials

Self-Assembled Monolayers Materials

LT-S9842

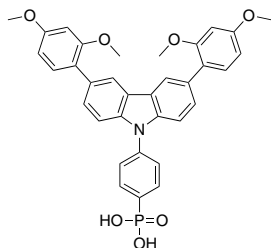
NEW

(4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)phenyl) phosphonic acid

Grade : >98%

Formula : $C_{34}H_{30}NO_7P$

M.W. : 595.58 g/mole



LT-S9843

NEW

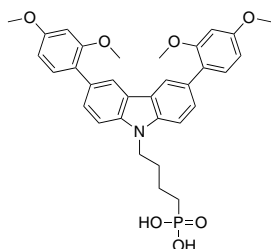
(4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)butyl) phosphonic acid

CAS No : 2986396-31-8

Grade : >98%

Formula : $C_{32}H_{34}NO_7P$

M.W. : 575.59 g/mole



LT-S9844

NEW

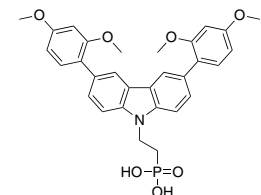
(2-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)ethyl) phosphonic acid

CAS No : 2986396-25-0

Grade : >98%

Formula : $C_{30}H_{30}NO_7P$

M.W. : 547.54 g/mole



LT-S9851

CI-3PACz

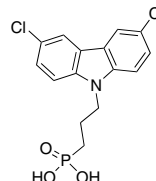
NEW

(4-(3,6-Dichloro-9H-carbazol-9-yl)propyl)phosphonic acid

Grade : >99%

Formula : $C_{15}H_{14}Cl_2NO_3P$

M.W. : 358.16 g/mole



LT-S9852

CI-4PACz

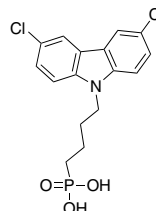
NEW

(4-(3,6-Dichloro-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : >99%

Formula : $C_{16}H_{16}Cl_2NO_3P$

M.W. : 372.18 g/mole



LT-S9855

I-3PACz

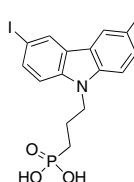
NEW

(4-(3,6-Diiodo-9H-carbazol-9-yl)propyl)phosphonic acid

Grade : >99%

Formula : $C_{15}H_{14}I_2NO_3P$

M.W. : 541.06 g/mole



LT-S9856

I-4PACz

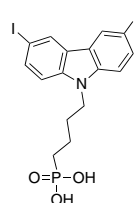
NEW

(4-(3,6-Diiodo-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : >99%

Formula : $C_{16}H_{16}I_2NO_3P$

M.W. : 555.09 g/mole



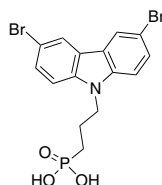
LT-S9857 | Br-3PACz **NEW**

(4-(3,6-Dibromo-9H-carbazol-9-yl)propyl)phosphonic acid

Grade : > 99%

Formula : $C_{15}H_{14}Br_2NO_3P$

M.W. : 447.06 g/mole



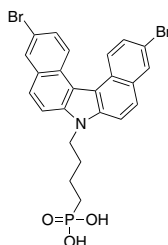
LT-S9859 | Br-4PADBC **NEW**

(4-(3,11-Dibromo-7H-dibenzo[c,g]carbazol-7-yl)butyl) phosphonic acid

Grade : > 98%

Formula : $C_{24}H_{20}Br_2NO_3P$

M.W. : 561.2 g/mole



LT-S9860 | CbzBF **NEW**

(4-(5H-benzofuro[3,2-c]carbazol-5-yl)butyl)phosphonic acid

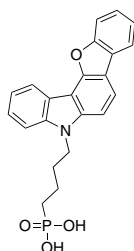
Grade : > 98%

Formula : $C_{22}H_{20}NO_4P$

M.W. : 393.37 g/mole

HOMO : -5.5 eV

LUMO : -1.15 eV



LT-S9861 | CbzBT **NEW**

(4-(5H-benzo[4,5]thieno[3,2-c]carbazol-5-yl)butyl)phosphonic acid

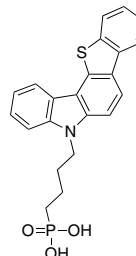
Grade : > 98%

Formula : $C_{22}H_{20}NO_3PS$

M.W. : 409.44 g/mole

HOMO : -5.54 eV

LUMO : -1.17 eV



LT-S9862 | MeO-4PADBC **NEW**

(4-(3,11-Dimethoxy-7H-dibenzo[c,g]carbazol-7-yl)butyl) phosphonic acid

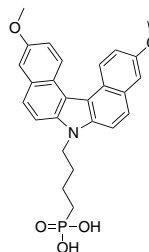
Grade : > 98%

Formula : $C_{26}H_{26}NO_5P$

M.W. : 463.46 g/mole

HOMO : -4.91 eV

LUMO : -1.15 eV



LT-N168 | PTAA

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

CAS No. : 1333317-99-9

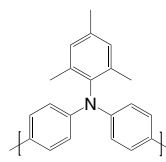
Grade : Mw = 20,000~100,000 (GPC)

Formula : $(C_{21}H_{19}N)_n$

UV : 388 nm (in CH_2Cl_2)

PL : 424 nm (in CH_2Cl_2)

Solvent : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-N1021 | 1F-PTAA

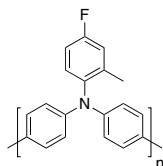
Poly(bis(4-phenyl)(4-fluoro-2-methylphenyl)amine)

Grade : Mw >20,000

Formula : $(C_{19}H_{14}FN)_n$

HOMO : -5.52 eV

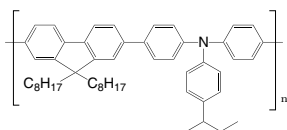
LUMO : -2.55 eV



LT-N148 | TFB

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

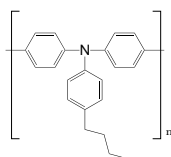
CAS No. : 220797-16-0
 Grade : Mw >30,000 (GPC)
 Formula : (C₅₁H₆₁N)_n
 UV : 389 nm (in CH₂Cl₂)
 PL : 443 nm (in CH₂Cl₂)
 Solubility : Soluble in CH₂Cl₂, Toluene, CHCl₃



LT-N149 | Poly-TPD

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

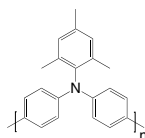
CAS No. : 472960-35-3
 Grade : Mw = 20,000~200,000 (GPC)
 Formula : (C₂₂H₂₁N)_n
 UV : 371, 388 nm (in CH₂Cl₂)
 PL : 424 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene



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 : 388 nm (in CH₂Cl₂)
 PL : 424 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene

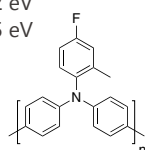


LT-N1021 | 1F-PTAA

NEW

Poly[bis(4-phenyl)(4-fluoro-2-methylphenyl)amine]

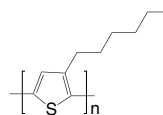
Grade : Mw >20,000
 Formula : (C₁₉H₁₄FN)_n
 HOMO : -5.52 eV
 LUMO : -2.55 eV



LT-S909 | P3HT

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

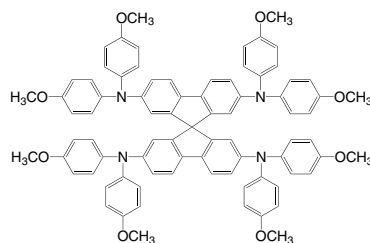
CAS No. : 110134-47-9 / 104934-50-1
 Grade : Mw >45,000 (GPC)
 Electronic Grade : Regio Regular >93%
 Formula : (C₁₀H₁₄S)_n
 UV : 445 nm (in THF)
 PL : 564 nm (in THF)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene



LT-S922 | Spiro-MeOTAD

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

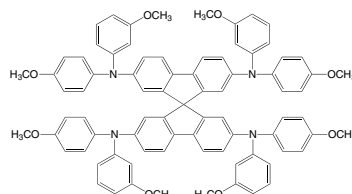
CAS No. : 207739-72-8
 Grade : >99.5%
 Formula : C₈₁H₆₈N₄O₈
 M.W. : 1225.43 g/mole
 UV : 306, 385 nm (in CH₂Cl₂)
 PL : 429 nm (in CH₂Cl₂)
 TGA : >360°C (0.5% weight loss)



LT-S9145 | p,m-Spiro-MeOTAD

*N*²,*N*²,*N*⁷,*N*⁷-Tetrakis(3-methoxyphenyl)-*N*²,*N*²,*N*⁷,*N*⁷-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

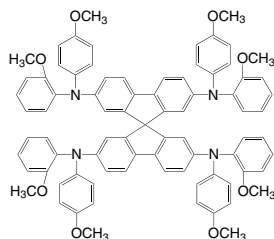
CAS No. : 1573202-44-4
 Grade : >99% (HPLC)
 Formula : C₈₁H₆₈N₄O₈
 UV : 308, 378 nm (in CH₂Cl₂)
 PL : 414 nm (in CH₂Cl₂)



LT-S9146 | p,o-Spiro-MeOTAD

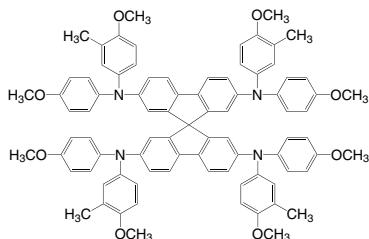
N,N',N'',N'''-Tetrakis(2-methoxyphenyl)-*N,N',N'',N'''*-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene]-2,2',7,7'-tetraamine

CAS No. : 1628961-22-7
 Grade : >98.5% (HPLC)
 Formula : $C_{81}H_{68}N_4O_8$
 UV : 316, 375 nm (in CH_2Cl_2)
 PL : 418 nm (in CH_2Cl_2)

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

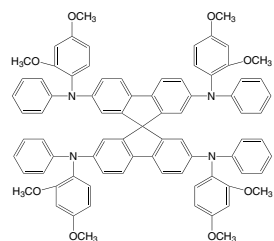
2,2',7,7'-Tetrakis(4,4'-dimethoxy-3-methylphenylamino)-9,9'-spirobifluorene

CAS No. : 1573202-31-9
 Grade : >99% (HPLC)
 Formula : $C_{85}H_{76}N_4O_8$
 UV : 306, 385 nm (in CH_2Cl_2)
 PL : 429 nm (in CH_2Cl_2)

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

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

CAS No. : 2102348-92-3
 Grade : >99% (HPLC)
 Formula : $C_{81}H_{68}N_4O_8$
 HOMO : -5.24 eV
 LUMO : -2.08 eV

**LT-PS001** | PEDOT: PSS

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

Specification

CAS No. : 155090-83-8
 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

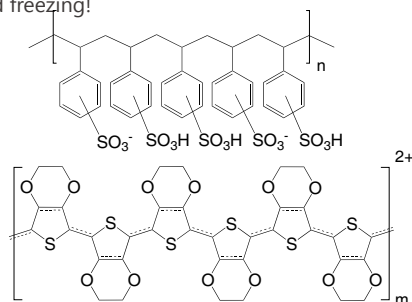
Technical Data (guide values, not a specification)

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.

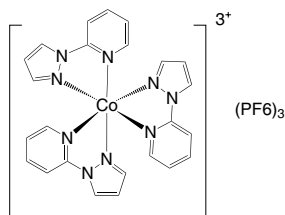
Avoid freezing!



Redox Couple Electrolytes

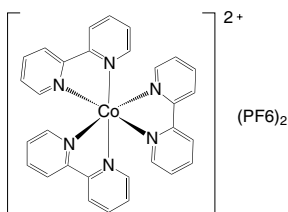
LT-S9135 | FK102 Co(III) PF₆_SaltTris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(III)
tris(hexafluorophosphate)

CAS No. : 1346416-70-3
 Grade : >99% (NMR)
 Formula : C₂₄H₂₁CoF₁₈N₉P₃
 M.W. : 929.31 g/mole

**LT-S9183** | Co(II)(bpy)₃(PF₆)₂

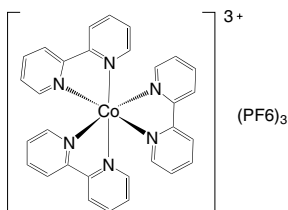
Tris-(2,2'-bipyridine)cobalt(II) bis(hexafluorophosphate)

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

**LT-S9184** | Co(III) (bpy)₃(PF₆)₃

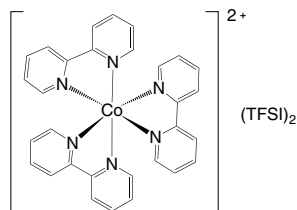
Tris-(2,2'-bipyridine)cobalt(III) tris(hexafluorophosphate)

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

**LT-S9185** | Co(II)(bpy)₃(TFSI)₂

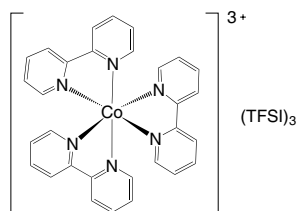
Tris-(2,2'-bipyridine)cobalt(II) bis(trifluoromethanesulfonimide)

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

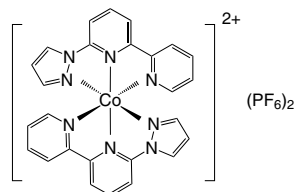
**LT-S9186** | Co(III)(bpy)₃(TFSI)₃

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)₂Bis(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

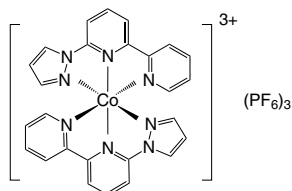


Redox Couple Electrolytes

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

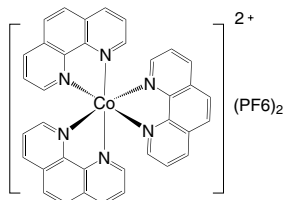
Bis(6-(1H-pyrazol-1-yl)-2,2'-bipyridine)cobalt(III)
tris(hexafluorophosphate), mixture of stereoisomers

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

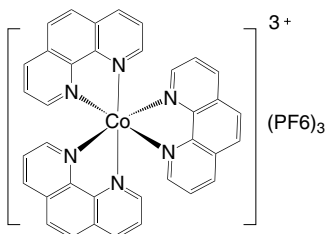
Tris(1,10-phenanthroline)cobalt(II) bis(hexafluorophosphate)

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

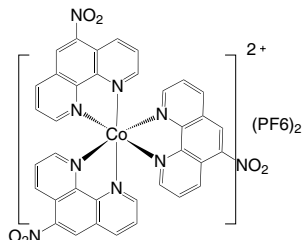
Tris(1,10-phenanthroline)cobalt(III) tris(hexafluorophosphate)

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

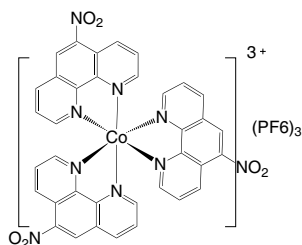
Tris(5-nitro-1,10-phenanthroline)cobalt(II)
bis(hexafluorophosphate)

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

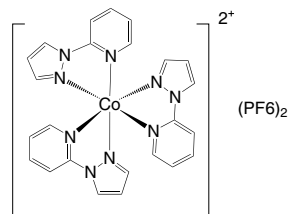
Tris(5-nitro-1,10-phenanthroline)cobalt(III)
tris(hexafluorophosphate)

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

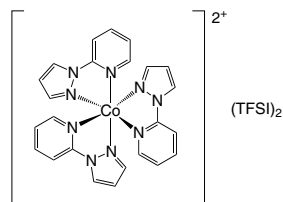


Redox Couple Electrolytes

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

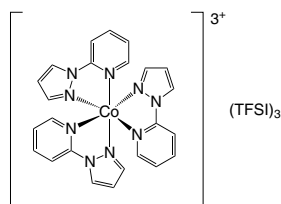
Tris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(II)
bis(trifluoromethanesulfonimide)

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

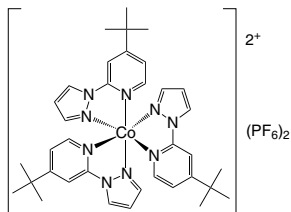
Tris(1-(pyridin-2-yl)-1*H*-pyrazol)cobalt(III)
tris(trifluoromethanesulfonimide)

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

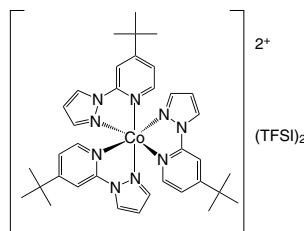
Tris[4-(tert-butyl)-2-(1*H*-pyrazol-1-yl)pyridine]cobalt(II)
bis(hexafluorophosphate)

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

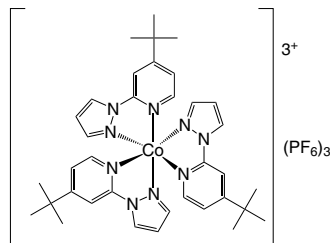
Tris[4-(tert-butyl)-2-(1*H*-pyrazol-1-yl)pyridine]cobalt(II)
bis(trifluoromethanesulfonimide)

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

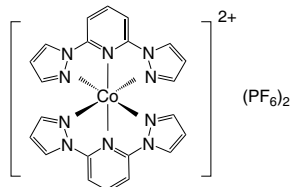
Tris[4-(tert-butyl)-2-(1*H*-pyrazol-1-yl)pyridine]cobalt(III)
tris(hexafluorophosphate)

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

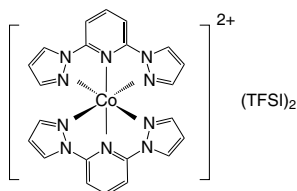


Redox Couple Electrolytes

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

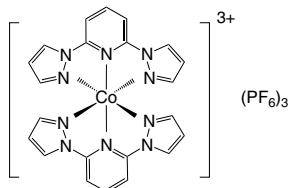
Bis[2,6-di(1*H*-pyrazol-1-yl)pyridine]cobalt(II)
bis(trifluoromethanesulfonimide)

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

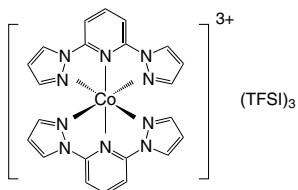
Bis[2,6-di(1*H*-pyrazol-1-yl)pyridine]cobalt(III)
tris(hexafluorophosphate)

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

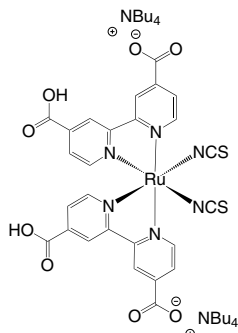
Bis[2,6-di(1*H*-pyrazol-1-yl)pyridine]cobalt(III)
tris(trifluoromethanesulfonimide)

Grade : >99% (NMR)
Formula : $C_{28}H_{18}CoN_{13}O_{12}S_6F_{18}$
M.W. : 1321.83 g/mole

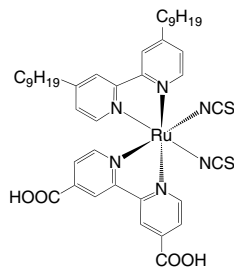


LT-S945 | N719Di-tetrabutylammonium *cis*-bis(isothiocyanato)bis(2,2'-bipyridyl-4,4'-dicarboxylato)ruthenium(II)

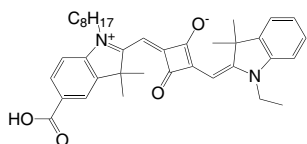
CAS No. : 207347-46-4
 Grade : >98% (HPLC)
 Formula : $C_{58}H_{86}N_8O_8RuS_2$
 M.W. : 1188.55 g/mole
 UV : 313, 534 nm (in EtOH)

**LT-S964** | Z-907*cis*-Bis(isothiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylato)(4,4'-di-nonyl-2'-bipyridyl)ruthenium(II)

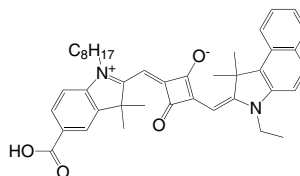
CAS No. : 502693-09-6
 Grade : >98% (HPLC)
 Formula : $C_{42}H_{52}N_6O_4RuS_2$
 M.W. : 870.10 g/mole
 UV : 295, 531 nm (in EtOH)

**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)

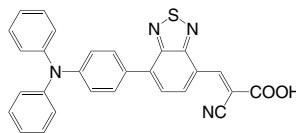
**LT-S9038** | SQ02*(E)*-4-((5-Carboxy-3,3-dimethyl-1-octyl-3*H*-indolium-2-yl)-methylene)-2-((*E*)-(3-ethyl-1,1-dimethyl-1*H*-benzo[e]indol-2(3*H*)-ylidene)methyl)-3-oxocyclobut-1-enolate

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)

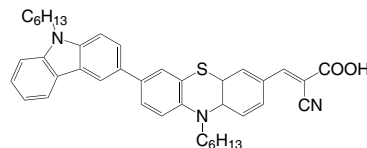
**LT-S9068** | RL-1

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 : $C_{28}H_{18}N_4O_2S$
 M.W. : 474.53 g/mole
 UV : 324, 486 nm (in THF)
 TGA : >240 °C (0.5% weight loss)

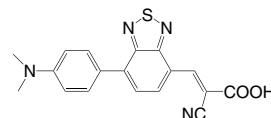
**LT-S9120** | PTCbCA*(E)*-2-Cyano-3-(10-hexyl-7-(9-hexyl-9*H*-carbazol-3-yl)-10*H*-phenothiazin-3-yl)acrylic acid

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

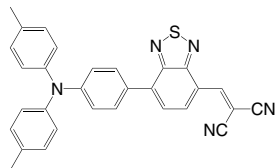


Dye-sensitized

LT-S9122 | DTDCPB

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

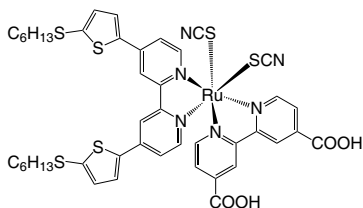
CAS No. : 1393343-58-2
 Grade : >99%
 Formula : C₃₀H₂₁N₅S
 M.W. : 483.59 g/mole
 UV : 306, 568 nm (in CH₂Cl₂)



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)

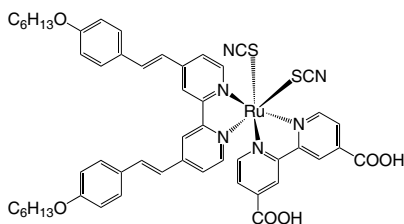
CAS No. : 1152310-69-4
 Formula : C₄₄H₄₄N₆O₄RuS₆
 M.W. : 1014.32 g/mole



LT-S9417 | K19 Dye

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

CAS No. : 847665-45-6
 Formula : C₅₂H₅₂N₆O₆RuS₂
 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 : C₆₉H₁₁₇N₉O₆RuS₃
 M.W. : 1364.98 g/mole

