

**LT-E201** | CuPC

Copper(II) phthalocyanine

CAS No. : 147-14-8

Grade : Sublimed &gt;99%

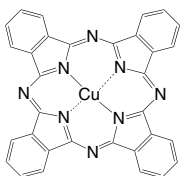
TGA : &gt;430 °C (0.5% wt. loss)

Formula :  $C_{32}H_{16}CuN_8$ 

M.W. : 576.08 g/mole

UV : 345, 631 nm (in  $CH_2Cl_2$ )

PL : 404 nm (film)

**LT-E206** | TiOPC

Titanium oxide phthalocyanine

CAS No. : 26201-32-1

Grade : Sublimed &gt;99%

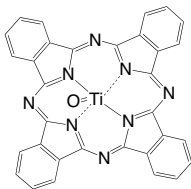
TGA : &gt;440 °C (0.5% wt. loss)

Formula :  $C_{32}H_{16}N_8OTi$ 

M.W. : 576.39 g/mole

UV : 349, 692 nm (in  $CH_2Cl_2$ )

PL : 392 nm (film)

**LT-N219** | PtPC

Phthalocyanine platinum

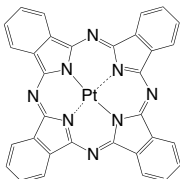
CAS No. : 14075-08-2

Grade : Sublimed &gt;99%

TGA : &gt;460 °C (0.5% wt. loss)

Formula :  $C_{32}H_{16}N_8Pt$ 

M.W. : 707.6 g/mole

UV : 228, 270 nm (in  $CH_2Cl_2$ )PL : 372.5 nm (in  $CH_2Cl_2$ )**LT-N4003** | DBP

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

CAS No. : 175606-05-0

Grade : Sublimed &gt;99%

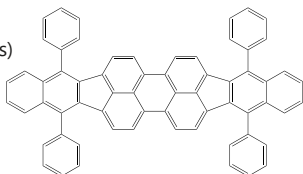
TGA : &gt;350 °C (0.5% wt. loss)

Formula :  $C_{64}H_{36}$ 

M.W. : 804.97 g/mole

UV : 333 nm (in THF)

PL : 610 nm (in THF)

**LT-S901** | Pentacene

Pentacene

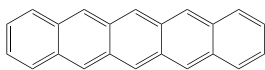
CAS No. : 135-48-8

Grade : Sublimed &gt;99%

TGA : &gt;290 °C (0.5% wt. loss)

Formula :  $C_{22}H_{14}$ 

M.W. : 278.35 g/mole

UV : 300 nm (in  $CH_2Cl_2$ )PL : 509 nm (in  $CH_2Cl_2$ )**LT-S902** | PDCDT

N,N'-Bis(2,5-di-tert-butylphenyl)-3,4,9,10-perylene dicarboximide

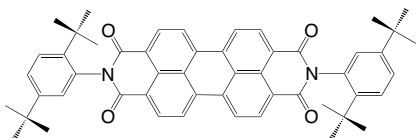
CAS No. : 83054-80-2

Grade : Sublimed &gt;99%

TGA : &gt;350 °C (0.5% wt. loss)

Formula :  $C_{52}H_{50}N_2O_4$ 

M.W. : 766.96 g/mole

UV : 524 nm (in  $CH_2Cl_2$ )PL : 544, 574 nm (in  $CH_2Cl_2$ )**LT-S903** | C60Fullerene- $C_{60}$ 

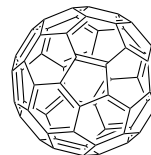
CAS No. : 99685-96-8

Grade : &gt;99.5%

TGA : &gt;450 °C (0.5% wt. loss)

Formula :  $C_{60}$ 

M.W. : 720.64 g/mole

UV : 251 nm (in  $CH_2Cl_2$ )**LT-S904** | PenPTC

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

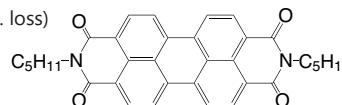
CAS No. : 76372-75-3

Grade : Sublimed &gt;99%

TGA : &gt;350 °C (0.5% wt. loss)

Formula :  $C_{34}H_{30}N_2O_4$ 

M.W. : 530.61 g/mole

UV : 523 nm (in  $CH_2Cl_2$ )PL : 535, 573 nm (in  $CH_2Cl_2$ )**LT-S905** | PCBM(6,6)-Phenyl  $C_{61}$  butyric acid methyl ester

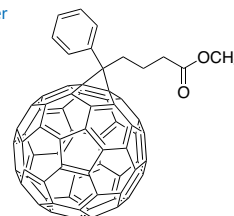
CAS No. : 160848-22-6

Grade : &gt;99.5%

Formula :  $C_{72}H_{14}O_2$ 

M.W. : 910.88 g/mole

UV : 258, 328 nm (in THF)

**LT-S906** | ZnPC

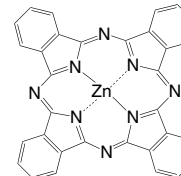
Zinc phthalocyanine

CAS No. : 14320-04-8

Grade : Sublimed &gt;99%

Formula :  $C_{32}H_{16}N_8Zn$ 

M.W. : 577.92 g/mole

PL : 534 nm (in  $CH_2Cl_2$ )**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

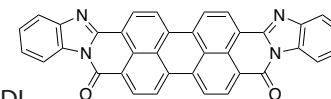
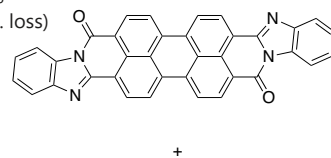
CAS No. : 79534-91-1

Grade : Sublimed &gt;99%

TGA : &gt;420 °C (0.5% wt. loss)

Formula :  $C_{36}H_{16}N_4O_2$ 

M.W. : 536.54 g/mole

PL : 414 nm (in  $CH_2Cl_2$ )**LT-S919** | ADIDI

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

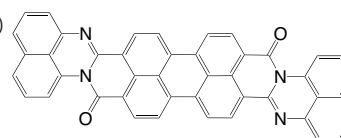
CAS No. : 6859-32-1

Grade : Sublimed &gt;99%

TGA : &gt;430 °C (0.5% wt. loss)

Formula :  $C_{44}H_{20}N_4O_2$ 

M.W. : 636.66 g/mole

PL : 413 nm (in  $CH_2Cl_2$ )

**LT-S920** | PTCDA

3,4,9,10-Perylenetetracarboxylic dianhydride

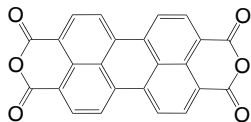
CAS No. : 128-69-8

Grade : Sublimed &gt;99%

TGA : &gt;450 °C (0.5% wt. loss)

Formula : C<sub>24</sub>H<sub>8</sub>O<sub>6</sub>

M.W. : 392.32 g/mole

PL : 413 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S921** | PTCDI

3,4,9,10-Perylenetetracarboxylic acid diimide

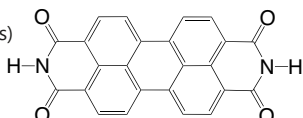
CAS No. : 81-33-4

Grade : Sublimed &gt;99%

TGA : &gt;450 °C (0.5% wt. loss)

Formula : C<sub>24</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>

M.W. : 390.35 g/mole

PL : 413 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S923** | PC<sub>71</sub>BM(6,6)-Phenyl C<sub>71</sub> butyric acid methyl ester, mixture of isomers

CAS No. : 609771-63-3

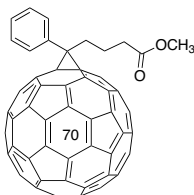
Grade : &gt;99%

TGA : &gt;360 °C (0.5% wt. loss)

Formula : C<sub>82</sub>H<sub>14</sub>O<sub>2</sub>

M.W. : 1030.93 g/mole

UV : 372 nm (in Toluene)

**LT-S924** | NTCDA

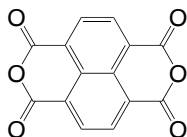
1,4,5,8-Naphthalenetetracarboxylic dianhydride

CAS No. : 81-30-1

Grade : Sublimed &gt;99%

Formula : C<sub>14</sub>H<sub>4</sub>O<sub>6</sub>

M.W. : 268.18 g/mole

UV : 366 nm (in CH<sub>2</sub>Cl<sub>2</sub>)PL : 394 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S925** | MePTC

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

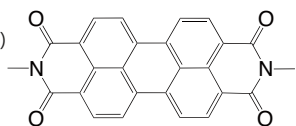
CAS No. : 5521-31-3

Grade : Sublimed &gt;99%

TGA : &gt;440 °C (0.5% wt. loss)

Formula : C<sub>26</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>

M.W. : 418.4 g/mole

UV : 522 nm (in CH<sub>2</sub>Cl<sub>2</sub>)PL : 571 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S926** | HepPTC

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

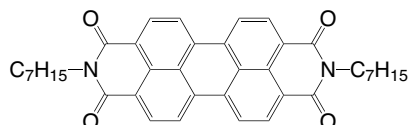
CAS No. : 95689-91-1

Grade : Sublimed &gt;99%

TGA : &gt;390 °C (0.5% wt. loss)

Formula : C<sub>38</sub>H<sub>38</sub>N<sub>2</sub>O<sub>4</sub>

M.W. : 586.72 g/mole

UV : 524 nm (in CH<sub>2</sub>Cl<sub>2</sub>)PL : 537, 571 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S928** | F<sub>16</sub>CuPC

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

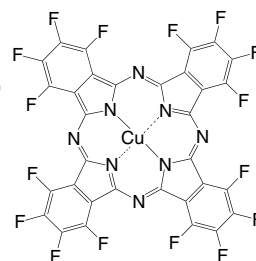
Grade : Sublimed product

TGA : &gt;400 °C (0.5% wt. loss)

Formula : C<sub>32</sub>CuF<sub>16</sub>N<sub>8</sub>

M.W. : 863.93 g/mole

UV : 690 nm (in THF)

**LT-S943** | SubPC

Boron subphthalocyanine chloride

CAS No. : 36530-06-0

Grade : Sublimed &gt;99%

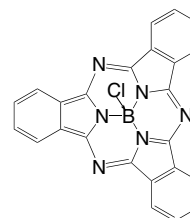
TGA : &gt;340 °C (0.5% wt. loss)

Formula : C<sub>24</sub>H<sub>12</sub>BN<sub>6</sub>Cl

M.W. : 430.66 g/mole

UV : 565 nm (in DMF)

PL : 577 nm (in DMF)

**LT-S946** | PC<sub>61</sub>HM(6,6)-Phenyl-C<sub>61</sub> methyl-hexanoate

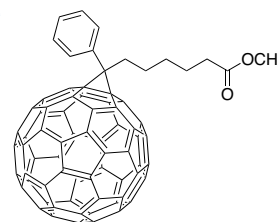
CAS No. : 1242279-48-6

Grade : &gt;99%

TGA : &gt;350 °C (0.5% wt. loss)

Formula : C<sub>74</sub>H<sub>18</sub>O<sub>2</sub>

M.W. : 938.93 g/mole

UV : 328 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S947** | SubNC

Boron sub-2,3-naphthalocyanine chloride

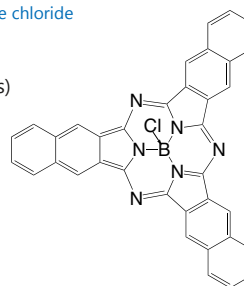
CAS No. : 142710-56-3

Grade : Sublimed &gt;99%

TGA : &gt;370 °C (0.5% wt. loss)

Formula : C<sub>36</sub>H<sub>18</sub>BClN<sub>6</sub>

M.W. : 580.83 g/mole

UV : 658 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**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

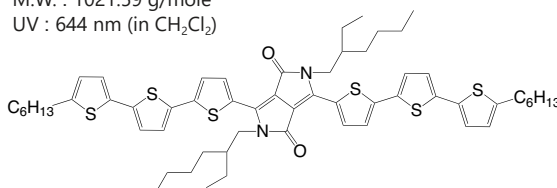
CAS No. : 1093468-95-1

Grade : &gt;98% (NMR)

TGA : &gt;370 °C (0.5% wt. loss)

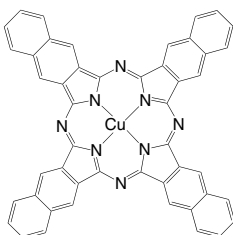
Formula : C<sub>58</sub>H<sub>72</sub>N<sub>2</sub>O<sub>2</sub>S<sub>6</sub>

M.W. : 1021.59 g/mole

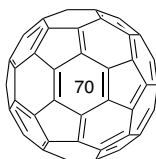
UV : 644 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S962** | CuNC

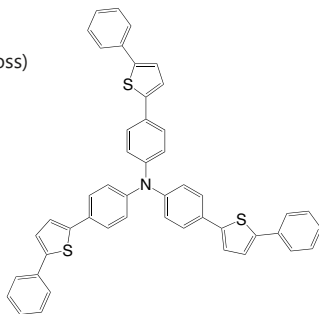
Copper(II) 2,3-naphthalocyanine  
 CAS No. : 33273-09-5  
 Grade : Sublimed >99% (TGA)  
 TGA : >430 °C (0.5% wt. loss)  
 Formula :  $C_{48}H_{24}CuN_8$   
 M.W. : 776.30 g/mole  
 UV : 681 nm (in  $CH_2Cl_2$ )

**LT-S967** |  $C_{70}$ 

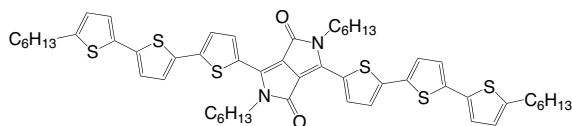
(5,6)-Fullerene- $C_{70}$   
 CAS No. : 115383-22-7  
 Grade : >99%  
 TGA : >450 °C (0.5% wt. loss)  
 Formula :  $C_{70}$   
 M.W. : 840.75 g/mole  
 UV : 344, 382 nm (in  $CH_2Cl_2$ )

**LT-S984** | TPTPA

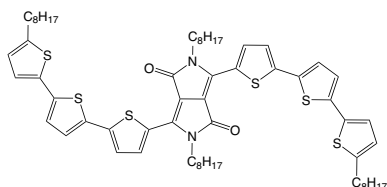
Tris(4-(5-phenylthiophen-2-yl)phenyl)amine  
 CAS No. : 803727-09-5  
 Grade : Sublimed >99%  
 TGA : >270 °C (0.5% wt. loss)  
 Formula :  $C_{48}H_{33}N_3S_3$   
 M.W. : 719.98 g/mole  
 UV : 416 nm (in  $CH_2Cl_2$ )

**LT-S985** | SMDPPH

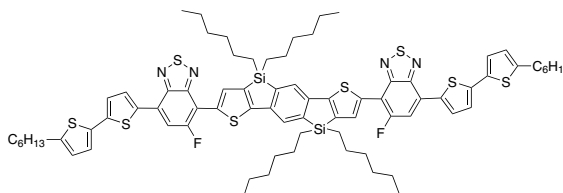
2,5-Dihexyl-3,6-bis-(5''-n-hexyl-[2,2',5',2'']terthiophen-5-yl)-pyrrolo[3,4-c]pyrrole-1,4-dione  
 CAS No. : 1077629-69-6  
 Grade : >98% (NMR)  
 TGA : >310 °C (0.5% wt. loss)  
 Formula :  $C_{54}H_{64}N_2O_2S_6$   
 M.W. : 965.49 g/mole  
 UV : 644 nm (in  $CH_2Cl_2$ )

**LT-S986** | SMDPPO

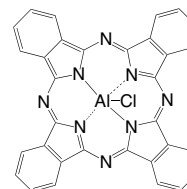
2,5-Dioctyl-3,6-bis-(5''-n-hexyl-[2,2',5',2'']terthiophen-5-yl)-pyrrolo[3,4-c]pyrrole-1,4-dione  
 CAS No. : 1435933-95-1  
 Grade : >98% (NMR)  
 TGA : >280 °C (0.5% wt. loss)  
 Formula :  $C_{58}H_{72}N_2O_2S_6$   
 M.W. : 1021.59 g/mole  
 UV : 644 nm (in  $CH_2Cl_2$ )

**LT-S8048** | p-SIDT(FBTTh2)2

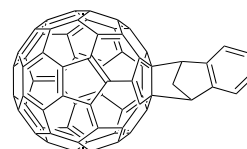
4,4'-(4,4,9,9-Tetrahexyl-4,9-dihydrobenzo[1'',2'':4,5,4'',5'']bissilolo[3,2-b:3',2'-b']dithiophene-2,7-diyl)bis[5-fluoro-7-(5'-hexyl[2,2'-bithiophen]-5-yl)-2,1,3-benzothiadiazole]  
 CAS No. : 1569453-41-3  
 Grade : >99%(NMR)  
 Formula :  $C_{78}H_{92}F_2N_4S_8Si_2$   
 M.W. : 1436.28 g/mole

**LT-S9025** | AIPCCI

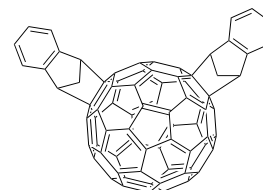
Aluminum phthalocyanine chloride  
 CAS No. : 14154-42-8  
 Grade : Sublimed >99%  
 TGA : >370 °C (0.5% wt. loss)  
 Formula :  $C_{32}H_{16}AlClN_4$   
 M.W. : 574.97 g/mole  
 UV : 675 nm (in DMF)

**LT-S9029** | ICMA

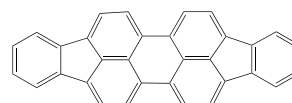
$C_{60}$  derivative, indene- $C_{60}$  monoadduct  
 CAS No. : 186682-36-0  
 Grade : >99%  
 TGA : >200 °C (0.5% wt. loss)  
 Formula :  $C_{69}H_8$   
 M.W. : 836.82 g/mole  
 UV : 318 nm (in  $CH_2Cl_2$ )

**LT-S9030** | ICBA

$C_{60}$  derivative, indene- $C_{60}$  bisadduct, mixture of isomers  
 CAS No. : 1207461-57-1  
 Grade : >99%  
 TGA : >200 °C (0.5% wt. loss)  
 Formula :  $C_{78}H_{16}$   
 M.W. : 952.26 g/mole  
 UV : 318 nm (in  $CH_2Cl_2$ )

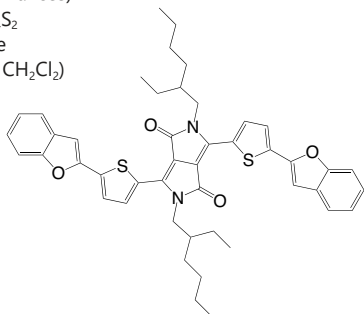
**LT-S9036** | DIP

Diindeno[1,2,3-cd:1',2',3'-lm]perylene  
 CAS No. : 188-94-3  
 Grade : Sublimed product  
 TGA : >230 °C (0.5% wt. loss)  
 Formula :  $C_{32}H_{16}$   
 M.W. : 400.47 g/mole  
 UV : 494, 532 nm (in  $CH_2Cl_2$ )

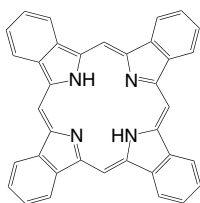


**LT-S9040** | DPP(TBFu)<sub>2</sub>

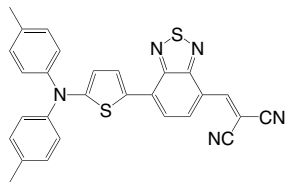
3,6-Bis(5-(benzofuran-2-yl)thiophen-2-yl)-2,5-bis(2-ethylhexyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione  
 CAS No. : 1241836-03-2  
 Grade : >99% (NMR)  
 TGA : >330 °C (0.5% wt. loss)  
 Formula : C<sub>46</sub>H<sub>48</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>  
 M.W. : 757.01 g/mole  
 UV : 584, 629 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9044** | BP

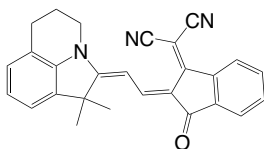
Tetrabenzoporphine  
 CAS No. : 52952-31-5  
 Grade : Sublimed product  
 TGA : >200 °C (0.5% wt. loss)  
 Formula : C<sub>36</sub>H<sub>22</sub>N<sub>4</sub>  
 M.W. : 510.59 g/mole

**LT-S9046** | DTDCTB

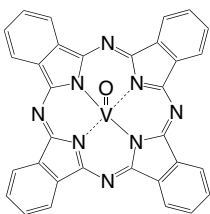
2-((7-(5-(Di-p-tolylamino)thiophen-2-yl)benzo[c][1,2,5]thiadiazol-4-yl)methylene)malononitrile  
 CAS No. : 1335150-09-8  
 Grade : >99%  
 TGA : >280 °C (0.5% wt. loss)  
 Formula : C<sub>28</sub>H<sub>19</sub>N<sub>5</sub>S<sub>2</sub>  
 M.W. : 489.61 g/mole  
 UV : 398, 622 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9047** | HB194

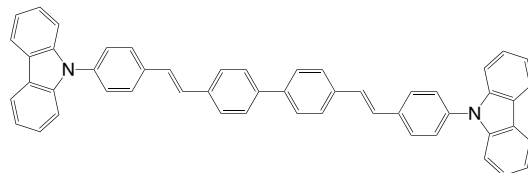
2-((Z)-2-((E)-2-(1,1-Dimethyl-5,6-dihydro-1H-pyrrolo[3,2,1-ij]quinolin-2(4H)-ylidene)ethylidene)-3-oxo-2,3-dihydro-1H-inden-1-ylidene)malononitrile  
 CAS No. : 1207961-82-7  
 Grade : >99%  
 TGA : >280 °C (0.5% wt. loss)  
 Formula : C<sub>27</sub>H<sub>21</sub>N<sub>3</sub>O  
 M.W. : 403.48 g/mole  
 UV : 481, 577 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9053** | VOPC

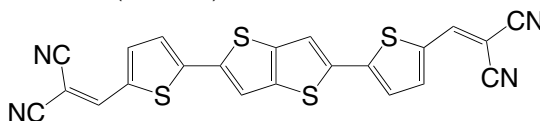
Oxyvanadium phthalocyanine  
 CAS No. : 13930-88-6  
 Grade : Sublimed product  
 Formula : C<sub>32</sub>H<sub>16</sub>N<sub>8</sub>OV  
 M.W. : 579.47 g/mole  
 UV : 338, 684 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9058** | BSB4

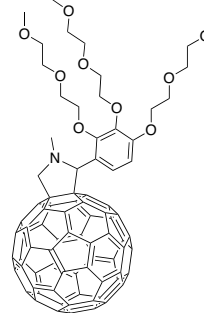
4,4'-Bis(4-(9H-carbazol-9-yl)styryl)biphenyl  
 CAS No. : 850594-34-2  
 Grade : Sublimed >99%  
 TGA : >320 °C (0.5% wt. loss)  
 Formula : C<sub>52</sub>H<sub>36</sub>N<sub>2</sub>  
 M.W. : 688.86 g/mole  
 UV : 367 nm (in THF)  
 PL : 424, 444 nm (in THF)

**LT-S9061** | FT2TDMN

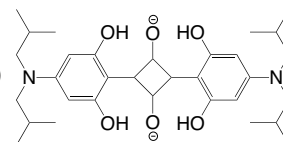
2,2'-(5,5'-(Thieno[3,2-b]thiophene-2,5-diyl)bis(thiophene-5,2-diyl))bis(methan-1-yl-1-ylidene)dimalononitrile  
 CAS No. : 1432613-96-1  
 Grade : Sublimed >99%  
 TGA : >350 °C (0.5% wt. loss)  
 Formula : C<sub>22</sub>H<sub>8</sub>N<sub>4</sub>S<sub>4</sub>  
 M.W. : 456.59 g/mole  
 UV : 499 nm (in Toluene)

**LT-S9071** | PrC<sub>60</sub>MA

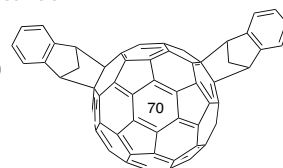
C<sub>60</sub>N,N,N'-trimethyl-1-(2,3,4-tris(2-(5-methoxyethoxy)ethoxy)phenyl)methanaminium monoadduct  
 CAS No. : 1373957-22-2  
 Grade : >99%  
 TGA : >300 °C (0.5% wt. loss)  
 Formula : C<sub>64</sub>H<sub>41</sub>NO<sub>9</sub>  
 M.W. : 1208.26 g/mole

**LT-S9074** | DIBSQ

2,4-Bis(4-(diisobutylamino)-2,6-dihydroxyphenyl)cyclobutane-1,3-bis(olate)  
 CAS No. : 432493-75-9  
 Grade : >99%  
 TGA : >270 °C (0.5% wt. loss)  
 Formula : C<sub>32</sub>H<sub>48</sub>N<sub>2</sub>O<sub>6</sub>  
 M.W. : 556.7 g/mole

**LT-S9078** | IC<sub>70</sub>BA

Indene-C<sub>70</sub> bisadduct, mixture of isomers  
 CAS No. : 1563175-93-8  
 Grade : >99%  
 TGA : >180 °C (0.5% wt. loss)  
 Formula : C<sub>88</sub>H<sub>16</sub>  
 M.W. : 1073.04 g/mole  
 UV : 290 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



**LT-S9079** | PrC<sub>60</sub>MA Iodide salt

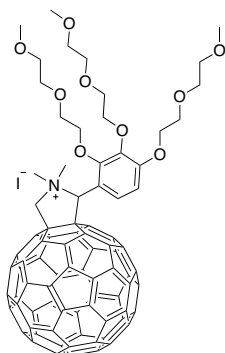
C<sub>60</sub>N,N,N-Trimethyl-1-(2,3,4-tris(2-(2-methoxyethoxy)ethoxy)phenyl)dimethanaminium monoadduct iodide salt

CAS No. : 1373957-23-3

Grade : >99%

Formula : C<sub>85</sub>H<sub>44</sub>INO<sub>9</sub>

M.W. : 1350.16 g/mole

**LT-S9084** | TBDI

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

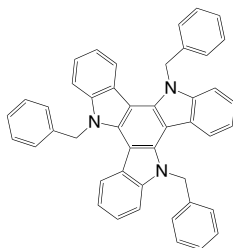
CAS No. : 1092536-44-1

Grade : Sublimed >99%

TGA : >270 °C (0.5% wt. loss)

Formula : C<sub>45</sub>H<sub>33</sub>N<sub>3</sub>

M.W. : 615.76 g/mole

**LT-S9086** | SnPC

Tin(II)phthalocyanine

CAS No. : 15304-57-1

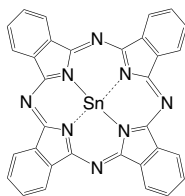
Grade : Sublimed >99%

TGA : >440 °C (0.5% wt. loss)

Formula : C<sub>32</sub>H<sub>16</sub>N<sub>8</sub>Sn

M.W. : 631.23 g/mole

UV : 693 nm (in CHCl<sub>3</sub>)

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

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

CAS No. : 1527494-19-4

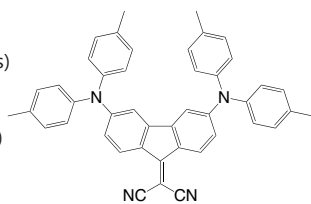
Grade : Sublimed >99%

TGA : >280 °C (0.5% wt. loss)

Formula : C<sub>44</sub>H<sub>34</sub>N<sub>4</sub>

M.W. : 618.77 g/mole

UV : 291, 493 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**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

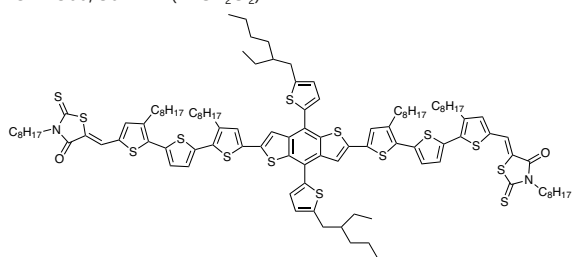
CAS No. : 1651168-29-4

Grade : >99% (NMR)

Formula : C<sub>114</sub>H<sub>152</sub>N<sub>2</sub>O<sub>2</sub>S<sub>14</sub>

M.W. : 2031.35 g/mole

UV : 360, 504 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9125** | DCV3T

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

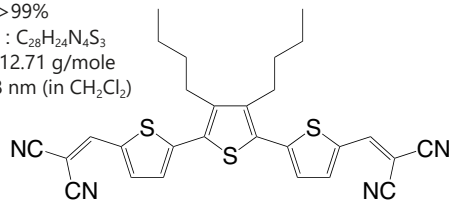
CAS No. : 908588-68-1

Grade : >99%

Formula : C<sub>28</sub>H<sub>24</sub>N<sub>4</sub>S<sub>3</sub>

M.W. : 512.71 g/mole

UV : 498 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9138** | F-DTS, DTS(FBTTh2)2

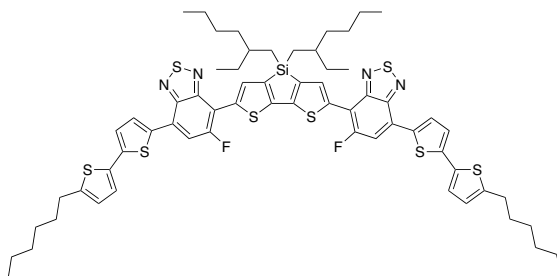
7,7'-[4,4-Bis(2-ethylhexyl)-4H-silolo[3,2-b:4,5-b']dithiophene-2,6-diyl]bis[6-fluoro-4-(5'-hexyl-[2,2'-bithiophen]-5-yl)benzo[c][1,2,5]thiadiazole]

CAS No. : 1402460-84-7

Grade : >99%

Formula : C<sub>64</sub>H<sub>72</sub>F<sub>2</sub>N<sub>4</sub>S<sub>8</sub>Si

M.W. : 1219.89 g/mole

**LT-S9149** | Cl<sub>6</sub>SubPC

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

CAS No. : 309963-65-3

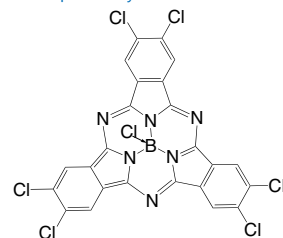
Grade : Sublimed >99%

TGA : >300 °C (0.5% wt. loss)

Formula : C<sub>24</sub>H<sub>6</sub>BCl<sub>7</sub>N<sub>6</sub>

M.W. : 637.33 g/mole

UV : 578 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9161** | C<sub>60</sub>-COOH-SAM

4-(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno-C<sub>60</sub>-1h-[1,9-c]-pyrrol-2'-yl)benzoic acid

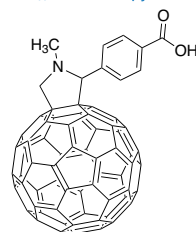
CAS No. : 631918-72-4

Grade : >99%

Formula : C<sub>70</sub>H<sub>11</sub>NO<sub>2</sub>

M.W. : 897.84 g/mole

UV : 345 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9171** | F<sub>4</sub>ZnPC

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

CAS No. : 1120355-28-3

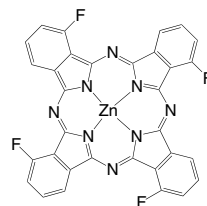
Grade : Sublimed >99%

TGA : >300 °C (0.5% wt. loss)

Formula : C<sub>32</sub>H<sub>12</sub>F<sub>4</sub>N<sub>8</sub>Zn

M.W. : 649.89 g/mole

UV : 681 nm (in CHCl<sub>3</sub>)



**LT-S9172** | **F<sub>8</sub>ZnPC**

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

CAS No. : 676519-80-5

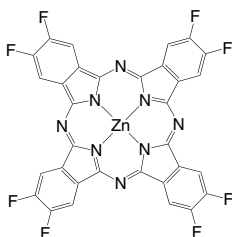
Grade : Sublimed &gt;99%

TGA : &gt;300 °C (0.5% wt. loss)

Formula : C<sub>32</sub>H<sub>8</sub>F<sub>8</sub>N<sub>8</sub>Zn

M.W. : 721.86 g/mole

UV : 338, 656 nm (in DMF)

**LT-S9176** | **InClPC**

Indium(III) phthalocyanine chloride

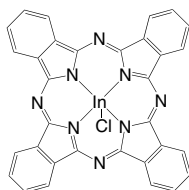
CAS No. : 19631-19-7

Grade : Sublimed &gt;99%

TGA : &gt;300 °C (0.5% wt. loss)

Formula : C<sub>32</sub>H<sub>16</sub>ClInN<sub>8</sub>

M.W. : 662.79 g/mole

UV : 358, 683 nm (in CHCl<sub>3</sub>)**LT-S9177** | **F<sub>16</sub>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

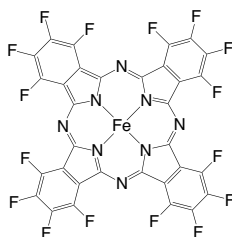
Grade : Sublimed &gt;99%

TGA : &gt;300 °C (0.5% wt. loss)

Formula : C<sub>32</sub>F<sub>16</sub>FeN<sub>8</sub>

M.W. : 856.22 g/mole

UV : 333, 627 nm (in Acetone)

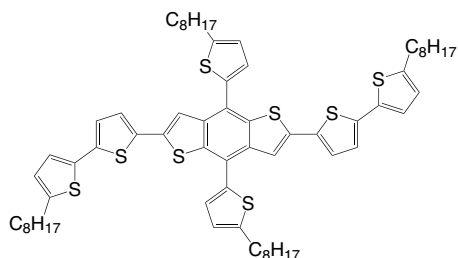
**LT-S9179** | **BDT2TH**

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

Grade : &gt;99% (NMR)

Formula : C<sub>66</sub>H<sub>82</sub>S<sub>8</sub>

M.W. : 1131.88 g/mole

UV : 249, 359, 442 nm (in CHCl<sub>3</sub>)**LT-S9180** | **SnNCCl<sub>2</sub>**

Tin(IV) 2,3-naphthalocyanine dichloride

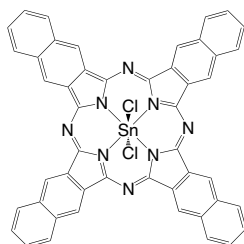
CAS No. : 26857-61-4

Grade : Sublimed product

TGA : &gt;300 °C (0.5% wt. loss)

Formula : C<sub>48</sub>H<sub>24</sub>Cl<sub>2</sub>N<sub>8</sub>Sn

M.W. : 902.37 g/mole

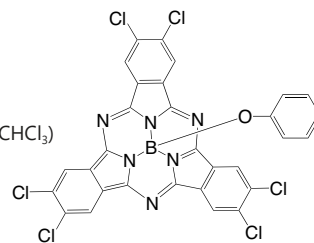
**LT-S9181** | **PhO-BSubPC**[2,3,9,10,16,17-Hexachloro-7,12:14,19-diimino-21,5-nitrilo-5H-tribenzo[c,h,m][1,6,11]triazacyclopentadecinato(2-)-N<sub>22</sub>N<sub>23</sub>N<sub>24</sub>]phenoxy-Boron

CAS No. : 1309390-01-9

Grade : &gt;99%

Formula : C<sub>30</sub>H<sub>11</sub>BCl<sub>6</sub>N<sub>6</sub>O

M.W. : 694.98 g/mole

UV : 267, 318, 569 nm (in CHCl<sub>3</sub>)**LT-S9182** | **SnNC**

Tin(II) 2,3-naphthalocyanine

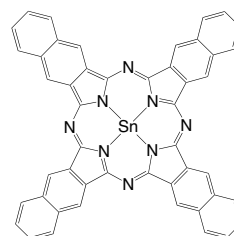
CAS No. : 110479-58-8

Grade : Sublimed product

TGA : &gt;300 °C (0.5% wt. loss)

Formula : C<sub>48</sub>H<sub>24</sub>N<sub>6</sub>Sn

M.W. : 831.47 g/mole

**LT-S9212** | **ITIC**

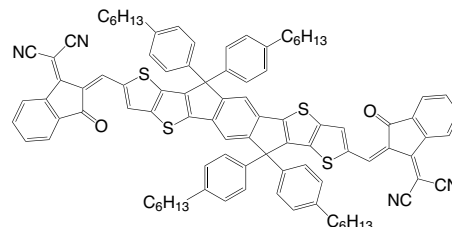
3,9-Bis(2-methylene-3-(1,1-dicyanomethylene)-indanone)-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d':2',3'-d'']-s-indaceno[1,2-b:5,6-b']dithiophene

CAS No. : 1664293-06-4

Grade : &gt;99% (HPLC)

Formula : C<sub>94</sub>H<sub>82</sub>N<sub>4</sub>O<sub>2</sub>S<sub>4</sub>

M.W. : 1427.94 g/mole

**LT-S9268** | **PDIN**

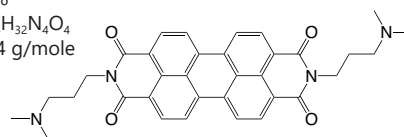
2,9-Bis(3-(dimethylamino)propyl)anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetraone

CAS No. : 117901-97-0

Grade : &gt;97%

Formula : C<sub>34</sub>H<sub>32</sub>N<sub>4</sub>O<sub>4</sub>

M.W. : 560.64 g/mole

**LT-S9279** | **IDIC**

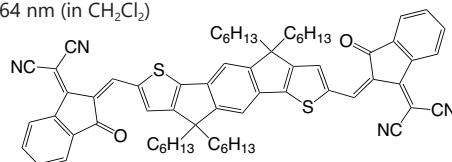
2,2'-[(4,4,9,9-Tetrahexyl-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(methyldiylidene(3-oxo-1H-indene-2,1(3H)-diylidene))]bis-propanedinitrile

CAS No. : 1883441-92-6

Grade : &gt;98%

Formula : C<sub>66</sub>H<sub>66</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>

M.W. : 1011.39 g/mole

UV : 664 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

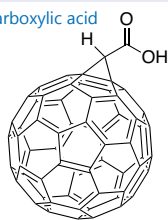
**LT-S9281** |  $C_{60}$ -COOH3'H-Cyclopropa[1,9][5,6]fullerene- $C_{60}$ -1h-3'-carboxylic acid

CAS No. : 155116-19-1

Grade : &gt;99%

Formula :  $C_{62}H_2O_2$ 

M.W. : 778.68 g/mole

**LT-S9284** | SnOPC

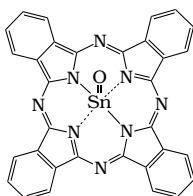
Oxo-phthalocyaninato-tin (IV)

CAS No. : 57156-42-0

Grade : Sublimed &gt;99%

Formula :  $C_{32}H_{16}N_8OSn$ 

M.W. : 647.23 g/mole

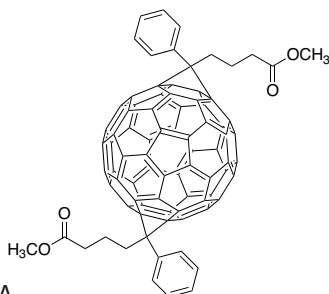
**LT-S9422** | Bis PC<sub>62</sub>BM3'H,3''H-Dicyclopropa[1,9:16,17][5,6]-fullerene- $C_{60}$ -1h-3',3''-dibutanoic acid, 3',3''-diphenyl-3',3''-dimethyl ester, stereoisomer

CAS No. : 1048679-01-1

Grade : &gt;99.5%

Formula :  $C_{84}H_{28}O_4$ 

M.W. : 1101.12 g/mole

**LT-S9423** | IC<sub>60</sub>TA

1',1'',1''',4',4'',4'''-Hexahydrotri[1,4]methanonaphth

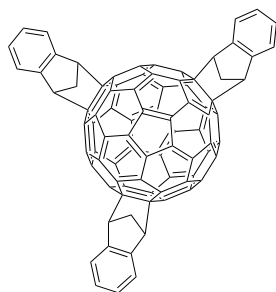
ho[2',3':1,2;2'',3'':23,42;2''',3''':32,50][5,6]fullerene- $C_{60}$ -1h

CAS No. : 1363385-54-9

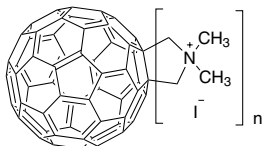
Grade : &gt;96%

Formula :  $C_{87}H_{24}$ 

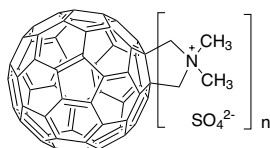
M.W. : 1069.12 g/mole

**LT-S9424** | $C_{60}$ -(N,N-dimethyl pyrrolidinium iodide) Adduct

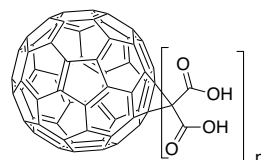
Grade : &gt;99%

Formula :  $C_{60}(C_4H_{10}NI)_n$ **LT-S9425** | $C_{60}$ -n-(N,N-dimethylpyrrolidinium sulfate)

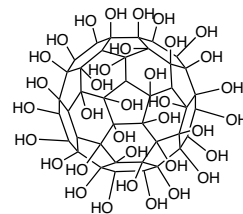
Grade : &gt;99%

Formula :  $C_{60}(C_4H_{10}NSO_4)_n$ **LT-S9426** |  $C_{60}$ -(malonic acid)<sub>n</sub> $C_{60}$ -(malonic acid)<sub>n</sub>

Grade : &gt;99% n &gt;5

Formula :  $C_{60}(C_3H_2O_4)_n$ **LT-S9427** | Fullerol  $C_{60}(OH)_n$ Fullerol  $C_{60}(OH)_n$ 

Grade : &gt;99.5% N = 30-50

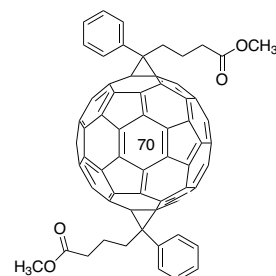
Formula :  $C_{60}(OH)_n$ **LT-S9428** | Bis-PC<sub>72</sub>BM3'H,3''H-Dicyclopropa[8,25:53,54][5,6]-fullerene- $C_{70}$ -D<sub>3</sub>h(6)-3',3''-dibutanoic acid, 3',3''-diphenyl-3',3''-dimethyl ester

CAS No. : 1244023-34-4

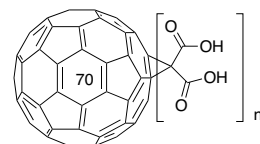
Grade : &gt;98%

Formula :  $C_{84}H_{28}O_4$ 

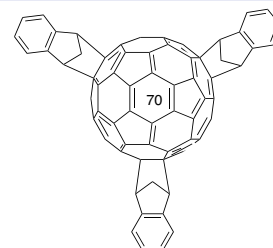
M.W. : 1221.23 g/mole

**LT-S9429** |  $C_{70}$ -(malonic acid)<sub>n</sub> $C_{70}$ -(malonic acid)<sub>n</sub>

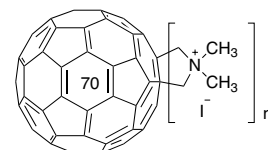
Grade : &gt;99%

Formula :  $C_{70}(C_3H_2O_4)_n$ **LT-S9431** | IC<sub>70</sub>TAIndene  $C_{70}$  Tris Adduct

Grade : &gt;96%

Formula :  $C_{97}H_{24}$ **LT-S9432** | $C_{70}$ -(N,N-dimethyl pyrrolidinium iodide) Adduct

Grade : &gt;99%

Formula :  $C_{70}(C_4H_{10}NI)_n$ 

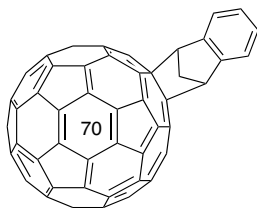
**LT-S9433** | IC<sub>70</sub>MA1',4'-Dihydro-1,4-methanonaphtho[2',3':8,25]fullerene-C<sub>70</sub>-D<sub>3</sub>h(6)

CAS No. : 1287237-10-8

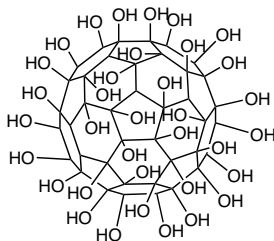
Grade : &gt;98%

Formula : C<sub>79</sub>H<sub>8</sub>

M.W. : 956.91 g/mole

**LT-S9434** | Fullerol C<sub>70</sub>(OH)<sub>n</sub>Fullerol C<sub>70</sub>(OH)<sub>n</sub>

Grade : &gt;99.5% water soluble, &gt;50 mg/ml

Formula : C<sub>70</sub>(OH)<sub>n</sub>**LT-S9447** | IT-4F,ITIC-2F

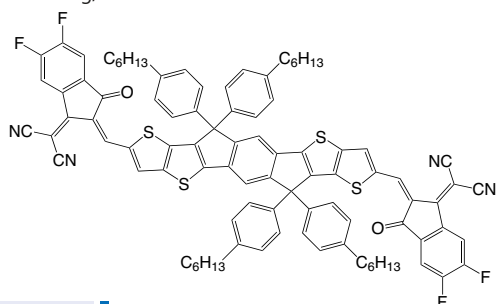
2,2'-[[[6,6,12,12-Tetrakis(4-hexylphenyl)-6,12-dihydrodithieno[2,3-d':2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene-2,8-diyl]bis[methyldiylidene(5,6-difluoro-3-oxo-1H-indene-2,1(3H)-diylidene)]]bis[propanedinitrile]

CAS No. : 2097998-59-7

Grade : &gt;98%

Formula : C<sub>94</sub>H<sub>78</sub>F<sub>4</sub>N<sub>4</sub>O<sub>2</sub>S<sub>4</sub>

M.W. : 1499.9 g/mole

**LT-S9466** | FBR

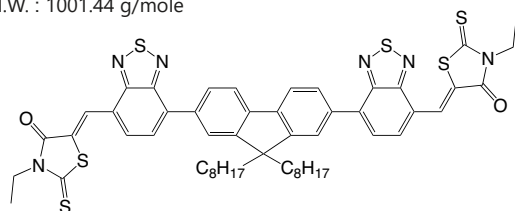
5,5'-[(9,9-Dioctyl-9H-fluorene-2,7-diyl)bis(2,1,3-benzothiadiazole-7,4-diylmethyldiylidene)]bis[3-ethyl-2-thioxo-4-thiazolidinone]

CAS No. : 1644381-95-2

Grade : &gt;98% (HPLC)

Formula : C<sub>53</sub>H<sub>56</sub>N<sub>6</sub>O<sub>2</sub>S<sub>6</sub>

M.W. : 1001.44 g/mole

**LT-S9468** | IDFBF

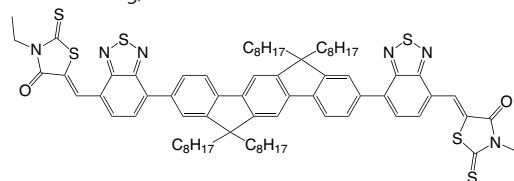
(5Z,5'Z)-5,5'-((7,7'-(6,6,12,12-Tetraoctyl-6,12-dihydroindeno[1,2-b]fluorene-2,8-diyl)bis(benzo[c][1,2,5]thiadiazole-7,4-diyl))bis(methanylylidene))bis(3-ethyl-2-thioxothiazolidin-4-one)

CAS No. : 2088628-64-0

Grade : &gt;98% (HPLC)

Formula : C<sub>76</sub>H<sub>92</sub>N<sub>6</sub>O<sub>2</sub>S<sub>6</sub>

M.W. : 1313.97 g/mole

**LT-S9471** | ITIC-Th

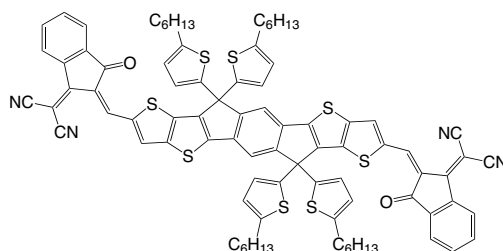
3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-indanone))-5,5,11,11-tetrakis(5-hexylthienyl)-dithieno[2,3-d':2',3'-d']-s-indaceno[1,2-b:5,6-b']-dithiophene

CAS No. : 1889344-13-1

Grade : &gt;98%

Formula : C<sub>86</sub>H<sub>74</sub>N<sub>4</sub>O<sub>2</sub>S<sub>8</sub>

M.W. : 1452.05 g/mole

**LT-S9472** | IHIC

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[methyldiylidene(3-oxo1H-indene-2,1(3H)-diylidene)]]bis-propanedinitrile]

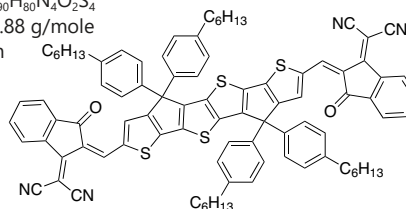
CAS No. : 2127354-15-6

Grade : &gt;98% (NMR)

Formula : C<sub>90</sub>H<sub>80</sub>N<sub>4</sub>O<sub>2</sub>S<sub>4</sub>

M.W. : 1377.88 g/mole

UV : 796 nm

**LT-S9473** | IT-M

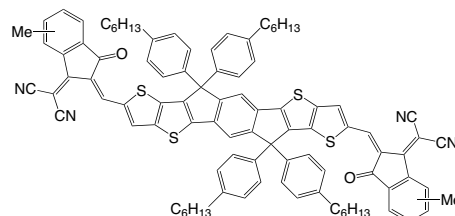
3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-6/7-methyl-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d':2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

CAS No. : 2047352-80-5 / 2047352-83-8 / 2047352-86-1

Grade : &gt;99%, with isomers (HPLC)

Formula : C<sub>96</sub>H<sub>86</sub>N<sub>4</sub>O<sub>2</sub>S<sub>4</sub>

M.W. : 1455.99 g/mole



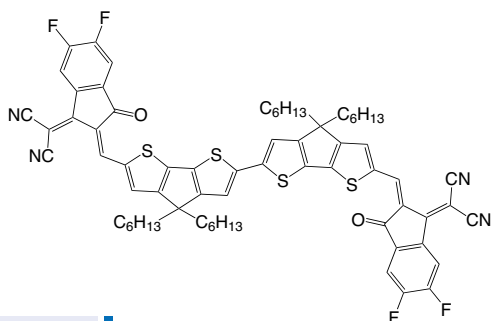
## LT-S9475 | CPDT-4F

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

Grade : >98%

Formula :  $C_{68}H_{62}F_4N_4O_2S_4$

M.W. : 1171.50 g/mole



## LT-S9476 | Y6(BTPPT-4F)

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

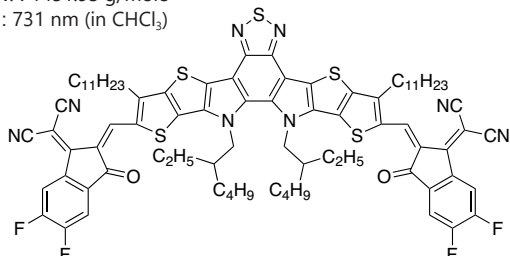
CAS No. : 2304444-49-1

Grade : >99% (NMR)

Formula :  $C_{82}H_{86}F_4N_8O_2S_5$

M.W. : 1451.93 g/mole

UV : 731 nm (in  $CHCl_3$ )



## LT-S9491 | Y7, BTP-4Cl

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

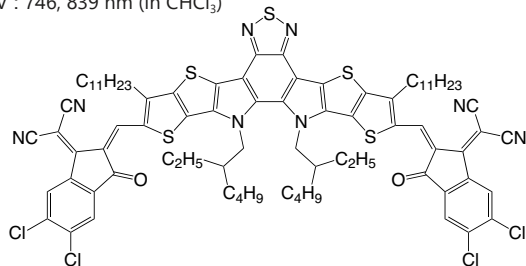
CAS No. : 2447642-40-0

Grade : >99% (NMR)

Formula :  $C_{82}H_{86}Cl_4N_8O_2S_5$

M.W. : 1517.75 g/mole

UV : 746, 839 nm (in  $CHCl_3$ )



## LT-S9492 | ITIC-Th1

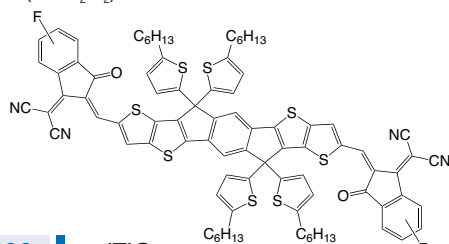
3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-6/7-fluoro-indanone))-5,5,11,11-tetrakis(5-hexylthienyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

Grade : >99% (NMR)

Formula :  $C_{86}H_{72}F_2N_4O_2S_8$

M.W. : 1488.03 g/mole

UV : 677 nm (in  $CH_2Cl_2$ )



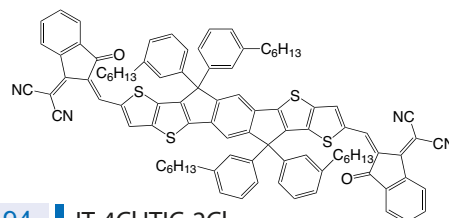
## LT-S9493 | m-ITIC

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

Grade : >99% (NMR)

Formula :  $C_{94}H_{82}N_4O_2S_4$

M.W. : 1427.94 g/mole



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

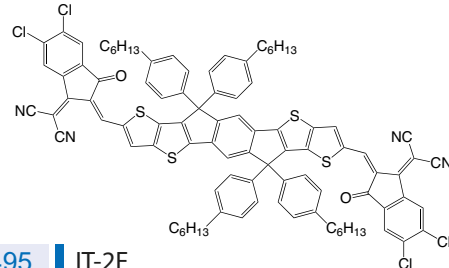
3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-6,7-dichloro-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

CAS No. : 2253663-81-7

Grade : >99% (NMR)

Formula :  $C_{94}H_{78}Cl_4N_4O_2S_4$

M.W. : 1565.72 g/mole



## LT-S9495 | IT-2F

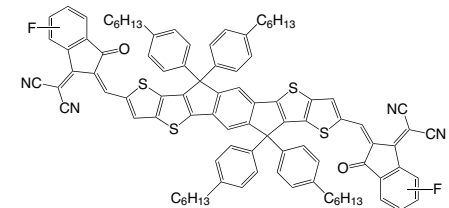
3,9-Bis(2-methylene-(3-(1,1-dicyanomethylene)-6/7-fluoro-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

Grade : >99% (NMR)

Formula :  $C_{96}H_{88}F_2N_4O_2S_4$

M.W. : 1496.01 g/mole

UV : 685, 721 nm (in  $CHCl_3$ )



## LT-S9496 IT-2CI

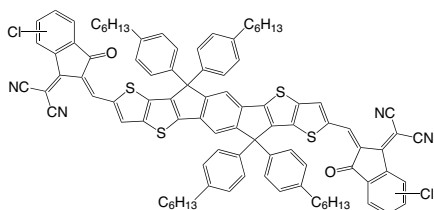
3,9-Bis(2-methylene-((3-(1,1-dicyanomethylene)-6/7-chloro-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

Grade : >99% (NMR)

Formula :  $C_{94}H_{80}Cl_2N_4O_2S_4$

M.W. : 1496.83 g/mole

UV : 690, 735 nm (in  $CHCl_3$ )



## LT-S9505 Y16-4F, Y11

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

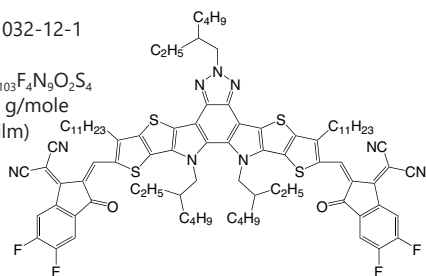
CAS No. : 2271032-12-1

Grade : >99%

Formula :  $C_{90}H_{103}F_4N_9O_2S_4$

M.W. : 1547.09 g/mole

UV : 850 nm (film)



## LT-S9508 TPT10

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

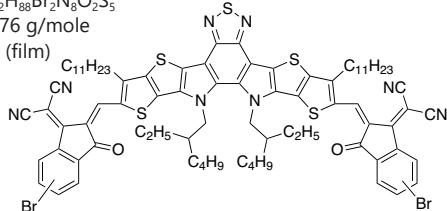
CAS No. : 2414381-17-0

Grade : >99% (NMR)

Formula :  $C_{82}H_{88}Br_2N_9O_2S_5$

M.W. : 1537.76 g/mole

UV : 817 nm (film)



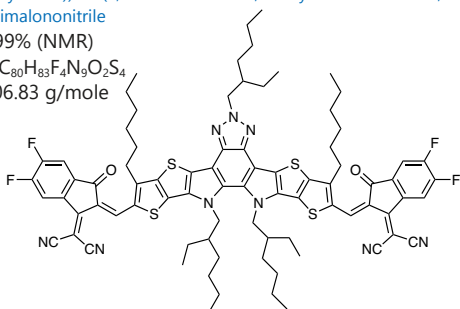
## LT-S9544 Y18

2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-2-(2-ethylhexyl)-[1,2,3]triazolo[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 : >99% (NMR)

Formula :  $C_{80}H_{83}F_4N_9O_2S_4$

M.W. : 1406.83 g/mole



## LT-S9545 PDINN

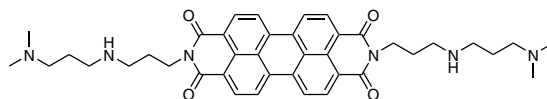
2,9-Bis[3-[[3-(dimethylamino)propyl]amino]propyl]-anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone

CAS No. : 1020180-01-1

Grade : >96%

Formula :  $C_{40}H_{46}N_6O_4$

M.W. : 674.83 g/mole



## LT-S9558 Y6-BO-4CI

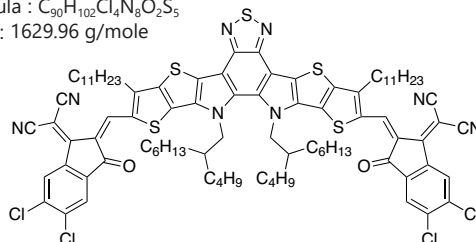
2,2'-((2Z,2'Z)-((12,13-bis(2-butyloctyl)-3,9-diundecyl-12,13-dihydro-[1,2,5]thiadiazolo[3,4-e]thieno[2'':3'':4',5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno[3,2-b]indole-2,10-diyl)bis(methanylylidene))bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No. : 2447642-41-1

Grade : >99% (NMR)

Formula :  $C_{90}H_{102}Cl_4N_8O_2S_5$

M.W. : 1629.96 g/mole



## LT-S9559 BTP-eC9

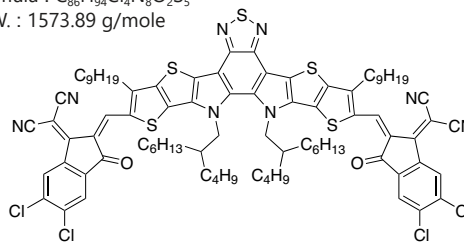
2,2'-((2Z,2'Z)-((12,13-bis(2-butyloctyl)-3,9-dinonyl-12,13-dihydro-[1,2,5]thiadiazolo[3,4-e]thieno[2'':3'':4',5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno[3,2-b]indole-2,10-diyl)bis(methanylylidene))bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No. : 2598965-39-8

Grade : >99% (NMR)

Formula :  $C_{86}H_{94}Cl_4N_8O_2S_5$

M.W. : 1573.89 g/mole



## LT-S9560 BTPIA III

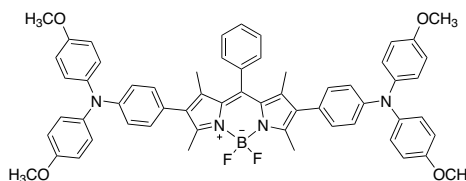
2,8-Bis(4-(bis(4-methoxyphenyl)amino)phenyl)-5,5-difluoro-1,3,7,9-tetramethyl-10-phenyl-5H-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborin-4-ium-5-uide

Grade : >99% (NMR)

Formula :  $C_{59}H_{53}BF_2N_2O_4$

M.W. : 930.88 g/mole

UV : 543 nm



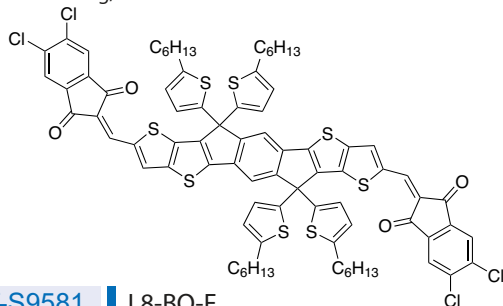
## LT-S9563

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



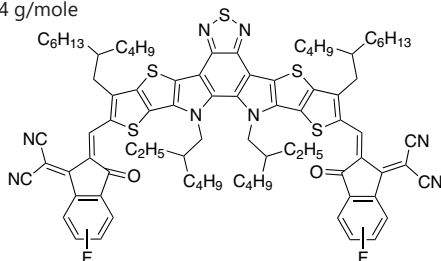
## LT-S9581 L8-BO-F

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 g/mole



## LT-S9582 DR8

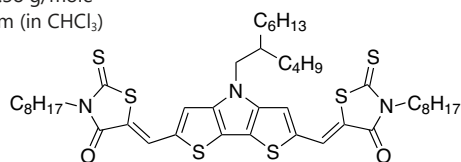
(5Z,5'Z)-5,5'-((4-(2-butyloctyl)-4H-dithieno[3,2-b:2',3'-d']pyrrole-2,6-diyl)bis(methanylylidene))bis(3-octyl-2-thioxothiazolidin-4-one)

Grade : >99%

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

M.W. : 858.38 g/mole

UV : 584 nm (in  $CHCl_3$ )



## LT-S9584 ITC6-4Cl

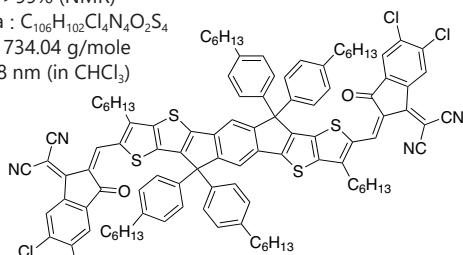
2,2'-[[3,9-Dihexyl-6,6,12,12-tetrakis(4-hexylphenyl)-6,12-dihydrodithieno[2,3-d':2',3'-d'']-s-indaceno[1,2-b:5,6-b']dithiophene-2,8-diyl]bis[methylylidene(5,6-chloro-3-oxo-1H-indene-2,1(3H)-diylidene)]]bispropanedinitrile

Grade : >99% (NMR)

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

M.W. : 1734.04 g/mole

UV : 718 nm (in  $CHCl_3$ )



## LT-S9606 BTR

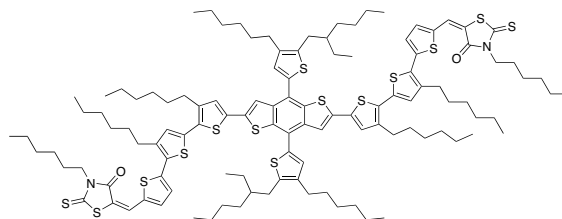
5,5'-[[4,8-Bis[5-(2-ethylhexyl)-4-hexyl-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]bis[(3',3''-diethyl[2,2':5',2''-terthiophene]-5',5'-diyl)methylylidene]]bis[3-hexyl-2-thioxo-4-thiazolidinone]

CAS No. : 2041283-06-9

Grade : >98%

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

M.W. : 2031.41 g/mole



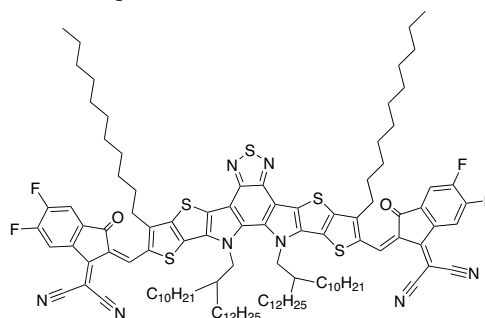
## LT-S9607 DTY6

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-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene)dimalononitrile

Grade : >99%

Formula :  $C_{114}H_{150}F_4N_8O_2S_5$

M.W. : 1900.83 g/mole



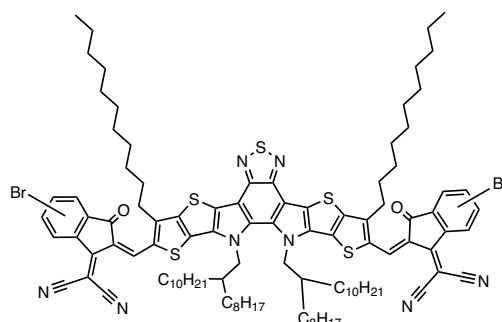
## LT-S9608 TPT10-C8C12

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-diyl]bis[methylylidene(5 or 6-bromo-3-oxo-1H-indene-2,1(3H)-diylidene)]]bis[propanedinitrile]

Grade : >98%

Formula :  $C_{106}H_{136}Br_2N_8O_2S_5$

M.W. : 1874.45 g/mole



**LT-S9609 | BTP-4F-12**

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

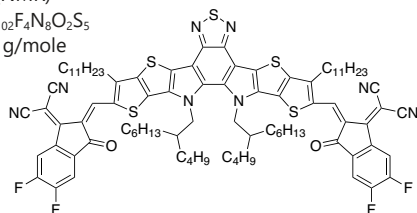
CAS No. : 2389125-23-7

Grade : >98% (NMR)

Formula :  $C_{90}H_{102}F_4N_8O_2S_5$

M.W. : 1564.14 g/mole

UV : 715 nm

**LT-S9707 | L8-BO**

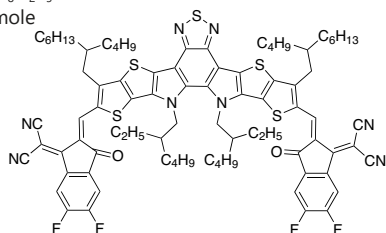
2,2'-((2Z,2'Z)-((12,13-bis(2-ethylhexyl)-3,9-(2-butyloctyl)-12,13-dihydro-[1,2,5]thiadiazolo[3,4-e]thieno[2',3'':4,5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno[3,2-b]indole-2,10-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No. : 2668341-40-8

Grade : >99% (NMR)

Formula :  $C_{84}H_{90}F_4N_8O_2S_5$

M.W. : 1479.98 g/mole

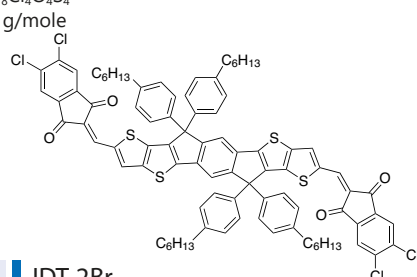
**LT-S9712 | IO-4Cl**

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

**LT-S9713 | IDT-2Br**

5,5'-[[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-benzothiadiazole-7,4-diylmethylidyne)]bis[3-ethyl-2-thioxo-4-thiazolidinone]

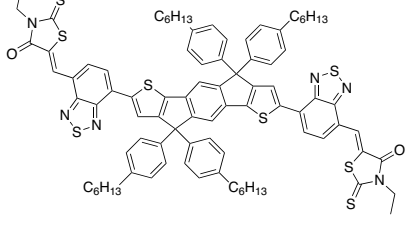
CAS No. : 2042521-91-3

Grade : >98% (NMR)

Formula :  $C_{88}H_{88}N_6O_2S_3$

M.W. : 1518.2 g/mole

UV : 636 nm

**LT-S9714 | ITIC-DM**

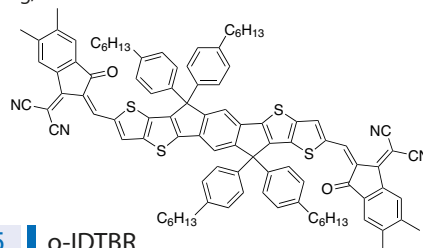
3,9-Bis(2-methylene-((3-(1,1-dicyanomethylene)-6,7-dimethyl-indanone))-5,5,11,11-tetrakis(4-hexylphenyl)-dithieno[2,3-d:2',3'-d']-s-indaceno[1,2-b:5,6-b']dithiophene

CAS No. : 2047352-92-9

Grade : >98% (NMR)

Formula :  $C_{98}H_{90}N_4O_2S_4$

M.W. : 1484.05 g/mole

**LT-S9715 | o-IDTBR**

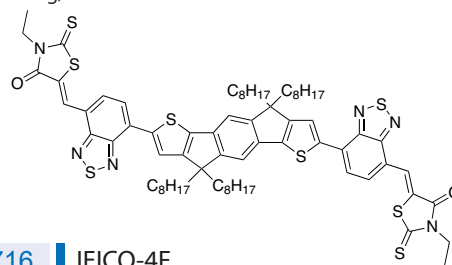
(5Z,5'Z)-5,5'-((7,7'-(4,4,9,9-tetraoctyl-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(benzo[c][1,2,5]thiadiazole-7,4-diyl))bis(methanylylidene))bis(3-ethyl-2-thioxothiazolidin-4-one)

CAS No. : 2077945-91-4

Grade : >98% (NMR)

Formula :  $C_{72}H_{88}N_6O_2S_8$

M.W. : 1326.03 g/mole

**LT-S9716 | IEICO-4F**

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)oxy)thiophene5,2-diyl))bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

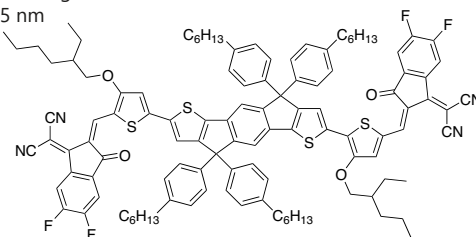
CAS No. : 2089044-02-8

Grade : >98% (NMR)

Formula :  $C_{114}H_{114}F_4N_4O_4S_4$

M.W. : 1808.4 g/mole

UV : 865 nm

**LT-S9717 | IDIC-4Cl**

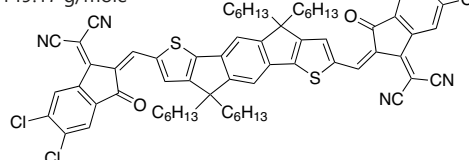
2,2'-((2Z,2'Z)-((4,4,9,9-tetrahexyl-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl)bis(methanylylidene))bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

CAS No. : 2361961-01-3

Grade : >98% (NMR)

Formula :  $C_{66}H_{62}Cl_4N_4O_2S_2$

M.W. : 1149.17 g/mole





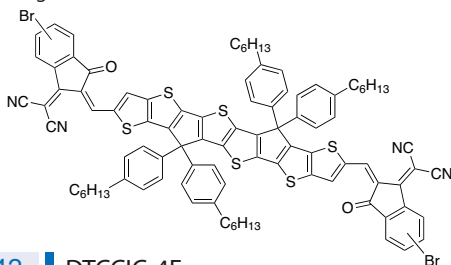
**LT-S9726** | 6TIC-2Br

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[methyldiylne(5 or 6-bromo-3-oxo-1H-indene-2,1(3H)-diylidene)]bis[propanedinitrile]:

Grade : >98% (NMR)

Formula :  $C_{94}H_{78}Br_2N_4O_2S_6$

M.W. : 1647.85 g/mole

**LT-S9742** | DTCCIC-4F

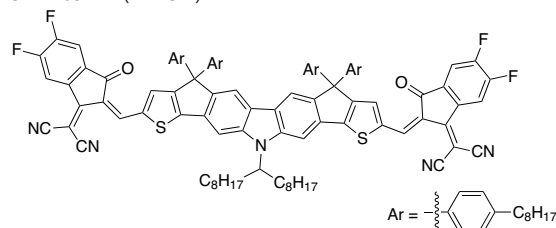
DTC(4Ph)-4FIC

CAS No. : 2375196-39-5

Formula :  $C_{121}H_{131}F_4N_5O_2S_2$

M.W. : 1827.5 g/mole

UV : 703 nm (in DCM)

**LT-S9868** | COTIC-4F

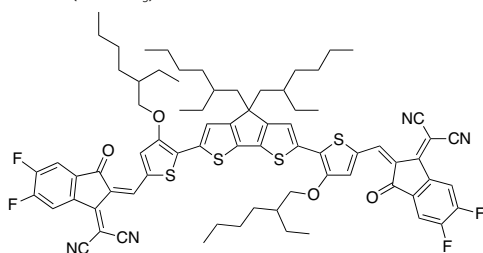
2,2'-((2Z,2'Z)-(((4,4-bis(2-ethylhexyl)-4H-cyclopenta[2,1-b:3,4-b']dithiophene-2,6-diyl)bis(4-(2-ethylhexyloxy)thiophene-5,2-diyl))bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

Grade : >99% (NMR)

Formula :  $C_{75}H_{78}F_4N_4O_4S_4$

M.W. : 1303.7 g/mole

UV : 875 nm (in  $CHCl_3$ )

**LT-S9891** | Nc

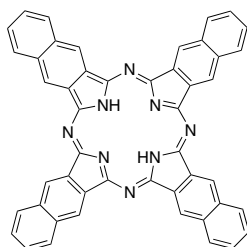
2,3-Naphthalocyanine

CAS No. : 23627-89-6

Grade : Sublimed >99%

Formula :  $C_{48}H_{26}N_8$

M.W. : 714.77 g/mole

**LT-S9912** |

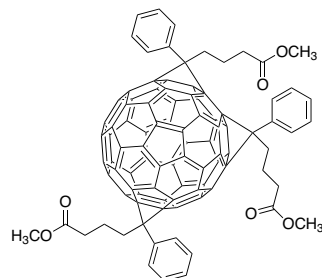
Tris-PCBM, Tris PC63BM, tris[60]PCBM, PC60BM trisadduct

Tris(1-[3-(methoxycarbonyl) propyl]-1-phenyl)-[6.6] $C_{63}$

Grade : >99%

Formula :  $C_{96}H_{42}O_6$

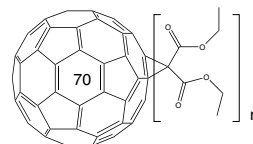
M.W. : 1291.36 g/mole

**LT-S9915** | C70 malonic ester

$C_{70}$ -n-(malonic ester)

Grade : >99% (multiple isomers),  $n=3-5$

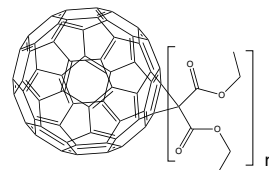
Formula :  $C_{70}(C_7H_{10}O_4)_n$

**LT-S9916** | C60 malonic ester

$C_{60}$ -n-(malonic ester)

Grade : >99.5% (multiple isomers),  $n \geq 3$

Formula :  $C_{60}(C_7H_{10}O_4)_n$

**LT-S9920** | BDCPDT-IC, NFBBDT, BDT-IC

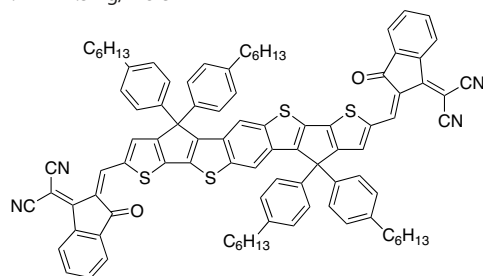
2,2'-[[4,4,10,10-Tetrakis(4-hexylphenyl)-4,10-dihydrothieno[3',2':4,5]cyclopenta[1,2b]thieno[2'',3'':3',4']cyclopenta[1',2':4,5]thieno[2,3-f]benzothiophene-2,8-diyl]bis[methyldiylne(3-oxo-1H-indene-2,1(3H)-diylidene)]bis[propanedinitrile]

CAS No. : 2097134-83-1

Grade : >98%

Formula :  $C_{94}H_{82}N_4O_2S_4$

M.W. : 1427.94 g/mole



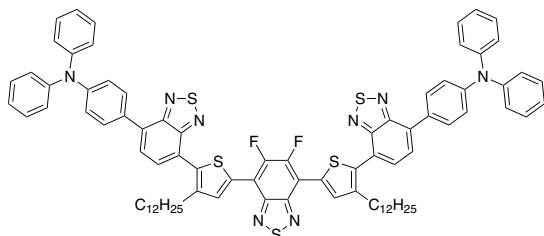
## LT-S9921

4,4'-(((5,6-Difluorobenzo[c][1,2,5]thiadiazole-4,7-diyl)bis(3-dodecylthiophene-5,2-diyl))bis(benzo[c][1,2,5]thiadiazole-7,4-diyl))bis(N,N-diphenylaniline)

Grade : >97%

Formula :  $C_{86}H_{84}F_2N_8S_5$

M.W. : 1427.96 g/mole



## LT-S9922

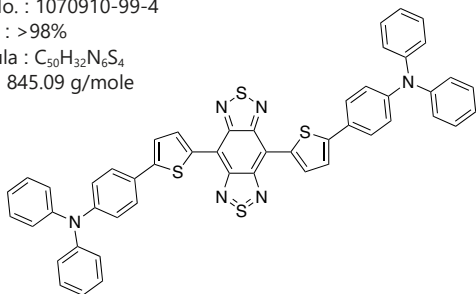
4,4'-Benzo[1,2-c:4,5-c']bis[1,2,5]thiadiazole-4,8-diyl-di-5,2-thiophenediyl)bis[N,N-bis(phenyl)benzenamine]

CAS No. : 1070910-99-4

Grade : >98%

Formula :  $C_{50}H_{32}N_6S_4$

M.W. : 845.09 g/mole



## LT-S9923

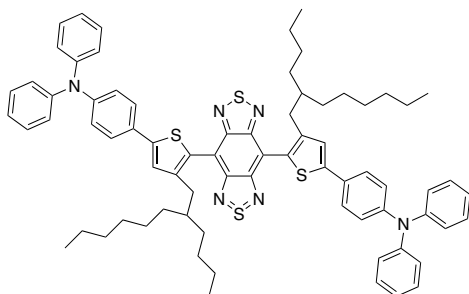
4,4'-Benzo[1,2-c:4,5-c']bis[1,2,5]thiadiazole-4,8-diyl-di-5,2-[3-(2-butylthiophenyl)thiophene]-diyl)bis[N,N-bis(4-phenyl) benzenamine]

CAS No. : 2925278-58-4

Grade : >97%

Formula :  $C_{74}H_{80}N_6S_4$

M.W. : 1181.73 g/mole



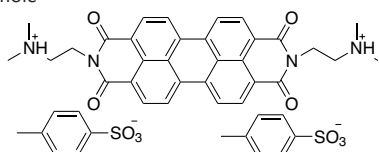
## LT-S9924 PBDI

CAS No. : 1535171-00-6

Grade : >97%

Formula :  $C_{46}H_{44}N_4O_{10}S_2$

M.W. : 876.99 g/mole



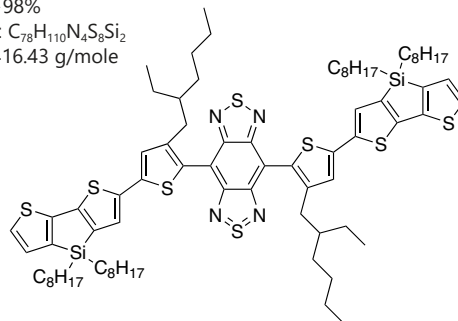
## LT-S9925

4,8-Bis(5-(4,4-dioctyl-4H-silolo[3,2-b:4,5-b']dithiophene-yl)-3-(2-ethylhexyl)-2-thienyl)-2-azido-benzo[1,2-c:4,5-c']bis[1,2,5]thiadiazole

Grade : >98%

Formula :  $C_{78}H_{110}N_4S_8Si_2$

M.W. : 1416.43 g/mole



## LT-S9926 ZR1

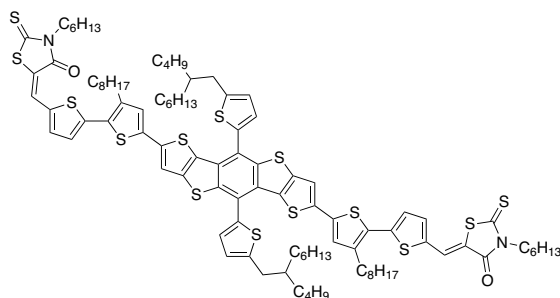
2,7-(2-(3-Hexyl-2-thioxothiazolidin-4-one-yl)-(5-thiophene-yl))-5,10-bis(2-butylthiophenyl)benzo[1,2-b:4,5-b']dithieno[3,2-b]thiophene

CAS No. : 2582829-54-5

Grade : >98%

Formula :  $C_{98}H_{124}N_2O_2S_{14}$

M.W. : 1810.96 g/mole



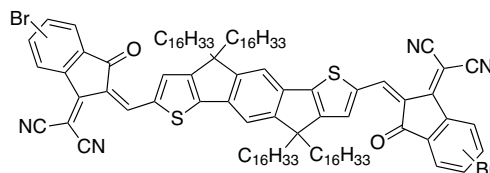
## LT-S9929 IDIC-C16-Br

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

Grade : >99%

Formula :  $C_{106}H_{144}Br_2N_4O_2S_2$

M.W. : 1730.24 g/mole



## LT-S9931

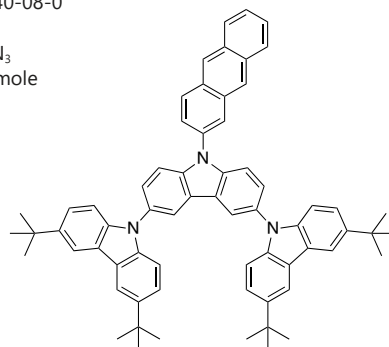
9'-(Anthracen-2-yl)-3,3'',6,6''-tetra-tert-butyl-9'H-9,3',6',9''-tercarbazole

CAS No. : 1332640-08-0

Grade : >99%

Formula :  $C_{66}H_{63}N_3$

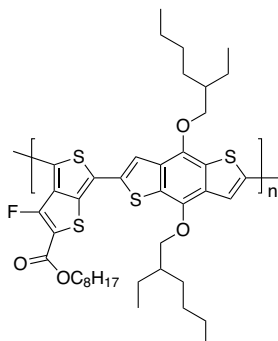
M.W. : 898.23 g/mole



## LT-S9932 | PTB4

Poly-([4,8-bis[(2-ethylhexyloxy)-benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-alt-[3-fluore-2-(octyloxy)-carbonylthieno[3,4-b]thiophene-4,6-diyl])  
Grade : MW > 10000

Formula :  $(C_{41}H_{53}FO_4S_4)_n$



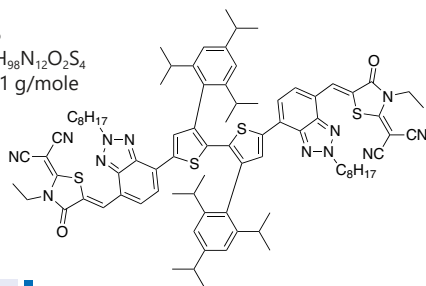
## LT-S9942 | GS-ISO

2,2'-((5Z,5'Z)-5,5'-((7,7'-(3,3'-bis(2,4,6-triisopropylphenyl)-[2,2'-bithiophene]-5,5'-diyl)bis(2-octyl-2H-benzo[d][1,2,3]triazole-7,4-diyl))bis(methanylylidene))bis(3-ethyl-4-oxothiazolidine-5,2-diylidene))dimalononitrile

Grade : >99%

Formula :  $C_{84}H_{98}N_{12}O_2S_4$

M.W. : 1436.01 g/mole



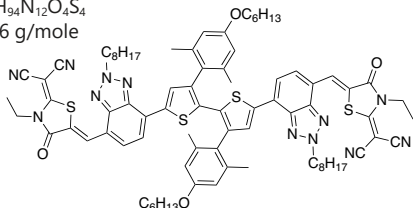
## LT-S9943 | GS-OC6

2,2'-((5Z,5'Z)-5,5'-((7,7'-(3,3'-bis(4-(hexyloxy)-2,6-dimethylphenyl)-[2,2'-bithiophene]-5,5'-diyl)bis(2-octyl-2H-benzo[d][1,2,3]triazole-7,4-diyl))bis(methanylylidene))bis(3-ethyl-4-oxothiazolidine-5,2-diylidene))dimalononitrile

Grade : >99%

Formula :  $C_{82}H_{94}N_{12}O_4S_4$

M.W. : 1439.96 g/mole

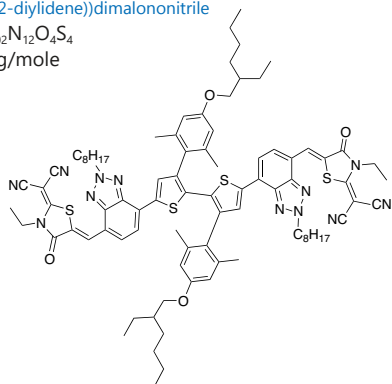


## LT-S9944 | GS-OEH

2,2'-((5Z,5'Z)-5,5'-((7,7'-(3,3'-bis(4-((2-ethylhexyloxy)-2,6-dimethylphenyl)-[2,2'-bithiophene]-5,5'-diyl)bis(2-octyl-2H-benzo[d][1,2,3]triazole-7,4-diyl))bis(methanylylidene))bis(3-ethyl-4-oxothiazolidine-5,2-diylidene))dimalononitrile

Formula :  $C_{86}H_{102}N_{12}O_4S_4$

M.W. : 1496.06 g/mole



## LT-S9945 | FCC-Cl

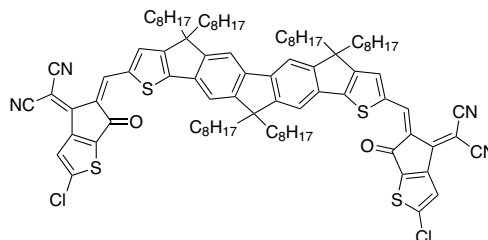
FCC-Cl

CAS No. : 2681341-29-5

Grade : >99%

Formula :  $C_{93}H_{112}Cl_2N_4O_2S_4$

M.W. : 1517.07 g/mole



## LT-S9946 | Y8, Y6-T, Y10

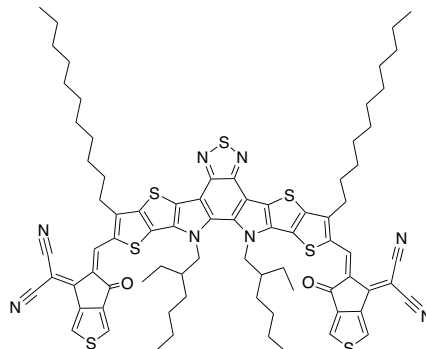
2,2'-((5Z,5'Z)-5,5'-((12,13-bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-[1,2,5]thiadiazolo[3,4-e]thieno[2'',3'':4',5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno[3,2-b]indole-2,10-diyl))bis(methanylylidene))bis(6-oxo-5,6-dihydro-4H-cyclopenta[c]thiophene-5,4-diylidene))dimalononitrile

CAS No. : 2410422-75-0

Grade : >99%

Formula :  $C_{78}H_{86}N_8O_2S_7$

M.W. : 1392.02 g/mole



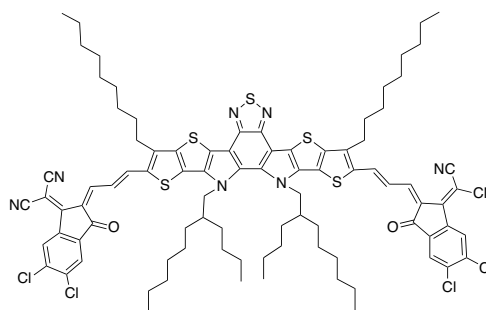
## LT-S9947 | BTPV-4Cl-eC9

2,2'-((2Z,2'Z)-((2E,2'E)-(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(prop-2-en-3-yl-1-ylidene))bis(5,6-dichloro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

Grade : >99%

Formula :  $C_{90}H_{98}Cl_4N_8O_2S_5$

M.W. : 1625.93 g/mole



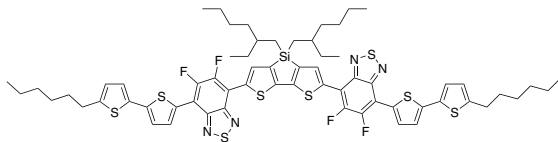
**LT-S9948** | DTS(F2BTTh2)2

7,7'-(4,4-Bis(2-ethylhexyl)-4H-silolo[3,2-b:4,5-b']dithiophene-2,6-diyl)bis(5,6-difluoro-4-(5'-hexyl-[2,2'-bithiophen]-5-yl)benzo[c][1,2,5]thiadiazole)

Grade : >99%

Formula :  $C_{64}H_{70}F_4N_4S_8Si$

M.W. : 1255.86 g/mole

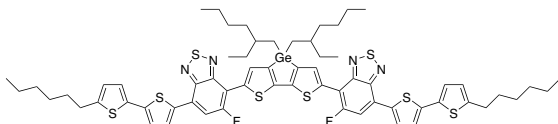
**LT-S9949** | DTG(FBTTh2)2

7,7'-(4,4-Bis(2-ethylhexyl)-4H-germolo[3,2-b:4,5-b']dithiophene-2,6-diyl)bis(6-fluoro-4-(5'-hexyl-[2,2'-bithiophen]-5-yl)benzo[c][1,2,5]thiadiazole)

Grade : >99%

Formula :  $C_{64}H_{72}F_2GeN_4S_8$

M.W. : 1264.44 g/mole

**LT-S9950** | CP

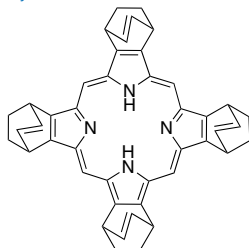
1,4:8,11:15,18:22,25-Tetraethano-29H,31H-tetrabenzo[b,g,l,q]porphine1,4,8,11,15,18,22,25-octahydro

CAS No. : 200354-12-7

Grade : >99%

Formula :  $C_{44}H_{38}N_4$

M.W. : 622.8 g/mole

**LT-S9951** | Y5, BTP-4H

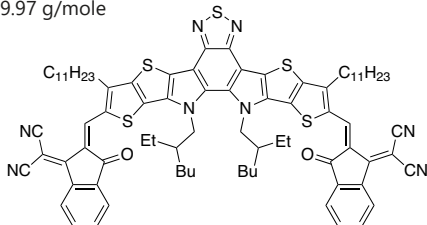
2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-diundecyl-12,13-dihydro-[1,2,5]thiadiazolo[3,4-e]thieno[2'',3':4,5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno[3,2b]indole-2,10-diyl)bis(methanylylidene))bis(3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))-dimalononitrile

CAS No. : 2304444-48-0

Grade : >99%

Formula :  $C_{82}H_{90}N_8O_2S_5$

M.W. : 1379.97 g/mole

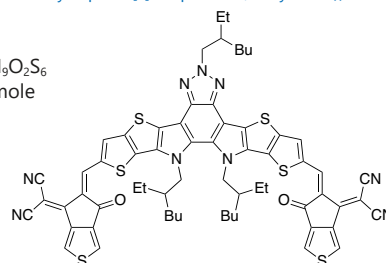
**LT-S9952** | Y2

2,2'-((5Z,5'Z)-((6,12,13-Tris(2-ethylhexyl)-12,13-dihydro-6H-thieno[2'',3':4,5']thieno[2',3':4,5]pyrrolo[3,2-g]thieno[2',3':4,5]thieno[3,2-b][1,2,3]triazolo[4,5-e]indole-2,10-diyl)bis(methanylylidene))bis(6-oxo-5,6-dihydro-4H-cyclopenta[c]thiophene-5,4-diylidene))-dimalononitrile

Grade : >99%

Formula :  $C_{68}H_{59}N_9O_2S_6$

M.W. : 1178.6 g/mole

**LT-S9953** | IEICO

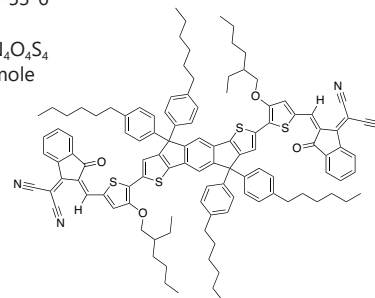
2,2'-((2Z,2'Z)-((5,5'-Bis(4,4,9,9-tetrakis(4-hexylphenyl)-4,9-dihydro-sindaceno[1,2-b:5,6-diylidene))dimalononitrile, 2,2'-[[4,4,9,9-tetrakis(4-hexylphenyl)-4,9-dihydro-s-indaceno[1,2-b:5,6-b']dithiophene-2,7-diyl]bis[[4-[(2-ethylhexyl)oxy]-5,2-thiophenediyl]-Z)-methyldiylidene(3-oxo-1H-indene-2,1(3H)-diylidene)]]bis-propanedinitrile

CAS No. : 2055812-53-6

Grade : >99%

Formula :  $C_{114}H_{118}N_4O_4S_4$

M.W. : 1736.44 g/mole

**LT-S9954** | ITDBR, EH-IDTBR, eh-IDTBR

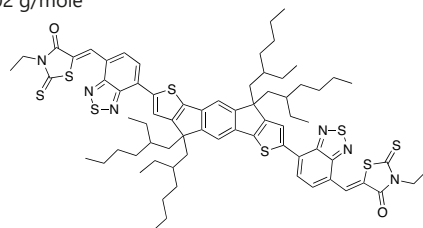
(5Z)-3-Ethyl-2-sulfanylidene-5- [[4-[9,9,18,18-tetrakis(2-ethylhexyl)-15-[7-[(Z)-(3-ethyl-4-oxo-2-sulfanylidene-1,3-thiazolidin-5-ylidene)methyl]-2,1,3-benzothiadiazol-4-yl]-5,14-dithiapentacyclo[10.6.0.0.3.10.0.4.8.0.13.17]octadeca-(12),2,4(8),6,10,13(17),15-heptaen-6-yl]-2,1,3-benzothiadiazol-7-yl)methylidene]-1,3-thiazolidin-4-one

CAS No. : 2102510-60-9

Grade : >99%

Formula :  $C_{72}H_{88}N_6O_2S_8$

M.W. : 1326.02 g/mole

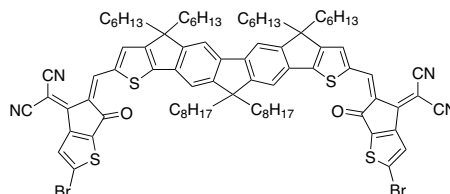
**LT-S9955** | FTCC-Br

FTCC-Br

Grade : >99%

Formula :  $C_{85}H_{96}Br_2N_4O_2S_4$

M.W. : 1493.76 g/mole



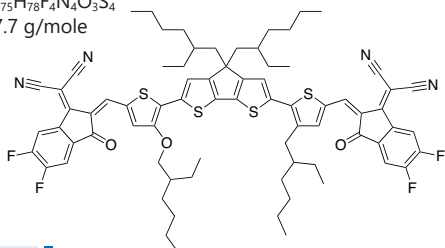
**LT-S9957** CO1-4F, CO1-F

2-((Z)-2-((5-(6-((Z)-((1-(Dicyanomethylene)-5,6-difluoro-3-oxo-1H-inden-2(3H)-ylidene)methyl)-3-((2-ethylhexyl)oxy)thiophen-2-yl)-4,4-bis(2-ethylhexyl)-4H-S-8 cyclopenta[1,2-b:5,4-'d]thiophen-2-yl)-4-(2-ethylhexyl)thiophen-2-yl)methylene)-5,6-difluoro-3-oxo-2,3-dihydro-1H-inden-1-ylidene)malononitrile

Grade : >99%

Formula :  $C_{75}H_{78}F_4N_4O_3S_4$

M.W. : 1287.7 g/mole

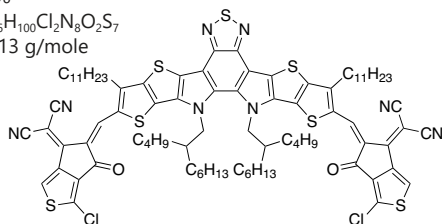
**LT-S9958** A-2ThCl

2,2'-((5Z,5'Z)-5,5'-((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(1-chloro-6-oxo-5,6-dihydro-4H-cyclopenta[c]thiophene-5,4-diylidene))dimalononitrile

Grade : >99%

Formula :  $C_{86}H_{100}Cl_2N_8O_2S_7$

M.W. : 1573.13 g/mole

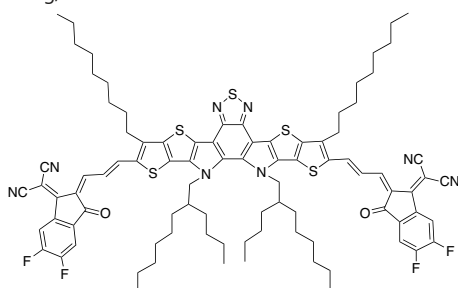
**LT-S9959** BTPV-4F-eC9

2,2'-((2Z,2'Z)-((2E,2'E)-(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(prop-2-en-3-yl-1-ylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

Grade : >99%

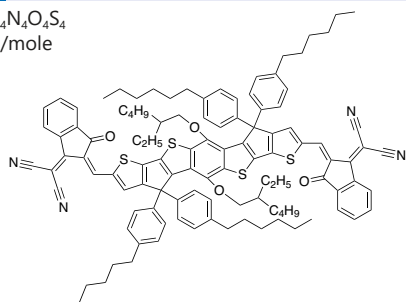
Formula :  $C_{90}H_{98}F_4N_8O_2S_5$

M.W. : 1560.11 g/mole

**LT-S9960** BTIC,BT-IC

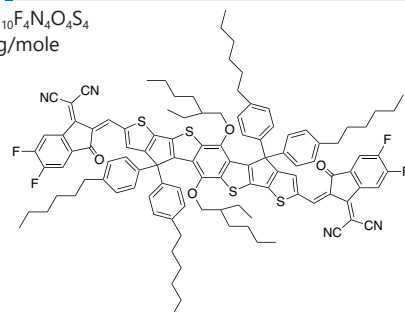
Formula :  $C_{110}H_{114}N_4O_4S_4$

M.W. : 1684.36 g/mole

**LT-S9961** BTIC-4F

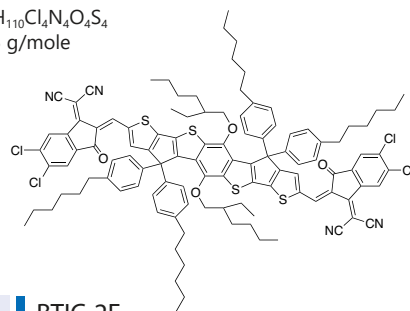
Formula :  $C_{110}H_{110}F_4N_4O_4S_4$

M.W. : 1756.32 g/mole

**LT-S9962** BTIC-4Cl, BTCIC

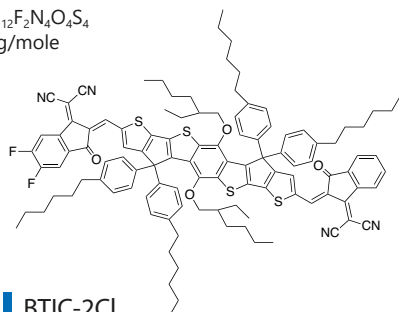
Formula :  $C_{110}H_{110}Cl_4N_4O_4S_4$

M.W. : 1822.15 g/mole

**LT-S9963** BTIC-2F

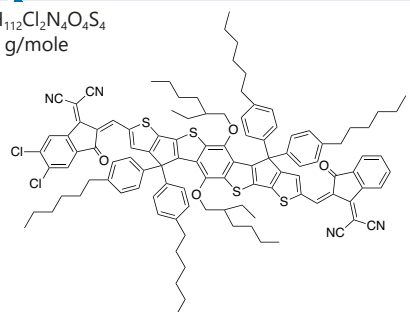
Formula :  $C_{110}H_{112}F_2N_4O_4S_4$

M.W. : 1720.35 g/mole

**LT-S9964** BTIC-2Cl

Formula :  $C_{110}H_{112}Cl_2N_4O_4S_4$

M.W. : 1753.26 g/mole

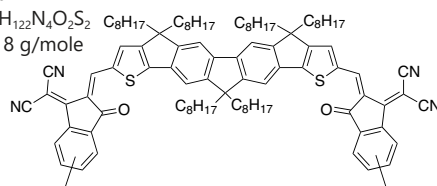
**LT-S9965** F-M, FM, FTIC-C8C8M

4,4',7,7',12,12-Octyl-7,12-dihydro- bis[methylyldyne(3-oxo-methyl-1H CAS No. : 2239303-91-2

Grade : >98%

Formula :  $C_{99}H_{122}N_4O_2S_2$

M.W. : 1464.18 g/mole



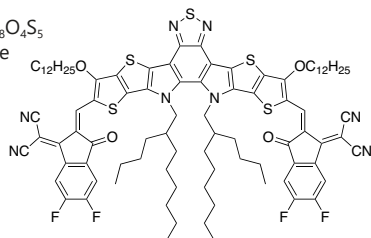
## LT-S9967 Y6-O

2,2'-((2Z,2'Z)-((12,13-bis(2-butyloctyl)-3,9-bis(dodecyloxy)-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-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{92}H_{106}F_4N_8O_4S_5$

M.W. : 1624.2 g/mole



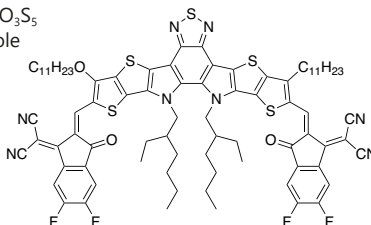
## LT-S9968 Y6-10

2,2'-((2Z,2'Z)-((12,13-bis(2-ethylhexyl)-3-undecyl-9-(undecyloxy)-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-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{82}H_{86}F_4N_8O_3S_5$

M.W. : 1467.93 g/mole



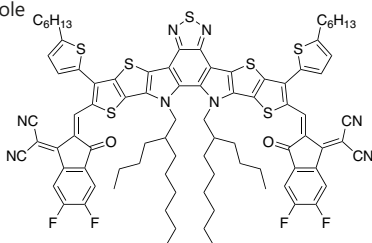
## LT-S9969 BTP-Th

2,2'-((2Z,2'Z)-((12,13-bis(2-butyloctyl)-3,9-bis(5-hexylthiophen-2-yl)-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-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{88}H_{86}F_4N_8O_2S_7$

M.W. : 1588.13 g/mole



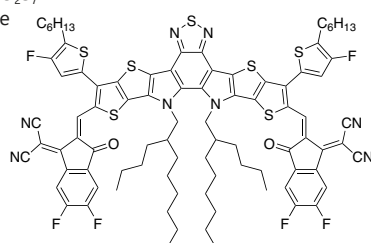
## LT-S9970 BTP-FTH

2,2'-((2Z,2'Z)-((12,13-bis(2-butyloctyl)-3,9-bis(4-fluoro-5-hexylthiophen-2-yl)-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-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{88}H_{84}F_6N_8O_2S_7$

M.W. : 1624.1 g/mole



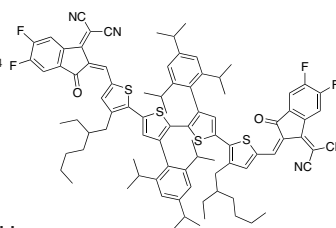
## LT-S9971 A4T-16

2,2'-((2Z,2'Z)-((3,3'''-bis(2-ethylhexyl)-3''',4'-bis(2,4,6-triisopropylphenyl)-[2,2':5',2'':5',2'''-quaterthiophene]-5,5'''-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{88}H_{90}F_4N_4O_2S_4$

M.W. : 1439.94 g/mole



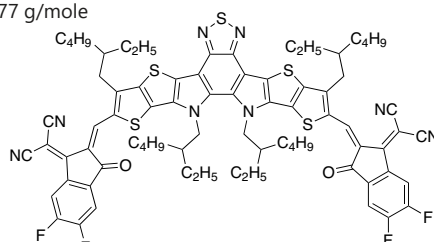
## LT-S9972 L8-EH

2,2'-((2Z,2'Z)-((3,9,12,13-tetrakis(2-ethylhexyl)-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-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{76}H_{74}F_4N_8O_2S_5$

M.W. : 1367.77 g/mole



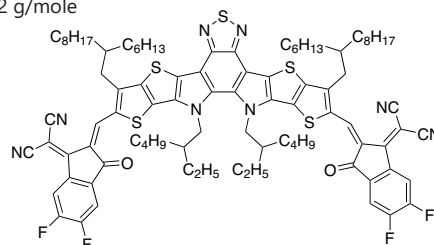
## LT-S9973 L8-HD

2,2'-((2Z,2'Z)-((12,13-bis(2-ethylhexyl)-3,9-bis(2-hexyldecyl)-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-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{92}H_{106}F_4N_8O_2S_5$

M.W. : 1592.2 g/mole



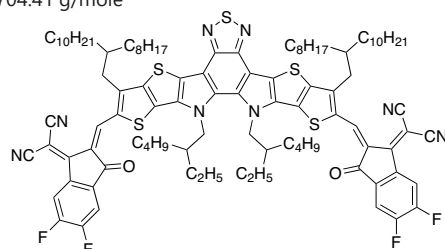
## LT-S9974 L8-OD

2,2'-((2Z,2'Z)-((12,13-bis(2-ethylhexyl)-3,9-bis(2-octyldodecyl)-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-diyliidene))dimalononitrile

Grade : >99%

Formula :  $C_{100}H_{122}F_4N_8O_2S_5$

M.W. : 1704.41 g/mole

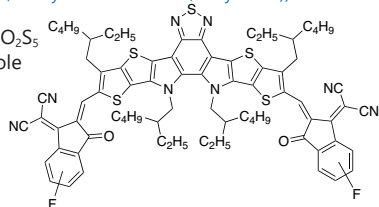


**LT-S9975 | L8-EH-F**

2,2'-((2Z,2'Z)-((3,3'''-Bis(2-ethylhexyl)-3'',4'-bis(2,4,6-trisopropylphenyl)-[2,2':5',2'':5'']-quaterthiophene)-5,5'''-diyl)bis(methanylylidene))bis(5,6-difluoro-3-oxo-2,3-dihydro-1H-indene-2,1-diylidene))dimalononitrile

Formula :  $C_{76}H_{76}F_2N_8O_2S_5$

M.W. : 1331.79 g/mole

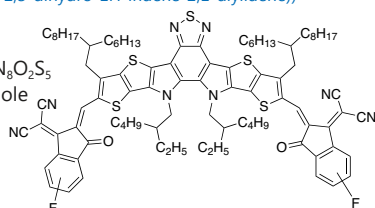
**LT-S9976 | L8-HD-F**

2,2'-((2Z,2'Z)-((3,9,12,13-Tetrakis(2-ethylhexyl)-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 : >99%

Formula :  $C_{92}H_{108}F_2N_8O_2S_5$

M.W. : 1556.22 g/mole

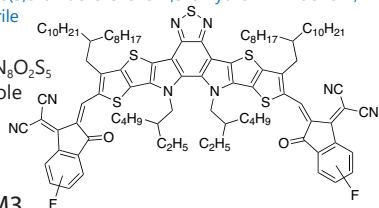
**LT-S9977 | L8-OD-F**

2,2'-((2Z,2'Z)-((12,13-Bis(2-ethylhexyl)-3,9-bis(2-hexyldecyl)-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 : >99%

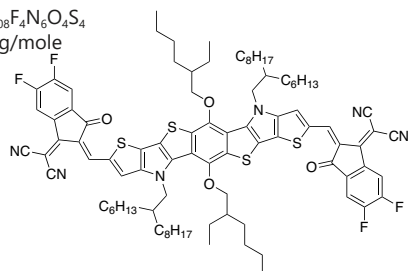
Formula :  $C_{100}H_{124}F_2N_8O_2S_5$

M.W. : 1668.43 g/mole

**LT-S9978 | M3**

Formula :  $C_{92}H_{108}F_4N_4O_4S_4$

M.W. : 1566.13 g/mole

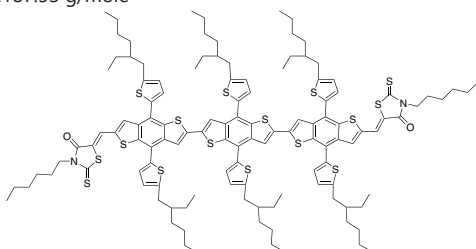
**LT-S9979 | DRTB-T-Cx, DRTB, DRTB-T, DRTB-T-C6**

5Z,5'E)-5,5'-(4,4',8,8'-Hexakis(5-(2-ethylhexyl)thiophen-2-yl)S4-[2,2':6',2'':6'']-terbenzo[1,2-b:4,5-b']dithiophene-6,6''-diyl)bis(methanylylidene))bis(3-hexyl-2-thioxothiazolidin-4-one)

Grade : >99%

Formula :  $C_{122}H_{148}N_2O_2S_{16}$

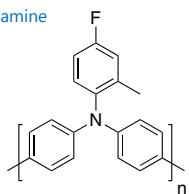
M.W. : 2187.53 g/mole



**LT-N1021** | 1F-PTAA

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

Grade : Mw &gt; 10,000

Formula : (C<sub>19</sub>H<sub>14</sub>FN)<sub>n</sub>**LT-S909** | P3HT

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

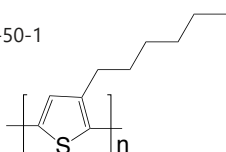
CAS No. : 110134-47-9 / 104934-50-1

Grade : Mw &gt; 45,000 (GPC),

Formula : (C<sub>10</sub>H<sub>14</sub>S)<sub>n</sub>

UV : 445 nm (in THF)

PL : 564 nm (in THF)

**LT-S931** | MEH-PPV

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

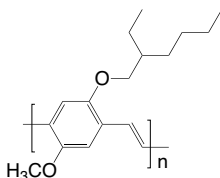
CAS No. : 138184-36-8

Grade : Mw &gt; 100,000 (GPC)

Formula : (C<sub>17</sub>H<sub>24</sub>O<sub>2</sub>)<sub>n</sub>

UV : 481 nm (in Toluene)

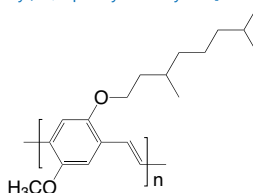
PL : 551 nm (in Toluene)

**LT-S932** | MDMO-PPV

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

CAS No. : 177716-59-5

Grade : Mw &gt; 100,000 (GPC)

Formula : (C<sub>19</sub>H<sub>28</sub>O<sub>2</sub>)<sub>n</sub>UV : 485 nm (in CH<sub>2</sub>Cl<sub>2</sub>)PL : 555 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S933** | PFO-DMP

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

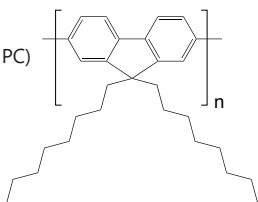
CAS No. : 123864-00-6

Grade : Mw = 50,000~150,000 (GPC)

Formula : (C<sub>29</sub>H<sub>40</sub>)<sub>n</sub>

UV : 376 nm (in THF)

PL : 426 nm (in THF)

**LT-S934** | PCDTBT

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

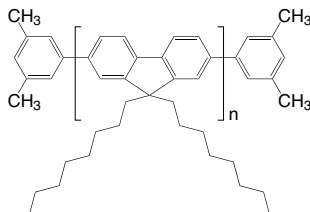
CAS No. : 874816-14-5

Grade : Mw = 50,000~150,000 (GPC)

Formula : C<sub>16</sub>H<sub>18</sub>(C<sub>29</sub>H<sub>40</sub>)<sub>n</sub>

UV : 368 nm (in THF)

PL : 421 nm (in THF)

**LT-S948** | PCDTBT

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

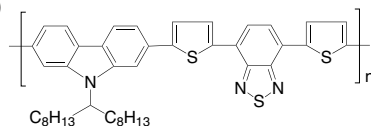
CAS No. : 958261-50-2

Grade : Mw = 20,000~100,000

Formula : (C<sub>43</sub>H<sub>47</sub>N<sub>3</sub>S<sub>3</sub>)<sub>n</sub>

UV : 390, 554 nm (in THF)

PL : 639 nm (in THF)

**LT-S949**

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

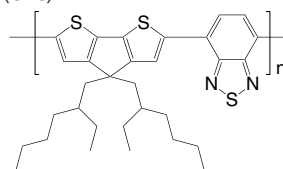
CAS No. : 920515-34-0

Grade : Mw = 7,000~20,000 (GPC)

Formula : (C<sub>31</sub>H<sub>38</sub>N<sub>2</sub>S<sub>3</sub>)<sub>n</sub>

UV : 695 nm (in THF)

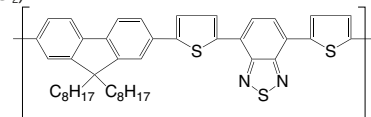
PL : 564 nm (in THF)

**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

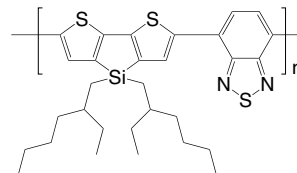
Grade : Mw = 10,000~50,000 (GPC)

Formula : (C<sub>43</sub>H<sub>46</sub>N<sub>2</sub>S<sub>3</sub>)<sub>n</sub>UV : 523 nm (in CH<sub>2</sub>Cl<sub>2</sub>)PL : 630 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S951** | PSBTBT

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

CAS No. : 1089687-02-4

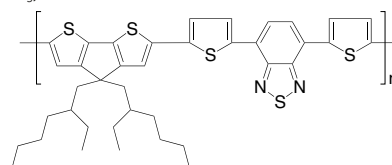
Grade : Mw = 10,000~30,000 (GPC)

Formula : (C<sub>30</sub>H<sub>38</sub>N<sub>2</sub>S<sub>3</sub>Si)<sub>n</sub>UV : 652 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-S953** | PCPDTTBT

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

CAS No. : 1035681-83-4

Grade : Mw = 8,000~20,000 (GPC)

Formula : (C<sub>39</sub>H<sub>42</sub>N<sub>2</sub>S<sub>3</sub>)<sub>n</sub>UV : 615 nm (in CHCl<sub>3</sub>)PL : 749 nm (in CHCl<sub>3</sub>)

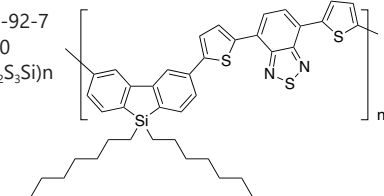
**LT-S954** | PSiFDBT

Poly[2,7-(9,9-dioctyl-dibenzosilole)-alt-4,7-bis(thiophen-2-yl)benzo-2,1,3-thiadiazole]

CAS No. : 1004272-92-7

Grade : Mw ~ 38,000

Formula : (C<sub>42</sub>H<sub>46</sub>N<sub>2</sub>S<sub>3</sub>Si)n

**LT-S957** | F8BT

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

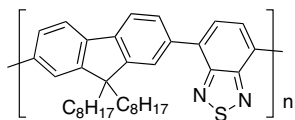
CAS No. : 210347-52-7

Grade : Mw > 20,000

Formula : (C<sub>35</sub>H<sub>42</sub>N<sub>2</sub>S)n

UV : 453 nm (in THF)

PL : 534 nm (in THF)

**LT-S958** | PHF

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

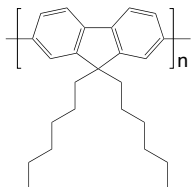
CAS No. : 201807-75-2

Grade : Mw = 30,000 ~ 100,000 (GPC)

Formula : (C<sub>25</sub>H<sub>32</sub>)n

UV : 389 nm (in THF)

PL : 418 nm (in THF)

**LT-S981** | PBTTC-C<sub>12</sub>

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

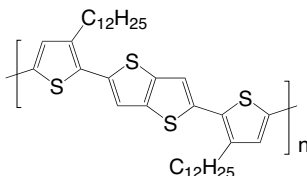
CAS No. : 888491-18-7

Grade : Mw = 10,000 ~ 100,000 (GPC)

Formula : (C<sub>38</sub>H<sub>54</sub>S<sub>4</sub>)n

UV : 460 nm (in THF)

PL : 557 nm (in THF)

**LT-S982** | PBTTC-C<sub>14</sub>

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

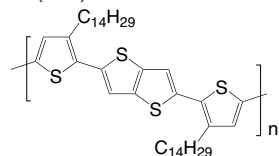
CAS No. : 888491-19-8

Grade : Mw = 10,000 ~ 100,000 (GPC)

Formula : (C<sub>42</sub>H<sub>62</sub>S<sub>4</sub>)n

UV : 466 nm (in THF)

PL : 557 nm (in THF)

**LT-S9003** | F2EHBT

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

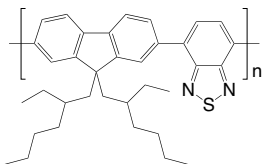
CAS No. : 1379051-13-4

Grade : Mw = 10,000 ~ 50,000 (GPC)

Formula : (C<sub>35</sub>H<sub>42</sub>N<sub>2</sub>S)n

UV : 453 nm (in THF)

PL : 645 nm (in THF)

**LT-S9004** | PF2EH

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

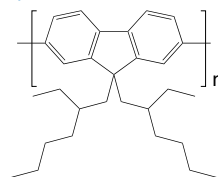
CAS No. : 188201-16-3

Grade : Mw > 20,000 (GPC)

Formula : (C<sub>29</sub>H<sub>40</sub>)n

UV : 389 nm (in THF)

PL : 418 nm (in THF)

**LT-S9006**

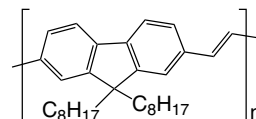
Poly[(9,9-dioctyl-9H-fluorene-2,7-diyl)-(1E)-1,2-ethenediyl]

CAS No. : 360068-36-6

Grade : Mw > 20,000 (GPC)

Formula : (C<sub>31</sub>H<sub>42</sub>)n

UV : 455 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9032** | PCBTDPP

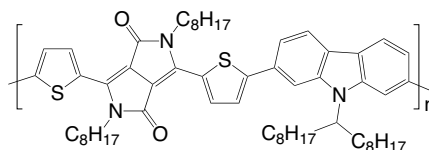
Poly[N-9'-heptadecanyl-2,7-carbazole-alt-3,6-bis(thiophen-5-yl)-2,5-dioctyl-2,5-dihydropyrrolo[3,4]pyrrole-1,4-dione]

CAS No. : 1147374-60-4

Grade : Mw > 10,000 (GPC)

Formula : (C<sub>59</sub>H<sub>81</sub>N<sub>3</sub>O<sub>2</sub>S<sub>2</sub>)n

UV : 647 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

**LT-S9050** | PTB7

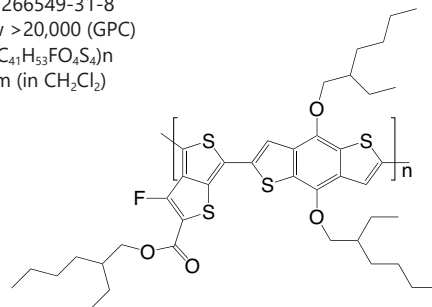
Poly[4,8-bis[(2-ethylhexyl)oxy]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl-alt-3-fluoro-2-[(2-ethylhexyl)carbonyl]thieno[3,4-b]thiophene-4,6-diyl]

CAS No. : 1266549-31-8

Grade : Mw > 20,000 (GPC)

Formula : (C<sub>41</sub>H<sub>53</sub>FO<sub>4</sub>S<sub>4</sub>)n

UV : 670 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

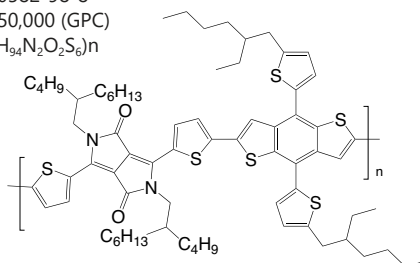
**LT-S9081** | PBDTT-DPP

Poly[2,6'-4,8-di(5-ethylhexylthienyl)benzo[1,2-b:3,4-b']dithiophene-alt-5-dibutylthiophene-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 : (C<sub>72</sub>H<sub>94</sub>N<sub>2</sub>O<sub>2</sub>S<sub>6</sub>)n



**LT-S9108** | PBDTTT-C-T

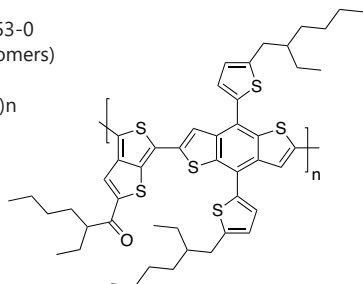
Poly[1-(6-(4,8-bis[(2-ethylhexyl)oxy]-6-methylbenzo[1,2-b:4,5-b']dithiophen-2-yl)-3-fluoro-4-methylthieno[3,4-b]thiophen-2-yl)-1-octanone]

CAS No. : 1393932-53-0

Grade : >99% (monomers)

MW~100000

Formula : (C<sub>48</sub>H<sub>56</sub>OS<sub>6</sub>)<sub>n</sub>

**LT-S9109** | PDPP3T

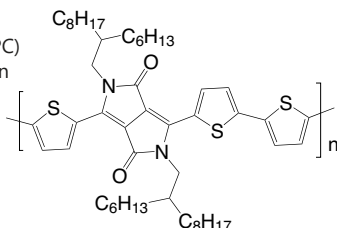
Poly[2,2'-[(2,5-bis(2-hexyldecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)dithiophene-5,5'-diyl-alt-thiophen-2,5-diyl]

CAS No. : 1198291-01-8

Grade : Mw >30,000 (GPC)

Formula : (C<sub>50</sub>H<sub>72</sub>N<sub>2</sub>O<sub>2</sub>S<sub>3</sub>)<sub>n</sub>

UV : 830 nm (in CHCl<sub>3</sub>)

**LT-S9111** | PBDTTPD

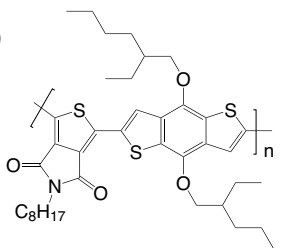
Poly[4,8-bis[(2-ethylhexyl)oxy]benzo[1,2-b:4,5-b']-dithiophene-2,6-diyl-alt-(1,3-(5-octyl-4H-thieno[3,4-c]pyrrole-4,6(5H)-dione))]

CAS No. : 1223479-75-1

Grade : Mw >30,000 (GPC)

Formula : (C<sub>40</sub>H<sub>53</sub>NO<sub>4</sub>S<sub>3</sub>)<sub>n</sub>

UV : 629 nm (in CHCl<sub>3</sub>)

**LT-S9113** | BisDMO-PFDTBT

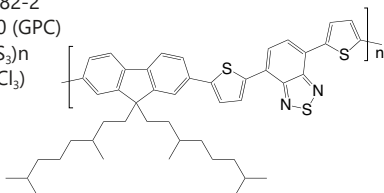
Poly[[2,7-(9,9-bis(3,7-dimethyloctyl)fluorene)]-alt-[5,5-(4,7-di-2'-thienyl-2,1,3-benzothiadiazole)]]

CAS No. : 1204005-82-2

Grade : Mw >10,000 (GPC)

Formula : (C<sub>47</sub>H<sub>54</sub>N<sub>2</sub>S<sub>3</sub>)<sub>n</sub>

UV : 560 nm (in CHCl<sub>3</sub>)

**LT-S9114** | PDPPTPT

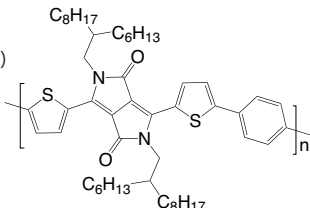
Poly[2,2'-[(2,5-bis(2-hexyldecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)dithiophene-5,5'-diyl-alt-benzen-1,4-diyl]

CAS No. : 1255939-39-9

Grade : Mw >20,000 (GPC)

Formula : (C<sub>52</sub>H<sub>74</sub>N<sub>2</sub>O<sub>2</sub>S<sub>2</sub>)<sub>n</sub>

UV : 628 nm (in CHCl<sub>3</sub>)

**LT-S9117** | PDQT

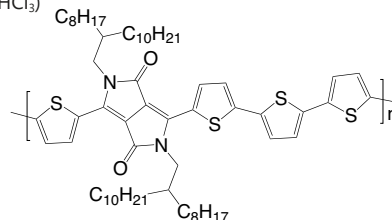
Poly[2,2'-[(2,5-bis(2-octyldodecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)dithiophene-5,5'-diyl-alt-2,2'-bithiophene-5,5'-diyl]

CAS No. : 1267540-03-3

Grade : Mw >30,000 (GPC)

Formula : (C<sub>62</sub>H<sub>90</sub>N<sub>2</sub>O<sub>2</sub>S<sub>4</sub>)<sub>n</sub>

UV : 810 nm (in CHCl<sub>3</sub>)

**LT-S9118** | PDBT-co-TT

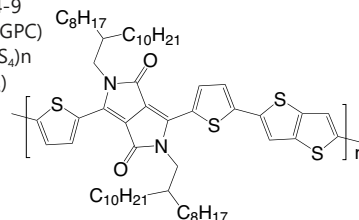
Poly[2,2'-[(2,5-bis(2-octyldodecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)dithiophene-5,5'-diyl-alt-thieno[3,2-b]thiophen-2,5-diyl]

CAS No. : 1444870-74-9

Grade : Mw >30,000 (GPC)

Formula : (C<sub>60</sub>H<sub>88</sub>N<sub>2</sub>O<sub>2</sub>S<sub>4</sub>)<sub>n</sub>

UV : 810 nm (in CHCl<sub>3</sub>)

**LT-S9119** | PDPPBT

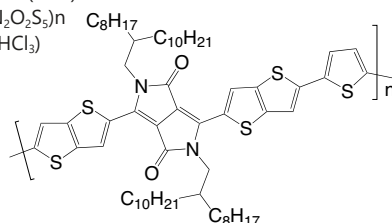
PPoly[2,2'-[(2,5-bis(2-octyldodecyl)-3,6-dioxo-2,3,5,6-tetrahydropyrrolo[3,4-c]pyrrole-1,4-diyl)dithieno[3,2-b]thiophene-5,5'-diyl-alt-thiophen-2,5-diyl]

CAS No. : 1270977-98-4

Grade : Mw >30,000 (GPC)

Formula : (C<sub>62</sub>H<sub>88</sub>N<sub>2</sub>O<sub>2</sub>S<sub>5</sub>)<sub>n</sub>

UV : 812 nm (in CHCl<sub>3</sub>)

**LT-S9139** | PTB7-Th

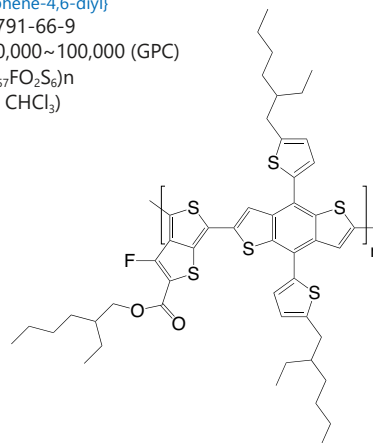
Poly[4,8-bis[5-(2-ethylhexyl)thiophen-2-yl]benzo[1,2-b:4,5-b']-dithiophene-2,6-diyl-alt-3-fluoro-2-[(2-ethylhexyl)carbonyl]-thieno[3,4-b]thiophene-4,6-diyl]

CAS No. : 1469791-66-9

Grade : Mw = 10,000~100,000 (GPC)

Formula : (C<sub>49</sub>H<sub>57</sub>FO<sub>2</sub>S<sub>6</sub>)<sub>n</sub>

UV : 695 nm (in CHCl<sub>3</sub>)



**LT-S9178** | PMDPP3T

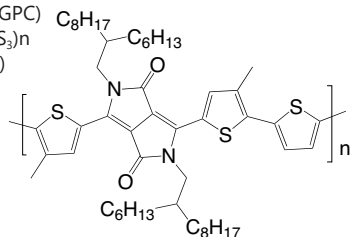
Poly[[2,5-bis(2-hexyldecyl)-2,3,5,6-tetrahydro-3,6-dioxopyrrolo[3,4-c]pyrrole-1,4-diyl]-alt-[3',3''-dimethyl-2,2':5',2''-terthiophene]-5,5''-diyl]

CAS No. : 1429119-71-0

Grade : Mw >30,000 (GPC)

Formula : (C<sub>52</sub>H<sub>76</sub>N<sub>2</sub>O<sub>2</sub>S<sub>3</sub>)<sub>n</sub>

UV : 830 nm (in CHCl<sub>3</sub>)

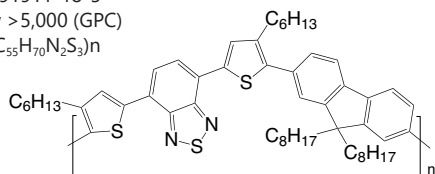
**LT-S9210** | F8TBT

Poly[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 : (C<sub>55</sub>H<sub>70</sub>N<sub>2</sub>S<sub>3</sub>)<sub>n</sub>

**LT-S9271** | PNTz4T

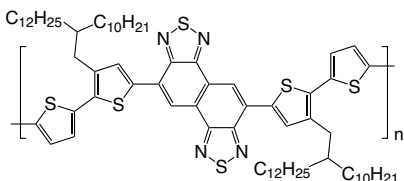
Poly[naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole-5,10-diyl[3,3'''-bis(2-decyltetradecyl)[2,2':5',2''':5'',2'''-quaterthiophene]-5,5'''-diyl]]

CAS No. : 1357999-94-0

Grade : Mw >30,000 (GPC)

Formula : (C<sub>74</sub>H<sub>106</sub>N<sub>4</sub>S<sub>6</sub>)<sub>n</sub>

UV : 725 nm (film)

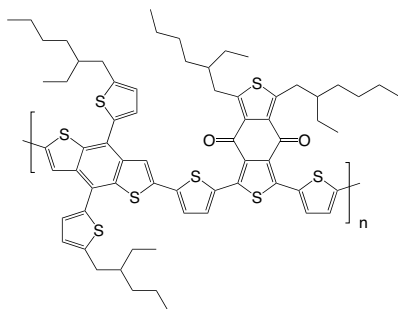
**LT-S9273** | PBDB-T

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 : (C<sub>68</sub>H<sub>78</sub>O<sub>2</sub>S<sub>8</sub>)<sub>n</sub>

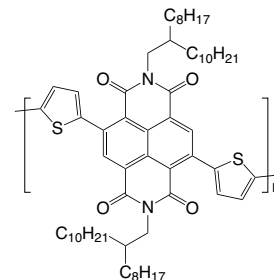
**LT-S9282** | P(NDI2OD-T2)

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 : (C<sub>62</sub>H<sub>88</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>)<sub>n</sub>

**LT-S9288** | PDCBT

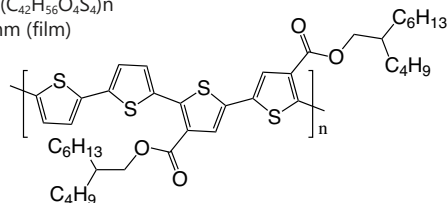
Poly[2,2'''-bis[[[(2-butyloctyl)oxy]carbonyl]-[2,2':5',2''':5'',2'''-quaterthiophene]-5,5'''-diyl]]

CAS No. : 1609536-17-5

Grade : MW >10,000 (GPC)

Formula : (C<sub>42</sub>H<sub>56</sub>O<sub>4</sub>S<sub>4</sub>)<sub>n</sub>

UV : 551 nm (film)

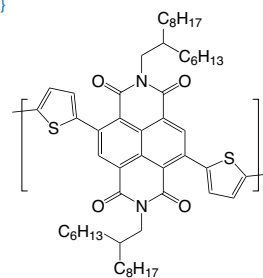
**LT-S9448** | PNDI(2HD)2T

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

CAS No. : 1459168-70-7

Grade : Mw >10,000 (GPC)

Formula : (C<sub>54</sub>H<sub>72</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>)<sub>n</sub>

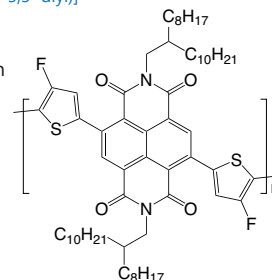
**LT-S9449** | P(NDI2OD-2FT)

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

CAS No. : 1773524-46-1

Grade : Mw >10,000 (GPC)

Formula : (C<sub>62</sub>H<sub>86</sub>F<sub>2</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>)<sub>n</sub>



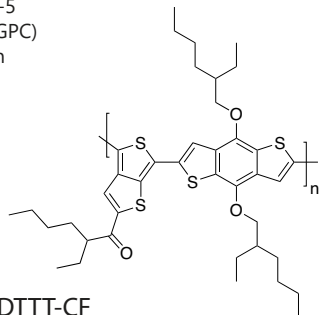
**LT-S9451 | PBDTTT-C**

Poly[[4,8-bis-(2-ethylhexyloxy)-benzo[1,2-b:4,5-b']dithiophene]-2,6-diyl-alt-(4-(2-ethylhexanoyl)-thieno[3,4-b]thiophenediyl)]

CAS No. : 1202249-71-5

Grade : Mw > 50,000 (GPC)

Formula : (C<sub>40</sub>H<sub>52</sub>O<sub>3</sub>S<sub>4</sub>)<sub>n</sub>

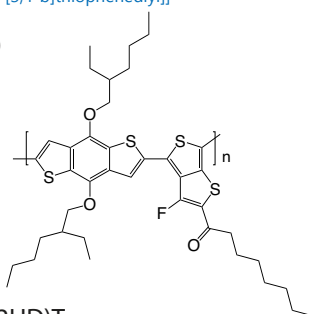
**LT-S9452 | PBDTTT-CF**

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 : (C<sub>40</sub>H<sub>51</sub>FO<sub>3</sub>S<sub>4</sub>)<sub>n</sub>

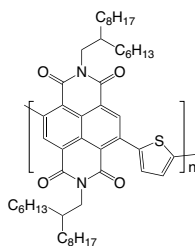
**LT-S9454 | PNDI(2HD)T**

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

CAS No. : 1675973-74-6

Grade : Mw > 10,000 (GPC)

Formula : (C<sub>50</sub>H<sub>70</sub>N<sub>2</sub>O<sub>4</sub>S)<sub>n</sub>

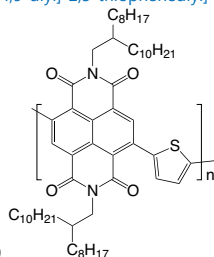
**LT-S9455 | PNDI(2OD)T**

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

CAS No. : 1236111-76-4

Grade : Mw > 10,000 (GPC)

Formula : (C<sub>58</sub>H<sub>86</sub>N<sub>2</sub>O<sub>4</sub>S)<sub>n</sub>

**LT-S9456 | PBdT-T8-TPD**

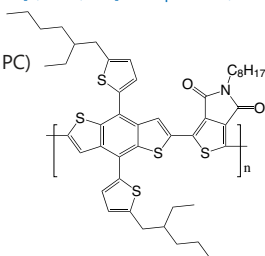
Poly[[5,6-dihydro-5-octyl-4,6-dioxo-4H-thieno[3,4-c]pyrrole-1,3-diyl][4,8-bis[5-(2-ethylhexyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]]

CAS No. : 1426534-44-2

Grade : Mw = 50,000~150,000 (GPC)

Formula : (C<sub>48</sub>H<sub>57</sub>NO<sub>2</sub>S<sub>5</sub>)<sub>n</sub>

UV : 557, 614 nm (film)

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

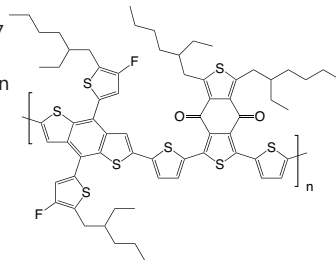
Poly[[4,8-bis[5-(2-ethylhexyl)-4-fluoro-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl-[5,7-bis(2-ethylhexyl)-4,8-dioxo-4H,8H-benzo[1,2-c:4,5-c']-dithiophene-1,3-diyl]-2,5-thiophenediyl]

CAS No. : 1802013-83-7

Grade : > 40,000 (GPC)

Formula : (C<sub>68</sub>H<sub>76</sub>F<sub>2</sub>O<sub>2</sub>S<sub>8</sub>)<sub>n</sub>

UV : 614nm (in CHCl<sub>3</sub>)

**LT-S9458 | PBDB-T-2Cl**

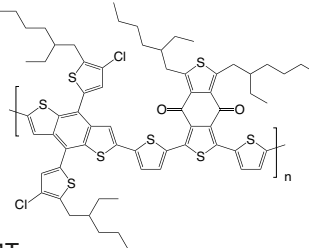
Poly[[4,8-bis[4-chloro-5-(2-ethylhexyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl[5,7-bis(2-ethylhexyl)-4,8-dioxo-4H,8H-benzo[1,2-c:4,5-c']dithiophene-1,3-diyl]-2,5-thiophenediyl]

CAS No. : 2239295-71-5

Grade : Mw > 10,000 (GPC)

Formula : (C<sub>68</sub>H<sub>76</sub>Cl<sub>2</sub>O<sub>2</sub>S<sub>8</sub>)<sub>n</sub>

M.W. : Mw > 10,000

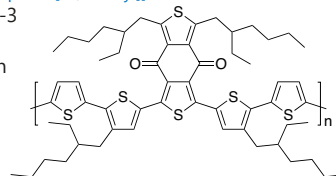
**LT-S9459 | PBDD4T**

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 : (C<sub>58</sub>H<sub>74</sub>O<sub>2</sub>S<sub>6</sub>)<sub>n</sub>

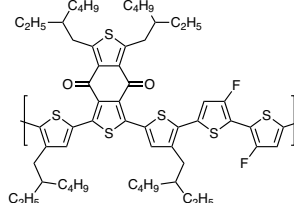
**LT-S9462 | PBDD4T-2F**

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 : (C<sub>58</sub>H<sub>72</sub>F<sub>2</sub>O<sub>2</sub>S<sub>6</sub>)<sub>n</sub>

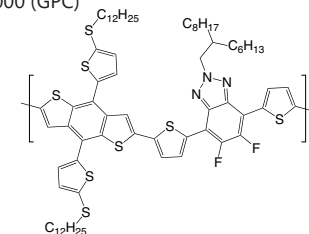
**LT-S9463 | J61**

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

CAS No. : 1887136-03-9

Grade : Mw = 50,000~150,000 (GPC)

Formula : (C<sub>72</sub>H<sub>93</sub>F<sub>2</sub>N<sub>3</sub>S<sub>8</sub>)<sub>n</sub>



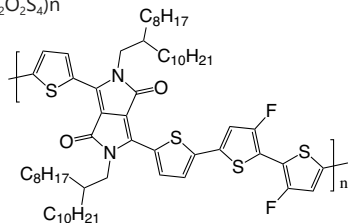
**LT-S9464** | PDPP4T-2F

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'']-quaterthiophene)-5,5'''-diyl]

CAS No. : 1926166-46-2

Grade : Mw = 20,000~200,000 (GPC)

Formula : (C<sub>70</sub>H<sub>104</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub>S<sub>4</sub>)<sub>n</sub>

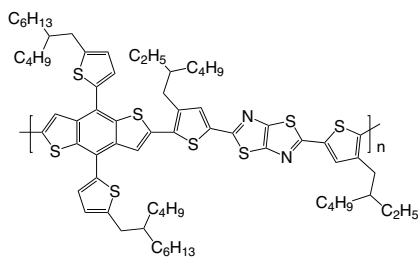
**LT-S9465** | PTZ1

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 : (C<sub>70</sub>H<sub>92</sub>N<sub>2</sub>S<sub>8</sub>)<sub>n</sub>

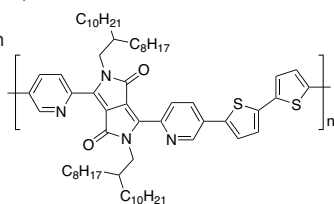
**LT-S9467** | PDBPyBT

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

CAS No. : 1455028-35-9

Formula : (C<sub>64</sub>H<sub>92</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>)<sub>n</sub>

M.W. : Mw > 10,000

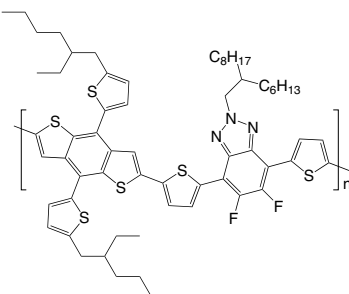
**LT-S9469** | J52

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

CAS No. : 1887136-01-7

Grade : Mw > 10,000 (GPC)

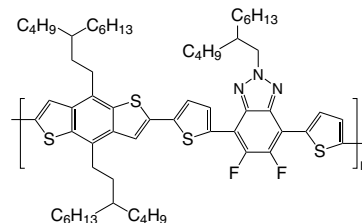
Formula : (C<sub>64</sub>H<sub>77</sub>F<sub>2</sub>N<sub>3</sub>S<sub>6</sub>)<sub>n</sub>

**LT-S9497** | FTAZ

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

Grade : Mw > 10,000 (GPC)

Formula : (C<sub>62</sub>H<sub>85</sub>F<sub>2</sub>N<sub>3</sub>S<sub>4</sub>)<sub>n</sub>

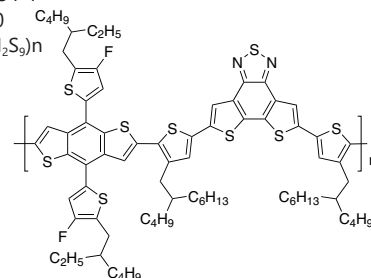
**LT-S9502** | D18

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

CAS No. : 2433725-54-1

Grade : Mw > 30,000

Formula : (C<sub>76</sub>H<sub>92</sub>F<sub>2</sub>N<sub>2</sub>S<sub>9</sub>)<sub>n</sub>

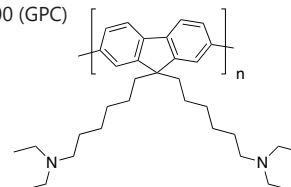
**LT-S9506** | PFN100

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

CAS No. : 1305335-08-3

Grade : Mw = 30,000~100,000 (GPC)

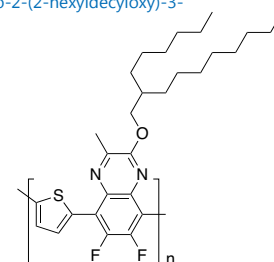
Formula : (C<sub>33</sub>H<sub>50</sub>N<sub>2</sub>)<sub>n</sub>

**LT-S9507** | PTQ11

Poly[(thiophene)-alt-(6,7-difluoro-2-(2-hexyldecyloxy)-3-methylguinoxaline)]

Grade : Mw = 80000

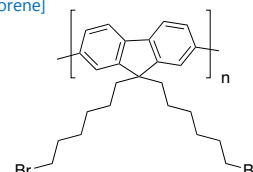
Formula : (C<sub>29</sub>H<sub>38</sub>F<sub>2</sub>N<sub>2</sub>OS)<sub>n</sub>

**LT-S9509**

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

Grade : Mw = 30,000~100,000

Formula : (C<sub>25</sub>H<sub>30</sub>Br<sub>2</sub>)<sub>n</sub>



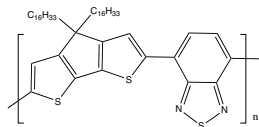
**LT-S9537** | CDT-BTZ

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 > 10,000

Formula : (C<sub>47</sub>H<sub>70</sub>N<sub>2</sub>S<sub>3</sub>)<sub>n</sub>

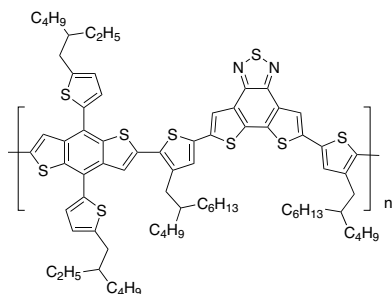
**LT-S9585** | JD40

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 > 30,000

Formula : (C<sub>76</sub>H<sub>94</sub>N<sub>2</sub>S<sub>9</sub>)<sub>n</sub>

UV : 580 nm (in CHCl<sub>3</sub>)

**LT-S9590** | PJ1

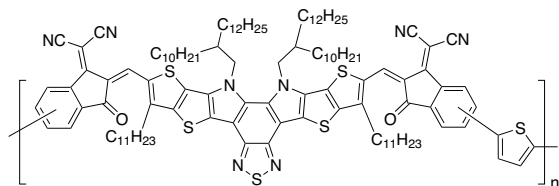
Poly[[12,13-bis(2-decyltetradecyl)-12,13-dihydro-3,9-diundecylbisthieno[2'',3'':4',5']thieno[2',3':4,5]pyrrolo[3,2-e:2',3'-g][2,1,3]benzothiadiazole-2,10-diyl)methylidyne[1-(dicyanomethylene)-1,3-dihydro-3-oxo-2H-inden-yl-2-ylidene]-2,5-thiophenediyl[1-(dicyanomethylene)-1,3-dihydro-3-oxo-2H-inden-yl-2-ylidene]methylidyne]

CAS No. : 2411023-04-4

Grade : Mw > 10,000

Formula : (C<sub>118</sub>H<sub>154</sub>N<sub>8</sub>O<sub>2</sub>S<sub>6</sub>)<sub>n</sub>

UV : 765 nm (in CHCl<sub>3</sub>)

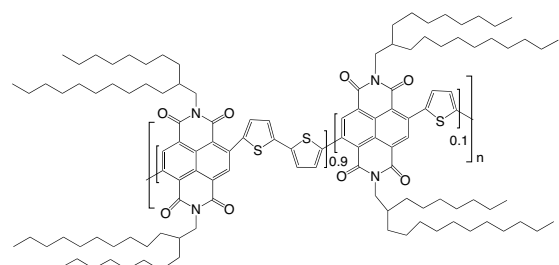
**LT-S9610** | PNDI-T10 (PCE9, high mobility n-type polymer)

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

CAS No. : 1977539-03-9

Grade : Mw > 100,000

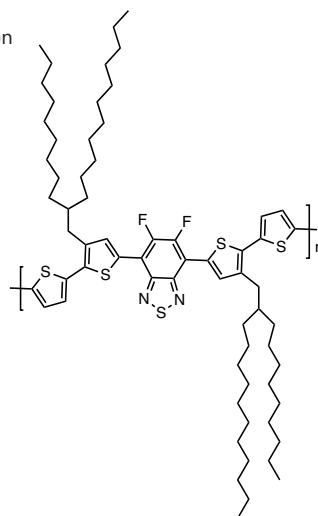
Formula : (C<sub>62</sub>H<sub>88</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>)<sub>0.9</sub> • (C<sub>58</sub>H<sub>86</sub>N<sub>2</sub>O<sub>4</sub>S)<sub>0.1</sub>

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

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 : (C<sub>66</sub>H<sub>97</sub>F<sub>2</sub>N<sub>2</sub>S<sub>5</sub>)<sub>n</sub>

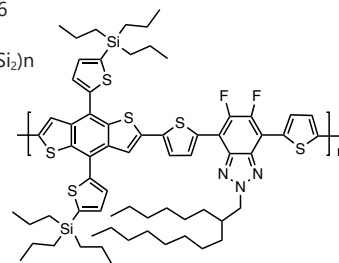
**LT-S9612** | PJ71

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

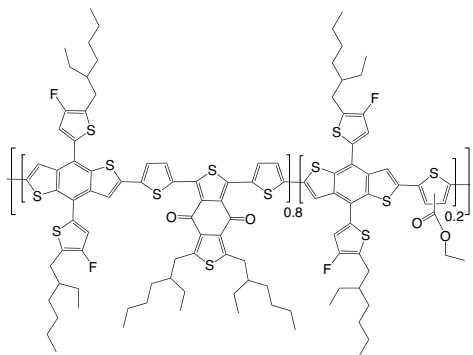
Formula : (C<sub>66</sub>H<sub>85</sub>F<sub>2</sub>N<sub>3</sub>S<sub>6</sub>Si<sub>2</sub>)<sub>n</sub>

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

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 : [(C<sub>68</sub>H<sub>76</sub>F<sub>2</sub>O<sub>2</sub>S<sub>8</sub>)<sub>0.8</sub>(C<sub>41</sub>H<sub>44</sub>F<sub>2</sub>O<sub>2</sub>S<sub>5</sub>)<sub>0.2</sub>]<sub>n</sub>

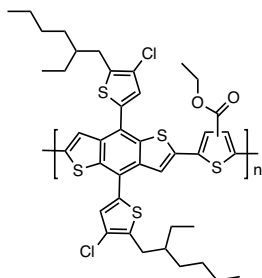


## LT-S9614 | PCITO2

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 :  $(C_{41}H_{44}Cl_2O_2S_5)n$

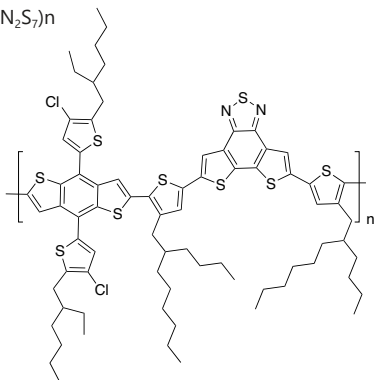


## LT-S9615 | D18-Cl

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-butyloctyl)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 :  $(C_{76}H_{92}Cl_2N_2S_7)n$

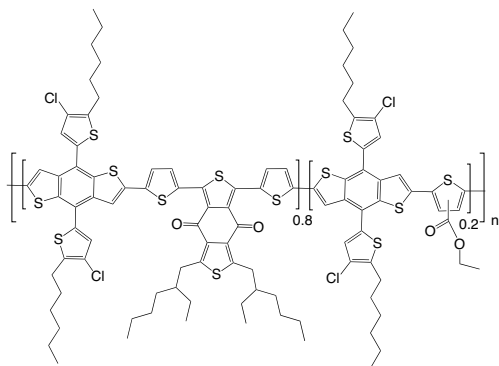


## LT-S9616 | PBDB-TCI-T1

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 :  $[(C_{68}H_{76}Cl_2O_2S_8)0.8(C_{41}H_{44}F_2O_2S_5)0.2]n$

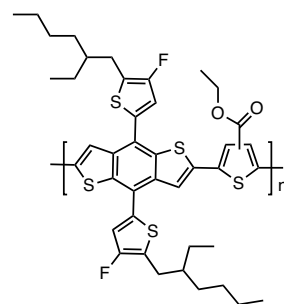


## LT-S9617 | PTO2

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

Grade : Mw > 50,000

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



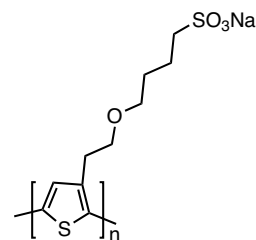
## LT-S9618 | PTEBS Water Soluble Polythiophenes

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

CAS No. : 744198-90-1

Grade : Mw > 1000,000 (GPC)

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

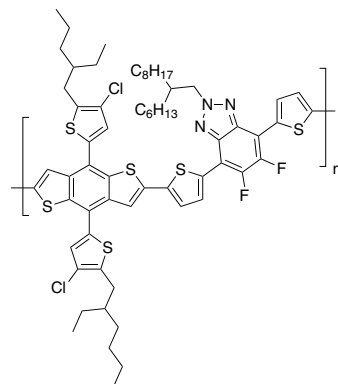


## LT-S9709 | J52-Cl

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]

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

M.W. : Mw > 20,000

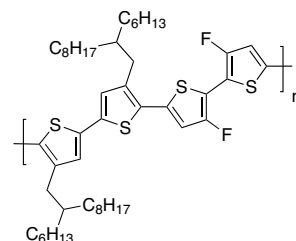


## LT-S9710 | P4T2F-HD

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

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

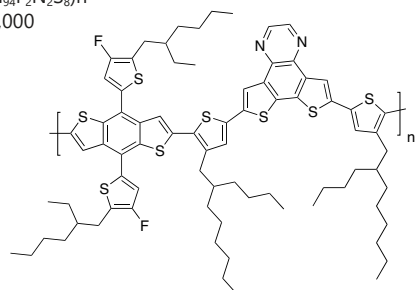
M.W. : Mw > 20,000



## LT-S9711 PBQx-TF

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-butyloctyl)thiophen-2-yl)dithieno[3,2-f:2',3'-h]quinoxaline)]

Formula :  $(C_{78}H_{94}F_2N_2S_8)_n$   
M.W. :  $M_w > 20,000$

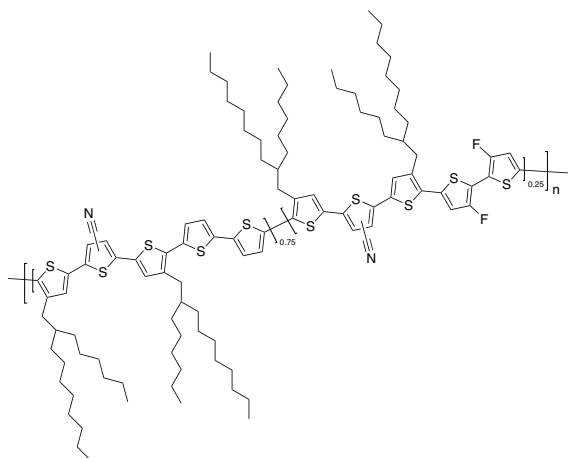


## LT-S9728 P5TCN-F25

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

Grade :  $M_w > 40,000$  (GPC)

Formula :  $[(C_{53}H_{73}NS_2)_{0.75}(C_{53}H_{71}F_2NS_2)_{0.25}]_n$



## LT-S9743 TPD-3F

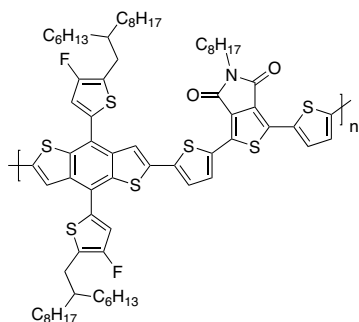
Poly[[2,2'-[[4,8-Bis[4-fluoro-5-(2-hexyldecyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl[5,6-dihydro-5-octyl-4,6-dioxo-4Hthieno[3,4-c]pyrrole-1,3-diyl]-2,5-thiophenediyl]]

CAS No. : 2499690-26-3

Grade :  $M_w > 30,000$

Formula :  $(C_{72}H_{91}F_2NO_2S_7)_n$

UV : 555 nm (in o-xylene, film)



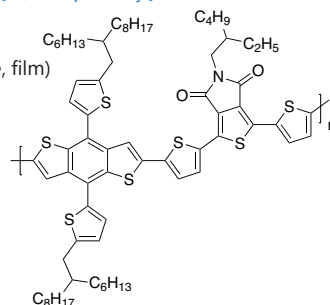
## LT-S9744 PT-7

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

Grade :  $M_w > 40,000$

Formula :  $(C_{72}H_{93}NO_2S_7)_n$

UV : 558 nm (in o-xylene, film)



## LT-S9745 PV3006

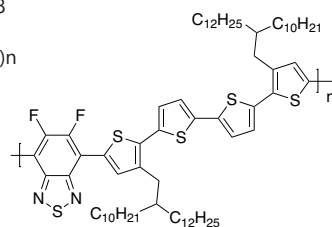
Poly[(5,6-difluoro-2,1,3-benzothiadiazole-4,7-diyl)[3,3'-bis(2-decyltetradecyl)[2,2':5',2'':5'',2''':5''''-quaterthiophene]-5,5''''-diyl]]

CAS No. : 1430201-61-8

Grade :  $M_w > 40,000$

Formula :  $(C_{70}H_{104}F_2N_2S_5)_n$

UV : 702 nm (in CB)



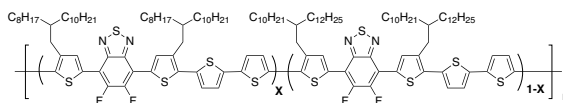
## LT-S9746 PV5001

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

CAS No. : 2221940-37-8

Formula :  $(C_{66}H_{96}F_2N_2S_5)_n$

UV : 702 nm (in CB)



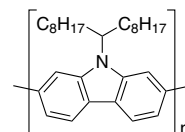
## LT-S9928 PCz

Poly[n-(1-octylnonyl)-9h-carbazole-2,7-diyl]

CAS No. : 1093292-01-3

Grade :  $MW > 10000$

Formula :  $(C_{29}H_{41}N)_n$

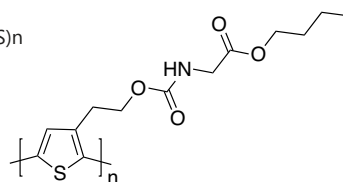


## LT-S9930 PURET

Poly[2(3-thienyl)ethanol n-butoxycarbonylmethylurethane]

Grade :  $M_w \sim 50000$

Formula :  $(C_{13}H_{17}NO_4S)_n$



## LT-S9940 J51

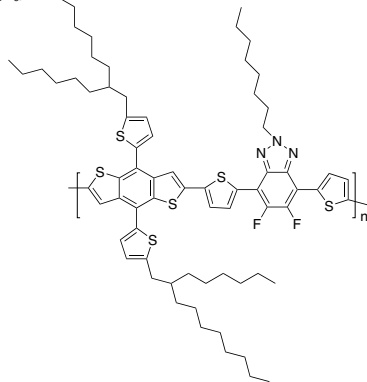
Poly[(5,6-difluoro-2-octyl-2H-benzotriazole-4,7-diyl)-2,5-thiophenediyl[4,8-bis[5-(2-hexyldodecyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-thiophenediyl]

CAS No. : 1393529-03-7

Grade : >98% ( basing on NMR)

Mw = 20000~40000

Formula :  $(C_{72}H_{93}F_2N_3S_6)_n$

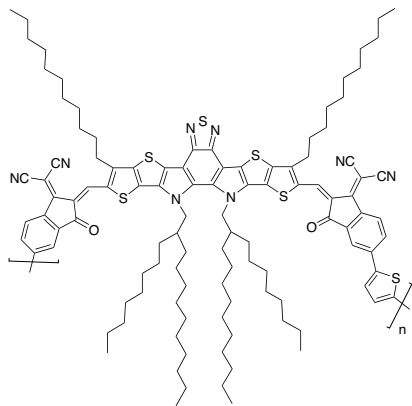


## LT-S9956 PY-IT

Poly[[12,13-bis(2-octyldodecyl)-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]

Grade : Mw > 5,000 (GPC)

Formula :  $(C_{110}H_{138}N_8O_2S_6)_n$

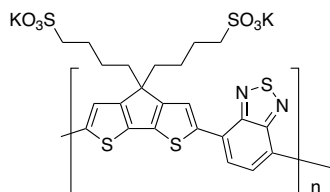


## LT-S9985 PCPDTBT SO3K, CPE-K

Poly[2,6-(4,4-bis-potassium butanysulfonate-4H-cyclopenta-[2,1- b;3,4-b']-dithiophene)-alt-4,7-(2,1,3-benzothiadiazole)]

Grade : >99% Mw~25000

Formula :  $(C_{23}H_{20}K_2N_2O_6S_5)_n$



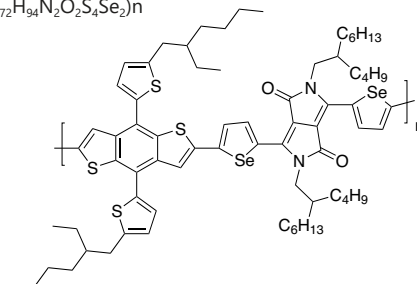
## LT-S9986 PBDTT-SeDOO, PBDTT-SeDPP

Poly[[2,5-bis(2-butyldecyl)-2,3,5,6-tetrahydro-3,6-dioxopyrrolo[3,4-c]pyrrole-1,4-diyl]-2,5-selenophenediyl[4,8-bis[5-(2-ethylhexyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]-2,5-selenophenediyl]

CAS No. : 1427210-15-8

Grade : >99% MW~40000

Formula :  $(C_{72}H_{94}N_2O_2S_4Se_2)_n$

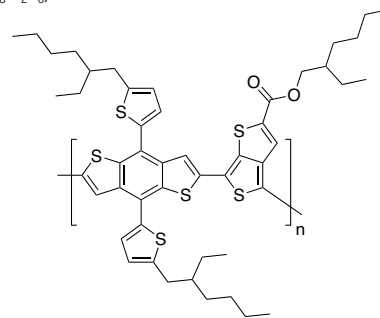


## LT-S9987 PBDTTT-E-T

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

Grade : MW > 20,000 (GPC)

Formula :  $(C_{49}H_{58}O_2S_6)_n$

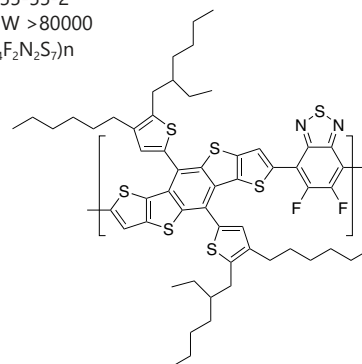


## LT-S9988 PDTBDT-FBT

CAS No. : 1919055-55-2

Grade : >99% MW > 80000

Formula :  $(C_{56}H_{64}F_2N_2S_7)_n$



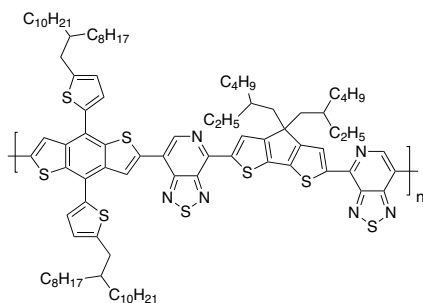
## LT-S9990 PM2

Poly[[1,2,5]thiadiazolo[3,4-c]pyridine-7,4-diyl[4,4-bis(2-ethylhexyl)-4Hcyclopenta[2,1-b:3,4-b']dithiophene-2,6-diyl][1,2,5]thiadiazolo[3,4-c]pyridine-4,7-diyl[4,8-bis[5-(2-octyldodecyl)-2-thienyl]benzo[1,2-b:4,5-b']dithiophene-2,6-diyl]]

CAS No. : 2173236-98-9

Grade : Mw~150000

Formula :  $(C_{93}H_{126}N_6S_8)_n$

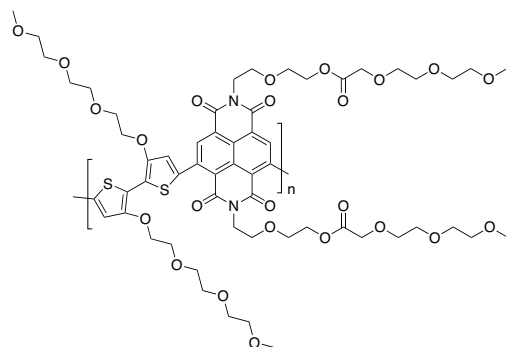


## LT-S9991 P(gNDI-gT2)

CAS No. : 2186673-54-9

Grade : Mw > 20,000

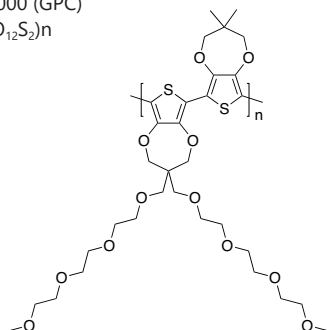
Formula :  $(C_{58}H_{76}N_2O_{24}S_2)_n$



## LT-S9992 ProDOT, PECD, ProDOT(OE)-DMP

Grade : MW > 20,000 (GPC)

Formula :  $(C_{32}H_{48}O_{12}S_2)_n$

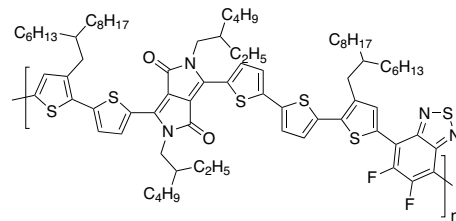


## LT-S9993 PffBT-DPP

Polymer of (4,7-bis(5-bromo-4-(2-hexyldodecyl)thiophen-2-yl)-5,6-difluorobenzo[c][1,2,5]thiadiazole) and (2,5-bis(2-ethylhexyl)-3,6-bis(5-(trimethylstannyl)thiophen-2-yl)-2,5-dihydropyrrolo[3,4-c]pyrrole-1,4-dione)

Grade : >99% (monomers) Mw~50000

Formula :  $(C_{80}H_{108}F_2N_4O_2S_6)_n$



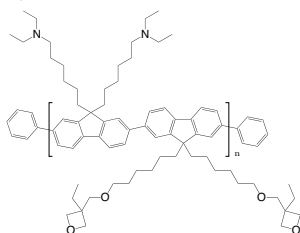
**LT-N177** | PFN-OX

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 :  $378 \pm 10$  nm (in THF)

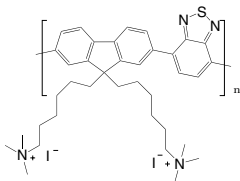
**LT-N181** | PFNIBT

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 :  $(C_{35}H_{42}I_2N_4S)_n$

UV : 317, 448 nm (in DMSO)

**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

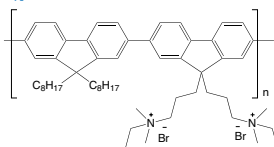
CAS No. : 889672-99-5

Grade : Mw > 10,000 (GPC)

Formula :  $(C_{56}H_{80}N_2Br_2)_n$

UV : 375 nm (in MeOH)

PL : 440 nm (in MeOH)

**LT-N4027** | PFN-DOF

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

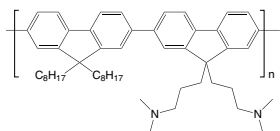
CAS No. : 673474-75-4

Grade : Mw > 10,000 (GPC)

Formula :  $(C_{52}H_{70}N_2)_n$

UV : 391 nm (in  $CH_2Cl_2$ )

PL : 414 nm (in  $CH_2Cl_2$ )

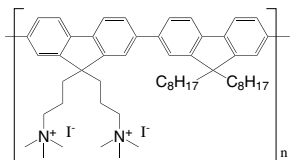
**LT-N8006** | PFN-diiodine salt

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** | C<sub>60</sub>-COOH-SAM

4-(1',5'-Dihydro-1'-methyl-2'-H-[5,6]fullereno-C<sub>60</sub>-1h-[1,9-c]-pyrrol-2'-yl) benzoic acid

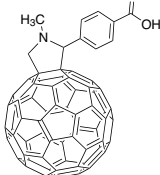
CAS No. : 631918-72-4

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

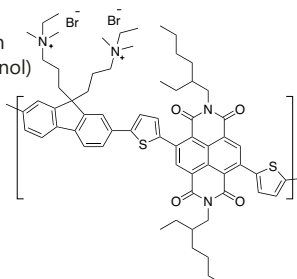
Poly[[2,7-bis(2-ethylhexyl)-1,2,3,6,7,8-hexahydro-1,3,6,8-tetraoxobenz[Imn][3,8]phenanthroline-4,9-diyl]-2,5-thiophenediyl[9,9-bis[3'-(N,N-dimethyl)-N-ethylammonium]-propyl]-9H-fluorene-2,7-diyl]-2,5-thiophenediyl]

CAS No. : 2169941-79-9

Grade : Mw > 10,000 (GPC)

Formula :  $(C_{65}H_{80}Br_2N_4O_4S_2)_n$

UV : 380, 580 nm (in Methanol)

**LT-S9479** | PDINO

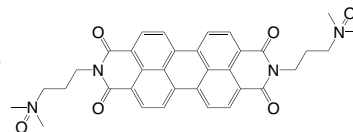
2,9-Bis[3-(dimethylamino)propyl]anthra[2,1,9-def:6,5,10-d'e'f'] diisoquinoline-1,3,8,10(2H,9H)-tetrone

CAS No. : 1558023-86-1

Grade : >95%

Formula :  $C_{34}H_{32}N_4O_6$

M.W. : 592.64 g/mole

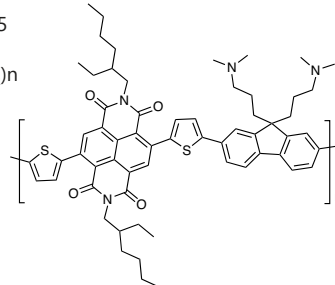
**LT-S9490** | PNDIT-F3N

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

CAS No. : 1800206-46-5

Grade : Mw > 10,000

Formula :  $(C_{61}H_{70}N_4O_4S_2)_n$

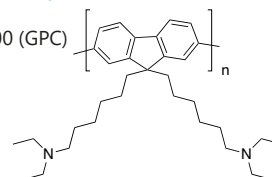
**LT-S9506** | PFN100

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

CAS No. : 1305335-08-3

Grade : Mw = 30,000~100,000 (GPC)

Formula :  $(C_{33}H_{50}N_2)_n$

**LT-S9562** | QxTPPO1

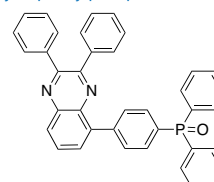
(4-(2,3-Diphenylquinoxalin-5-yl) phenyl)diphenylphosphine oxide

Grade : Sublimed >99%

Formula :  $C_{38}H_{27}N_2OP$

M.W. : 558.61 g/mole

UV : 265 nm (in IPA)

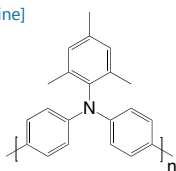


**LT-N168** | PTAA

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

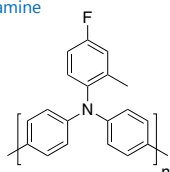
CAS No. : 1333317-99-9

Grade : Mw = 20,000~100,000 (GPC)

Formula : (C<sub>21</sub>H<sub>19</sub>N)<sub>n</sub>UV : 388 nm (in CH<sub>2</sub>Cl<sub>2</sub>)PL : 424 nm (in CH<sub>2</sub>Cl<sub>2</sub>)**LT-N1021** | 1F-PTAA

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

Grade : Mw &gt; 10,000

Formula : (C<sub>19</sub>H<sub>14</sub>FN)<sub>n</sub>**LT-S8002** | BPD-3PA

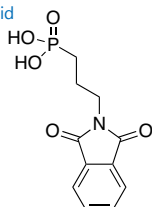
(3-(1,3-Dioxoisindolin-2-yl)propyl)phosphonic acid

CAS No. : 174350-89-1

Grade : &gt;98%

Formula : C<sub>11</sub>H<sub>12</sub>NO<sub>5</sub>P

M.W. : 269.19 g/mole

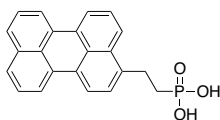
**LT-S8003** |

(2-(Perylen-3-yl)ethyl)phosphonic acid

Grade : &gt;98%

Formula : C<sub>22</sub>H<sub>17</sub>O<sub>3</sub>P

M.W. : 360.34 g/mole

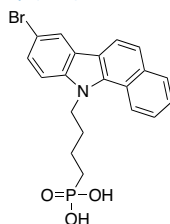
**LT-S8004** | BrBACz

(4-(8-Bromo-11H-benzo[a]carbazol-11-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula : C<sub>20</sub>H<sub>19</sub>BrNO<sub>3</sub>P

M.W. : 432.25 g/mole

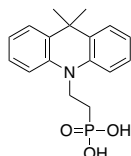
**LT-S8005** | 2PADmA

[2-(9,10-dihydro-9,9-dimethylacridine-10-yl)ethyl]phosphonic acid

Grade : &gt;98%

Formula : C<sub>17</sub>H<sub>20</sub>NO<sub>3</sub>P

M.W. : 317.32 g/mole

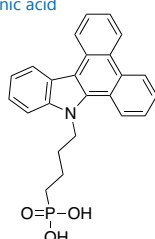
**LT-S8006** | A-4PADCB

(4-(9H-dibenzo[a,c]carbazol-9-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula : C<sub>24</sub>H<sub>22</sub>NO<sub>3</sub>P

M.W. : 403.41 g/mole

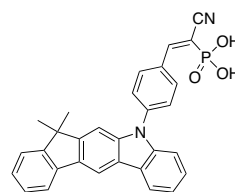
**LT-S8007** | XS10

(1-Cyano-2-(4-(7,7-dimethylindeno[2-[2,1-b]carbazol-5(7H)-yl)phenyl]) (3-vinyl)phosphoric acid

Grade : &gt;98%

Formula : C<sub>30</sub>H<sub>23</sub>N<sub>2</sub>O<sub>3</sub>P

M.W. : 490.49 g/mole

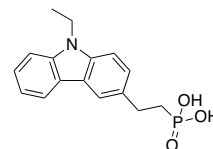
**LT-S8009** | EtCz3EPA

(2-(9-Ethyl-9H-carbazol-3-yl)ethyl)phosphonic acid

Grade : &gt;98%

Formula : C<sub>16</sub>H<sub>18</sub>NO<sub>3</sub>P

M.W. : 303.29 g/mole

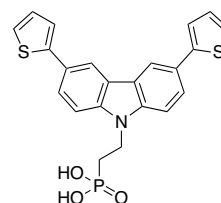
**LT-S8012** | S-2PACz

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

Grade : &gt;98%

Formula : C<sub>22</sub>H<sub>18</sub>NO<sub>3</sub>PS<sub>2</sub>

M.W. : 439.49 g/mole

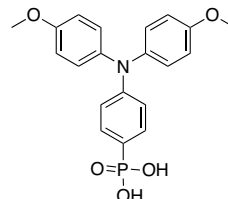
**LT-S8015** | PA

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

Grade : &gt;98%

Formula : C<sub>20</sub>H<sub>20</sub>NO<sub>3</sub>P

M.W. : 385.35 g/mole

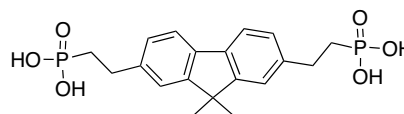
**LT-S8017** |

((9,9-Dimethyl-9H-fluorene-2,7-diyl)bis(ethane-2,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula : C<sub>19</sub>H<sub>24</sub>O<sub>6</sub>P<sub>2</sub>

M.W. : 410.34 g/mole

**LT-S8021** | 4PAPyr

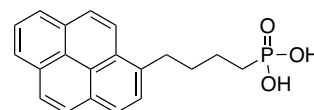
(4-(Pyren-1-yl)butyl)phosphonic acid

CAS No. : 1801779-71-4

Grade : &gt;98%

Formula : C<sub>20</sub>H<sub>19</sub>O<sub>3</sub>P

M.W. : 338.34 g/mole



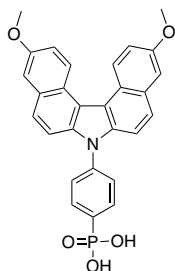
**LT-S8023** | MeO-PPADBC

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

Grade : &gt;98%

Formula :  $C_{28}H_{22}NO_5P$ 

M.W. : 483.45 g/mole

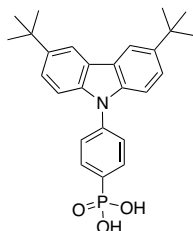
**LT-S8024** |

(4-(3,6-Di-tert-butyl-9H-carbazol-9-yl)phenyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{26}H_{30}NO_3P$ 

M.W. : 435.5 g/mole

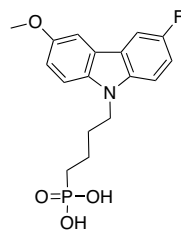
**LT-S8025** | MeOF-4PACz

(4-(3-Fluoro-6-methoxy-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{17}H_{19}FNO_4P$ 

M.W. : 351.31 g/mole

**LT-S8030** | FTPATC

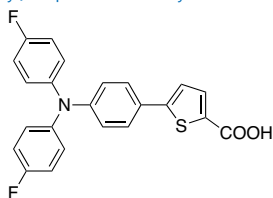
5-[4-[Bis(4-fluorophenyl)amino]phenyl]thiophene-2-carboxylic acid

Grade : &gt;98%

Formula :  $C_{23}H_{15}F_2NO_2S$ 

M.W. : 407.43 g/mole

UV : 365 nm (in THF)

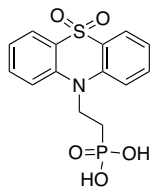
**LT-S8031** | PAPzO

(2-(5,5-Dioxido-10H-phenothiazin-10-yl)ethyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{14}H_{14}NO_5PS$ 

M.W. : 339.3 g/mole

**LT-S8032** | 4PA-spiro

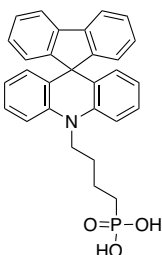
(4-(10H-spiro[acridine-9,9'-fluoren]-10-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{29}H_{26}NO_3P$ 

M.W. : 467.5 g/mole

UV : 343 nm (in DMF)

**LT-S8036** | PTZ-PA

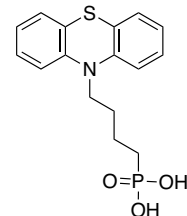
(4-(10H-phenothiazin-10-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{16}H_{18}NO_3PS$ 

M.W. : 335.36 g/mole

UV : 338 nm (film)

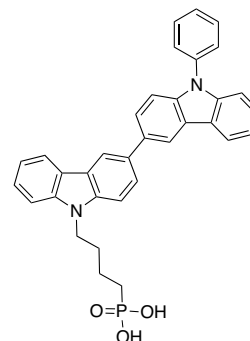
**LT-S8040** | 4PABCz

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

Grade : &gt;98%

Formula :  $C_{34}H_{29}N_2O_3P$ 

M.W. : 544.58 g/mole

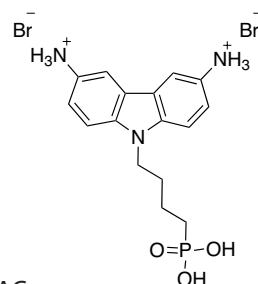
**LT-S8041** | BrNH3-4PACz

[4-(3,6-Bis-(bromoammonium)-9H-carbazol-9-yl)butyl] phosphonic acid

Grade : &gt;98%

Formula :  $C_{16}H_{22}Br_2N_3O_3P$ 

M.W. : 495.15 g/mole

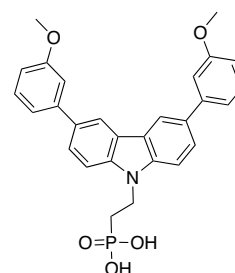
**LT-S8042** | m-PhPACz

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

Grade : &gt;98%

Formula :  $C_{28}H_{26}NO_5P$ 

M.W. : 487.48 g/mole

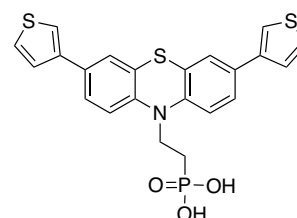
**LT-S8043** | Th-2EPT

{2-[3,7-Di(thiophen-3-yl)-10H-phenothiazin-10-yl]ethyl}phosphonic acid

Grade : &gt;98%

Formula :  $C_{22}H_{18}NO_3PS_3$ 

M.W. : 471.55 g/mole



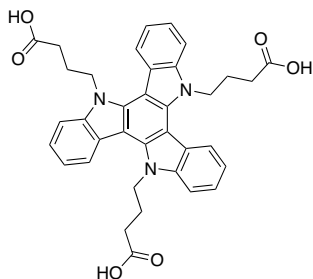
**LT-S8047** | 3CATAT-C3

(5H-Diindolo[3,2-a:3',2'-c]carbazole-5,10,15-triyl)tributanoic acid

Grade : &gt;98%

Formula :  $C_{36}H_{33}N_3O_6$ 

M.W. : 603.66 g/mole

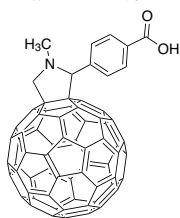
**LT-S9161** |  $C_{60}$ -COOH-SAM4-(1',5'-Dihydro-1'-methyl-2'-H-[5,6]fullereno- $C_{60}$ -1h-[1,9-c]-pyrrol-2'-yl) benzoic acid

CAS No. : 631918-72-4

Grade : &gt;99%

Formula :  $C_{70}H_{11}NO_2$ 

M.W. : 897.84 g/mole

UV : 345 nm (in  $CH_2Cl_2$ )**LT-S9557** | Me-4PACz

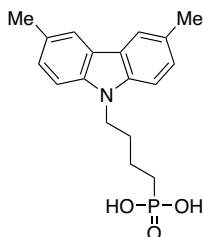
(4-(3,6-Dimethyl-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2747959-96-0,

Grade : &gt;99%

Formula :  $C_{18}H_{22}NO_3P$ 

M.W. : 331.35 g/mole

**LT-S9566** | 2PACz

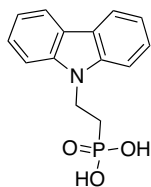
(2-(9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 20999-38-6

Grade : &gt;99%

Formula :  $C_{14}H_{14}NO_3P$ 

M.W. : 275.24 g/mole

**LT-S9567** | 4PACz

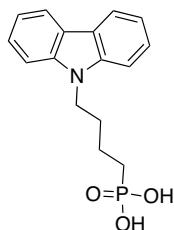
(4-(9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 20999-36-4

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_3P$ 

M.W. : 303.29 g/mole

**LT-S9568** | 6PACz

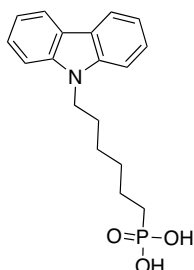
(6-(9H-carbazol-9-yl)hexyl)phosphonic acid

CAS No. : 3015516-21-6

Grade : &gt;99%

Formula :  $C_{18}H_{22}NO_3P$ 

M.W. : 331.35 g/mole

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

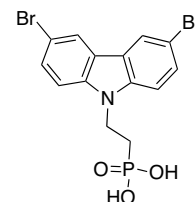
(2-(3,6-Dibromo-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 2762888-11-7

Grade : &gt;99%

Formula :  $C_{14}H_{12}Br_2NO_3P$ 

M.W. : 433.03 g/mole

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

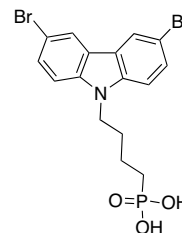
(4-(3,6-Dibromo-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2996161-28-3

Grade : &gt;99%

Formula :  $C_{16}H_{16}Br_2NO_3P$ 

M.W. : 461.08 g/mole

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

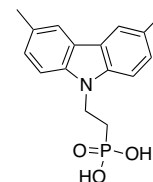
(2-(3,6-Dimethyl-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 2996161-30-7

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_3P$ 

M.W. : 303.29 g/mole

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

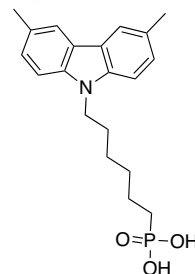
(6-(3,6-Dimethyl-9H-carbazol-9-yl)hexyl)phosphonic acid

CAS No. : 2996161-29-4

Grade : &gt;99%

Formula :  $C_{20}H_{26}NO_3P$ 

M.W. : 359.4 g/mole

**LT-S9573** | MeO-2PACz

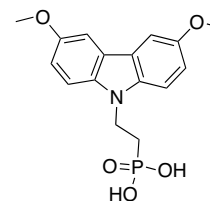
(2-(3,6-Dimethoxy-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 2377770-18-6

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_5P$ 

M.W. : 335.29 g/mole

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

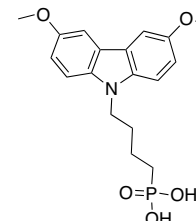
(4-(3,6-Dimethoxy-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2922526-56-3

Grade : &gt;99%

Formula :  $C_{18}H_{22}NO_5P$ 

M.W. : 363.34 g/mole



**LT-S9583** | EADR03

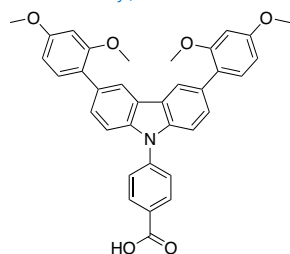
4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)benzoic acid

CAS No. : 2918298-65-2

Grade : &gt;99%

Formula :  $C_{35}H_{29}NO_6$ 

M.W. : 559.61 g/mole

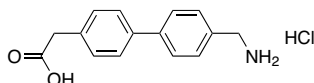
**LT-S9647** |

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

Grade : &gt;99%

Formula :  $C_{15}H_{16}ClNO_2$ 

M.W. : 277.75 g/mole

**LT-S9648** | 3PACz

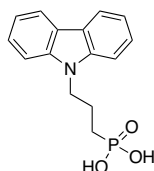
(3-(9H-carbazol-9-yl)propyl)phosphonic acid

CAS No. : 915376-57-7

Grade : &gt;99%

Formula :  $C_{15}H_{16}NO_3P$ 

M.W. : 289.27 g/mole

**LT-S9650** | LS1

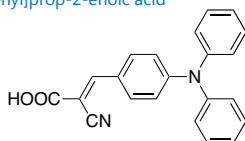
2-Cyano-3-[4-(N-phenylanilino)phenyl]prop-2-enoic acid

CAS No. : 30388-31-9

Grade : &gt;99%

Formula :  $C_{22}H_{16}N_2O_2$ 

M.W. : 340.37 g/mole

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

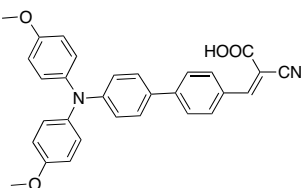
(Z)-3-(4'-(Bis(4-methoxyphenyl)amino)-[1,1'-biphenyl]-4-yl)-2-cyanoacrylic acid

CAS No. : 1813558-55-2

Grade : &gt;99%

Formula :  $C_{30}H_{24}N_2O_4$ 

M.W. : 476.52 g/mole

**LT-S9673** | CI-2PACz

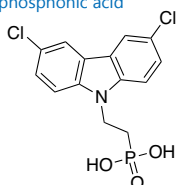
(2-(3,6-Dichloro-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 3036926-72-1

Grade : &gt;99%

Formula :  $C_{14}H_{12}Cl_2NO_3P$ 

M.W. : 344.13 g/mole

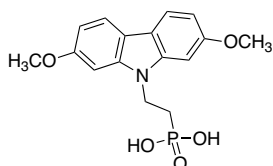
**LT-S9674** | DC-PA

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

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_5P$ 

M.W. : 335.29 g/mole

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

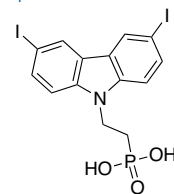
(2-(3,6-Diiodo-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 3026275-69-1

Grade : &gt;99%

Formula :  $C_{14}H_{12}I_2NO_3P$ 

M.W. : 527.03 g/mole

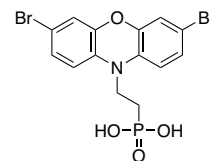
**LT-S9676** | Br-2EPO

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

Grade : &gt;99%

Formula :  $C_{14}H_{12}Br_2NO_3P$ 

M.W. : 449.03 g/mole

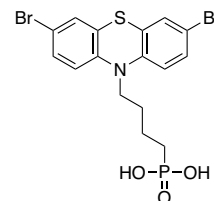
**LT-S9678** | 2BrPTZPA

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}Br_2NO_3PS$ 

M.W. : 493.15 g/mole

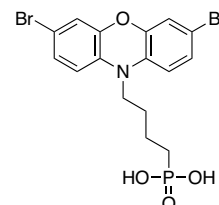
**LT-S9679** | 2BrPXZPA

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}Br_2NO_3P$ 

M.W. : 477.08 g/mole

**LT-S9727** | MPA-CPA

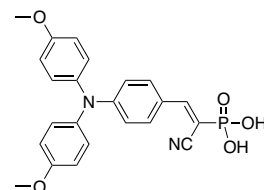
(2-(4-(Bis(4-methoxyphenyl)amino)phenyl)-1-cyanovinyl)phosphonic acid

CAS No. : 2212003-31-9

Grade : &gt;98%

Formula :  $C_{23}H_{21}N_2O_5P$ 

M.W. : 436.4 g/mole

**LT-S9737** | 3PATAT-C3

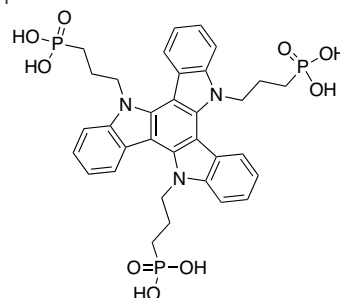
((5H-Diindolo[3,2-a:3',2'-c]carbazole-5,10,15-triyl)tris(propane-3,1-diyl)) triphosphonic acid

CAS No. : 3048690-10-1

Grade : &gt;98%

Formula :  $C_{33}H_{36}N_3O_9P_3$ 

M.W. : 711.57 g/mole



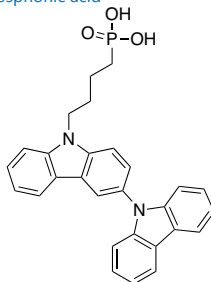
**LT-S9738** | 4,3BuPACz

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

Grade : &gt;98%

Formula :  $C_{28}H_{25}N_2O_3P$ 

M.W. : 468.48 g/mole

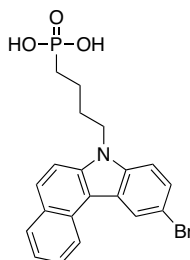
**LT-S9739** | BCBBR-C4PA

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

Grade : &gt;99%

Formula :  $C_{20}H_{13}BrNO_3P$ 

M.W. : 432.25 g/mole

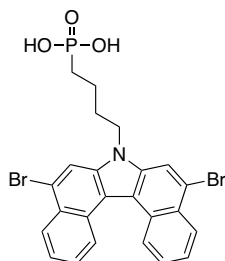
**LT-S9741** | DCB-BPA

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

Grade : &gt;99%

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

M.W. : 561.2 g/mole

**LT-S9747** | DMAcPA

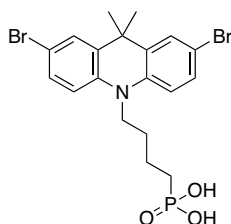
(4-(7-(4-(2,7-Dibromo-9,9-dimethylacridin-10(9H)-yl))phenyl)butyl)phosphonic acid

CAS No. : 2971088-37-4

Grade : &gt;98%

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

M.W. : 503.16 g/mole

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

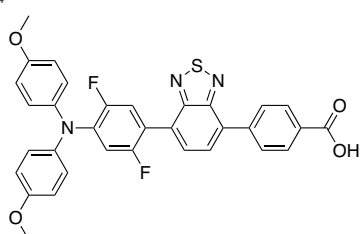
(4-(7-(4-(Bis(4-methoxyphenyl)amino)-2,5-difluorophenyl)benzo[c][1,2,5]thiadiazol-4-yl)benzoic acid

CAS No. : 2810129-96-3

Grade : &gt;98%

Formula :  $C_{33}H_{23}F_2N_3O_4S$ 

M.W. : 595.62 g/mole

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

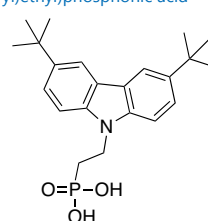
(2-(3,6-Di-tert-butyl-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 3053358-82-7

Grade : &gt;98%

Formula :  $C_{22}H_{30}NO_3P$ 

M.W. : 387.45 g/mole

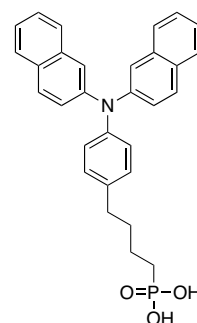
**LT-S9791**

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

Grade : &gt;98%

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

M.W. : 481.52 g/mole

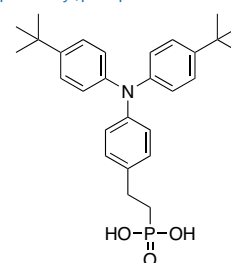
**LT-S9792**

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

Grade : &gt;98%

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

M.W. : 465.56 g/mole

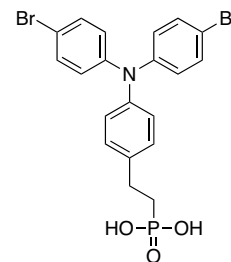
**LT-S9793**

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

Grade : &gt;98%

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

M.W. : 511.14 g/mole

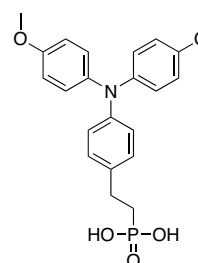
**LT-S9794**

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

Grade : &gt;98%

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

M.W. : 413.4 g/mole



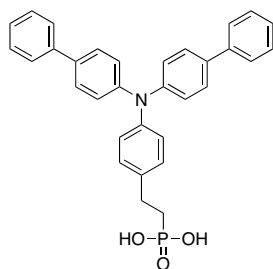
## LT-S9795

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

Grade : &gt;98%

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

M.W. : 505.54 g/mole



## LT-S9796

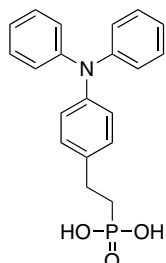
(4-(Diphenylamino)phenethyl)phosphonic acid

CAS No. : 3015516-16-9

Grade : &gt;98%

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

M.W. : 353.35 g/mole



## LT-S9797

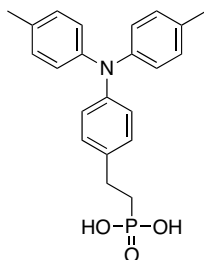
(4-(Di-p-tolylamino)phenethyl)phosphonic acid

CAS No. : 3036995-73-7

Grade : &gt;98%

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

M.W. : 381.4 g/mole



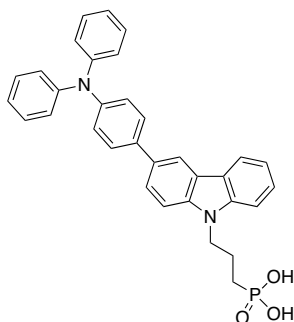
## LT-S9798 4dp3PACz

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

Grade : &gt;98%

Formula :  $C_{33}H_{29}N_2O_3P$ 

M.W. : 532.57 g/mole



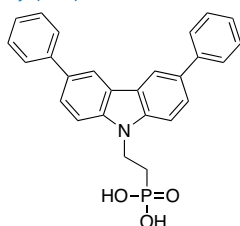
## LT-S9801 Ph-2PACz

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

Grade : &gt;99%

Formula :  $C_{26}H_{22}NO_3P$ 

M.W. : 427.43 g/mole



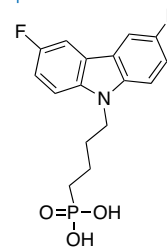
## LT-S9845 F-4PACz

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}F_2NO_3P$ 

M.W. : 339.27 g/mole



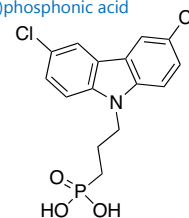
## LT-S9851 Cl-3PACz

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

Grade : &gt;99%

Formula :  $C_{15}H_{14}Cl_2NO_3P$ 

M.W. : 358.16 g/mole



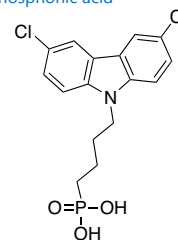
## LT-S9852 Cl-4PACz

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}Cl_2NO_3P$ 

M.W. : 372.18 g/mole



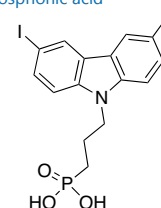
## LT-S9855 I-3PACz

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

Grade : &gt;99%

Formula :  $C_{15}H_{14}I_2NO_3P$ 

M.W. : 541.06 g/mole



## LT-S9856 I-4PACz

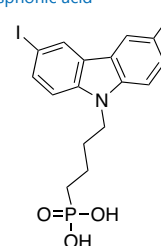
(4-(3,6-Diiodo-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 3026275-67-9

Grade : &gt;99%

Formula :  $C_{16}H_{16}I_2NO_3P$ 

M.W. : 555.09 g/mole



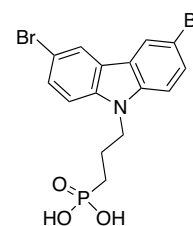
## LT-S9857 Br-3PACz

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

Grade : &gt;99%

Formula :  $C_{15}H_{14}Br_2NO_3P$ 

M.W. : 447.06 g/mole



**LT-S9859** | Br-4PADBC

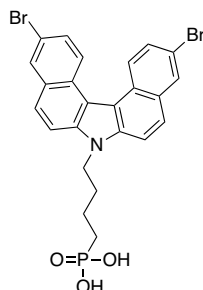
(4-(3,11-Dibromo-7H-dibenzo[c,g]carbazol-7-yl)butyl)phosphonic acid

CAS No. : 3023557-25-4

Grade : &gt;98%

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

M.W. : 561.2 g/mole

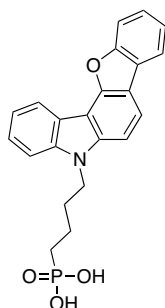
**LT-S9860** | CbzBF

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

Grade : &gt;98%

Formula :  $C_{22}H_{20}NO_4P$ 

M.W. : 393.37 g/mole

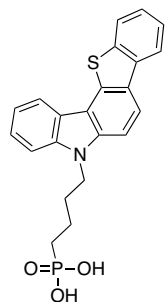
**LT-S9861** | CbzBT

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

Grade : &gt;98%

Formula :  $C_{22}H_{20}NO_3PS$ 

M.W. : 409.44 g/mole

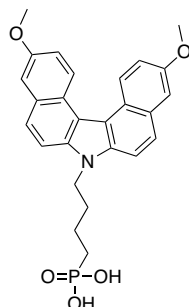
**LT-S9862** | MeO-4PADBC

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

Grade : &gt;98%

Formula :  $C_{26}H_{26}NO_5P$ 

M.W. : 463.46 g/mole

**LT-S9863** | 9CAA

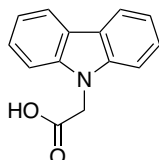
2-(9H-Carbazol-9-yl)acetic acid

CAS No. : 524-80-1

Grade : &gt;98%

Formula :  $C_{14}H_{11}NO_2$ 

M.W. : 225.24 g/mole

**LT-S9864** | 9CPA

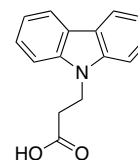
3-(9H-Carbazol-9-yl)propanoic acid

CAS No. : 6622-54-4

Grade : &gt;98%

Formula :  $C_{15}H_{13}NO_2$ 

M.W. : 239.27 g/mole

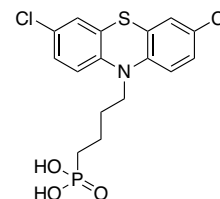
**LT-S9867** | TDPA-Cl

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

Grade : &gt;98%

Formula :  $C_{16}H_{16}Cl_2NO_3PS$ 

M.W. : 404.25 g/mole

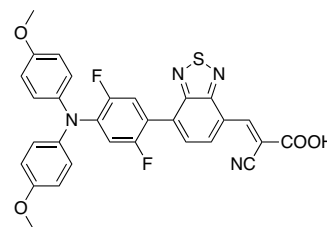
**LT-S9870** | 2FMFA-BT-CA

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

Grade : &gt;98%

Formula :  $C_{30}H_{20}F_2N_4O_4S$ 

M.W. : 570.57 g/mole

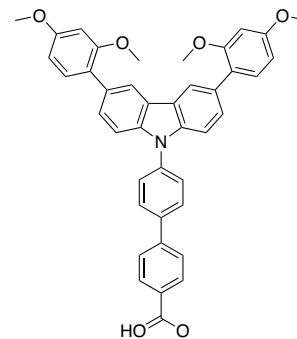
**LT-S9872** | EADR04

4'-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)-[1,1'-biphenyl]-4-carboxylic acid

Grade : &gt;98%

Formula :  $C_{41}H_{33}NO_6$ 

M.W. : 635.7 g/mole

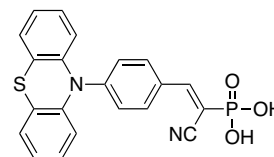
**LT-S9874** | PTZ-CPA

(E)-(2-(4-(10H-phenothiazin-10-yl)phenyl)-1-cyanovinyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{21}H_{15}N_2O_3PS$ 

M.W. : 406.39 g/mole



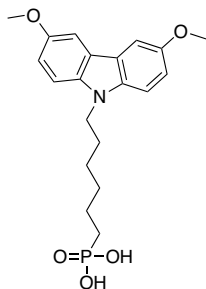
**LT-S9875** | MeO-6PACz

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

Grade : &gt;99%

Formula :  $C_{20}H_{26}NO_3P$ 

M.W. : 391.4 g/mole

**LT-S9876** | tBu-4PACz

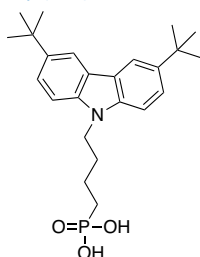
(4-(3,6-Di-tert-butyl-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 3023627-39-3

Grade : &gt;99%

Formula :  $C_{24}H_{34}NO_3P$ 

M.W. : 415.51 g/mole

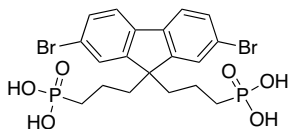
**LT-S9889**

((2,7-Dibromo-9H-fluorene-9,9-diyl)bis(propane-3,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula :  $C_{19}H_{22}Br_2O_6P_2$ 

M.W. : 568.13 g/mole

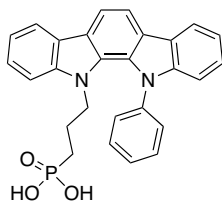
**LT-S9896**

(3-(12-Phenylindolo[2,3-a]carbazol-11(12H)-yl)propyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{27}H_{23}N_2O_3P$ 

M.W. : 454.46 g/mole

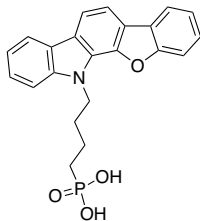
**LT-S9897**

(4-(12H-benzofuro[2,3-a]carbazol-12-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{22}H_{20}NO_4P$ 

M.W. : 393.37 g/mole

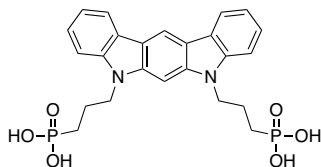
**LT-S9898** | IDCz-3

(Indolo[2,3-b]carbazole-5,7-diylbis(propane-3,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula :  $C_{24}H_{26}N_2O_6P_2$ 

M.W. : 500.42 g/mole

**LT-S9899** | 3-BPIC(i)

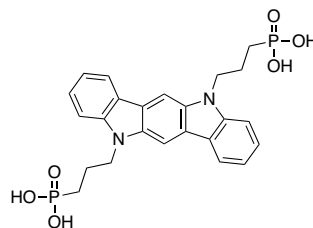
(Indolo[3,2-b]carbazole-5,11-diylbis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3044727-02-5

Grade : &gt;98%

Formula :  $C_{24}H_{26}N_2O_6P_2$ 

M.W. : 500.42 g/mole

**LT-S9900** | 3-BPIC

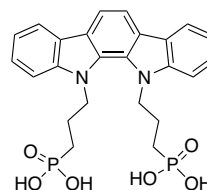
(Indolo[2,3-a]carbazole-11,12-diylbis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-49-9

Grade : &gt;98%

Formula :  $C_{24}H_{26}N_2O_6P_2$ 

M.W. : 500.42 g/mole

**LT-S9901** | 3-BPIC-Br

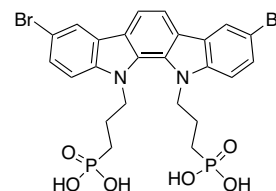
((3,8-Dibromoindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-52-4

Grade : &gt;98%

Formula :  $C_{24}H_{24}Br_2N_2O_6P_2$ 

M.W. : 658.21 g/mole

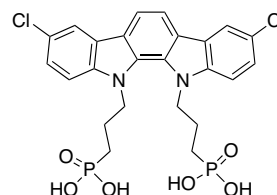
**LT-S9902** | 3-BPIC-Cl

((3,8-Dichloroindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula :  $C_{24}H_{24}Cl_2N_2O_6P_2$ 

M.W. : 569.31 g/mole

**LT-S9903** | 3-BPIC-F

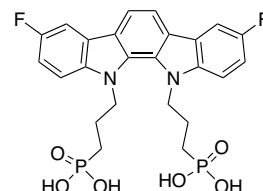
((3,8-Difluoroindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-50-2

Grade : &gt;98%

Formula :  $C_{24}H_{24}F_2N_2O_6P_2$ 

M.W. : 536.4 g/mole

**LT-S9904** | 3-BPIC-OMe

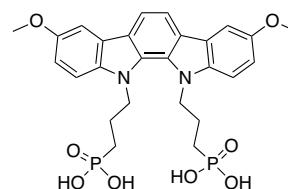
((3,8-Dimethoxyindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-54-6

Grade : &gt;98%

Formula :  $C_{26}H_{30}N_2O_8P_2$ 

M.W. : 560.47 g/mole



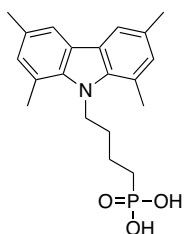
## LT-S9905

(4-(1,3,6,8-Tetramethyl-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{20}H_{26}NO_3P$ 

M.W. : 359.4 g/mole



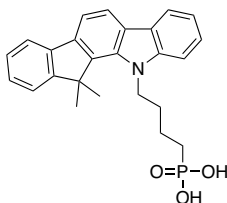
## LT-S9906

(4-(12,12-Dimethylindeno[2,1-a]carbazol-11(12H)-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{25}H_{26}NO_3P$ 

M.W. : 419.45 g/mole



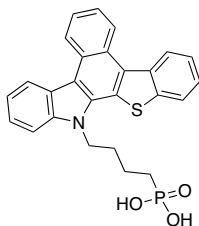
## LT-S9907

(4-(14H-benzo[c]benzo[4,5]thieno[2,3-a]carbazol-14-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{26}H_{22}NO_3PS$ 

M.W. : 459.5 g/mole



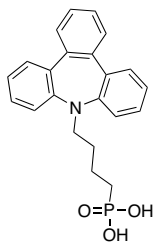
## LT-S9908

(4-(9H-tribenzo[b,d,f]azepin-9-yl)butyl)phosphonic acid

Grade : &gt;98%

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

M.W. : 379.39 g/mole



## LT-S9909 Me-PhpPACz

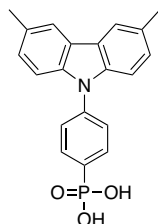
(4-(3,6-Dimethyl-9H-carbazol-9-yl)phenyl)phosphonic acid

CAS No. : 3046309-16-1

Grade : &gt;98%

Formula :  $C_{20}H_{18}NO_3P$ 

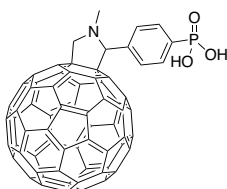
M.W. : 351.34 g/mole



## LT-S9966 C60-PA, CPPA, C60-C6-PA

(4-(1',5'-Dihydro-1'-methyl-2'-H-[5,6]fullereno-C<sub>60</sub>-1h-[1,9-c]pyrrol-2'-yl)phenyl)phosphonic acidFormula :  $C_{69}H_{11}NO_3P$ 

M.W. : 932.8 g/mole



## LT-S9998 Py3

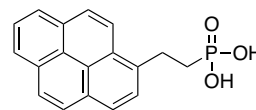
(2-(Pyren-1-yl)ethyl)phosphonic acid

CAS No. : 1520027-62-6

Grade : &gt;99%

Formula :  $C_{18}H_{15}O_3P$ 

M.W. : 310.28 g/mole



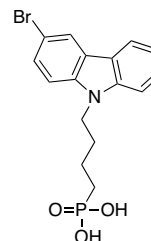
## LT-S9999 BrCz

(4-(3-Bromo-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{16}H_{11}BrNO_3P$ 

M.W. : 382.19 g/mole



## B1361 MTPA-BA

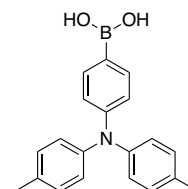
(4-(Di-p-tolylamino)phenyl)boronic acid

CAS No. : 654067-65-9

Grade : &gt;97%

Formula :  $C_{20}H_{26}BNO_2$ 

M.W. : 317.2 g/mole



## LT-MOF0111 NA

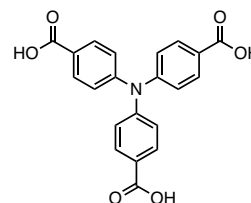
4,4',4''-Nitrilotribenzoic acid

CAS No. : 118996-38-6

Grade : &gt;98%

Formula :  $C_{21}H_{15}NO_6$ 

M.W. : 377.35 g/mole



## LT-MOF0163 CB-PA

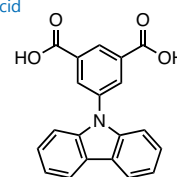
5-carbazol-9-ylbenzene-1,3-dicarboxylic acid

CAS No. : 1800465-14-8

Grade : &gt;98%

Formula :  $C_{20}H_{13}NO_4$ 

M.W. : 331.32 g/mole



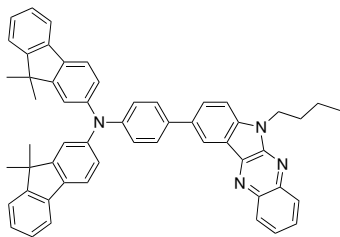
**LT-S9934** | IQTPAFlu

N-(4-(6-Butyl-6H-indolo[2,3-b]quinoxalin-9-yl)phenyl)-N-(9,9-dimethyl-9H-fluoren-2-yl)-9,9-dimethyl-9H-fluoren-2-amine

Grade : >99%

Formula :  $C_{54}H_{46}N_4$

M.W. : 750.97 g/mole

**LT-S9935** | MPA

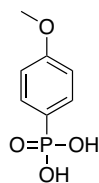
4-Methoxyphenylphosphonic acid

CAS No. : 21778-19-8

Grade : >95%

Formula :  $C_7H_9O_4P$

M.W. : 188.12 g/mole

**LT-S9936** | Pyr-TPA

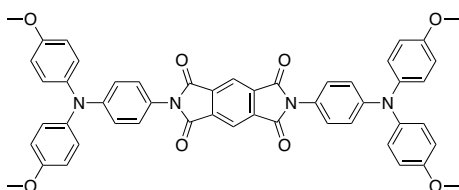
2,6-Bis(4-(bis(4-methoxyphenyl) amino)phenyl)pyrrolo[3,4-f]isoindole-1,3,5,7(2H,6H)-tetraone

Grade : Sublimed >99%

Formula :  $C_{50}H_{38}N_4O_8$

M.W. : 822.86 g/mole

UV : 300 nm (in DCM)

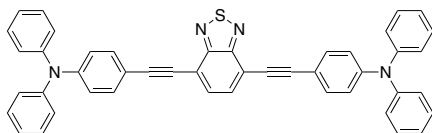
**LT-S9938** | TBT

4,4'-(Benzo[c][1,2,5]thiadiazole-4,7-diylbis(ethyne-2,1-diyl))bis(N,N-diphenylaniline)

Grade : >99%

Formula :  $C_{46}H_{30}N_4S$

M.W. : 670.82 g/mole

**LT-S9939** | ThPCyAc

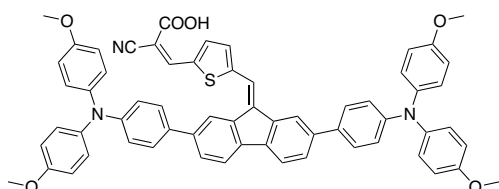
(Z)-3-(5-((2,7-Bis(4-(bis(4-methoxyphenyl)amino)phenyl)-9H-fluoren-9-ylidene)methyl)thiophen-2-yl)-2-cyanoacrylic acid

Grade : >98%

Formula :  $C_{62}H_{47}N_3O_6S$

M.W. : 962.12 g/mole

UV : 391 nm (film)



**LT-PM2050** | DGACl

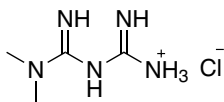
Metformin hydrochloride

CAS No. : 1115-70-4

Grade : &gt;97%

Formula :  $C_4H_{12}ClN_5$ 

M.W. : 165.62 g/mole

**LT-S8001** | MDACl2

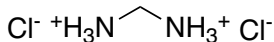
Methylenediammonium dichloride

CAS No. : 57166-92-4

Grade : &gt;98%

Formula :  $CH_6Cl_2N_2$ 

M.W. : 118.99 g/mole

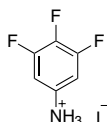
**LT-S8008** | 345FAn

3,4,5-Trifluoroanilinium iodide

Grade : &gt;99%

Formula :  $C_6H_3F_3IN$ 

M.W. : 275.01 g/mole

**LT-S8010** | AAH

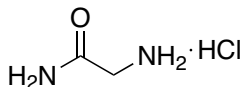
Glycinamide hydrochloride

CAS No. : 1668-10-6

Grade : &gt;99.5%

Formula :  $C_2H_7ClN_2O$ 

M.W. : 110.54 g/mole

**LT-S8013** |

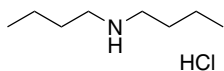
Dibutylamine hydrochloride

CAS No. : 6287-40-7

Grade : &gt;98%

Formula :  $C_8H_{20}ClIN$ 

M.W. : 165.7 g/mole

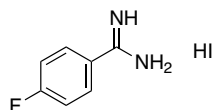
**LT-S8029** | 4FBII

4-Fluorobenzimidamide hydroiodide

Grade : &gt;99%

Formula :  $C_7H_8FIN_2$ 

M.W. : 266.05 g/mole

**LT-S8034** | METEAM

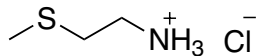
2-((Methylthio)ethyl)amine hydrochloride

CAS No. : 6950-53-4

Grade : &gt;99%

Formula :  $C_3H_{10}ClINS$ 

M.W. : 127.64 g/mole

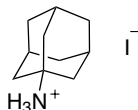
**LT-S8035** | ADAI

1-Adamantanamine hydroiodide

Grade : &gt;99%

Formula :  $C_{10}H_{18}IN$ 

M.W. : 279.16 g/mole

**LT-S8037** | HAI

Hydrazine ammonium iodide

Grade : &gt;99%

Formula :  $H_5IN_2$ 

M.W. : 159.96 g/mole

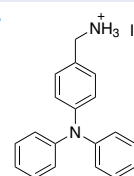
**LT-S8044** | TPAI

4-(Aminomethyl)-N,N-diphenylaniline iodide

Grade : &gt;99%

Formula :  $C_{19}H_{19}IN_2$ 

M.W. : 402.27 g/mole

**LT-S9126** | MAI

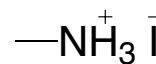
Methylammonium iodide

CAS No. : 14965-49-2

Grade : &gt;99.5%

Formula :  $CH_5IN$ 

M.W. : 158.97 g/mole

**LT-S9136** | FAI

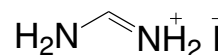
Formamidinium iodide

CAS No. : 879643-71-7

Grade : &gt;99.5%

Formula :  $CH_3IN_2$ 

M.W. : 171.97 g/mole

**LT-S9137** | MABr

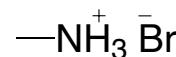
Methylammonium bromide

CAS No. : 6876-37-5

Grade : &gt;99.5%

Formula :  $CH_5BrN$ 

M.W. : 111.97 g/mole

**LT-S9147** | PbI2

Lead(II) iodide

CAS No. : 10101-63-0

Grade : 99.999% (trace metals basis)

Formula :  $PbI_2$ 

M.W. : 461.01 g/mole

**LT-S9148** | PbCl2

Lead(II) chloride

CAS No. : 7758-95-4

Grade : 99.999% (trace metals basis)

Formula :  $PbCl_2$ 

M.W. : 278.11 g/mole

**LT-S9151** | MACl

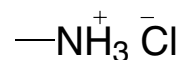
Methylammonium chloride

CAS No. : 593-51-1

Grade : &gt;99.5%

Formula :  $CH_5ClN$ 

M.W. : 67.52 g/mole

**LT-S9152** | PbBr2

Lead(II) bromide

CAS No. : 10031-22-8

Grade : 99.999% trace metals basis

Formula :  $PbBr_2$ 

M.W. : 367.01 g/mole

**LT-S9206** | 4-Methoxyphenylammonium iodide

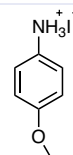
4-Methoxyphenylammonium iodide

CAS No. : 131923-87-0

Grade : &gt;99.5%

Formula :  $C_7H_{10}INO$ 

M.W. : 251.06 g/mole



**LT-S9207** Diisopropylammonium iodide

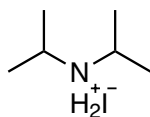
Diisopropylammonium iodide

CAS No. : 132396-99-1

Grade : &gt;99.5%

Formula :  $C_6H_{16}IN$ 

M.W. : 229.1 g/mole

**LT-S9208** Hexylammonium iodide

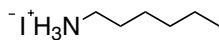
Hexylammonium iodide

CAS No. : 54285-91-5

Grade : &gt;99.5%

Formula :  $C_6H_{16}IN$ 

M.W. : 229.1 g/mole

**LT-S9217** Piperazine-1,4-dium bromide

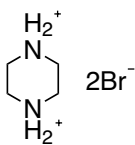
Piperazine-1,4-dium bromide

CAS No. : 59813-05-7

Grade : &gt;99.5%

Formula :  $C_4H_{12}Br_2N_2$ 

M.W. : 247.96 g/mole

**LT-S9218** Piperazine-1,4-dium iodide

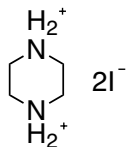
Piperazine-1,4-dium iodide

CAS No. : 58464-47-4

Grade : &gt;99% (NMR &amp; EA)

Formula :  $C_4H_{12}I_2N_2$ 

M.W. : 341.96 g/mole

**LT-S9219** Piperazine-1,4-dium chloride

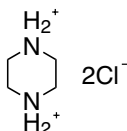
Piperazine-1,4-dium chloride

CAS No. : 142-64-3

Grade : &gt;99.5%

Formula :  $C_4H_{12}Cl_2N_2$ 

M.W. : 159.06 g/mole

**LT-S9220** Acetamidinium iodide

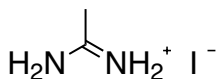
Acetamidinium iodide

CAS No. : 1452099-14-7

Grade : &gt;99.5%

Formula :  $C_2H_7IN_2$ 

M.W. : 185.99 g/mole

**LT-S9224** 1,4-Benzene diammonium iodide

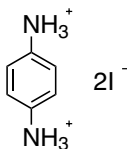
1,4-Benzene diammonium iodide

CAS No. : 116469-02-4

Grade : &gt;99.5%

Formula :  $C_6H_{10}I_2N_2$ 

M.W. : 363.97 g/mole

**LT-S9225** Benzylammonium bromide

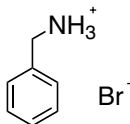
Benzylammonium bromide

CAS No. : 37488-40-7

Grade : &gt;99.5%

Formula :  $C_7H_{10}BrN$ 

M.W. : 188.06 g/mole

**LT-S9226** Benzylammonium iodide

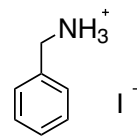
Benzylammonium iodide

CAS No. : 45579-91-7

Grade : &gt;99.5%

Formula :  $C_7H_{10}IN$ 

M.W. : 235.07 g/mole

**LT-S9227** t-Butylammonium bromide

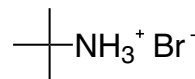
t-Butylammonium bromide

CAS No. : 60469-70-7

Grade : &gt;99.5%

Formula :  $C_4H_{12}BrN$ 

M.W. : 154.05 g/mole

**LT-S9228** t-Butylammonium iodide

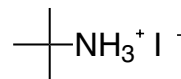
t-Butylammonium iodide

CAS No. : 39557-45-4

Grade : &gt;99.5%

Formula :  $C_4H_{12}IN$ 

M.W. : 201.05 g/mole

**LT-S9229** n-Butylammonium bromide

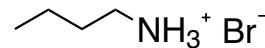
n-Butylammonium bromide

CAS No. : 15567-09-6

Grade : &gt;99.5%

Formula :  $C_4H_{12}BrN$ 

M.W. : 154.05 g/mole

**LT-S9230** iso-Butylammonium bromide

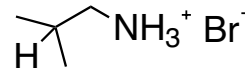
iso-Butylammonium bromide

CAS No. : 74098-36-5

Grade : &gt;99.5%

Formula :  $C_4H_{12}BrN$ 

M.W. : 154.05 g/mole

**LT-S9231** Diethylammonium bromide

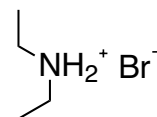
Diethylammonium bromide

CAS No. : 6274-12-0

Grade : &gt;99.5%

Formula :  $C_4H_{12}BrN$ 

M.W. : 154.05 g/mole

**LT-S9232** Diethylammonium iodide

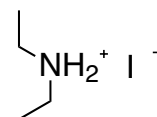
Diethylammonium iodide

CAS No. : 19833-78-4

Grade : &gt;99.5%

Formula :  $C_4H_{12}IN$ 

M.W. : 201.05 g/mole

**LT-S9233** Dimethylammonium bromide

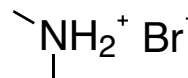
Dimethylammonium bromide

CAS No. : 6912/12/5

Grade : &gt;99.5%

Formula :  $C_2H_8BrN$ 

M.W. : 126 g/mole



**LT-S9234** | Dimethylammonium iodide

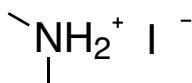
Dimethylammonium iodide

CAS No. : 51066-74-1

Grade : &gt;99.5%

Formula :  $C_2H_8IN$ 

M.W. : 173 g/mole

**LT-S9235** | EDAI

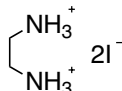
Ethane-1,2-diammonium iodide

CAS No. : 5700-49-2

Grade : &gt;99.5%

Formula :  $C_2H_{10}I_2N_2$ 

M.W. : 315.92 g/mole

**LT-S9236** | Ethylammonium bromide

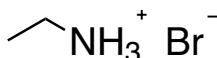
Ethylammonium bromide

CAS No. : 593-55-5

Grade : &gt;99.5%

Formula :  $C_2H_8BrN$ 

M.W. : 125.99 g/mole

**LT-S9237** | Ethylammonium iodide

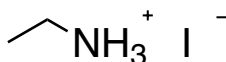
Ethylammonium iodide

CAS No. : 506-58-1

Grade : &gt;99.5%

Formula :  $C_2H_8IN$ 

M.W. : 173 g/mole

**LT-S9238** | FABr

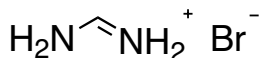
Formamidinium bromide

CAS No. : 146958-06-7

Grade : &gt;99.5%

Formula :  $CH_3BF_4N_2$ 

M.W. : 124.97 g/mole

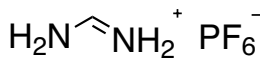
**LT-S9239** | Formamidinium hexafluorophosphate

Formamidinium hexafluorophosphate

Grade : &gt;99.5%

Formula :  $CH_3F_6N_2P$ 

M.W. : 190.03 g/mole

**LT-S9240** | Formamidinium tetrafluoroborate

Formamidinium tetrafluoroborate

CAS No. : 2607106-18-1

Grade : &gt;99.5%

Formula :  $CH_3BF_4N_2$ 

M.W. : 131.87 g/mole

**LT-S9241** | Guanidinium bromide

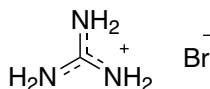
Guanidinium bromide

CAS No. : 19244-98-5

Grade : &gt;99.5%

Formula :  $CH_6BrN_3$ 

M.W. : 139.98 g/mole

**LT-S9242** | Guanidinium iodide

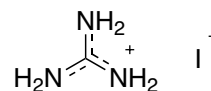
Guanidinium iodide

CAS No. : 19227-70-4

Grade : &gt;99.5%

Formula :  $CH_6IN_3$ 

M.W. : 186.98 g/mole

**LT-S9243** | Imidazolium bromide

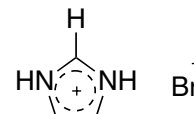
Imidazolium bromide

CAS No. : 101023-55-6

Grade : &gt;99.5%

Formula :  $C_3H_5BrN_2$ 

M.W. : 148.99 g/mole

**LT-S9244** | Imidazolium iodide

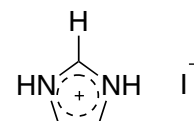
Imidazolium iodide

CAS No. : 68007-08-9

Grade : &gt;99.5%

Formula :  $C_3H_5IN_2$ 

M.W. : 195.99 g/mole

**LT-S9245** | Methylammonium hexafluorophosphate

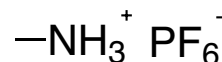
Methylammonium hexafluorophosphate

CAS No. : 28302-50-3

Grade : &gt;99.5%

Formula :  $CH_6PF_6N$ 

M.W. : 177.03 g/mole

**LT-S9246** | Methylammonium tetrafluoroborate

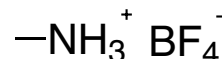
Methylammonium tetrafluoroborate

CAS No. : 42539-74-2

Grade : &gt;99.5%

Formula :  $CH_6BF_4N$ 

M.W. : 118.87 g/mole

**LT-S9247** | n-Octylammonium bromide

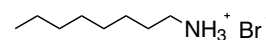
n-Octylammonium bromide

CAS No. : 14846-47-0

Grade : &gt;99.5%

Formula :  $C_8H_{20}BrN$ 

M.W. : 210.16 g/mole

**LT-S9248** | n-Octylammonium chloride

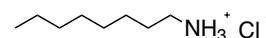
n-Octylammonium chloride

CAS No. : 142-95-0

Grade : &gt;99.5%

Formula :  $C_8H_{20}ClN$ 

M.W. : 165.7 g/mole

**LT-S9249** | n-Octylammonium iodide

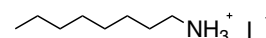
n-Octylammonium iodide

CAS No. : 60734-63-6

Grade : &gt;99.5%

Formula :  $C_8H_{20}IN$ 

M.W. : 257.16 g/mole



**LT-S9250** Phenethylammonium bromide

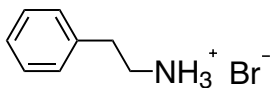
Phenethylammonium bromide

CAS No. : 53916-94-2

Grade : &gt;99.5%

Formula :  $C_8H_{12}BrN$ 

M.W. : 202.09 g/mole

**LT-S9251** Phenethylammonium iodide

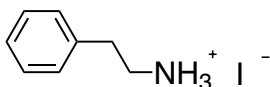
Phenethylammonium iodide

CAS No. : 151059-43-7

Grade : &gt;99.5%

Formula :  $C_8H_{12}IN$ 

M.W. : 249.09 g/mole

**LT-S9252** Phenylammonium bromide

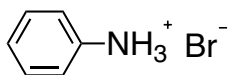
Phenylammonium bromide

CAS No. : 542-11-0

Grade : &gt;99.5%

Formula :  $C_6H_8BrN$ 

M.W. : 174.04 g/mole

**LT-S9253** Phenylammonium iodide

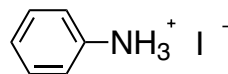
Phenylammonium iodide

CAS No. : 45497-73-2

Grade : &gt;99.5%

Formula :  $C_6H_8IN$ 

M.W. : 221.04 g/mole

**LT-S9254** 1,3-Diammoniumpropane bromide

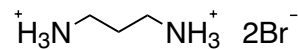
1,3-Diammoniumpropane bromide

CAS No. : 18773-03-0

Grade : &gt;99.5%

Formula :  $C_3H_{12}Br_2N_2$ 

M.W. : 235.95 g/mole

**LT-S9255** PDAI

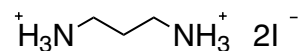
1,3-Diammoniumpropane iodide

CAS No. : 120675-53-8

Grade : &gt;99.5%

Formula :  $C_3H_{12}I_2N_2$ 

M.W. : 329.95 g/mole

**LT-S9256** n-Propylammonium iodide

n-Propylammonium iodide

CAS No. : 14488-45-0

Grade : &gt;99.5%

Formula :  $C_3H_{10}IN$ 

M.W. : 187.02 g/mole

**LT-S9257** iso-Propylammonium iodide

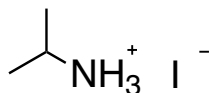
iso-Propylammonium iodide

CAS No. : 66735-20-4

Grade : &gt;99.5%

Formula :  $C_3H_{10}IN$ 

M.W. : 187.02 g/mole

**LT-S9258** Pyrrolidinium iodide

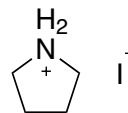
Pyrrolidinium iodide

CAS No. : 45361-12-4

Grade : &gt;99.5%

Formula :  $C_4H_{10}IN$ 

M.W. : 199.03 g/mole

**LT-S9286** 1-Naphthylmethylamine iodide

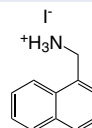
1-Naphthylmethylamine iodide

CAS No. : 256222-11-4

Grade : &gt;99.5%

Formula :  $C_{11}H_{12}IN$ 

M.W. : 285.12 g/mole

**LT-S9287** 1-Naphthylmethylamine bromide

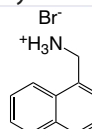
1-Naphthylmethylamine bromide

CAS No. : 217309-83-6

Grade : &gt;99.5%

Formula :  $C_{11}H_{12}BrN$ 

M.W. : 238.12 g/mole

**LT-S9300** Butane-1,4-diammonium iodide

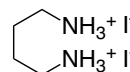
Butane-1,4-diammonium iodide

CAS No. : 916849-52-0

Grade : &gt;99%

Formula :  $C_4H_{14}I_2N_2$ 

M.W. : 343.98 g/mole

**LT-S9301** iso-Butylammonium iodide

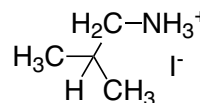
iso-Butylammonium iodide

CAS No. : 205508-75-4

Grade : &gt;99%

Formula :  $C_4H_{12}IN$ 

M.W. : 201.05 g/mole

**LT-S9302** Cyclohexylammonium iodide

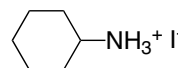
Cyclohexylammonium iodide

CAS No. : 45492-87-3

Grade : &gt;99%

Formula :  $C_6H_{14}IN$ 

M.W. : 227.09 g/mole

**LT-S9303** Cyclohexylmethylammonium iodide

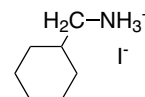
Cyclohexylmethylammonium iodide

CAS No. : 2153504-15-3

Grade : &gt;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

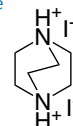
1,4-Diazabicyclo[2,2,2]octane-1,4-diium iodide

CAS No. : 33322-06-4

Grade : &gt;99%

Formula :  $C_6H_{14}I_2N_2$ 

M.W. : 368 g/mole



## Perovskite Precursors

**LT-S9305** | N,N-Dimethyl-1,2-ethanediammonium iodide

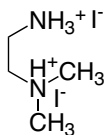
N,N-Dimethyl-1,2-ethanediammonium iodide

CAS No. : 244234-52-4

Grade : &gt;99%

Formula :  $C_4H_{14}I_2N_2$ 

M.W. : 343.98 g/mole

**LT-S9306** | N,N-Dimethyl-1,3-propanediammonium iodide

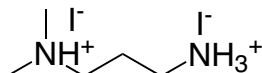
N,N-Dimethyl-1,3-propanediammonium iodide

CAS No. : 2561497-43-4

Grade : &gt;99%

Formula :  $C_5H_{16}I_2N_2$ 

M.W. : 358 g/mole

**LT-S9307** | n-Dodecylammonium iodide

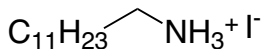
n-Dodecylammonium iodide

CAS No. : 34099-97-3

Grade : &gt;99%

Formula :  $C_{12}H_{28}IN$ 

M.W. : 313.26 g/mole

**LT-S9308** | 4-Fluoro-benzylammonium iodide

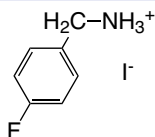
4-Fluoro-benzylammonium iodide

CAS No. : 2097121-30-5

Grade : &gt;99%

Formula :  $C_7H_9FIN$ 

M.W. : 253.06 g/mole

**LT-S9309** | 4-Fluoro-phenethylammonium iodide

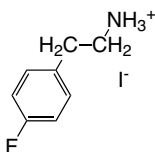
4-Fluoro-phenethylammonium iodide

CAS No. : 1413269-55-2

Grade : &gt;99%

Formula :  $C_8H_{11}FIN$ 

M.W. : 267.08 g/mole

**LT-S9311** | 4-Methoxy-phenethylammonium iodide

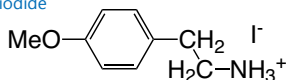
4-Methoxy-phenethylammonium iodide

CAS No. : 2588234-99-3

Grade : &gt;99%

Formula :  $C_9H_{14}INO$ 

M.W. : 279.12 g/mole

**LT-S9312** | tert-Octylammonium iodide

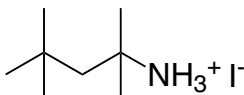
tert-Octylammonium iodide

CAS No. : 2733942-06-6

Grade : &gt;99%

Formula :  $C_8H_{20}IN$ 

M.W. : 257.16 g/mole

**LT-S9313** | iso-Pentylammonium iodide

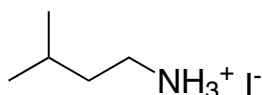
iso-Pentylammonium iodide

CAS No. : 2733412-76-3

Grade : &gt;99%

Formula :  $C_5H_{14}IN$ 

M.W. : 215.06 g/mole

**LT-S9314** | neo-Pentylammonium iodide

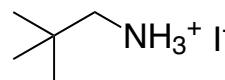
neo-Pentylammonium iodide

CAS No. : 2733412-38-7

Grade : &gt;99%

Formula :  $C_5H_{14}IN$ 

M.W. : 215.08 g/mole

**LT-S9315** | Piperidinium iodide

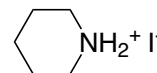
Piperidinium iodide

CAS No. : 21701-42-8

Grade : &gt;99%

Formula :  $C_5H_{12}IN$ 

M.W. : 213.06 g/mole

**LT-S9316** | Pyridinium iodide

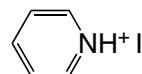
Pyridinium iodide

CAS No. : 18820-83-2

Grade : &gt;99%

Formula :  $C_5H_6IN$ 

M.W. : 207.01 g/mole

**LT-S9317** | 4-Trifluoromethyl-benzylammonium iodide

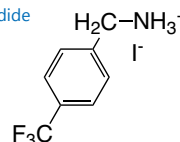
4-Trifluoromethyl-benzylammonium iodide

CAS No. : 2710811-32-6

Grade : &gt;99%

Formula :  $C_8H_9F_3IN$ 

M.W. : 303.06 g/mole

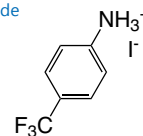
**LT-S9318** | 4-Trifluoromethyl-phenylammonium iodide

4-Trifluoromethyl-phenylammonium iodide

Grade : &gt;99%

Formula :  $C_7H_7IF_3N$ 

M.W. : 289.04 g/mole

**LT-S9319** | Acetamidinium bromide

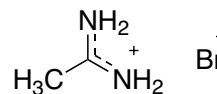
Acetamidinium bromide

CAS No. : 1040352-82-6

Grade : &gt;99%

Formula :  $C_2H_7BrN_2$ 

M.W. : 138.99 g/mole

**LT-S9320** | Butane-1,4-diammonium bromide

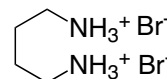
Butane-1,4-diammonium bromide

CAS No. : 18773-04-1

Grade : &gt;99%

Formula :  $C_4H_{14}Br_2N_2$ 

M.W. : 249.98 g/mole

**LT-S9321** | Cyclohexylammonium bromide

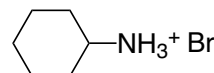
Cyclohexylammonium bromide

CAS No. : 26227-54-3

Grade : &gt;99%

Formula :  $C_6H_{14}BrN$ 

M.W. : 180.09 g/mole



**LT-S9322** Cyclohexylmethylammonium bromide

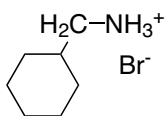
Cyclohexylmethylammonium bromide

CAS No. : 2248169-64-2

Grade : &gt;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

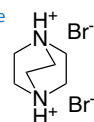
1,4-Diazabicyclo[2,2,2]octane-1,4-dium bromide

CAS No. : 54581-69-0

Grade : &gt;99%

Formula :  $C_6H_{14}Br_2N_2$ 

M.W. : 274 g/mole

**LT-S9324** N,N-Dimethylethane-1,2-ethanediammonium bromide

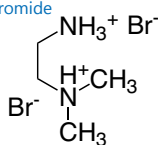
N,N-Dimethylethane-1,2-ethanediammonium bromide

CAS No. : 1245570-04-0

Grade : &gt;99%

Formula :  $C_4H_{14}Br_2N_2$ 

M.W. : 249.98 g/mole

**LT-S9325** N,N-Dimethyl-1,3-propanediammonium bromide

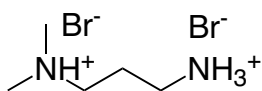
N,N-Dimethyl-1,3-propanediammonium bromide

CAS No. : 2710685-13-3

Grade : &gt;99%

Formula :  $C_5H_{16}Br_2N_2$ 

M.W. : 264 g/mole

**LT-S9326** n-Dodecylammonium bromide

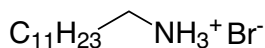
n-Dodecylammonium bromide

CAS No. : 26204-55-7

Grade : &gt;99%

Formula :  $C_{12}H_{25}BrN$ 

M.W. : 266.26 g/mole

**LT-S9327** Ethane-1,2-diammonium bromide

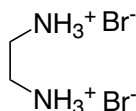
Ethane-1,2-diammonium bromide

CAS No. : 624-59-9

Grade : &gt;99%

Formula :  $C_2H_{10}Br_2N_2$ 

M.W. : 221.92 g/mole

**LT-S9328** p-F-PMABr

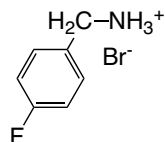
4-Fluoro-benzylammonium bromide

CAS No. : 2270172-94-4

Grade : &gt;99%

Formula :  $C_7H_9FBrN$ 

M.W. : 206.06 g/mole

**LT-S9329** 4-Fluoro-phenethylammonium bromide

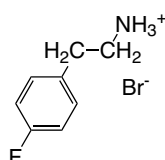
4-Fluoro-phenethylammonium bromide

CAS No. : 1807536-06-6

Grade : &gt;99%

Formula :  $C_8H_{11}BrFN$ 

M.W. : 220.08 g/mole

**LT-S9330** n-Hexylammonium bromide

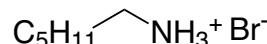
n-Hexylammonium bromide

CAS No. : 7334-95-4

Grade : &gt;99%

Formula :  $C_6H_{15}BrN$ 

M.W. : 182.1 g/mole

**LT-S9331** 4-Methoxy-phenethylammonium bromide

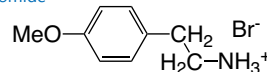
4-Methoxy-phenethylammonium bromide

CAS No. : 2705331-53-7

Grade : &gt;99%

Formula :  $C_9H_{14}BrNO$ 

M.W. : 232.12 g/mole

**LT-S9332** 4-Methoxy-phenylammonium bromide

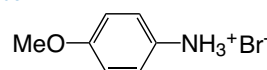
4-Methoxy-phenylammonium bromide

CAS No. : 116436-31-8

Grade : &gt;99%

Formula :  $C_8H_{10}BrNO$ 

M.W. : 232.12 g/mole

**LT-S9333** tert-Octylammonium bromide

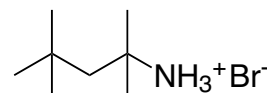
tert-Octylammonium bromide

CAS No. : 1093859-61-0

Grade : &gt;99%

Formula :  $C_8H_{17}BrN$ 

M.W. : 210.16 g/mole

**LT-S9334** iso-Pentylammonium bromide

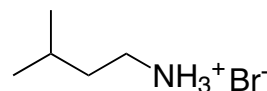
iso-Pentylammonium bromide

CAS No. : 25323-05-1

Grade : &gt;99%

Formula :  $C_5H_{13}BrN$ 

M.W. : 168.08 g/mole

**LT-S9335** neo-Pentylammonium bromide

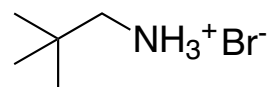
neo-Pentylammonium bromide

CAS No. : 2710685-35-9

Grade : &gt;99%

Formula :  $C_5H_{13}BrN$ 

M.W. : 168.08 g/mole

**LT-S9336** Piperidinium bromide

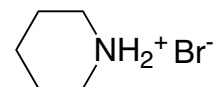
Piperidinium bromide

CAS No. : 14066-85-4

Grade : &gt;99%

Formula :  $C_5H_{12}BrN$ 

M.W. : 166.06 g/mole

**LT-S9337** iso-Propylammonium bromide

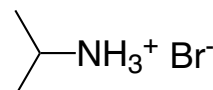
iso-Propylammonium bromide

CAS No. : 29552-58-7

Grade : &gt;99%

Formula :  $C_3H_{10}BrN$ 

M.W. : 140.02 g/mole



## Perovskite Precursors

**LT-S9338** | n-Propylammonium bromide

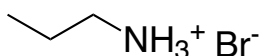
n-Propylammonium bromide

CAS No. : 4905-83-3

Grade : &gt;99%

Formula :  $C_3H_{10}BrN$ 

M.W. : 140.02 g/mole

**LT-S9339** | Pyrrolidinium bromide

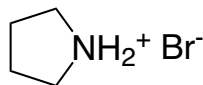
Pyrrolidinium bromide

CAS No. : 55810-80-5

Grade : &gt;99%

Formula :  $C_4H_{10}BrN$ 

M.W. : 152.03 g/mole

**LT-S9340** | Quinuclidin-1-ium bromide

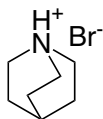
Quinuclidin-1-ium bromide

CAS No. : 60662-68-2

Grade : &gt;99%

Formula :  $C_7H_{14}BrN$ 

M.W. : 192.1 g/mole

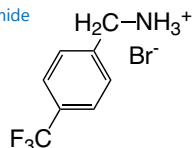
**LT-S9341** | 4-Trifluoromethyl-benzylammonium bromide

4-Trifluoromethyl-benzylammonium bromide

Grade : &gt;99%

Formula :  $C_8H_9F_3BrN$ 

M.W. : 256.06 g/mole

**LT-S9342** | 4-Trifluoromethyl-phenylammonium bromide

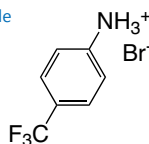
4-Trifluoromethyl-phenylammonium bromide

CAS No. : 148819-81-2

Grade : &gt;99%

Formula :  $C_7H_7BrF_3N$ 

M.W. : 242.03 g/mole

**LT-S9343** | 5-Azaspiro[4.4]nonan-5-ium bis(trifluoromethane)sulfonimide

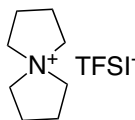
5-Azaspiro[4.4]nonan-5-ium bis(trifluoromethane)sulfonimide

CAS No. : 706759-44-6

Grade : &gt;99%

Formula :  $C_{10}H_{16}F_6N_2O_4S_2$ 

M.W. : 406.37 g/mole

**LT-S9344** | 1,4-Diazabicyclo[2.2.2]octane-1,4-diium chloride

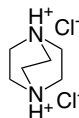
1,4-Diazabicyclo[2.2.2]octane-1,4-diium chloride

CAS No. : 49563-87-3

Grade : &gt;99%

Formula :  $C_6H_{14}Cl_2N_2$ 

M.W. : 185.09 g/mole

**LT-S9345** | N,N-Dimethyl-1,3-propanediammonium chloride

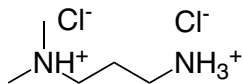
N,N-Dimethyl-1,3-propanediammonium chloride

CAS No. : 52198-63-7

Grade : &gt;99%

Formula :  $C_5H_{16}Cl_2N_2$ 

M.W. : 175.1 g/mole

**LT-S9346** | 4-Fluoro-benzylammonium chloride

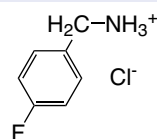
4-Fluoro-benzylammonium chloride

CAS No. : 659-41-6

Grade : &gt;99%

Formula :  $C_7H_9FCIN$ 

M.W. : 161.6 g/mole

**LT-S9347** | 4-Fluoro-phenethylammonium chloride

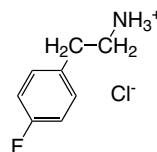
4-Fluoro-phenethylammonium chloride

CAS No. : 459-19-8

Grade : &gt;99%

Formula :  $C_8H_{11}ClFN$ 

M.W. : 175.63 g/mole

**LT-S9348** | 4-Methoxy-phenethylammonium chloride

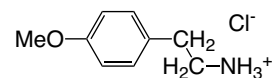
4-Methoxy-phenethylammonium chloride

CAS No. : 645-58-9

Grade : &gt;99%

Formula :  $C_9H_{14}ClNO$ 

M.W. : 187.67 g/mole

**LT-S9349** | tert-Octylammonium chloride

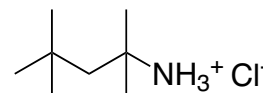
tert-Octylammonium chloride

CAS No. : 58618-91-0

Grade : &gt;99%

Formula :  $C_8H_{20}ClN$ 

M.W. : 165.7 g/mole

**LT-S9350** | iso-Pentylammonium chloride

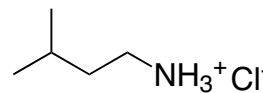
iso-Pentylammonium chloride

CAS No. : 541-23-1

Grade : &gt;99%

Formula :  $C_5H_{14}ClN$ 

M.W. : 123.62 g/mole

**LT-S9351** | neo-Pentylammonium chloride

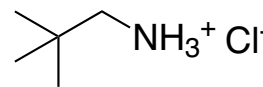
neo-Pentylammonium chloride

CAS No. : 15925-18-5

Grade : &gt;99%

Formula :  $C_5H_{14}ClN$ 

M.W. : 123.62 g/mole

**LT-S9352** | 4-Trifluoromethyl-benzylammonium chloride

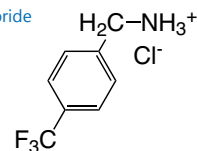
4-Trifluoromethyl-benzylammonium chloride

CAS No. : 3047-99-2

Grade : &gt;99%

Formula :  $C_8H_9F_3ClN$ 

M.W. : 211.61 g/mole

**LT-S9353** | 4-Trifluoromethyl-Phenylammonium chloride

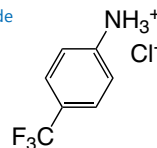
4-Trifluoromethyl-Phenylammonium chloride

CAS No. : 90774-69-9

Grade : &gt;99%

Formula :  $C_7H_7ClF_3N$ 

M.W. : 197.59 g/mole



**LT-S9354** Piperidinium chloride

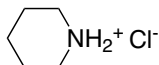
Piperidinium chloride

CAS No. : 6091-44-7

Grade : &gt;99%

Formula :  $C_5H_{12}ClN$ 

M.W. : 121.61 g/mole

**LT-S9355** Propane-1,3-diammonium chloride

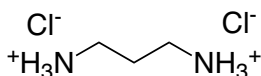
Propane-1,3-diammonium chloride

CAS No. : 10517-44-9

Grade : &gt;99%

Formula :  $C_3H_{12}Cl_2N_2$ 

M.W. : 147.05 g/mole

**LT-S9356** Pyrrolidinium chloride

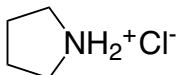
Pyrrolidinium chloride

CAS No. : 25150-61-2

Grade : &gt;99%

Formula :  $C_4H_{10}ClN$ 

M.W. : 107.58 g/mole

**LT-S9357** Quinuclidin-1-ium chloride

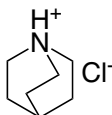
Quinuclidin-1-ium chloride

CAS No. : 39896-06-5

Grade : &gt;99%

Formula :  $C_7H_{14}ClN$ 

M.W. : 147.65 g/mole

**LT-S9358** Methylammonium cyanate

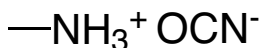
Methylammonium cyanate

CAS No. : 63405-91-4

Grade : &gt;99%

Formula :  $C_2H_6N_2O$ 

M.W. : 74.08 g/mole

**LT-S9359** 5-Azasp[ro[4.4]nonan-5-ium tetrafluoroborate

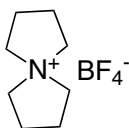
5-Azasp[ro[4.4]nonan-5-ium tetrafluoroborate

CAS No. : 129211-47-8

Grade : &gt;99%

Formula :  $C_8H_{16}BF_4N$ 

M.W. : 213.02 g/mole

**LT-S9360** Benzylammonium tetrafluoroborate

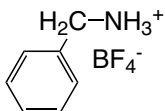
Benzylammonium tetrafluoroborate

CAS No. : 41579-49-1

Grade : &gt;99%

Formula :  $C_7H_{10}BF_4N$ 

M.W. : 194.97 g/mole

**LT-S9361** iso-Butylammonium tetrafluoroborate

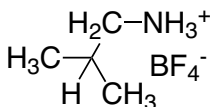
iso-Butylammonium tetrafluoroborate

CAS No. : 71852-72-7

Grade : &gt;99%

Formula :  $C_4H_{12}BF_4N$ 

M.W. : 160.95 g/mole

**LT-S9362** n-Butylammonium tetrafluoroborate

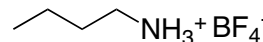
n-Butylammonium tetrafluoroborate

CAS No. : 71852-73-6

Grade : &gt;99%

Formula :  $C_4H_{12}BF_4N$ 

M.W. : 160.95 g/mole

**LT-S9363** t-Butylammonium tetrafluoroborate

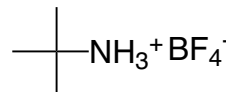
t-Butylammonium tetrafluoroborate

CAS No. : 24418-92-6

Grade : &gt;99%

Formula :  $C_4H_{12}BF_4N$ 

M.W. : 160.95 g/mole

**LT-S9364** Cyclohexylammonium tetrafluoroborate

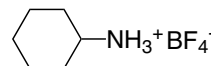
Cyclohexylammonium tetrafluoroborate

CAS No. : 71893-43-1

Grade : &gt;99%

Formula :  $C_6H_{14}BF_4N$ 

M.W. : 186.99 g/mole

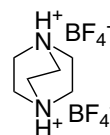
**LT-S9365** 1,4-Diazabicyclo[2,2,2]octane-1,4-dium tetrafluoroborate

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

Grade : &gt;99%

Formula :  $C_6H_{14}B_2F_8N_2$ 

M.W. : 287.8 g/mole

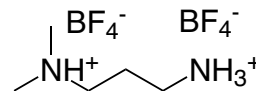
**LT-S9366** N,N-Dimethyl-1,3-propanediammonium tetrafluoroborate

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

Grade : &gt;99%

Formula :  $C_5H_{16}B_2F_8N_2$ 

M.W. : 277.8 g/mole

**LT-S9367** Diethylammonium tetrafluoroborate

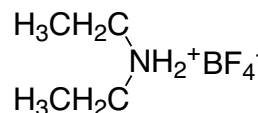
Diethylammonium tetrafluoroborate

CAS No. : 17085-33-5

Grade : &gt;99%

Formula :  $C_4H_{12}BF_4N$ 

M.W. : 160.95 g/mole

**LT-S9368** Dimethylammonium tetrafluoroborate

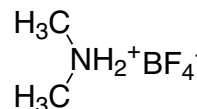
Dimethylammonium tetrafluoroborate

CAS No. : 16970-97-1

Grade : &gt;99%

Formula :  $C_2H_8BF_4N$ 

M.W. : 132.9 g/mole

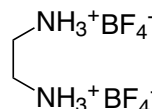
**LT-S9369** Ethane-1,2-diammonium tetrafluoroborate

Ethane-1,2-diammonium tetrafluoroborate

Grade : &gt;99%

Formula :  $C_2H_{10}B_2F_8N_2$ 

M.W. : 235.72 g/mole



**LT-S9370** Ethylammonium tetrafluoroborate

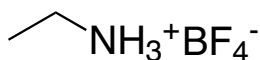
Ethylammonium tetrafluoroborate

CAS No. : 12070-78-9

Grade : &gt;99%

Formula :  $C_2H_8BF_4N$ 

M.W. : 132.9 g/mole

**LT-S9371** Guanidinium tetrafluoroborate

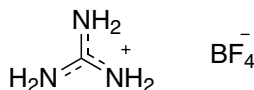
Guanidinium tetrafluoroborate

CAS No. : 36595-00-3

Grade : &gt;99%

Formula :  $CH_5BF_4N_3$ 

M.W. : 146.88 g/mole

**LT-S9372** n-Hexylammonium tetrafluoroborate

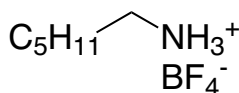
n-Hexylammonium tetrafluoroborate

CAS No. : 41579-47-9

Grade : &gt;99%

Formula :  $C_6H_{16}BF_4N$ 

M.W. : 378.01 g/mole

**LT-S9373** Imidazolium tetrafluoroborate

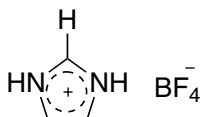
Imidazolium tetrafluoroborate

CAS No. : 112725-76-5

Grade : &gt;99%

Formula :  $C_3H_5BF_4N_2$ 

M.W. : 155.89 g/mole

**LT-S9374** n-Octylammonium tetrafluoroborate

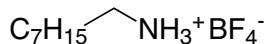
n-Octylammonium tetrafluoroborate

CAS No. : 790269-39-5

Grade : &gt;99%

Formula :  $C_8H_{20}BF_4N$ 

M.W. : 217.06 g/mole

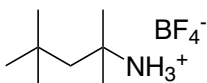
**LT-S9375** tert-Octylammonium tetrafluoroborate

tert-Octylammonium tetrafluoroborate

Grade : &gt;99%

Formula :  $C_8H_{20}BF_4N$ 

M.W. : 217.06 g/mole

**LT-S9376** iso-Pentylammonium tetrafluoroborate

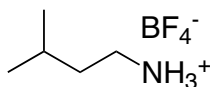
iso-Pentylammonium tetrafluoroborate

CAS No. : 150178-33-9

Grade : &gt;99%

Formula :  $C_5H_{14}BF_4N$ 

M.W. : 174.97 g/mole

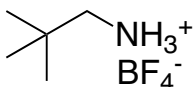
**LT-S9377** neo-Pentylammonium tetrafluoroborate

neo-Pentylammonium tetrafluoroborate

Grade : &gt;99%

Formula :  $C_5H_{14}BF_4N$ 

M.W. : 174.98 g/mole

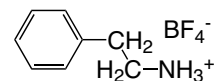
**LT-S9378** Phenethylammonium tetrafluoroborate

Phenethylammonium tetrafluoroborate

Grade : &gt;99%

Formula :  $C_8H_{12}BF_4N$ 

M.W. : 208.99 g/mole

**LT-S9379** Phenylammonium tetrafluoroborate

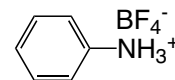
Phenylammonium tetrafluoroborate

CAS No. : 3796-29-0

Grade : &gt;99%

Formula :  $C_6H_8BF_4N$ 

M.W. : 180.94 g/mole

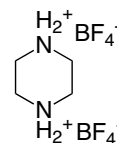
**LT-S9380** Piperazine-1,4-diium tetrafluoroborate

Piperazine-1,4-diium tetrafluoroborate

Grade : &gt;99%

Formula :  $C_4H_{12}B_2F_8N_2$ 

M.W. : 261.76 g/mole

**LT-S9381** Piperidinium tetrafluoroborate

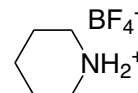
Piperidinium tetrafluoroborate

CAS No. : 20935-77-7

Grade : &gt;99%

Formula :  $C_5H_{12}BF_4N$ 

M.W. : 172.96 g/mole

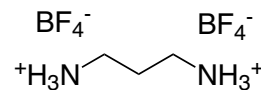
**LT-S9382** Propane-1,3-diammonium tetrafluoroborate

Propane-1,3-diammonium tetrafluoroborate

Grade : &gt;99%

Formula :  $C_3H_{12}B_2F_8N_2$ 

M.W. : 249.75 g/mole

**LT-S9383** iso-Propylammonium tetrafluoroborate

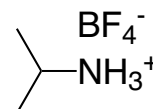
iso-Propylammonium tetrafluoroborate

CAS No. : 71852-74-9

Grade : &gt;99%

Formula :  $C_3H_{10}BF_4N$ 

M.W. : 146.92 g/mole

**LT-S9384** n-Propylammonium tetrafluoroborate

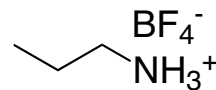
n-Propylammonium tetrafluoroborate

CAS No. : 71852-75-0

Grade : &gt;99%

Formula :  $C_3H_{10}BF_4N$ 

M.W. : 146.92 g/mole

**LT-S9385** Pyridinium tetrafluoroborate

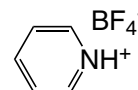
Pyridinium tetrafluoroborate

CAS No. : 505-07-7

Grade : &gt;99%

Formula :  $C_5H_6BF_4N$ 

M.W. : 166.91 g/mole



**LT-S9386** Pyrrolidinium tetrafluoroborate

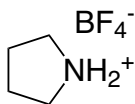
Pyrrolidinium tetrafluoroborate

CAS No. : 95647-26-0

Grade : &gt;99%

Formula :  $C_4H_9BF_4N$ 

M.W. : 158.93 g/mole

**LT-S9387** Quinuclidin-1-ium tetrafluoroborate

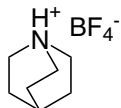
Quinuclidin-1-ium tetrafluoroborate

CAS No. : 936025-25-1

Grade : &gt;99%

Formula :  $C_7H_{14}BF_4N$ 

M.W. : 199 g/mole

**LT-S9388** Benzylammonium thiocyanate

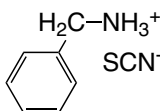
Benzylammonium thiocyanate

CAS No. : 51571-89-2

Grade : &gt;99%

Formula :  $C_8H_{10}N_2S$ 

M.W. : 166.24 g/mole

**LT-S9389** n-Butylammonium thiocyanate

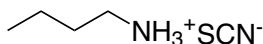
n-Butylammonium thiocyanate

CAS No. : 25162-84-9

Grade : &gt;99%

Formula :  $C_5H_{12}N_2S$ 

M.W. : 132.23 g/mole

**LT-S9390** Cyclohexylammonium thiocyanate

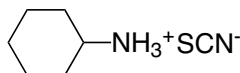
Cyclohexylammonium thiocyanate

CAS No. : 96943-17-8

Grade : &gt;99%

Formula :  $C_7H_{14}N_2S$ 

M.W. : 158.26 g/mole

**LT-S9391** n-Dodecylammonium thiocyanate

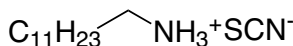
n-Dodecylammonium thiocyanate

CAS No. : 22031-31-8

Grade : &gt;99%

Formula :  $C_{13}H_{28}N_2S$ 

M.W. : 244.44 g/mole

**LT-S9392** Ethylammonium thiocyanate

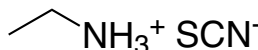
Ethylammonium thiocyanate

CAS No. : 25153-19-9

Grade : &gt;99%

Formula :  $C_3H_8N_2S$ 

M.W. : 104.17 g/mole

**LT-S9393** Formamidinium thiocyanate

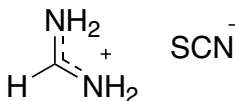
Formamidinium thiocyanate

CAS No. : 1821033-48-0

Grade : &gt;99%

Formula :  $CH_5N_3S$ 

M.W. : 103.15 g/mole

**LT-S9394** n-Hexylammonium thiocyanate

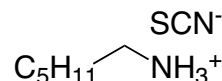
n-Hexylammonium thiocyanate

CAS No. : 25162-85-0

Grade : &gt;99%

Formula :  $C_7H_{16}N_2S$ 

M.W. : 160.28 g/mole

**LT-S9395** Methylammonium thiocyanate

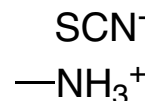
Methylammonium thiocyanate

CAS No. : 61540-63-4

Grade : &gt;99%

Formula :  $C_2H_6N_2S$ 

M.W. : 90.15 g/mole

**LT-S9396** n-Octylammonium thiocyanate

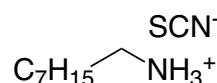
n-Octylammonium thiocyanate

CAS No. : 25162-86-1

Grade : &gt;99%

Formula :  $C_9H_{20}N_2S$ 

M.W. : 188.33 g/mole

**LT-S9397** tert-Octylammonium thiocyanate

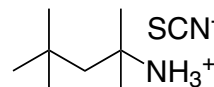
tert-Octylammonium thiocyanate

CAS No. : 41115-58-6

Grade : &gt;99%

Formula :  $C_9H_{20}N_2S$ 

M.W. : 188.33 g/mole

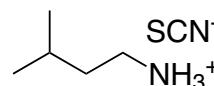
**LT-S9398** iso-Pentylammonium thiocyanate

iso-Pentylammonium thiocyanate

Grade : &gt;99%

Formula :  $C_6H_{14}N_2S$ 

M.W. : 146.25 g/mole

**LT-S9399** neo-Pentylammonium thiocyanate

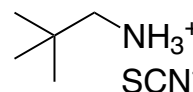
neo-Pentylammonium thiocyanate

CAS No. : 61540-71-4

Grade : &gt;99%

Formula :  $C_6H_{14}N_2S$ 

M.W. : 146.25 g/mole

**LT-S9400** Phenethylammonium thiocyanate

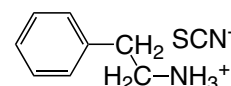
Phenethylammonium thiocyanate

CAS No. : 2656409-76-4

Grade : &gt;99%

Formula :  $C_9H_{12}N_2S$ 

M.W. : 180.27 g/mole

**LT-S9401** Phenylammonium thiocyanate

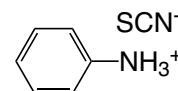
Phenylammonium thiocyanate

CAS No. : 27248-14-2

Grade : &gt;99%

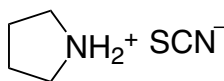
Formula :  $C_7H_8N_2S$ 

M.W. : 152.22 g/mole

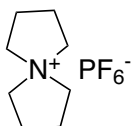


**LT-S9402** | Pyrrolidinium thiocyanate

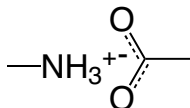
Pyrrolidinium thiocyanate  
CAS No. : 217309-80-3  
Grade : >99%  
Formula :  $C_5H_{10}N_2S$   
M.W. : 130.21 g/mole

**LT-S9403** | 5-Azasp[4.4]nonan-5-ium hexafluorophosphate

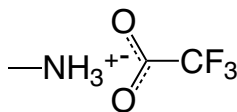
5-Azasp[4.4]nonan-5-ium hexafluorophosphate  
CAS No. : 129211-50-3  
Grade : >99%  
Formula :  $C_8H_{16}F_6NP$   
M.W. : 271.18 g/mole

**LT-S9404** | Methyammonium acetate

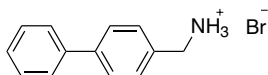
Methyammonium acetate  
CAS No. : 6998-30-7  
Grade : >99%  
Formula :  $C_3H_9NO_2$   
M.W. : 91.11 g/mole

**LT-S9405** | Methyammonium trifluoroacetate

Methyammonium 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

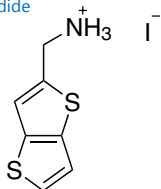
4-Phenylbenzylammonium bromide  
Grade : >99%  
Formula :  $C_{13}H_{14}BrN$   
M.W. : 264.16 g/mole

**LT-S9539** | OAmI

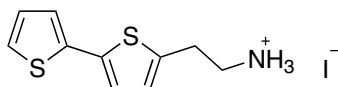
Oleylammonium Iodide  
CAS No. : 1802520-56-4  
Grade : >99.5%  
Formula :  $C_{18}H_{38}IN$   
M.W. : 395.41 g/mole

**LT-S9588** | TTMAI

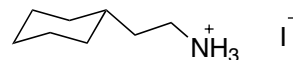
Thieno[3,2-b]thiophen-2-ylmethanaminium iodide  
Grade : >99.5%  
Formula :  $C_7H_8INS_2$   
M.W. : 297.18 g/mole

**LT-S9644** | 2TEAI

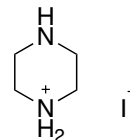
2-([2,2'-Bithiophen]-5-yl)ethan-1-amminium iodide  
Grade : >99%  
Formula :  $C_{10}H_{12}INS_2$   
M.W. : 337.24 g/mole

**LT-S9645** | CEAI

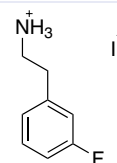
Cyclohexylethylammonium iodide  
Grade : >99%  
Formula :  $C_8H_{18}I_2$   
M.W. : 255.14 g/mole

**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 iodid

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

**LT-S9690** | CsBr

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

**LT-S9691** | CsCl

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

**LT-S9692** | CsI

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

**LT-S9693** | CuCl2 · 2H2O

Copper(II) chloride dihydrate  
CAS No. : 10125-13-0  
Grade : >99%  
Formula :  $CuCl_2 \cdot 2H_2O$   
M.W. : 170.48 g/mole

**LT-S9694** | SnBr2

Tin(II) bromide  
CAS No. : 10031-24-0  
Grade : >99%  
Formula :  $SnBr_2$   
M.W. : 278.52 g/mole

**LT-S9695** | SnCl<sub>2</sub>

Tin(II) chloride

CAS No. : 7772-99-8

Grade : &gt;99%

Formula : SnCl<sub>2</sub>

M.W. : 189.62 g/mole

**LT-S9696** | SnI<sub>2</sub>

Tin(II) iodide

CAS No. : 10294-70-9

Grade : &gt;99%

Formula : SnI<sub>2</sub>

M.W. : 372.52 g/mole

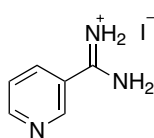
**LT-S9729** | 3API

Iodized 3-pyridinecarboximidamide

Grade : &gt;99%

Formula : C<sub>6</sub>H<sub>8</sub>IN<sub>3</sub>

M.W. : 249.05 g/mole

**LT-S9730** | APDI

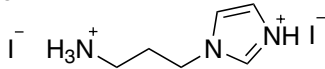
N-(3-Aminopropyl)-imidazole Diiodide

CAS No. : 1350616-11-3

Grade : &gt;99%

Formula : C<sub>6</sub>H<sub>13</sub>I<sub>2</sub>N<sub>3</sub>

M.W. : 381 g/mole

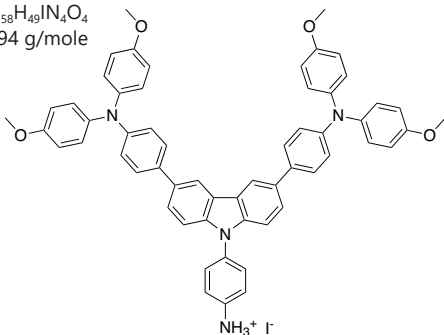
**LT-S9731** | CBz-PAI

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

Grade : &gt;99%

Formula : C<sub>58</sub>H<sub>49</sub>IN<sub>4</sub>O<sub>4</sub>

M.W. : 992.94 g/mole

**LT-S9732** | PNEACl

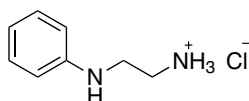
2-(Phenylamino)ethanaminium chloride

CAS No. : 108445-06-3

Grade : &gt;99%

Formula : C<sub>8</sub>H<sub>13</sub>ClN<sub>2</sub>

M.W. : 172.66 g/mole

**LT-S9733** | TMBAI

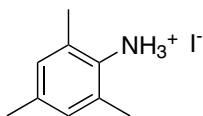
2,4,6-Trimethylbenzenaminium iodide

CAS No. : 947749-12-4

Grade : &gt;99%

Formula : C<sub>9</sub>H<sub>14</sub>IN

M.W. : 263.12 g/mole

**LT-S9734** | 5-AVAI

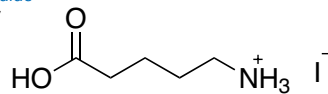
5-Ammoniumvaleric acid iodide

CAS No. : 1705581-28-7

Grade : &gt;99%

Formula : C<sub>5</sub>H<sub>12</sub>INO<sub>2</sub>

M.W. : 245.06 g/mole

**LT-S9735** | 5-AVACl

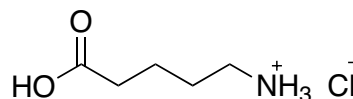
5-Ammoniumvaleric acid chloride

CAS No. : 627-95-2

Grade : &gt;99%

Formula : C<sub>5</sub>H<sub>12</sub>ClNO<sub>2</sub>

M.W. : 153.61 g/mole

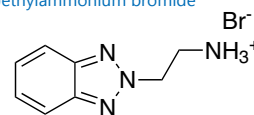
**LT-S9749** | BTaBr

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

Grade : &gt;99%

Formula : C<sub>8</sub>H<sub>11</sub>BrN<sub>4</sub>

M.W. : 243.1 g/mole

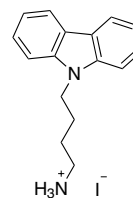
**LT-S9752** | 4CzNH3I

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

Grade : &gt;99%

Formula : C<sub>16</sub>H<sub>19</sub>IN<sub>2</sub>

M.W. : 366.24 g/mole

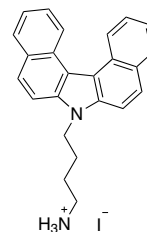
**LT-S9753** | 4DBCzNH3I

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

Grade : &gt;99%

Formula : C<sub>24</sub>H<sub>23</sub>IN<sub>2</sub>

M.W. : 466.36 g/mole

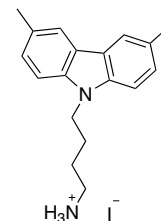
**LT-S9754** | Me-4CzNH3I

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

Grade : &gt;99%

Formula : C<sub>18</sub>H<sub>23</sub>IN<sub>2</sub>

M.W. : 394.29 g/mole



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

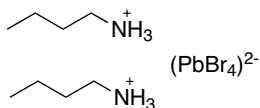
Di-n-butylammonium lead tetrabromide

CAS No. : 274903-07-0

Grade : &gt;99%

Formula :  $C_8H_{24}Br_4N_2Pb$ 

M.W. : 675.11 g/mole

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

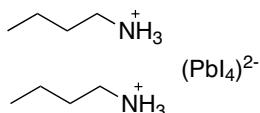
Di-n-butylammonium lead tetraiodide

CAS No. : 132069-10-4

Grade : &gt;99%

Formula :  $C_8H_{24}I_4N_2Pb$ 

M.W. : 863.11 g/mole

**LT-S9765** 2-ThEABr

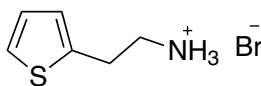
2-Thiophenethylammonium bromide

CAS No. : 2490324-60-0

Grade : &gt;99%

Formula :  $C_6H_{10}BrNS$ 

M.W. : 208.12 g/mole

**LT-S9766** 2-ThEAI

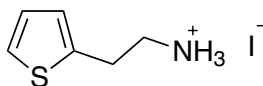
2-Thiopheneethylammonium iodide

CAS No. : 2414055-94-8

Grade : &gt;99%

Formula :  $C_6H_{10}INS$ 

M.W. : 255.12 g/mole

**LT-S9767** 2-ThMABr

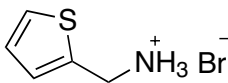
2-Thiophenemethylammonium bromide

CAS No. : 59852-33-4

Grade : &gt;99%

Formula :  $C_5H_8BrNS$ 

M.W. : 194.09 g/mole

**LT-S9768** 2-ThMAI

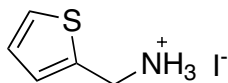
2-Thiophenemethylammonium iodide

CAS No. : 2247100-32-7

Grade : &gt;99%

Formula :  $C_5H_8INS$ 

M.W. : 241.09 g/mole

**LT-S9769** BFAI

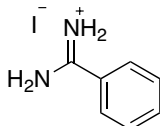
Benzimidamide hydroiodide

CAS No. : 860684-44-2

Grade : &gt;99%

Formula :  $C_7H_9IN_2$ 

M.W. : 248.06 g/mole

**LT-S9770** CsPbBr3

Cesium lead tribromide

CAS No. : 15243-48-8

Grade : &gt;99%

Formula :  $Br_3CsPb$ 

M.W. : 579.82 g/mole

**LT-S9771** CsPbCl3

Cesium lead trichloride

CAS No. : 15203-83-5

Grade : &gt;99%

Formula :  $Cl_3CsPb$ 

M.W. : 446.46 g/mole

**LT-S9772** CsPbI3

Cesium lead triiodide

CAS No. : 18041-25-3

Grade : &gt;99%

Formula :  $Cl_3CsPb$ 

M.W. : 720.82 g/mole

**LT-S9773** EAPbBr3

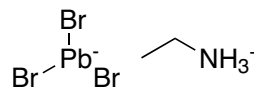
Ethylammonium tribromoplumbate

CAS No. : 17251-33-1

Grade : &gt;99%

Formula :  $C_2H_5Br_3NPb$ 

M.W. : 493 g/mole

**LT-S9774** EAPbI3

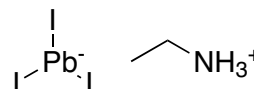
Ethylammonium triiodoplumbate

CAS No. : 1640335-04-1

Grade : &gt;99%

Formula :  $C_2H_5I_3NPb$ 

M.W. : 634.01 g/mole

**LT-S9775** FAPbBr3

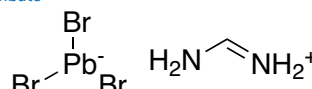
Formamidinium tribromoplumbate

CAS No. : 1008105-17-6

Grade : &gt;99%

Formula :  $CH_5Br_3N_2Pb$ 

M.W. : 491.98 g/mole

**LT-S9776** FAPbI3

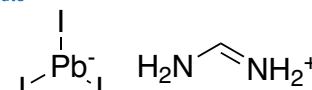
Formamidinium triiodoplumbate

CAS No. : 1451592-07-6

Grade : &gt;99%

Formula :  $CH_5I_3N_2Pb$ 

M.W. : 632.98 g/mole

**LT-S9777** FAPbClI2

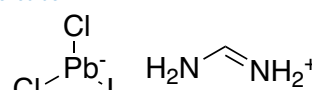
Formamidinium Lead Chloride Iodide

CAS No. : 1616115-25-3

Grade : &gt;99%

Formula :  $CH_5Cl_2IN_2Pb$ 

M.W. : 450.07 g/mole

**LT-S9778** HDADBr

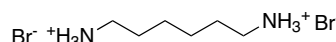
Hexane-1,6-diammonium bromide

CAS No. : 24731-81-5

Grade : &gt;99%

Formula :  $C_6H_{18}Br_2N_2$ 

M.W. : 278.03 g/mole



## LT-S9779 | HDADI

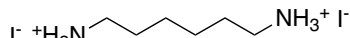
Hexane-1,6-diammonium iodide

CAS No. : 20208-23-5

Grade : &gt;99%

Formula :  $C_6H_{18}I_2N_2$ 

M.W. : 372.03 g/mole



## LT-S9780 | HPbBr3

Hydrogen lead tribromide

CAS No. : 192874-55-8

Grade : &gt;99%

Formula :  $Br_3HPb$ 

M.W. : 447.92 g/mole

## LT-S9781 | HPbI3

Hydrogen lead triiodide

CAS No. : 134879-44-0

Grade : &gt;99%

Formula :  $HI_3Pb$ 

M.W. : 588.92 g/mole

## LT-S9782 | MAPbBr2Cl

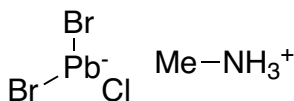
Methylammonium Lead Chloride Bromide

CAS No. : 479066-07-4

Grade : &gt;99%

Formula :  $CH_5Br_2ClNPb$ 

M.W. : 434.53 g/mole



## LT-S9783 | MAPbBr2I

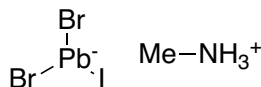
Methylammonium Lead Bromide Iodide

CAS No. : 1472068-58-8

Grade : &gt;99%

Formula :  $CH_5Br_2INPb$ 

M.W. : 525.98 g/mole



## LT-S9784 | MAPbBr3

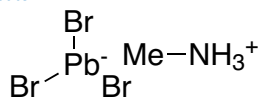
Methylammonium tribromoplumbate

CAS No. : 69276-13-7

Grade : &gt;99%

Formula :  $CH_5Br_3NPb$ 

M.W. : 478.98 g/mole



## LT-S9785 | MAPbBrCl2

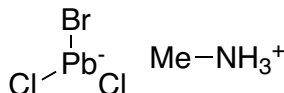
Methylammonium Lead Chloride Bromide

CAS No. : 479066-09-6

Grade : &gt;99%

Formula :  $CH_5BrCl_2NPb$ 

M.W. : 390.08 g/mole



## LT-S9786 | MAPbBrI2

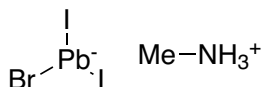
Methylammonium Lead Bromide Iodide

CAS No. : 1446121-02-3

Grade : &gt;99%

Formula :  $CH_5BrI_2NPb$ 

M.W. : 572.98 g/mole



## LT-S9787 | MAPbI2Cl

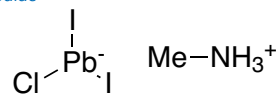
Methylammonium Lead Chloride Iodide

CAS No. : 1446121-07-8

Grade : &gt;99%

Formula :  $CH_5ClI_2NPb$ 

M.W. : 528.53 g/mole



## LT-S9788 | MAPbI3

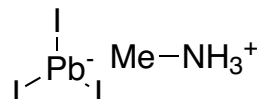
Methylammonium triiodoplumbate

CAS No. : 69507-98-8

Grade : &gt;99%

Formula :  $CH_5I_3NPb$ 

M.W. : 619.98 g/mole



## LT-S9789 | MAPbICl2

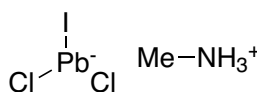
Methylammonium Lead Chloride Iodide

CAS No. : 1472068-56-6

Grade : &gt;99%

Formula :  $CH_5Cl_2INPb$ 

M.W. : 437.08 g/mole



## LT-S9790 | mPhDMADBr

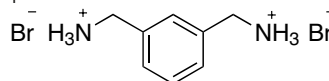
1,3-Phenylenedimethanamine dihydrobromide

CAS No. : 2265236-82-4

Grade : &gt;99%

Formula :  $C_8H_{14}Br_2N_2$ 

M.W. : 298.02 g/mole



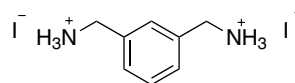
## LT-S9811 | mPhDMADI

1,3-Phenylenedimethanamine dihydroiodide

Grade : &gt;99%

Formula :  $C_8H_{14}I_2N_2$ 

M.W. : 392.02 g/mole



## LT-S9812 | PAPbI3

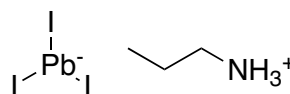
Propylammonium Lead Iodide

CAS No. : 1646171-78-9

Grade : &gt;99%

Formula :  $C_3H_{10}I_3NPb$ 

M.W. : 648.03 g/mole



## LT-S9813 | PbAc2

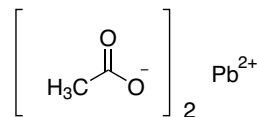
Lead(II) Acetate

CAS No. : 301-04-2

Grade : &gt;99%

Formula :  $C_4H_6O_4Pb$ 

M.W. : 325.29 g/mole



## LT-S9814 | p-Br-MBACl

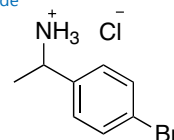
1-(4-Bromophenyl)ethylamine hydrochloride

CAS No. : 90006-14-7

Grade : &gt;99%

Formula :  $C_8H_{11}BrClN$ 

M.W. : 236.54 g/mole



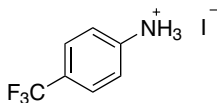
**LT-S9815** | p-CF3PhAI

4-Trifluoromethyl-Phenylammonium iodide

Grade : &gt;99%

Formula :  $C_7H_7F_3IN$ 

M.W. : 289.04 g/mole

**LT-S9816** | PentABr

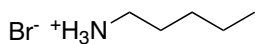
n-Pentylammonium bromide

CAS No. : 7334-94-3

Grade : &gt;99%

Formula :  $C_5H_{14}BrN$ 

M.W. : 168.08 g/mole

**LT-S9817** | PentACl

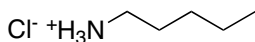
n-Pentylammonium chloride

CAS No. : 142-65-4

Grade : &gt;99%

Formula :  $C_5H_{14}ClN$ 

M.W. : 123.62 g/mole

**LT-S9818** | PentAI

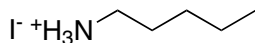
n-Pentylammonium iodide

CAS No. : 60762-85-8

Grade : &gt;99%

Formula :  $C_5H_{14}IN$ 

M.W. : 215.08 g/mole

**LT-S9820** | PhBABr

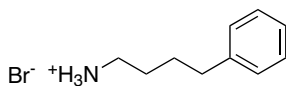
4-Phenylbutylammonium bromide

CAS No. : 120375-52-2

Grade : &gt;99%

Formula :  $C_{10}H_{16}BrN$ 

M.W. : 230.14 g/mole

**LT-S9821** | PhBACl

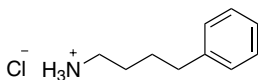
4-Phenylbutylamine hydrochloride

CAS No. : 30684-06-1

Grade : &gt;99%

Formula :  $C_{10}H_{16}ClN$ 

M.W. : 185.69 g/mole

**LT-S9822** | PhBAI

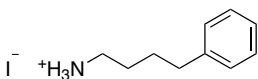
4-Phenylbutylammonium iodide

CAS No. : 2602663-31-8

Grade : &gt;99%

Formula :  $C_{10}H_{16}IN$ 

M.W. : 277.15 g/mole

**LT-S9823** | PhDADBr

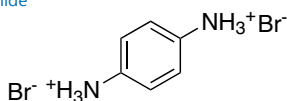
1,4-Benzene diammonium bromide

CAS No. : 116469-01-3

Grade : &gt;99%

Formula :  $C_6H_{10}Br_2N_2$ 

M.W. : 269.96 g/mole

**LT-S9824** | PhDMADBr

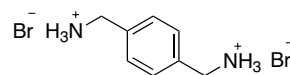
1,4-Phenylenedimethanamine dihydrobromide

CAS No. : 1294005-02-9

Grade : &gt;99%

Formula :  $C_8H_{14}Br_2N_2$ 

M.W. : 298.02 g/mole

**LT-S9825** | PhDMI

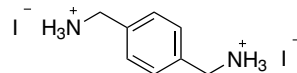
1,4-Phenylenedimethanamine dihydroiodide

CAS No. : 2304829-65-8

Grade : &gt;99%

Formula :  $C_8H_{14}I_2N_2$ 

M.W. : 392.02 g/mole

**LT-S9826** | PhPABr

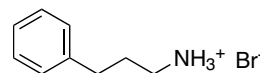
3-Phenylpropylammonium bromide

CAS No. : 120375-53-3

Grade : &gt;99%

Formula :  $C_9H_{14}BrN$ 

M.W. : 216.12 g/mole

**LT-S9827** | PhPAI

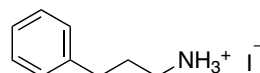
3-Phenylpropylammonium iodide

CAS No. : 2673196-34-2

Grade : &gt;99%

Formula :  $C_9H_{14}IN$ 

M.W. : 263.12 g/mole

**LT-S9828** | PipBr

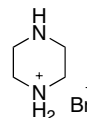
Piperazine hydrobromide

CAS No. : 59813-07-9

Grade : &gt;99%

Formula :  $C_4H_{11}BrN_2$ 

M.W. : 167.05 g/mole

**LT-S9829** | PMACl

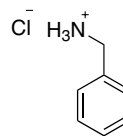
Benzylamine hydrochloride

CAS No. : 3287-99-8

Grade : &gt;99%

Formula :  $C_7H_{10}ClN$ 

M.W. : 143.61 g/mole

**LT-S9831** | p-CF3PEAI

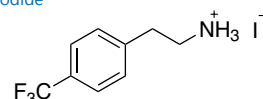
4-Trifluorophenylethylammonium iodide

CAS No. : 2770278-13-0

Grade : &gt;99%

Formula :  $C_9H_{11}F_3IN$ 

M.W. : 317.09 g/mole

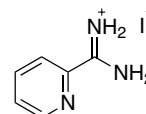
**LT-S9832** | 2API

Iodized 2-pyridinecarboximidamide

Grade : &gt;99%

Formula :  $C_6H_8IN_3$ 

M.W. : 249.05 g/mole



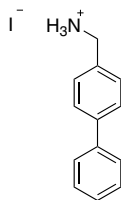
**LT-S9833** | BPAI

4-Biphenylmethyl ammonium iodide

Grade : &gt;99%

Formula :  $C_{13}H_{14}IN$ 

M.W. : 311.16 g/mole

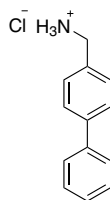
**LT-S9834** | BPMACl

4-Biphenylmethyl ammonium chloride

Grade : &gt;99%

Formula :  $C_{13}H_{14}ClN$ 

M.W. : 219.71 g/mole

**LT-S9835** | GBAC

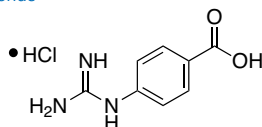
4-Guanidinobenzoic acid hydrochloride

CAS No. : 42823-46-1

Grade : &gt;98%

Formula :  $C_8H_{10}ClN_3O_2$ 

M.W. : 215.64 g/mole

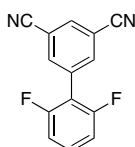
**LT-S9838** | 2F-2CN

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

Grade : &gt;99%

Formula :  $C_{14}H_6F_2N_2$ 

M.W. : 240.21 g/mole

**LT-S9839** | EVL

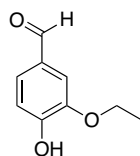
3-Ethoxy-4-hydroxybenzaldehyde

CAS No. : 121-32-4

Grade : &gt;99%

Formula :  $C_9H_{10}O_3$ 

M.W. : 166.17 g/mole

**LT-S9840** | MS

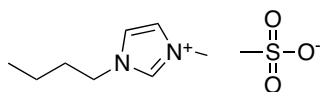
1-Butyl-3-methylimidazolium methanesulfonate

CAS No. : 342789-81-5

Grade : &gt;98%

Formula :  $C_9H_{18}N_2O_3S$ 

M.W. : 234.32 g/mole

**LT-S9841** | PSP

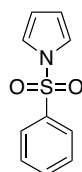
1-(Phenylsulfonyl)pyrrole

CAS No. : 16851-82-4

Grade : &gt;98%

Formula :  $C_{10}H_9NO_2S$ 

M.W. : 207.25 g/mole

**LT-S9846** | VBAI

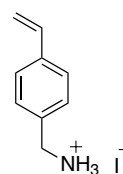
4-Vinylbenzylammonium iodide

CAS No. : 2387694-61-1

Grade : &gt;99%

Formula :  $C_9H_{12}IN$ 

M.W. : 261.1 g/mole

**LT-S9858**

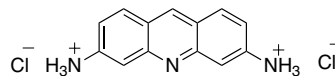
Acridine-3,6-diamine dihydrochloride

CAS No. : 531-73-7

Grade : &gt;99%

Formula :  $C_{13}H_{13}Cl_2N_3$ 

M.W. : 282.17 g/mole

**LT-S9865**

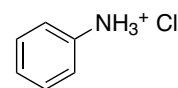
Phenylammonium chloride

CAS No. : 142-04-1

Grade : &gt;99%

Formula :  $C_6H_8ClN$ 

M.W. : 129.59 g/mole

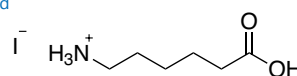
**LT-S9866** | IAHA

6-(Iodo-λ5-azanyl) hexanoic acid

Grade : &gt;99%

Formula :  $C_6H_{14}INO_2$ 

M.W. : 259.09 g/mole

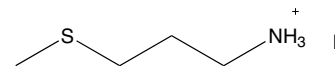
**LT-S9878** | 3MTPAI

3-(Methylthio)propylamine hydroiodide

Grade : &gt;99%

Formula :  $C_4H_{12}INS$ 

M.W. : 233.11 g/mole

**LT-S9879**

Bismuth(III) iodide

CAS No. : 7787-64-6

Grade : &gt;99%

Formula :  $BiI_3$ 

M.W. : 589.69 g/mole

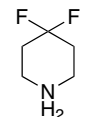
**LT-S9880** | DFPI

4,4-Difluoropiperidinehydriodide

Grade : &gt;99%

Formula :  $C_5H_{10}F_2IN$ 

M.W. : 249.04 g/mole

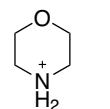
**LT-S9881** | MORI

Morpholine hydriodide

Grade : &gt;99%

Formula :  $C_4H_{10}INO$ 

M.W. : 215.03 g/mole



## Perovskite Precursors

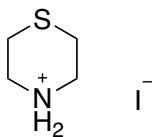
## LT-S9882 | SMORI

Thiomorpholine hydriodide

Grade : &gt;99%

Formula :  $C_4H_{10}INS$ 

M.W. : 231.1 g/mole



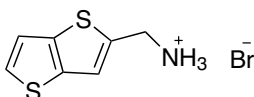
## LT-S9883 | TTMABr

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

Grade : &gt;99%

Formula :  $C_7H_8BrNS_2$ 

M.W. : 250.18 g/mole



## LT-S9884 | SnF2

Tin(II) fluoride

CAS No. : 7783-47-3

Grade : &gt;99.99% (trace metals basis)

Formula :  $SnF_2$ 

M.W. : 156.71 g/mole

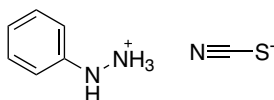
## LT-S9887 | PHSCN

Phenyl hydrazinium thiocyanate

Grade : &gt;98%(NMR),recrystallized 2 times

Formula :  $C_7H_9N_3S$ 

M.W. : 167.23 g/mole



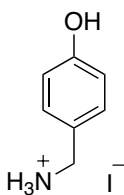
## LT-S9996 | HBzAI

4-Hydroxybenzylammonium iodide

Grade : &gt;99%

Formula :  $C_7H_{10}INO$ 

M.W. : 251.06 g/mole





**LT-S9290** | Si-OMeTPA

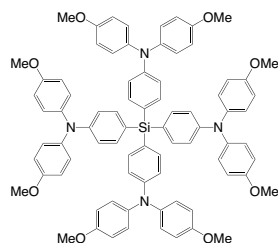
4,4',4'',4'''-Silane-tetrayl-tetrakis(N,N-bis(4-methoxyphenyl)aniline)

CAS No. : 2202763-90-2

Grade : &gt;99%

Formula :  $C_{80}H_{72}N_4O_8Si$ 

M.W. : 1245.54 g/mole

**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-

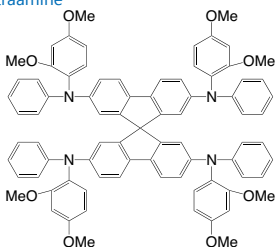
9,9'-spirobi[fluorene]-2,2',7,7'-tetraamine

CAS No. : 2102348-92-3

Grade : &gt;99%

Formula :  $C_{81}H_{68}N_4O_8$ 

M.W. : 1225.43 g/mole

**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]-1H-imidazol-2-yl]

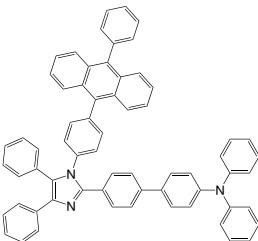
CAS No. : 2252254-01-4

Grade : Sublimed &gt;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

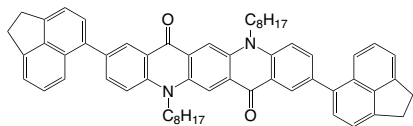
Grade : &gt;99%

Formula :  $C_{60}H_{60}N_2O_2$ 

M.W. : 841.13 g/mole

UV : 301 nm (in  $CHCl_3$ )

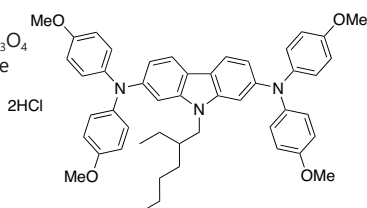
PL : 558 nm

**LT-S9555** | EH-449-(2-Ethylhexyl)- $N_2,N_2,N_7,N_7'$ -tetrakis(4-methoxyphenyl)-9H-carbazole-2,7-diamine hydrochloride salt

Grade : &gt;99%

Formula :  $C_{48}H_{53}Cl_2N_3O_4$ 

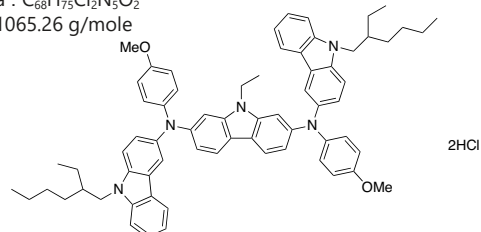
M.W. : 806.86 g/mole

**LT-S9556** | EtCz-3EHCz9-Ethyl- $N_2,N_2'$ -bis(9-(2-ethylhexyl)-9H-carbazol-3-yl)- $N_2,N_2'$ -bis(4-methoxyphenyl)-9H-carbazole-2,7-diamine hydrochloride salt

Grade : &gt;99%

Formula :  $C_{68}H_{75}Cl_2N_5O_2$ 

M.W. : 1065.26 g/mole

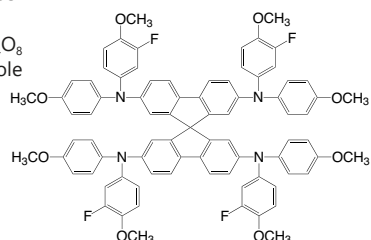
**LT-S9564** | Spiro-mF $N_2,N_2',N_7,N_7'$ -Tetrakis(3-fluoro-4-methoxyphenyl)- $N_2,N_2',N_7,N_7'$ -tetrakis(4-methoxyphenyl)-9,9'-spirobi[fluorene]-2,2',7,7'-tetraamine

CAS No. : 2644017-35-4

Grade : &gt;99%

Formula :  $C_{81}H_{64}F_4N_4O_8$ 

M.W. : 1297.39 g/mole

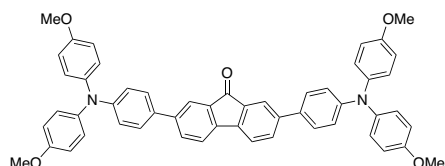
**LT-S9651** | TPA-2F

2,7-Bis(4-(bis(4-methoxyphenyl)amino)phenyl)-9H-fluoren

Grade : &gt;99%

Formula :  $C_{53}H_{42}N_2O_5$ 

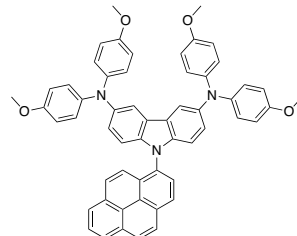
M.W. : 786.91 g/mole

**LT-S9654** | Cz-Pyr $N_3,N_3,N_6,N_6'$ -Tetrakis(4-methoxyphenyl)-9-(pyren-1-yl)-9H-carbazole-3,6-diamine

Grade : &gt;99%

Formula :  $C_{56}H_{43}N_3O_4$ 

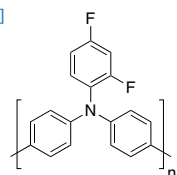
M.W. : 821.96 g/mole

**LT-S9756** | PTAA-2F

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

CAS No. : 1414662-10-4

Grade : MW &gt;20,000

Formula :  $(C_{18}H_{11}F_2N)_n$ 

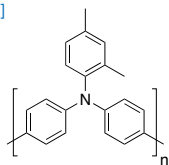
### LT-S9757 | PTAA-2Me

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

CAS No. : 313996-10-0

Grade : MW > 20,000

Formula : (C<sub>20</sub>H<sub>17</sub>N)n



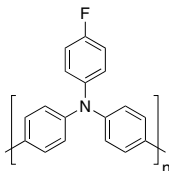
### LT-S9758 | PTAA-F

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

CAS No. : 618108-64-8

Grade : MW > 20,000

Formula : (C<sub>18</sub>H<sub>12</sub>FN)n



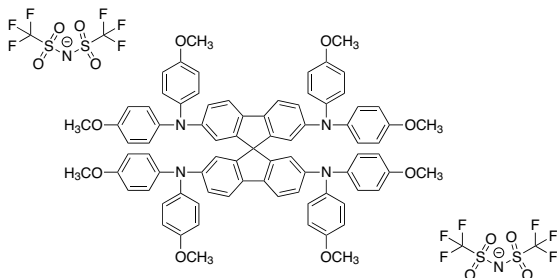
### LT-S9759 | Spiro(TFSI)2

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

Grade : >99%

Formula : C<sub>85</sub>H<sub>68</sub>F<sub>12</sub>N<sub>6</sub>O<sub>16</sub>S<sub>4</sub>

M.W. : 1785.72 g/mole



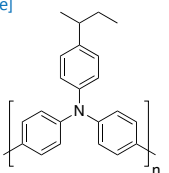
### LT-S9760 | s-Poly-TPD

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

CAS No. : 860495-18-7

Grade : MW > 20,000

Formula : (C<sub>22</sub>H<sub>21</sub>N)n



### LT-S9761 | X55

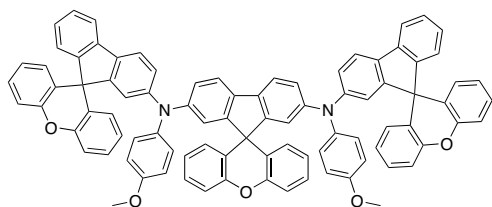
N<sub>2</sub>,N<sub>7</sub>-Bis(4-methoxyphenyl)-N<sub>2</sub>,N<sub>7</sub>-di(spiro[fluorene-9,9'-xanthen]-2-yl) spiro[fluorene-9,9'-xanthen]-2,7-diamine

CAS No. : 2128308-79-0

Grade : >99%

Formula : C<sub>89</sub>H<sub>58</sub>N<sub>2</sub>O<sub>5</sub>

M.W. : 1235.42 g/mole



### LT-S9762 | X60

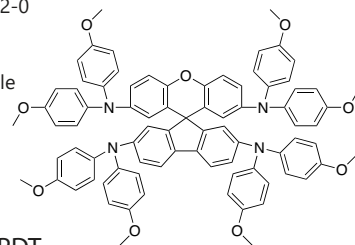
N<sub>2</sub>,N<sub>2</sub>,N<sub>2</sub>',N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>,N<sub>7</sub>',N<sub>7</sub>'-Octakis(4-methoxyphenyl)spiro[fluorene-9,9'-xanthen]-2,2',7,7'-tetraamine

CAS No. : 1887794-22-0

Grade : >99%

Formula : C<sub>81</sub>H<sub>68</sub>N<sub>4</sub>O<sub>8</sub>

M.W. : 1241.43 g/mole



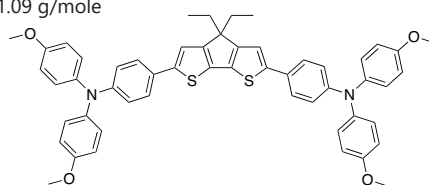
### LT-S9807 | CPDT

4,4'-(4,4-Diethyl-4H-cyclopenta[2,1-b:3,4-b']dithiophene-2,6-diyl) bis(N,N-bis(4-methoxyphenyl)aniline)

Grade : >99%

Formula : C<sub>53</sub>H<sub>48</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>

M.W. : 841.09 g/mole



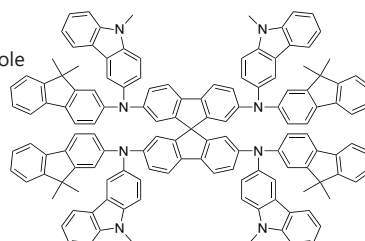
### LT-S9808 | SBF-FC

N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-Tetrakis(9,9-dimethyl-9H-fluorene-2-yl)-N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-tetrakis(9-methyl-9H-carbazole-3-yl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

Grade : >99%

Formula : C<sub>137</sub>H<sub>104</sub>N<sub>8</sub>

M.W. : 1862.35 g/mole



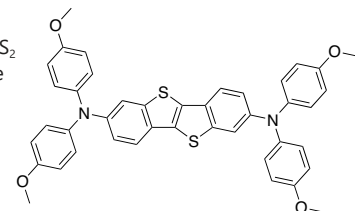
### LT-S9809 | TBTD

N<sub>2</sub>,N<sub>2</sub>,N<sub>7</sub>,N<sub>7</sub>'-Tetrakis(4-methoxyphenyl)benzo[b]benzo[4,5]thieno[2,3-d]thiophene-2,7-diamine

Grade : >99%

Formula : C<sub>42</sub>H<sub>34</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>

M.W. : 694.86 g/mole



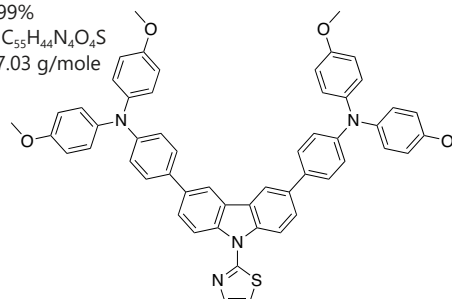
### LT-S9810 | TC-36

(4,4'-(9-(Thiazol-2-yl)-9H-carbazole-3,6-diyl)bis(N,N-bis(4-methoxyphenyl)aniline))

Grade : >99%

Formula : C<sub>55</sub>H<sub>44</sub>N<sub>4</sub>O<sub>4</sub>S

M.W. : 857.03 g/mole

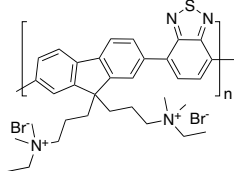


**LT-S9913** PFNBr-BT

Poly[(9,9-bis(3'-(N,N-dimethyl)-N-ethylammonium-propyl-2,7-fluorene)-alt-2,7-(1,4-benzothiadiazole)] dibromide

Grade : MW = 25000~250000

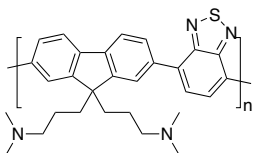
Formula :  $(C_{33}H_{42}Br_2N_4S)n$

**LT-S9914** PFN-BT

Poly[(9,9-di(2,2'-N,N'-dimethylamine)propylfluorenyl-2,7-diyl)-alt-co-(1,4-benzothiadiazole)]

Grade : MW = 15000~40000

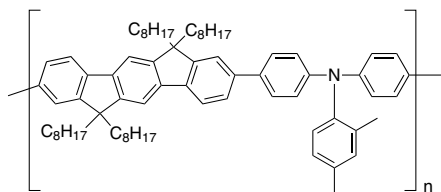
Formula :  $(C_{29}H_{32}N_4S)n$

**LT-S9917** PIF8-TAA

Poly[[2,4-dimethylphenyl]imino]-1,4-phenylene(6,12-dihydro-6,6,12,12-tetraoctylindeno[1,2-b]fluorene-2,8-diyl)-1,4-phenylene]

CAS No. : 1178569-79-3

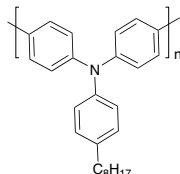
Formula :  $(C_{72}H_{93}N)n$

**LT-S9918** Poly-TPD-C8

Poly(4-octyl triphenylamine)

Grade : Mw = 5000~500000

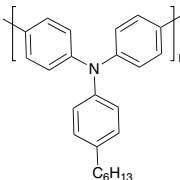
Formula :  $(C_{26}H_{29}N)n$

**LT-S9919** Poly-TPD-C6

Poly(4-hexyl triphenylamine)

Grade : Mw = 5000~500000

Formula :  $(C_{24}H_{25}N)n$

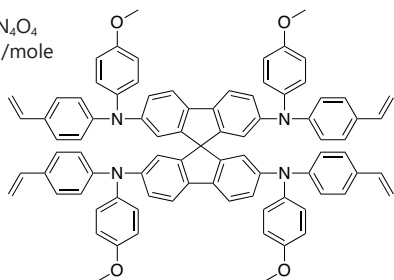
**LT-S9933** V1382

N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-Tetrakis(4-methoxyphenyl)-N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-tetrakis(4-vinylphenyl)-9,9'-spirobi[fluorene]-2,2',7,7'-tetraamine

Grade : >97%

Formula :  $C_{85}H_{68}N_4O_4$

M.W. : 1209.47 g/mole

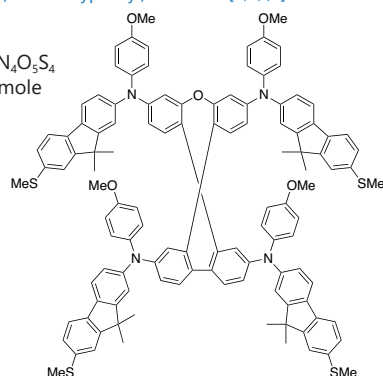
**LT-S9994** T2

N<sub>3</sub>,N<sub>3</sub>',N<sub>11</sub>,N<sub>11</sub>'-Tetrakis(9,9-dimethyl-7-(methylthio)-9H-fluorene-2-yl)-N<sub>3</sub>,N<sub>3</sub>',N<sub>11</sub>,N<sub>11</sub>'-tetrakis(4-methoxyphenyl)tetrabenzo[b,d,f,h]oxonine-3,7,11,16-tetraamine

Grade : >98%

Formula :  $C_{116}H_{100}N_4O_5S_4$

M.W. : 1758.32 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

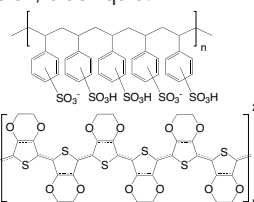
Solid content: 1.3 - 1.7 wt%

PSD d50 : 80 nm

PSD d90 : 100 nm

Resistivity : 500-5000 Ωcm

Viscosity : 5-12 mPas

**Technical Data (guide values, not a specification)**

Form : liquid

Odour : odourless

Colour : dark blue

PEDOT:PSS ratio: 1:6 (by weight)

PEDOT work function: approx 5.2 eV

pH : 1.2 - 2.2 at 20 °C

Boiling Point : approx 100 °C

**Storage:**

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

Avoid freezing!

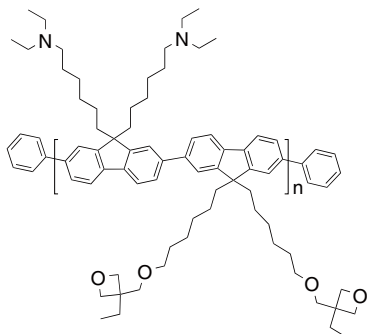
**LT-N177** | PFN-OX

6,6'-(9,9'-Bis(6-((3-ethyloxetan-3-yl)methoxy)hexyl))-7,7'-diphenyl-9H,9'H-2,2'-bifluorene-9,9-diyl)-bis(N,N-diethylhexan-1-amine)

CAS No. : 1345045-27-3

Formula :  $(C_{70}H_{102}N_2O_4)_n C_{12}H_{10}$

UV :  $378 \pm 10$  nm (in THF)

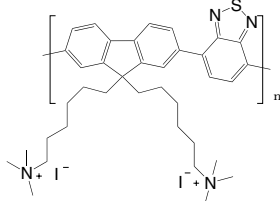
**LT-N181** | PFNIBT

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 :  $(C_{35}H_{42}I_2N_4S)_n$

UV : 317, 448 nm (in DMSO)

**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

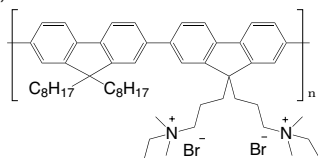
CAS No. : 889672-99-5

Grade : Mw > 10,000 (GPC)

Formula :  $(C_{56}H_{80}N_2Br_2)_n$

UV : 375 nm (in MeOH)

PL : 440 nm (in MeOH)

**LT-N4027** | PFN-DOF

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

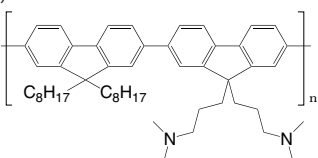
CAS No. : 673474-75-4

Grade : Mw > 10,000 (GPC)

Formula :  $(C_{52}H_{70}N_2)_n$

UV : 391 nm (in  $CH_2Cl_2$ )

PL : 414 nm (in  $CH_2Cl_2$ )

**LT-S9161** | C<sub>60</sub>-COOH-SAM

4-(1',5'-Dihydro-1'-methyl-2'-H-[5,6]fullereno-C<sub>60</sub>-1h-[1,9-c]-pyrrol-2'-yl) benzoic acid

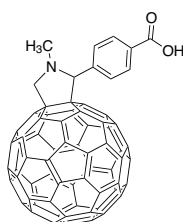
CAS No. : 631918-72-4

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

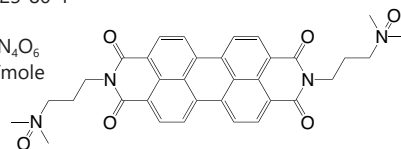
2,9-Bis[3-(dimethyloxidoamino)propyl]anthra[2,1,9-def:6,5,10-d'e'f'] diisoquinoline-1,3,8,10(2H,9H)-tetrone

CAS No. : 1558023-86-1

Grade : >95%

Formula :  $C_{34}H_{32}N_4O_6$

M.W. : 592.64 g/mole

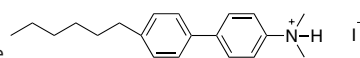
**LT-S9646** | HBPC

4'-Hexyl-N,N-dimethyl-[1,1'-biphenyl]-4-ammonium iodide

Grade : >99%

Formula :  $C_{20}H_{28}IN$

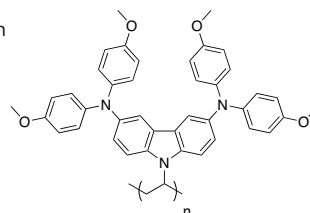
M.W. : 409.35 g/mole

**LT-S9652** | PV(Cz-DMPA)

Poly[3,6-bis[N,N'-di(4-methoxyphenyl)amino]-9-vinyl-carbazole]

Grade : Mw > 10,000

Formula :  $(C_{42}H_{37}N_3O_4)_n$

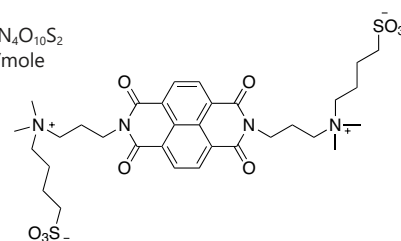
**LT-S9653** | NDI-B

4,4'-((1,3,6,8-Tetraoxo-1,3,6,8-tetrahydrobenzo[Imn][3,8]phenanthroline-2,7-diyl)bis(propane-3,1-diyl)) bis(dimethylammoniumdiyl)bis(butane-1-sulfonate)

Grade : >98%

Formula :  $C_{32}H_{44}N_4O_{10}S_2$

M.W. : 708.84 g/mole

**LT-S9736** | 3AAH

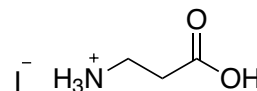
3-Aminopropanoic acid hydroiodide

CAS No. : 2096495-59-7

Grade : >99%

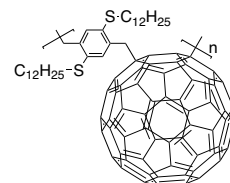
Formula :  $C_3H_8INO_2$

M.W. : 217.01 g/mole

**LT-S9941** | PFBS-C12, C60 PFBS

Formula :  $(C_{92}H_{55}S_2)_n$

M.W. : Mw~10000



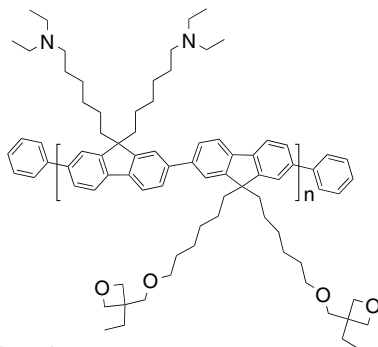
### LT-N177 | PFN-OX

6,6'-(9,9'-Bis(6-((3-ethyloxetan-3-yl)methoxy)hexyl))-7,7'-diphenyl-9H,9'H-2,2'-bifluorene-9,9-diyl)-bis(N,N-diethylhexan-1-amine)

CAS No. : 1345045-27-3

Formula :  $(C_{70}H_{102}N_2O_4)_n C_{12}H_{10}$

UV :  $378 \pm 10$  nm (in THF)



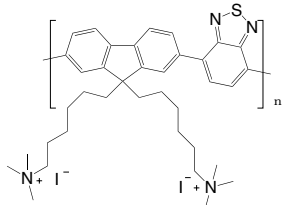
### LT-N181 | PFNIBT

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 :  $(C_{35}H_{42}I_2N_4S)_n$

UV : 317, 448 nm (in DMSO)



### 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

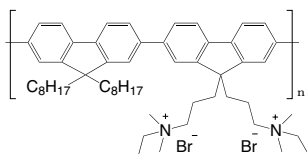
CAS No. : 889672-99-5

Grade : Mw > 10,000 (GPC)

Formula :  $(C_{56}H_{80}N_2Br_2)_n$

UV : 375 nm (in MeOH)

PL : 440 nm (in MeOH)



### LT-N4027 | PFN-DOF

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

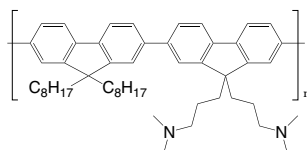
CAS No. : 673474-75-4

Grade : Mw > 10,000 (GPC)

Formula :  $(C_{52}H_{70}N_2)_n$

UV : 391 nm (in  $CH_2Cl_2$ )

PL : 414 nm (in  $CH_2Cl_2$ )



### LT-S9161 | C<sub>60</sub>-COOH-SAM

4-(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno-C<sub>60</sub>-1h-[1,9-c]-pyrrol-2'-yl) benzoic acid

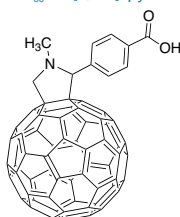
CAS No. : 631918-72-4

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

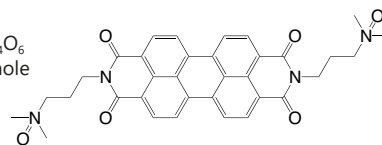
2,9-Bis[3-(dimethyloxidoamino)propyl]anthra[2,1,9-def:6,5,10-d'e'f'] diisoquinoline-1,3,8,10(2H,9H)-tetrone

CAS No. : 1558023-86-1

Grade : >95%

Formula :  $C_{34}H_{32}N_4O_6$

M.W. : 592.64 g/mole



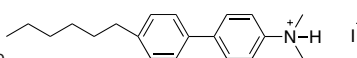
### LT-S9646 | HBPC

4'-Hexyl-N,N-dimethyl-[1,1'-biphenyl]-4-ammonium iodide

Grade : >99%

Formula :  $C_{20}H_{28}IN$

M.W. : 409.35 g/mole

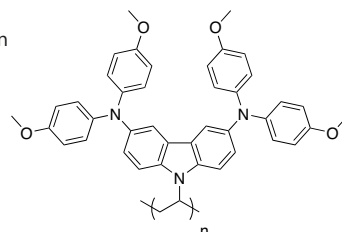


### LT-S9652 | PV(Cz-DMPA)

Poly(3,6-bis[N,N'-di(4-methoxyphenyl)amino]-9-vinyl-carbazole)

Grade : Mw > 10,000

Formula :  $(C_{42}H_{37}N_3O_4)_n$



### LT-S9653 | NDI-B

4,4'-(((1,3,6,8-Tetraoxo-1,3,6,8-tetrahydrobenzo[lmn]

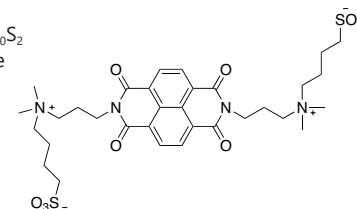
[3,8]phenanthroline-2,7-diyl)bis(propene-3,1-diyl))

bis(dimethylammoniumdiyl)bis(butane-1-sulfonate)

Grade : >98%

Formula :  $C_{32}H_{44}N_4O_{10}S_2$

M.W. : 708.84 g/mole



### LT-S9736 | 3AAH

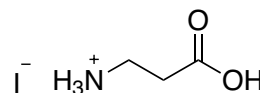
3-Aminopropanoic acid hydroiodide

CAS No. : 2096495-59-7

Grade : >99%

Formula :  $C_3H_8INO_2$

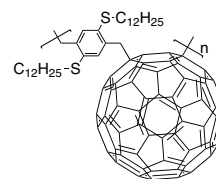
M.W. : 217.01 g/mole



### LT-S9941 | PFBS-C12, C60 PFBS

Formula :  $(C_{92}H_{55}S_2)_n$

M.W. : Mw~10000

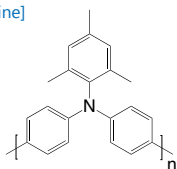


**LT-N168** | PTAA

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

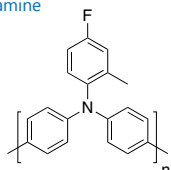
CAS No. : 1333317-99-9

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  $CH_2Cl_2$ )**LT-N1021** | 1F-PTAA

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

Grade : Mw &gt; 10,000

Formula :  $(C_{19}H_{14}FN)_n$ **LT-S8002** | BPD-3PA

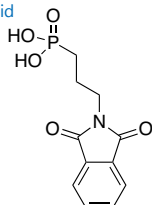
(3-(1,3-Dioxoisindolin-2-yl)propyl)phosphonic acid

CAS No. : 174350-89-1

Grade : &gt;98%

Formula :  $C_{11}H_{12}NO_5P$ 

M.W. : 269.19 g/mole

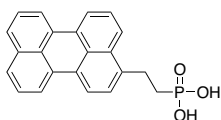
**LT-S8003** |

(2-(Perylen-3-yl)ethyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{22}H_{17}O_3P$ 

M.W. : 360.34 g/mole

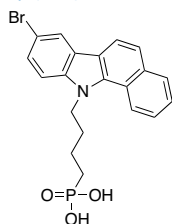
**LT-S8004** | BrBACz

(4-(8-Bromo-11H-benzo[a]carbazol-11-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{20}H_{19}BrNO_3P$ 

M.W. : 432.25 g/mole

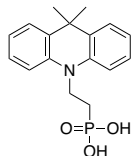
**LT-S8005** | 2PADmA

[2-(9,10-dihydro-9,9-dimethylacridine-10-yl)ethyl]phosphonic acid

Grade : &gt;98%

Formula :  $C_{17}H_{20}NO_3P$ 

M.W. : 317.32 g/mole

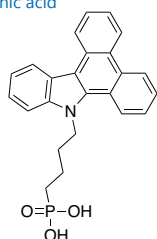
**LT-S8006** | A-4PADCB

(4-(9H-dibenzo[a,c]carbazol-9-yl)butyl)phosphonic acid

Grade : &gt;98%

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

M.W. : 403.41 g/mole

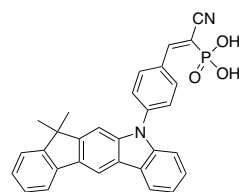
**LT-S8007** | XS10

(1-Cyano-2-(4-(7,7-dimethylindeno[2,1-b]carbazol-5(7H)-yl)phenyl)(3-vinyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{30}H_{23}N_2O_3P$ 

M.W. : 490.49 g/mole

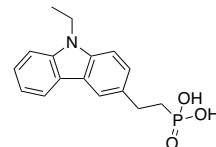
**LT-S8009** | EtCz3EPA

(2-(9-Ethyl-9H-carbazol-3-yl)ethyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{16}H_{18}NO_3P$ 

M.W. : 303.29 g/mole

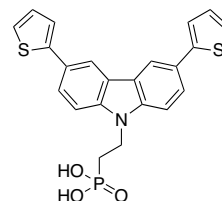
**LT-S8012** | S-2PACz

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

Grade : &gt;98%

Formula :  $C_{22}H_{18}NO_3PS_2$ 

M.W. : 439.49 g/mole

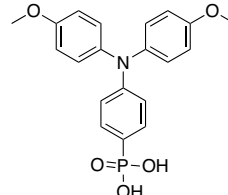
**LT-S8015** | PA

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

Grade : &gt;98%

Formula :  $C_{20}H_{20}NO_5P$ 

M.W. : 385.35 g/mole

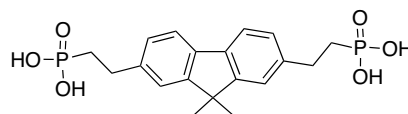
**LT-S8017** |

((9,9-Dimethyl-9H-fluorene-2,7-diyl)bis(ethane-2,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula :  $C_{19}H_{24}O_6P_2$ 

M.W. : 410.34 g/mole

**LT-S8021** | 4PAPyr

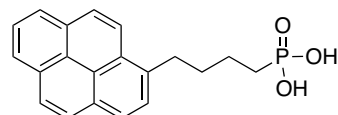
(4-(Pyren-1-yl)butyl)phosphonic acid

CAS No. : 1801779-71-4

Grade : &gt;98%

Formula :  $C_{20}H_{19}O_3P$ 

M.W. : 338.34 g/mole



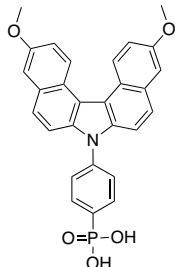
**LT-S8023** | MeO-PPADBC

(4-(3,11-Dimethoxy-9H-dibenzo[c,g]carbazol-7-yl)phenyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{28}H_{22}NO_3P$ 

M.W. : 483.45 g/mole

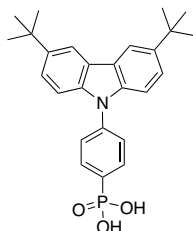
**LT-S8024** |

(4-(3,6-Di-tert-butyl-9H-carbazol-9-yl)phenyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{26}H_{30}NO_3P$ 

M.W. : 435.5 g/mole

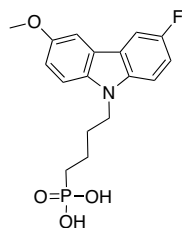
**LT-S8025** | MeOF-4PACz

(4-(3-Fluoro-6-methoxy-9H-carbazol-9-yl)phenyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{17}H_{19}FNO_4P$ 

M.W. : 351.31 g/mole

**LT-S8030** | FTPATC

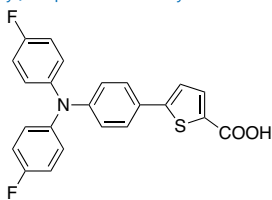
5-(4-[Bis(4-fluorophenyl)amino]phenyl)thiophene-2-carboxylic acid

Grade : &gt;98%

Formula :  $C_{23}H_{15}F_2NO_2S$ 

M.W. : 407.43 g/mole

UV : 365 nm (in THF)

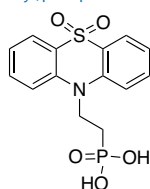
**LT-S8031** | PAPzO

(2-(5,5-Dioxido-10H-phenothiazin-10-yl)ethyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{14}H_{14}NO_5PS$ 

M.W. : 339.3 g/mole

**LT-S8032** | 4PA-spiro

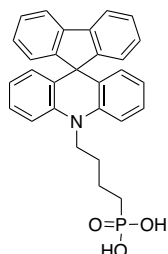
(4-(10H-spiro[acridine-9,9'-fluorene]-10-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{29}H_{26}NO_3P$ 

M.W. : 467.5 g/mole

UV : 343 nm (in DMF)

**LT-S8036** | PTZ-PA

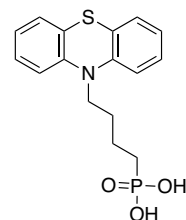
(4-(10H-phenothiazin-10-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{16}H_{18}NO_3PS$ 

M.W. : 335.36 g/mole

UV : 338 nm (film)

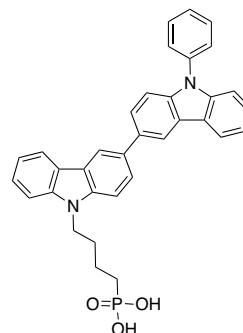
**LT-S8040** | 4PABCz

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

Grade : &gt;98%

Formula :  $C_{34}H_{29}N_2O_3P$ 

M.W. : 544.58 g/mole

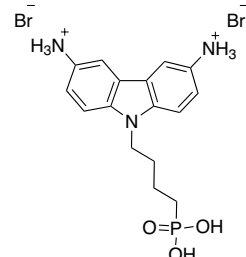
**LT-S8041** | BrNH3-4PACz

[4-(3,6-Bis-(bromoammonium)-9H-carbazol-9-yl)butyl] phosphonic acid

Grade : &gt;98%

Formula :  $C_{16}H_{22}Br_2N_3O_3P$ 

M.W. : 495.15 g/mole

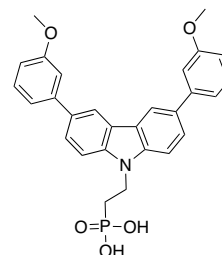
**LT-S8042** | m-PhPACz

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

Grade : &gt;98%

Formula :  $C_{28}H_{26}NO_5P$ 

M.W. : 487.48 g/mole

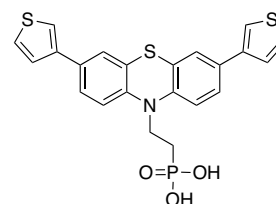
**LT-S8043** | Th-2EPT

(2-[3,7-Di(thiophen-3-yl)-10H-phenothiazin-10-yl]ethyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{22}H_{18}NO_3PS_3$ 

M.W. : 471.55 g/mole



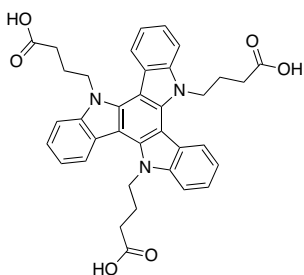
**LT-S8047** | 3CATAT-C3

(5H-Diindolo[3,2-a:3',2'-c]carbazole-5,10,15-triyl)tributanoic acid

Grade : &gt;98%

Formula :  $C_{36}H_{33}N_3O_6$ 

M.W. : 603.66 g/mole

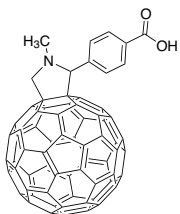
**LT-S9161** | C<sub>60</sub>-COOH-SAM4-(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno-C<sub>60</sub>-1h-[1,9-c]-pyrrol-2'-yl) benzoic acid

CAS No. : 631918-72-4

Grade : &gt;99%

Formula :  $C_{70}H_{11}NO_2$ 

M.W. : 897.84 g/mole

UV : 345 nm (in  $CH_2Cl_2$ )**LT-S9557** | Me-4PACz

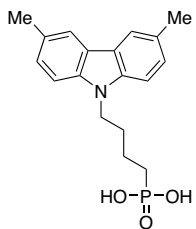
(4-(3,6-Dimethyl-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2747959-96-0,

Grade : &gt;99%

Formula :  $C_{18}H_{22}NO_3P$ 

M.W. : 331.35 g/mole

**LT-S9566** | 2PACz

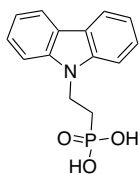
(2-(9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 20999-38-6

Grade : &gt;99%

Formula :  $C_{14}H_{14}NO_3P$ 

M.W. : 275.24 g/mole

**LT-S9567** | 4PACz

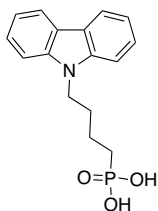
(4-(9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 20999-36-4

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_3P$ 

M.W. : 303.29 g/mole

**LT-S9568** | 6PACz

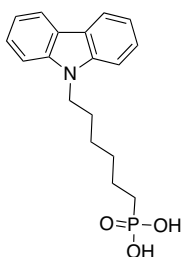
(6-(9H-carbazol-9-yl)hexyl)phosphonic acid

CAS No. : 3015516-21-6

Grade : &gt;99%

Formula :  $C_{18}H_{22}NO_3P$ 

M.W. : 331.35 g/mole

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

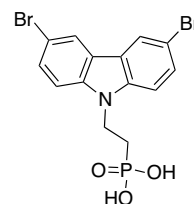
(2-(3,6-Dibromo-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 2762888-11-7

Grade : &gt;99%

Formula :  $C_{14}H_{12}Br_2NO_3P$ 

M.W. : 433.03 g/mole

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

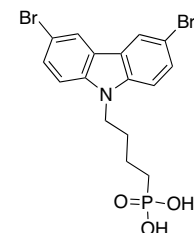
(4-(3,6-Dibromo-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2996161-28-3

Grade : &gt;99%

Formula :  $C_{16}H_{16}Br_2NO_3P$ 

M.W. : 461.08 g/mole

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

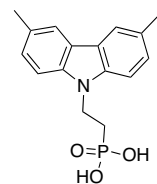
(2-(3,6-Dimethyl-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 2996161-30-7

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_3P$ 

M.W. : 303.29 g/mole

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

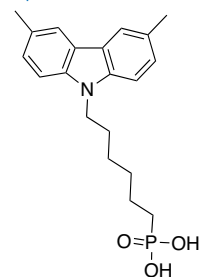
(6-(3,6-Dimethyl-9H-carbazol-9-yl)hexyl)phosphonic acid

CAS No. : 2996161-29-4

Grade : &gt;99%

Formula :  $C_{20}H_{26}NO_3P$ 

M.W. : 359.4 g/mole

**LT-S9573** | MeO-2PACz

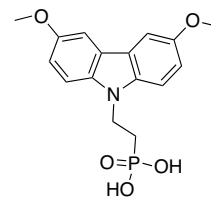
(2-(3,6-Dimethoxy-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 2377770-18-6

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_5P$ 

M.W. : 335.29 g/mole

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

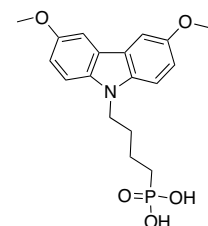
(4-(3,6-Dimethoxy-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 2922526-56-3

Grade : &gt;99%

Formula :  $C_{18}H_{22}NO_5P$ 

M.W. : 363.34 g/mole



**LT-S9583** | EADR03

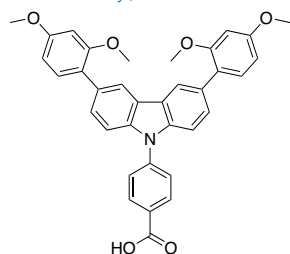
4-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)benzoic acid

CAS No. : 2918298-65-2

Grade : &gt;99%

Formula :  $C_{35}H_{29}NO_6$ 

M.W. : 559.61 g/mole

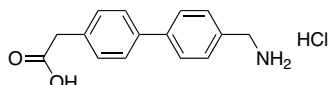
**LT-S9647** |

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

Grade : &gt;99%

Formula :  $C_{15}H_{16}ClNO_2$ 

M.W. : 277.75 g/mole

**LT-S9648** | 3PACz

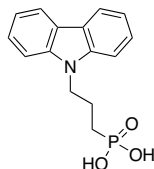
(3-(9H-carbazol-9-yl)propyl)phosphonic acid

CAS No. : 915376-57-7

Grade : &gt;99%

Formula :  $C_{15}H_{16}NO_3P$ 

M.W. : 289.27 g/mole

**LT-S9650** | LS1

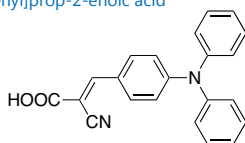
2-Cyano-3-[4-(N-phenylanilino)phenyl]prop-2-enoic acid

CAS No. : 30388-31-9

Grade : &gt;99%

Formula :  $C_{22}H_{16}N_2O_2$ 

M.W. : 340.37 g/mole

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

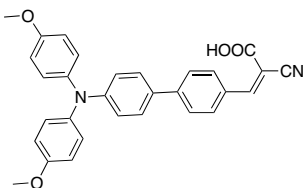
(Z)-3-(4'-(Bis(4-methoxyphenyl)amino)-[1,1'-biphenyl]-4-yl)-2-cyanoacrylic acid

CAS No. : 1813558-55-2

Grade : &gt;99%

Formula :  $C_{30}H_{24}N_2O_4$ 

M.W. : 476.52 g/mole

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

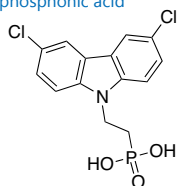
(2-(3,6-Dichloro-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 3036926-72-1

Grade : &gt;99%

Formula :  $C_{14}H_{12}Cl_2NO_3P$ 

M.W. : 344.13 g/mole

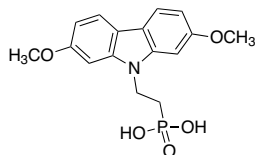
**LT-S9674** | DC-PA

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

Grade : &gt;99%

Formula :  $C_{16}H_{18}NO_5P$ 

M.W. : 335.29 g/mole

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

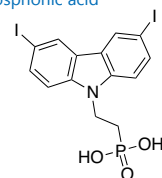
(2-(3,6-Diiodo-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 3026275-69-1

Grade : &gt;99%

Formula :  $C_{14}H_{12}I_2NO_3P$ 

M.W. : 527.03 g/mole

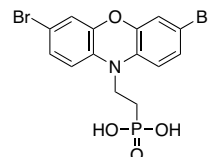
**LT-S9676** | Br-2EPO

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

Grade : &gt;99%

Formula :  $C_{14}H_{12}Br_2NO_3P$ 

M.W. : 449.03 g/mole

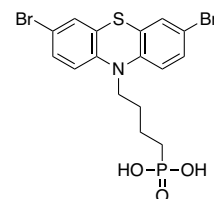
**LT-S9678** | 2BrPTZPA

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}Br_2NO_3PS$ 

M.W. : 493.15 g/mole

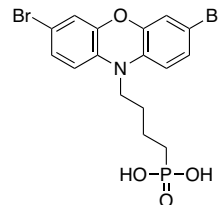
**LT-S9679** | 2BrPXZPA

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}Br_2NO_4P$ 

M.W. : 477.08 g/mole

**LT-S9727** | MPA-CPA

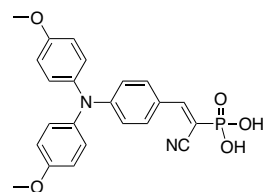
(2-(4-(Bis(4-methoxyphenyl)amino)phenyl)-1-cyanovinyl)phosphonic acid

CAS No. : 2212003-31-9

Grade : &gt;98%

Formula :  $C_{23}H_{21}N_2O_5P$ 

M.W. : 436.4 g/mole

**LT-S9737** | 3PATAT-C3

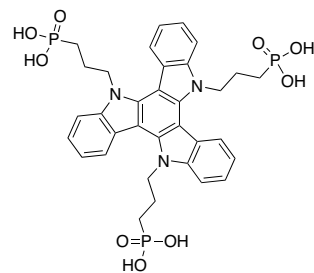
((5H-Diindolo[3,2-a:3',2'-c]carbazole-5,10,15-triyl)tris(propane-3,1-diyl)) triphosphonic acid

CAS No. : 3048690-10-1

Grade : &gt;98%

Formula :  $C_{33}H_{36}N_3O_9P_3$ 

M.W. : 711.57 g/mole



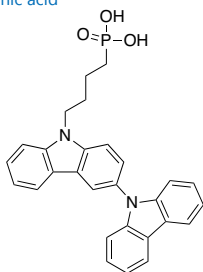
**LT-S9738** | 4,3BuPACz

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

Grade : &gt;98%

Formula :  $C_{28}H_{25}N_2O_3P$ 

M.W. : 468.48 g/mole

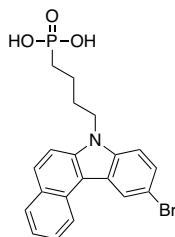
**LT-S9739** | BCBBBr-C4PA

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

Grade : &gt;99%

Formula :  $C_{20}H_{19}BrNO_3P$ 

M.W. : 432.25 g/mole

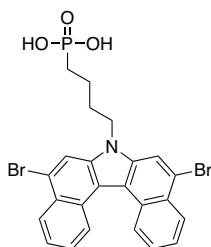
**LT-S9741** | DCB-BPA

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

Grade : &gt;99%

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

M.W. : 561.2 g/mole

**LT-S9747** | DMAcPA

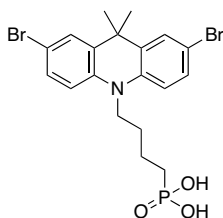
(4-(2,7-Dibromo-9,9-dimethylacridin-10(9H)-yl)butyl)phosphonic acid

CAS No. : 2971088-37-4

Grade : &gt;98%

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

M.W. : 503.16 g/mole

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

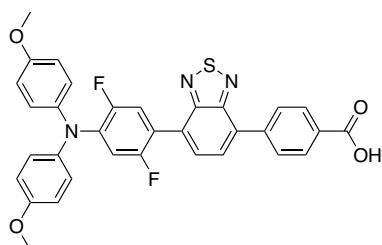
(4-(7-(4-(Bis(4-methoxyphenyl)amino)-2,5-difluorophenyl)benzo[c][1,2,5]thiadiazol-4-yl)benzoic acid

CAS No. : 2810129-96-3

Grade : &gt;98%

Formula :  $C_{33}H_{23}F_2N_3O_4S$ 

M.W. : 595.62 g/mole

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

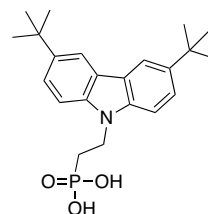
(2-(3,6-Di-tert-butyl-9H-carbazol-9-yl)ethyl)phosphonic acid

CAS No. : 3053358-82-7

Grade : &gt;98%

Formula :  $C_{22}H_{30}NO_3P$ 

M.W. : 387.45 g/mole

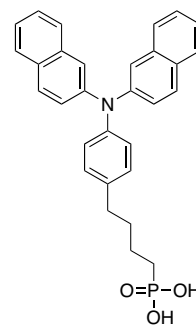
**LT-S9791**

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

Grade : &gt;98%

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

M.W. : 481.52 g/mole

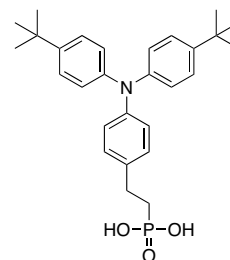
**LT-S9792**

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

Grade : &gt;98%

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

M.W. : 465.56 g/mole

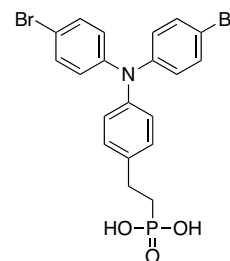
**LT-S9793**

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

Grade : &gt;98%

Formula :  $C_{20}H_{16}Br_2NO_3P$ 

M.W. : 511.14 g/mole

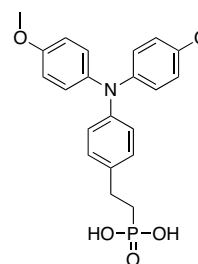
**LT-S9794**

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

Grade : &gt;98%

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

M.W. : 413.4 g/mole



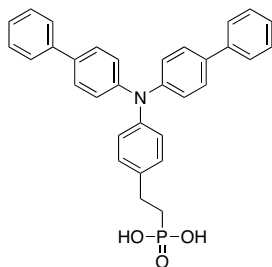
## LT-S9795

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

Grade : &gt;98%

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

M.W. : 505.54 g/mole



## LT-S9796

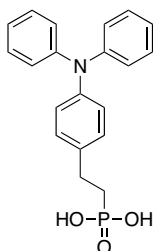
(4-(Diphenylamino)phenethyl)phosphonic acid

CAS No. : 3015516-16-9

Grade : &gt;98%

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

M.W. : 353.35 g/mole



## LT-S9797

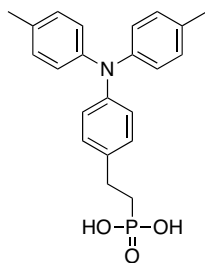
(4-(Di-p-tolylamino)phenethyl)phosphonic acid

CAS No. : 3036995-73-7

Grade : &gt;98%

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

M.W. : 381.4 g/mole



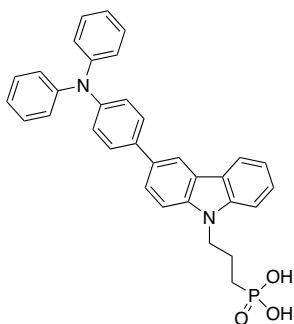
## LT-S9798 4dp3PACz

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

Grade : &gt;98%

Formula :  $C_{33}H_{29}N_2O_3P$ 

M.W. : 532.57 g/mole



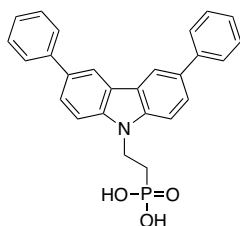
## LT-S9801 Ph-2PACz

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

Grade : &gt;99%

Formula :  $C_{26}H_{22}NO_3P$ 

M.W. : 427.43 g/mole



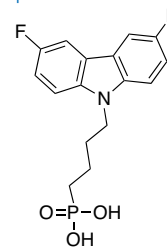
## LT-S9845 F-4PACz

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}F_2NO_3P$ 

M.W. : 339.27 g/mole



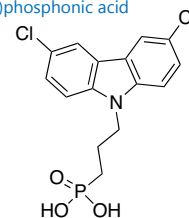
## LT-S9851 Cl-3PACz

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

Grade : &gt;99%

Formula :  $C_{15}H_{14}Cl_2NO_3P$ 

M.W. : 358.16 g/mole



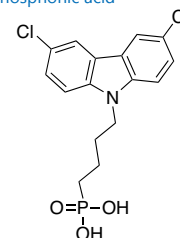
## LT-S9852 Cl-4PACz

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

Grade : &gt;99%

Formula :  $C_{16}H_{16}Cl_2NO_3P$ 

M.W. : 372.18 g/mole



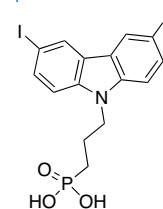
## LT-S9855 I-3PACz

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

Grade : &gt;99%

Formula :  $C_{15}H_{14}I_2NO_3P$ 

M.W. : 541.06 g/mole



## LT-S9856 I-4PACz

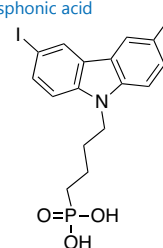
(4-(3,6-Diiodo-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 3026275-67-9

Grade : &gt;99%

Formula :  $C_{16}H_{16}I_2NO_3P$ 

M.W. : 555.09 g/mole



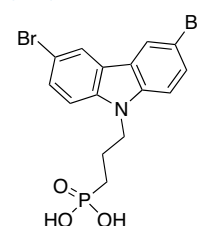
## LT-S9857 Br-3PACz

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

Grade : &gt;99%

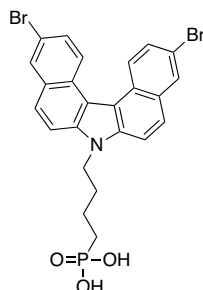
Formula :  $C_{15}H_{14}Br_2NO_3P$ 

M.W. : 447.06 g/mole



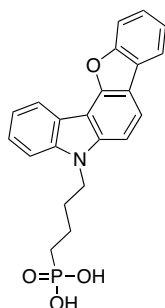
### LT-S9859 | Br-4PADBC

(4-(3,11-Dibromo-7H-dibenzo[c,g]carbazol-7-yl)butyl)phosphonic acid  
CAS No. : 3023557-25-4  
Grade : >98%  
Formula :  $C_{24}H_{20}Br_2NO_3P$   
M.W. : 561.2 g/mole



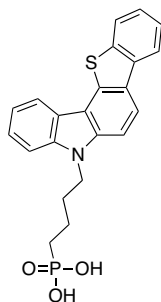
### LT-S9860 | CbzBF

(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



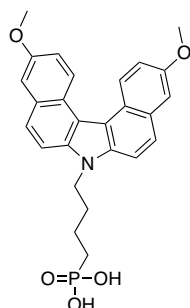
### LT-S9861 | CbzBT

(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



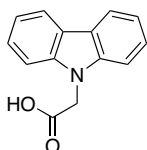
### LT-S9862 | MeO-4PADBC

(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



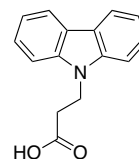
### LT-S9863 | 9CAA

2-(9H-Carbazol-9-yl)acetic acid  
CAS No. : 524-80-1  
Grade : >98%  
Formula :  $C_{14}H_{11}NO_2$   
M.W. : 225.24 g/mole



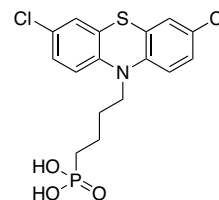
### LT-S9864 | 9CPA

3-(9H-Carbazol-9-yl)propanoic acid  
CAS No. : 6622-54-4  
Grade : >98%  
Formula :  $C_{15}H_{13}NO_2$   
M.W. : 239.27 g/mole



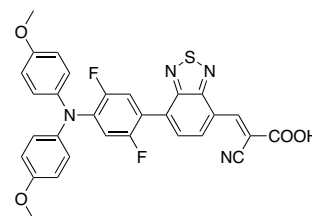
### LT-S9867 | TDPA-Cl

(4-(3,7-Dichloro-10H-phenothiazin-10-yl)butyl)phosphonic acid  
Grade : >98%  
Formula :  $C_{16}H_{16}Cl_2NO_3PS$   
M.W. : 404.25 g/mole



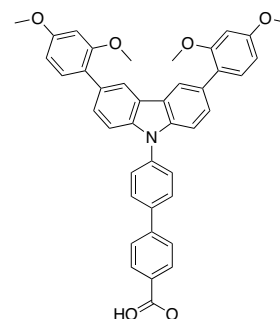
### LT-S9870 | 2FMFA-BT-CA

(E)-3-(7-(4-(Bis(4-methoxyphenyl)amino)-2,5-difluorophenyl)benzo[c][1,2,5]thiadiazol-4-yl)-2-cyanoacrylic acid  
Grade : >98%  
Formula :  $C_{30}H_{20}F_2N_4O_4S$   
M.W. : 570.57 g/mole



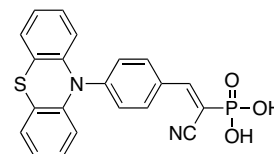
### LT-S9872 | EADR04

4'-(3,6-Bis(2,4-dimethoxyphenyl)-9H-carbazol-9-yl)-[1,1'-biphenyl]-4-carboxylic acid  
Grade : >98%  
Formula :  $C_{41}H_{33}NO_6$   
M.W. : 635.7 g/mole



### LT-S9874 | PTZ-CPA

(E)-(2-(4-(10H-phenothiazin-10-yl)phenyl)-1-cyanovinyl)phosphonic acid  
Grade : >98%  
Formula :  $C_{21}H_{15}N_2O_3PS$   
M.W. : 406.39 g/mole



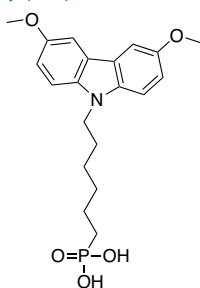
**LT-S9875** | MeO-6PACz

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

Grade : &gt;99%

Formula :  $C_{20}H_{26}NO_5P$ 

M.W. : 391.4 g/mole

**LT-S9876** | tBu-4PACz

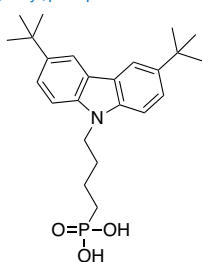
(4-(3,6-Di-tert-butyl-9H-carbazol-9-yl)butyl)phosphonic acid

CAS No. : 3023627-39-3

Grade : &gt;99%

Formula :  $C_{24}H_{34}NO_3P$ 

M.W. : 415.51 g/mole

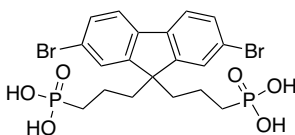
**LT-S9889** |

((2,7-Dibromo-9H-fluorene-9,9-diyl)bis(propane-3,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula :  $C_{19}H_{23}Br_2O_6P_2$ 

M.W. : 568.13 g/mole

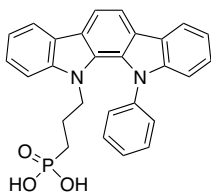
**LT-S9896** |

(3-(12-Phenylindolo[2,3-a]carbazol-11(12H)-yl)propyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{27}H_{23}N_2O_4P$ 

M.W. : 454.46 g/mole

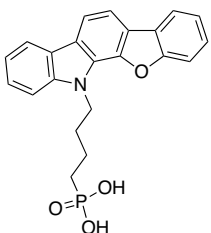
**LT-S9897** |

(4-(12H-benzofuro[2,3-a]carbazol-12-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{22}H_{20}NO_4P$ 

M.W. : 393.37 g/mole

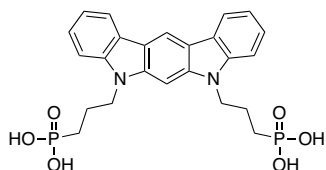
**LT-S9898** | IDCz-3

(Indolo[2,3-b]carbazole-5,7-diylbis(propane-3,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula :  $C_{24}H_{26}N_2O_6P_2$ 

M.W. : 500.42 g/mole

**LT-S9899** | 3-BPIC(i)

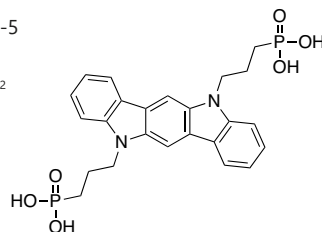
(Indolo[3,2-b]carbazole-5,11-diylbis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3044727-02-5

Grade : &gt;98%

Formula :  $C_{24}H_{26}N_2O_6P_2$ 

M.W. : 500.42 g/mole

**LT-S9900** | 3-BPIC

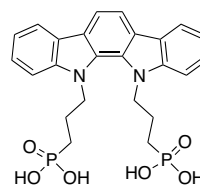
(Indolo[2,3-a]carbazole-11,12-diylbis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-49-9

Grade : &gt;98%

Formula :  $C_{24}H_{26}N_2O_6P_2$ 

M.W. : 500.42 g/mole

**LT-S9901** | 3-BPIC-Br

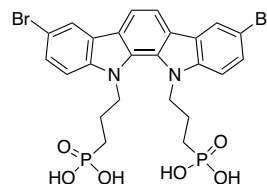
((3,8-Dibromoindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-52-4

Grade : &gt;98%

Formula :  $C_{24}H_{24}Br_2N_2O_6P_2$ 

M.W. : 658.21 g/mole

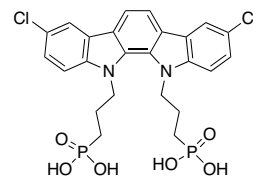
**LT-S9902** | 3-BPIC-Cl

((3,8-Dichloroindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

Grade : &gt;98%

Formula :  $C_{24}H_{24}Cl_2N_2O_6P_2$ 

M.W. : 569.31 g/mole

**LT-S9903** | 3-BPIC-F

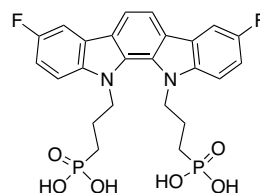
((3,8-Difluoroindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-50-2

Grade : &gt;98%

Formula :  $C_{24}H_{24}F_2N_2O_6P_2$ 

M.W. : 536.4 g/mole

**LT-S9904** | 3-BPIC-OMe

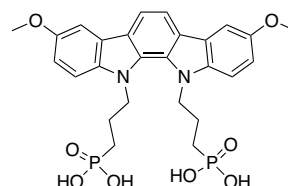
((3,8-Dimethoxyindolo[2,3-a]carbazole-11,12-diyl)bis(propane-3,1-diyl))diphosphonic acid

CAS No. : 3038707-54-6

Grade : &gt;98%

Formula :  $C_{26}H_{30}N_2O_8P_2$ 

M.W. : 560.47 g/mole



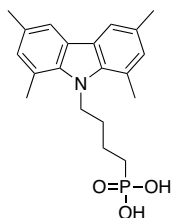
## LT-S9905

(4-(1,3,6,8-Tetramethyl-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{20}H_{26}NO_3P$ 

M.W. : 359.4 g/mole



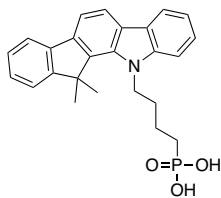
## LT-S9906

(4-(12,12-Dimethylindeno[2,1-a]carbazol-11(12H)-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{25}H_{26}NO_3P$ 

M.W. : 419.45 g/mole



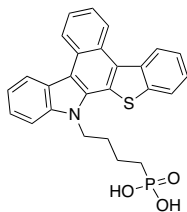
## LT-S9907

(4-(14H-benzo[c]benzo[4,5]thieno[2,3-a]carbazol-14-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{26}H_{22}NO_3PS$ 

M.W. : 459.5 g/mole



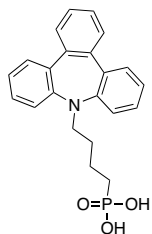
## LT-S9908

(4-(9H-tribenzo[b,d,f]azepin-9-yl)butyl)phosphonic acid

Grade : &gt;98%

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

M.W. : 379.39 g/mole



## LT-S9909 Me-PhpPACz

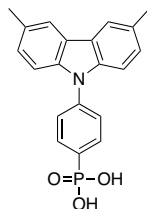
(4-(3,6-Dimethyl-9H-carbazol-9-yl)phenyl)phosphonic acid

CAS No. : 3046309-16-1

Grade : &gt;98%

Formula :  $C_{20}H_{18}NO_3P$ 

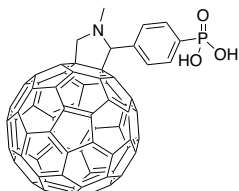
M.W. : 351.34 g/mole



## LT-S9966 C60-PA, CPPA, C60-C6-PA

(1',5'-Dihydro-1'-methyl-2'H-[5,6]fullereno-C<sub>60</sub>-1h-[1,9-c]pyrrol-2'-yl)phenylphosphonic acidFormula :  $C_{69}H_{11}NO_3P$ 

M.W. : 932.8 g/mole



## LT-S9998 Py3

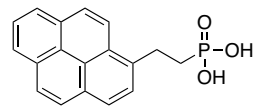
(2-(Pyren-1-yl)ethyl)phosphonic acid

CAS No. : 1520027-62-6

Grade : &gt;99%

Formula :  $C_{18}H_{15}O_3P$ 

M.W. : 310.28 g/mole



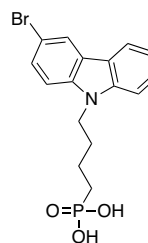
## LT-S9999 BrCz

(4-(3-Bromo-9H-carbazol-9-yl)butyl)phosphonic acid

Grade : &gt;98%

Formula :  $C_{16}H_{17}BrNO_3P$ 

M.W. : 382.19 g/mole



## B1361 MTPA-BA

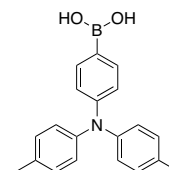
(4-(Di-p-tolylamino)phenyl)boronic acid

CAS No. : 654067-65-9

Grade : &gt;97%

Formula :  $C_{20}H_{20}BNO_2$ 

M.W. : 317.2 g/mole



## LT-MOF0111 NA

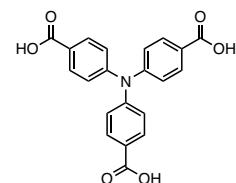
4,4',4''-Nitrilotribenzoic acid

CAS No. : 118996-38-6

Grade : &gt;98%

Formula :  $C_{21}H_{15}NO_6$ 

M.W. : 377.35 g/mole



## LT-MOF0163 CB-PA

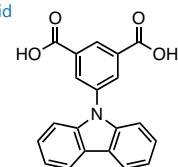
5-carbazol-9-ylbenzene-1,3-dicarboxylic acid

CAS No. : 1800465-14-8

Grade : &gt;98%

Formula :  $C_{20}H_{13}NO_4$ 

M.W. : 331.32 g/mole



## Hole Transport

## LT-N148 | TFB

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

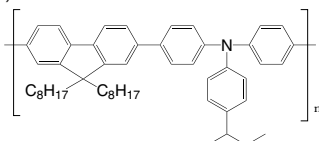
CAS No. : 220797-16-0

Grade : MW >30,000 (GPC)

Formula : (C<sub>51</sub>H<sub>61</sub>N)<sub>n</sub>

UV : 389 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

PL : 443 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



## LT-N149 | Poly-TPD

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

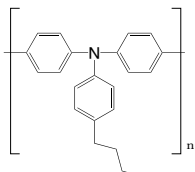
CAS No. : 472960-35-3

Grade : Mw = 20,000~200,000 (GPC)

Formula : (C<sub>22</sub>H<sub>21</sub>N)<sub>n</sub>

UV : 371, 388 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

PL : 424 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



## LT-N168 | PTAA

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

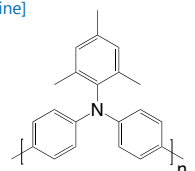
CAS No. : 133317-99-9

Grade : Mw = 20,000~100,000 (GPC)

Formula : (C<sub>21</sub>H<sub>19</sub>N)<sub>n</sub>

UV : 388 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

PL : 424 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



## LT-S909 | P3HT

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

CAS No. : 110134-47-9 / 104934-50-1

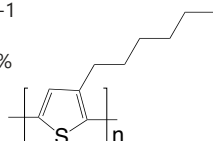
Grade : Mw >45,000 (GPC),

Electronic Grade : Regioregular >93%

Formula : (C<sub>10</sub>H<sub>14</sub>S)<sub>n</sub>

UV : 445 nm (in THF)

PL : 564 nm (in THF)



## LT-S922 | Spiro-MeOTAD / Spiro-OMeTAD

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

CAS No. : 207739-72-8

Grade : >99.5%

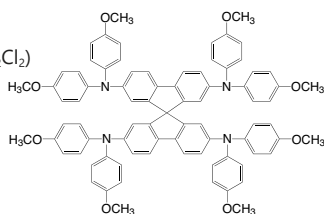
TGA : >360 °C (0.5% wt. loss)

Formula : C<sub>81</sub>H<sub>68</sub>N<sub>4</sub>O<sub>8</sub>

M.W. : 1225.43 g/mole

UV : 306, 385 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

PL : 429 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



## LT-S9145 | p,m-Spiro-MeOTAD

N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-Tetrakis(3-methoxyphenyl)-N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

CAS No. : 1573202-44-4

Grade : >99%

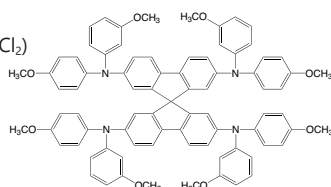
TGA : >280 °C (0.5% wt. loss)

Formula : C<sub>81</sub>H<sub>68</sub>N<sub>4</sub>O<sub>8</sub>

M.W. : 1225.43 g/mole

UV : 308, 378 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

PL : 414 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



## LT-S9146 | p,o-Spiro-MeOTAD

N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-Tetrakis(2-methoxyphenyl)-N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-tetrakis(4-methoxyphenyl)-9,9'-spirobifluorene-2,2',7,7'-tetraamine

CAS No. : 1628961-22-7

Grade : >98.5%

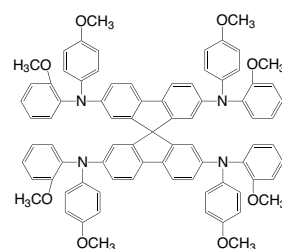
TGA : >280 °C (0.5% wt. loss)

Formula : C<sub>81</sub>H<sub>68</sub>N<sub>4</sub>O<sub>8</sub>

M.W. : 1225.43 g/mole

UV : 316, 375 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

PL : 418 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



## LT-S9170 | Spiro-MeOTAD-HTM1

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

CAS No. : 1573202-31-9

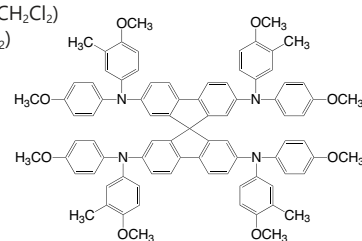
Grade : >99%

Formula : C<sub>85</sub>H<sub>76</sub>N<sub>4</sub>O<sub>8</sub>

M.W. : 1281.53 g/mole

UV : 306, 385 nm (in CH<sub>2</sub>Cl<sub>2</sub>)

PL : 429 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



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

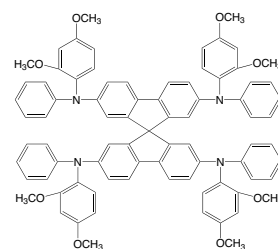
N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-Tetrakis(2,4-dimethoxyphenyl)-N<sub>2</sub>,N<sub>2</sub>',N<sub>7</sub>,N<sub>7</sub>'-tetraphenyl-9,9'-spirobifluorene-2,2',7,7'-tetraamine

CAS No. : 2102348-92-3

Grade : >99%

Formula : C<sub>81</sub>H<sub>68</sub>N<sub>4</sub>O<sub>8</sub>

M.W. : 1225.43 g/mole

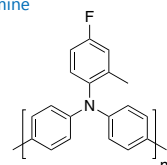


## LT-N1021 | 1F-PTAA

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

Grade : Mw >10,000

Formula : (C<sub>19</sub>H<sub>14</sub>FN)<sub>n</sub>



## Hole Transport

## 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

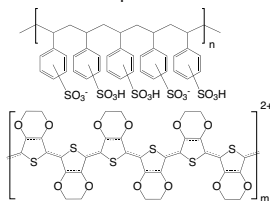
Solid content: 1.3 - 1.7 wt%

PSD d50 : 80 nm

PSD d90 : 100 nm

Resistivity : 500-5000  $\Omega\text{cm}$ 

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) PF<sub>6</sub>\_Salt

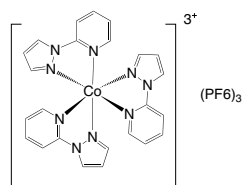
Tris(1-(pyridin-2-yl)-1H-pyrazol)cobalt(III) tris(hexafluorophosphate)

CAS No. : 1346416-71-4

Grade : &gt;99% (NMR)

Formula : C<sub>24</sub>H<sub>21</sub>CoF<sub>18</sub>N<sub>9</sub>P<sub>3</sub>

M.W. : 929.31 g/mole

LT-S9183 | Co(II)(bpy)<sub>3</sub>(PF<sub>6</sub>)<sub>2</sub>

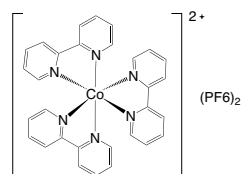
Tris-(2,2'-bipyridine)cobalt(II) bis(hexafluorophosphate)

CAS No. : 79151-78-3

Grade : &gt;99% (NMR)

Formula : C<sub>30</sub>H<sub>24</sub>CoF<sub>12</sub>N<sub>6</sub>P<sub>2</sub>

M.W. : 817.41 g/mole

LT-S9184 | Co(III) (bpy)<sub>3</sub>(PF<sub>6</sub>)<sub>3</sub>

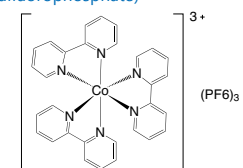
Tris-(2,2'-bipyridine)cobalt(III) tris(hexafluorophosphate)

CAS No. : 28277-53-4

Grade : &gt;99% (NMR)

Formula : C<sub>30</sub>H<sub>24</sub>CoF<sub>18</sub>N<sub>6</sub>P<sub>3</sub>

M.W. : 962.38 g/mole

LT-S9185 | Co(II)(bpy)<sub>3</sub>(TFSI)<sub>2</sub>

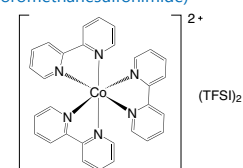
Tris-(2,2'-bipyridine)cobalt(II) bis(trifluoromethanesulfonimide)

CAS No. : 1353745-90-0

Grade : &gt;99% (NMR)

Formula : C<sub>34</sub>H<sub>24</sub>CoF<sub>12</sub>N<sub>6</sub>O<sub>8</sub>S<sub>4</sub>

M.W. : 1087.78 g/mole

LT-S9186 | Co(III)(bpy)<sub>3</sub>(TFSI)<sub>3</sub>

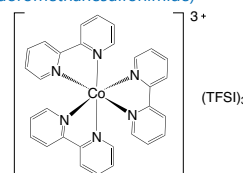
Tris-(2,2'-bipyridine)cobalt(III) tris(trifluoromethanesulfonimide)

CAS No. : 1353745-91-1

Grade : &gt;99% (NMR)

Formula : C<sub>36</sub>H<sub>24</sub>CoF<sub>18</sub>N<sub>6</sub>O<sub>12</sub>S<sub>6</sub>

M.W. : 1367.92 g/mole

LT-S9187 | Co(II)(bpy-pz)<sub>2</sub>(PF<sub>6</sub>)<sub>2</sub>

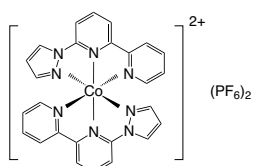
Bis(6-(1H-pyrazol-1-yl)-2,2'-bipyridine)cobalt(II) bis(hexafluorophosphate), mixture of stereoisomers

CAS No. : 312322-08-0

Grade : &gt;99% (NMR)

Formula : C<sub>26</sub>H<sub>20</sub>CoF<sub>12</sub>N<sub>8</sub>P<sub>2</sub>

M.W. : 793.35 g/mole

LT-S9188 | Co(III)(bpy-pz)<sub>2</sub>(PF<sub>6</sub>)<sub>3</sub>

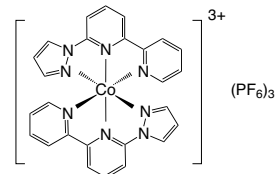
Bis(6-(1H-pyrazol-1-yl)-2,2'-bipyridine)cobalt(III) tris(hexafluorophosphate), mixture of stereoisomers

CAS No. : 1346417-60-4

Grade : &gt;99% (NMR)

Formula : C<sub>26</sub>H<sub>20</sub>CoF<sub>18</sub>N<sub>8</sub>P<sub>3</sub>

M.W. : 938.32 g/mole

LT-S9191 | Co(II)(phen)<sub>3</sub>(PF<sub>6</sub>)<sub>2</sub>

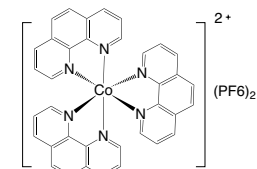
Tris(1,10-phenanthroline)cobalt(II) bis(hexafluorophosphate)

CAS No. : 31876-74-1

Grade : &gt;99% (NMR)

Formula : C<sub>36</sub>H<sub>24</sub>CoF<sub>12</sub>N<sub>6</sub>P<sub>2</sub>

M.W. : 889.48 g/mole

LT-S9192 | Co(III)(phen)<sub>3</sub>(PF<sub>6</sub>)<sub>3</sub>

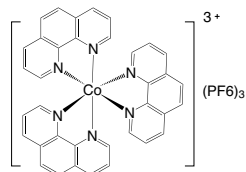
Tris(1,10-phenanthroline)cobalt(III) tris(hexafluorophosphate)

CAS No. : 28277-59-0

Grade : &gt;99% (NMR)

Formula : C<sub>36</sub>H<sub>24</sub>CoF<sub>18</sub>N<sub>6</sub>P<sub>3</sub>

M.W. : 1034.44 g/mole

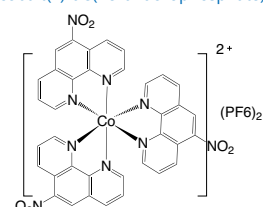
LT-S9193 | Co(II)(NO<sub>2</sub>-phen)<sub>3</sub>(PF<sub>6</sub>)<sub>2</sub>

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

Grade : &gt;99% (NMR)

Formula : C<sub>36</sub>H<sub>21</sub>CoF<sub>12</sub>N<sub>9</sub>O<sub>6</sub>P<sub>2</sub>

M.W. : 1024.47 g/mole

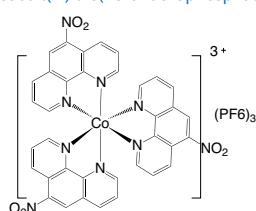
LT-S9194 | Co(III)(NO<sub>2</sub>-phen)<sub>3</sub>(PF<sub>6</sub>)<sub>3</sub>

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

Grade : &gt;99% (NMR)

Formula : C<sub>36</sub>H<sub>21</sub>CoF<sub>18</sub>N<sub>9</sub>O<sub>6</sub>P<sub>3</sub>

M.W. : 1169.43 g/mole

LT-S9195 | FK102 Co(II) PF<sub>6</sub> salt

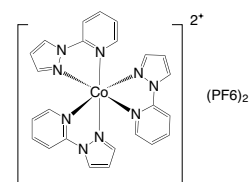
Tris(1-(pyridin-2-yl)-1H-pyrazol)cobalt(II) bis(hexafluorophosphate)

CAS No. : 1392221-69-0

Grade : &gt;99% (NMR)

Formula : C<sub>24</sub>H<sub>21</sub>CoF<sub>12</sub>N<sub>9</sub>P<sub>2</sub>

M.W. : 784.35 g/mole



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

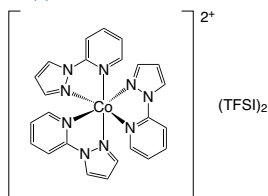
Tris(1-(pyridin-2-yl)-1H-pyrazol)cobalt(II)

bis(trifluoromethanesulfonimide)

Grade : &gt;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

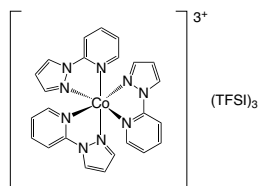
Tris(1-(pyridin-2-yl)-1H-pyrazol)cobalt(III) tris(trifluoromethanesulfonimide)

CAS No. : 2057441-94-6

Grade : &gt;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

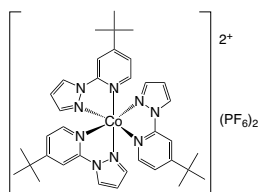
Tris[4-(tert-butyl)-2-(1H-pyrazol-1-yl)pyridine]cobalt(II)

bis(hexafluorophosphate)

Grade : &gt;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-(1H-pyrazol-1-yl)pyridine]cobalt(II)

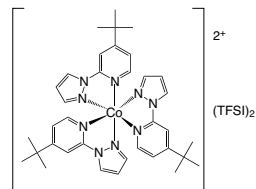
bis(trifluoromethanesulfonimide)

CAS No. : 1447938-65-9

Grade : &gt;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-(1H-pyrazol-1-yl)pyridine]cobalt(III)

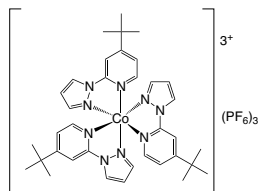
tris(hexafluorophosphate)

CAS No. : 1980817-19-3

Grade : &gt;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

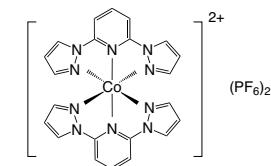
Bis(2,6-di(1H-pyrazol-1-yl)pyridine)cobalt(II) di(hexafluorophosphate)

CAS No. : 312322-10-4

Grade : &gt;99% (NMR)

Formula :  $C_{22}H_{18}CoN_{10}P_2F_{12}$ 

M.W. : 771.31 g/mole

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

Bis(2,6-di(1H-pyrazol-1-yl)pyridine)cobalt(II)

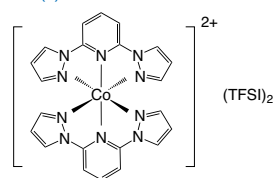
bis(trifluoromethanesulfonimide)

CAS No. : 147938-66-0

Grade : &gt;99% (NMR)

Formula :  $C_{26}H_{18}CoN_{12}O_8S_4F_{12}$ 

M.W. : 1041.67 g/mole

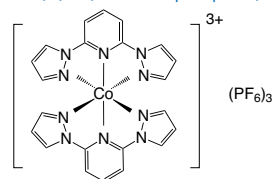
**LT-S9414** | FK 269 Co(III) PF6 salt

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

Grade : &gt;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

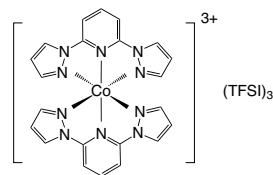
Bis(2,6-di(1H-pyrazol-1-yl)pyridine)cobalt(III)tris(trifluoromethanesulfonimide)

CAS No. : 1447938-63-7

Grade : &gt;99% (NMR)

Formula :  $C_{28}H_{18}CoN_{13}O_{12}S_6F_{18}$ 

M.W. : 1321.83 g/mole



**LT-S945** | **N719**

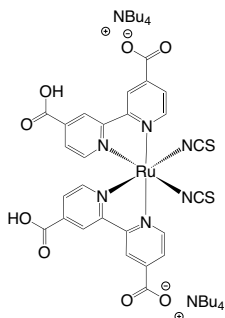
Di-tetrabutylammonium cis-bis(isothiocyanato)bis(2,2'-bipyridyl-4,4'-dicarboxylato)ruthenium(II)  
CAS No. : 207347-46-4

Grade : >98%

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**

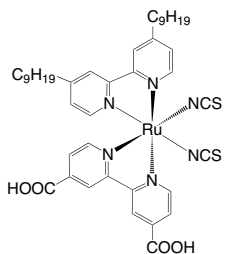
cis-Bis(isothiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylato)(4,4'-di-nonyl-2'-bipyridyl)ruthenium(II)  
CAS No. : 502693-09-6

Grade : >98%

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-3H-indolium-2-yl)-methylene)-2-((E)-(1-ethyl-1,1-dimethylindolin-2-ylidene)-methyl)-3-oxocyclobut-1-enolate  
CAS No. : 951248-19-4

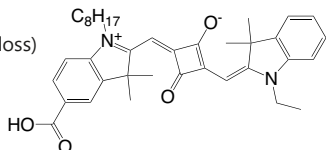
Grade : >99%

TGA : >220 °C (0.5% wt. loss)

Formula :  $C_{37}H_{44}N_2O_4$

M.W. : 580.67 g/mole

UV : 637 nm (in DMF)

**LT-S9038** | **SQ02**

(E)-4-((5-Carboxy-3,3-dimethyl-1-octyl-3H-indolium-2-yl)-methylene)-2-((E)-(3-ethyl-1,1-dimethyl-1H-benzo[e]indol-2(3H)-ylidene)methyl)-3-oxocyclobut-1-enolate  
CAS No. : 1240041-84-2

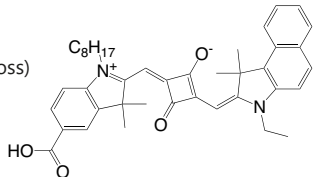
Grade : >99%

TGA : >250 °C (0.5% wt. loss)

Formula :  $C_{41}H_{46}N_2O_4$

M.W. : 630.81 g/mole

UV : 662 nm (in DMF)

**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

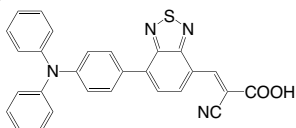
Grade : >99% (NMR)

TGA : >240 °C (0.5% wt. loss)

Formula :  $C_{28}H_{18}N_4O_2S$

M.W. : 474.53 g/mole

UV : 324, 486 nm (in THF)

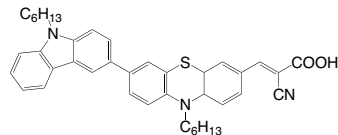
**LT-S9120** | **PTCbCA**

(E)-2-Cyano-3-(10-hexyl-7-(9-hexyl-9H-carbazol-3-yl)-10H-phenothiazin-3-yl)acrylic acid  
CAS No. : 1347758-70-6

Grade : >99% (NMR)

Formula :  $C_{40}H_{31}N_3O_2S$

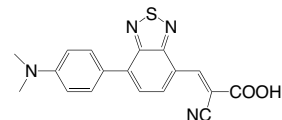
M.W. : 627.84 g/mole

**LT-S9121** | **CDMA-PBTCA**

2-Cyano-3-(7-(4-(dimethylamino)phenyl)-benzo[c][1,2,5]-thiadiazol-4-yl)acrylic acid  
Grade : >99% (NMR)

Formula :  $C_{18}H_{14}N_4O_2S$

M.W. : 350.39 g/mole

**LT-S9122** | **DTDCPB**

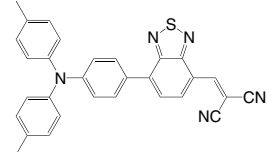
2-((7-(4-(Dip-tolylamino)phenyl)benzo[c][1,2,5]thiadiazol-4-yl)methylene)malononitrile  
CAS No. : 1393343-58-2

Grade : >99%

Formula :  $C_{30}H_{21}N_5S$

M.W. : 483.59 g/mole

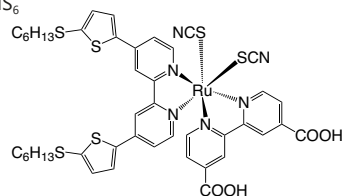
UV : 306, 568 nm (in  $CH_2Cl_2$ )

**LT-S9416** | **C106 Dye**

cis-Bis(isothiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylato)-(4,4'-bis(5-hexylthio)thiophen-2-yl)-2,2'-bipyridyl-ruthenium(II)  
CAS No. : 1152310-69-4

Formula :  $C_{44}H_{44}N_6O_4RuS_6$

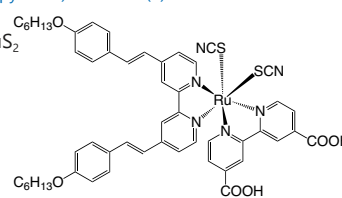
M.W. : 1014.32 g/mole

**LT-S9417** | **K19 Dye**

cis-Bis(thiocyanato)(2,2'-bipyridyl-4,4'-dicarboxylic acid)-(4,4'-bis(phexyloxystyryl)-2,2'-bipyridine)ruthenium(II)  
CAS No. : 847665-45-6

Formula :  $C_{52}H_{52}N_6O_6RuS_2$

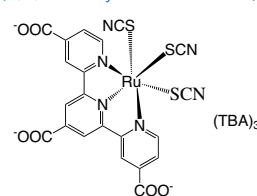
M.W. : 1022.21 g/mole

**LT-S9418** | **N749 Black Dye**

[[2,2':6',2''-Terpyridine]-4,4',4''-tricarboxylato(3-)- $kN_1, kN_1', kN_1''$ ] tris(thiocyanato- $kN$ )-, (OC-6-32)-, tris(N,N,N'-tributyl-1-butanaminium) hydrogen (9CI) ruthenium(II)complex  
CAS No. : 359415-47-7

Formula :  $C_{69}H_{117}N_9O_6RuS_3$

M.W. : 1364.98 g/mole

**LT-S9877** | **ISQ**

1,3-Bis[(3,3-dimethylindolin-2-ylidene) methyl] squaraine  
Grade : Sublimed >98%

Formula :  $C_{26}H_{24}N_2O_2$

M.W. : 396.48 g/mole

