

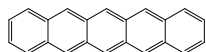
# Organic Thin-Film Transistor (OTFT)

## Small Molecular / Oligomer Materials

### LT-S901 | Pentacene

Pentacene

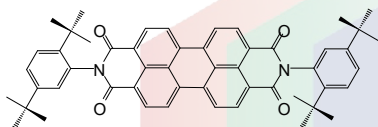
CAS No. : 135-48-8  
 Grade : Sublimed product  
 Formula :  $C_{22}H_{14}$   
 M.W. : 278.35 g/mole  
 UV : 300 nm (in  $CH_2Cl_2$ )  
 PL : 509 nm (in  $CH_2Cl_2$ )  
 TGA : > 240 °C (0.5% weight loss)



### LT-S902 | PDCDT

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

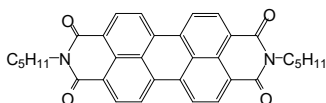
CAS No. : 83054-80-2  
 Grade : Sublimed product  
 Formula :  $C_{52}H_{50}N_2O_4$   
 M.W. : 766.96 g/mole  
 UV : 524 nm (in  $CH_2Cl_2$ )  
 PL : 544, 574 nm (in  $CH_2Cl_2$ )  
 TGA : > 350 °C (0.5% weight loss)



### LT-S904 | PenPTC

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

CAS No. : 76372-75-3  
 Grade : Sublimed product  
 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  $CH_2Cl_2$ )  
 TGA : > 350 °C (0.5% weight loss)



### 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

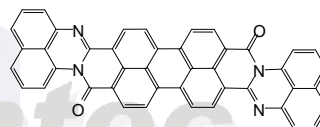
CAS No. : 55034-79-2  
 Grade : Sublimed product  
 Formula :  $C_{36}H_{16}N_4O_2$   
 M.W. : 536.54 g/mole  
 PL : 414 nm (in  $CH_2Cl_2$ )  
 TGA : > 420 °C (0.5% weight loss)



### LT-S919 | ADIDI

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

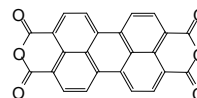
CAS No. : 6859-32-1  
 Grade : Sublimed product  
 Formula :  $C_{44}H_{20}N_4O_2$   
 M.W. : 636.66 g/mole  
 PL : 413 nm (in  $CH_2Cl_2$ )  
 TGA : > 430 °C (0.5% weight loss)



### LT-S920 | PTCDA

3,4,9,10-Perylenetetracarboxylic dianhydride

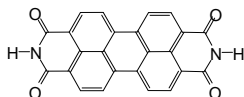
CAS No. : 128-69-8  
 Grade : Sublimed product  
 Formula :  $C_{24}H_8O_6$   
 M.W. : 392.32 g/mole  
 PL : 413 nm (in  $CH_2Cl_2$ )  
 TGA : > 450 °C (0.5% weight loss)  
 Reference : *Organic Electronics 8 (2007), 735-742*



**LT-S921** | PTCDI

3,4,9,10-Perylenetetracarboxylic acid diimide

CAS No. : 81-33-4  
 Grade : Sublimed product  
 Formula :  $C_{24}H_{10}N_2O_4$   
 M.W. : 390.35 g/mole  
 PL : 413 nm (in  $CH_2Cl_2$ )  
 TGA : > 450 °C (0.5% weight loss)


**LT-S924** | NTDA

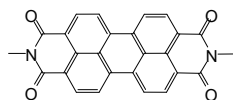
1,4,5,8-Naphthalenetetracarboxylic dianhydride

CAS No. : 81-30-1  
 Grade : Sublimed, > 99%  
 Formula :  $C_{14}H_4O_6$   
 M.W. : 268.18 g/mole  
 UV : 368 nm (in  $CH_2Cl_2$ )  
 PL : 394 nm (in  $CH_2Cl_2$ )  
 TGA : > 270 °C (0.5% weight loss)


**LT-S925** | MePTC

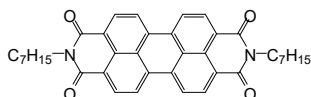
*N,N'*-Dimethyl-3,4,9,10-perylene dicarboximide

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


**LT-S926** | HepPTC

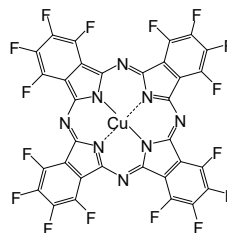
*N,N'*-Diheptyl-3,4,9,10-perylene dicarboximide

CAS No. : 95689-91-1  
 Grade : Sublimed product  
 Formula :  $C_{38}H_{28}N_2O_4$   
 M.W. : 586.72 g/mole  
 UV : 524 nm (in  $CH_2Cl_2$ )  
 PL : 571 nm (in  $CH_2Cl_2$ )  
 TGA : > 390 °C (0.5% weight loss)

 Reference : *J. Am. Chem. Soc.* 2000, 122, 11057-11066

**LT-S928** |  $F_{16}$ CuPC

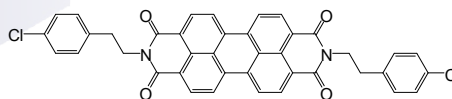
Copper(II) 1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecafluoro-29H,31H-phthalocyanine

CAS No. : 14916-87-1  
 Grade : Sublimed product  
 Formula :  $C_{32}F_{16}CuN_8$   
 M.W. : 863.92 g/mole  
 UV : 690 nm (in  $CH_2Cl_2$ )  
 TGA : > 400 °C (0.5% weight loss)

 Reference : *Orange Electronics*, vol.11 (No.8), pp1399-1402

**LT-S935** | 4CIPEPTC

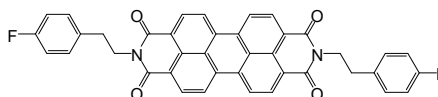
*N,N'*-Bis[2-(4-chlorophenyl)-ethyl]-3,4,9,10-perylene dicarboximide

CAS No. : 215726-51-5  
 Grade : Sublimed, > 99%  
 Formula :  $C_{40}H_{24}Cl_2N_2O_4$   
 M.W. : 667.53 g/mole  
 UV : 524 nm (in  $CH_2Cl_2$ )  
 PL : 544 nm (in  $CH_2Cl_2$ )  
 TGA : > 370 °C (0.5% weight loss)


**LT-S936** | 4FPEPTC

*N,N'*-Bis[2-(4-fluorophenyl)-ethyl]-3,4,9,10-perylene dicarboximide

CAS No. : 215726-57-1  
 Grade : Sublimed, > 99%  
 Formula :  $C_{40}H_{24}F_2N_2O_4$   
 M.W. : 634.63 g/mole  
 UV : 524 nm (in  $CH_2Cl_2$ )  
 PL : 538 nm (in  $CH_2Cl_2$ )  
 TGA : > 370 °C (0.5% weight loss)



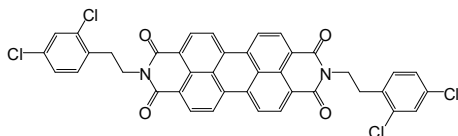
# Organic Thin-Film Transistor (OTFT)

## Small Molecular / Oligomer Materials

### LT-S937 | 2,4CIPEPTC

*N,N'*-Bis[2-(2,4-dichlorophenyl)-ethyl]-3,4,9,10-perylene dicarboximide

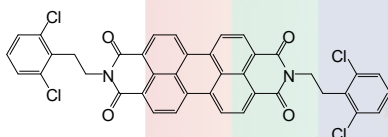
Grade : Sublimed, > 99%  
 Formula :  $C_{40}H_{22}Cl_4N_2O_4$   
 M.W. : 736.42 g/mole  
 UV : 524 nm (in  $CH_2Cl_2$ )  
 PL : 536 nm (in  $CH_2Cl_2$ )  
 TGA : > 390 °C (0.5% weight loss)



### LT-S938 | 2,6CIPEPTC

*N,N'*-Bis[2-(2,6-dichlorophenyl)-ethyl]-3,4,9,10-perylene dicarboximide

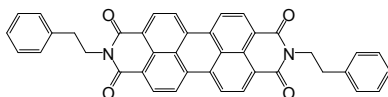
Grade : Sublimed, > 99%  
 Formula :  $C_{40}H_{22}Cl_4N_2O_4$   
 M.W. : 736.42 g/mole  
 UV : 524 nm (in  $CH_2Cl_2$ )  
 PL : 536 nm (in  $CH_2Cl_2$ )  
 TGA : > 440 °C (0.5% weight loss)



### LT-S939 | PEPTC

*N,N'*-Bis(2-phenyl-ethyl)-3,4,9,10-perylene dicarboximide

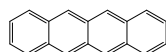
CAS No. : 67075-37-0  
 Grade : Sublimed, > 99%  
 Formula :  $C_{40}H_{26}N_2O_4$   
 M.W. : 598.64 g/mole  
 UV : 524 nm (in  $CH_2Cl_2$ )  
 PL : 537 nm (in  $CH_2Cl_2$ )  
 TGA : > 390 °C (0.5% weight loss)



### LT-S940 | Tetracene

2,3-Benzanthracene

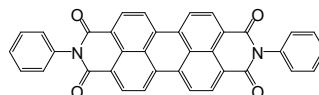
CAS No. : 92-24-0  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{18}H_{12}$   
 M.W. : 228.29 g/mole  
 UV : 277 nm (in  $CH_2Cl_2$ )  
 PL : 514 nm (in  $CH_2Cl_2$ )  
 TGA : > 180 °C (0.5% weight loss)  
 Reference : *J. Phys. Chem. B* 2005, 109 (50) pp23918-23924



### LT-S941 | DP-PTCDI

*N,N'*-Diphenyl-3,4,9,10-perylene dicarboximide

CAS No. : 128-65-4  
 Grade : Sublimed, > 99%  
 Formula :  $C_{36}H_{18}N_2O_4$   
 M.W. : 542.54 g/mole  
 UV : 481, 515 nm (in THF)  
 PL : 531 nm (in THF)  
 TGA : > 380 °C (0.5% weight loss)



### LT-S956 | PDI1

*N,N'*-Bis(3,4,5-tridodecyloxyphenyl)-3,4,9,10-perylene dicarboximide

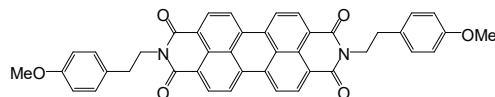
CAS No. : 351377-40-7  
 Grade : > 99% (NMR)  
 Formula :  $C_{108}H_{162}N_2O_{10}$   
 M.W. : 1648.45 g/mole  
 UV : 489, 526 nm (in  $CH_2Cl_2$ )  
 TGA : > 290 °C (0.5% weight loss)  
 Reference : *Adv. Mater.* 2005, 17, 2580-2583



### LT-S960 | 4MeOPEPTC

*N,N'*-Bis[2-(4-methoxyphenyl)-ethyl]-3,4,9,10-perylene dicarboximide

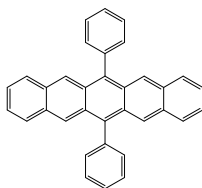
CAS No. : 119215-14-4  
 Grade : Sublimed, > 99%  
 Formula :  $C_{42}H_{30}N_2O_6$   
 M.W. : 658.70 g/mole  
 UV : 458, 524 nm (in  $CH_2Cl_2$ )  
 PL : 534 nm (in  $CH_2Cl_2$ )  
 TGA : > 370 °C (0.5% weight loss)



**LT-S968** | 6,13-DP-Penta

6,13-Diphenylpentacene

CAS No. : 76727-11-2  
 Grade : Sublimed, > 99%  
 Formula :  $C_{34}H_{22}$   
 M.W. : 430.54 g/mole  
 UV : 307 nm (in  $CH_2Cl_2$ )  
 PL : 447 nm (in  $CH_2Cl_2$ )  
 TGA : > 280 °C (0.5% weight loss)  
 Reference : *J. Inorg. Organomet. Polym.* (2010) 20: 161-167

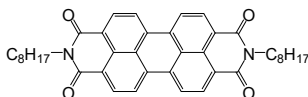

**LT-S969** |  $\alpha$ -6T

 $\alpha$ -Sexithiophene

CAS No. : 88493-55-4  
 Grade : Sublimed, > 99%  
 Formula :  $C_{24}H_{14}S_6$   
 M.W. : 494.76 g/mole  
 UV : 437 nm (in  $CH_2Cl_2$ )  
 PL : 511 nm (in  $CH_2Cl_2$ )  
 TGA : > 330 °C (0.5% weight loss)  
 Reference : *Solid State Commun.* 72, 381 (1989)

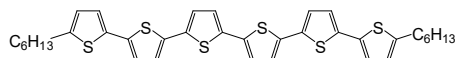

**LT-S970** | PTCDI-C<sub>8</sub>
*N,N'*-Dioctyl-3,4,9,10-perylene dicarboximide

CAS No. : 78151-58-3  
 Grade : Sublimed, > 99%  
 Formula :  $C_{40}H_{42}N_2O_4$   
 M.W. : 614.77 g/mole  
 UV : 456, 524 nm (in  $CH_2Cl_2$ )  
 PL : 573 nm (in  $CH_2Cl_2$ )  
 TGA : > 390 °C (0.5% weight loss)


**LT-S972** |  $\alpha,\omega$ -DH6T

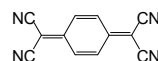
5,5'''''-Dihexyl-2,2':5',2''':5'',2''':5''',2''''':5''''',2''''''':sexithiophene

CAS No. : 151271-43-1  
 Grade : Sublimed, > 99%  
 Formula :  $C_{36}H_{38}S_6$   
 M.W. : 663.08 g/mole  
 UV : 439 nm (in Toluene)  
 TGA : > 230 °C (0.5% weight loss)  
 Reference : *AIP Conf. Proc.* 1399, 859 (2011)


**LT-S973** | TCNQ

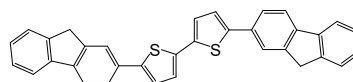
7,7,8,8-Tetracyanoquinodimethane

CAS No. : 1518-16-7  
 Grade : Sublimed product  
 Formula :  $C_{12}H_4N_4$   
 M.W. : 204.19 g/mole  
 UV : 259, 404 nm (in  $CH_2Cl_2$ )  
 TGA : > 210 °C (0.5% weight loss)


**LT-S975** | FTTF

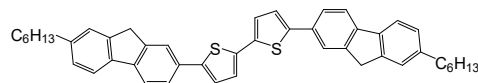
5,5'-Di(9H-fluoren-2-yl)-2,2'-bithiophene

CAS No. : 369599-41-7  
 Grade : Sublimed, > 99%  
 Formula :  $C_{34}H_{22}S_2$   
 M.W. : 494.67 g/mole  
 UV : 378 nm (in Toluene)  
 TGA : > 200 °C (0.5% weight loss)  
 Reference : *J. Am. Chem. Soc.*, 2001, 123, 9214


**LT-S976** | DH-FTTF

5,5'-Bis(7-hexyl-9H-fluoren-2-yl)-2,2'-bithiophene

CAS No. : 369599-42-8  
 Grade : Sublimed, > 99%  
 Formula :  $C_{46}H_{46}S_2$   
 M.W. : 662.99 g/mole  
 UV : 378 nm (in Toluene)  
 TGA : > 200 °C (0.5% weight loss)  
 Reference : *J. Am. Chem. Soc.*, 2001, 123, 9214



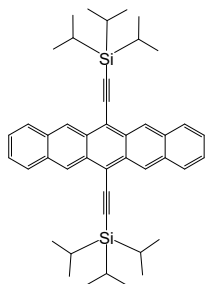
# Organic Thin-Film Transistor (OTFT)

## Small Molecular / Oligomer Materials

### LT-S977 | TIPS

6,13-Bis(triisopropylsilylethynyl)pentacene

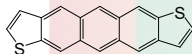
CAS No. : 373596-08-8  
 Grade : > 99% (HPLC)  
 Formula :  $C_{44}H_{54}Si_2$   
 M.W. : 639.07 g/mole  
 UV : 307 nm (in  $CH_2Cl_2$ )  
 TGA : > 230 °C (0.5% weight loss)  
 Reference : *J. Am. Chem. Soc.*, 2001, 123, 9482



### LT-S9026 | ADT

Anthra[2,3-b:6,7-b']dithiophene

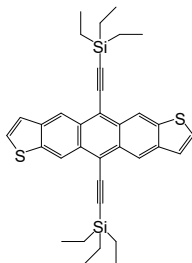
CAS No. : 144413-58-1  
 Grade : Sublimed, > 99%  
 Formula :  $C_{18}H_{10}S_2$   
 M.W. : 290.40 g/mole  
 UV : 320 nm (in  $CH_2Cl_2$ )  
 TGA : > 250 °C (0.5% weight loss)



### LT-S9034 | TES-ADT

5,11-Bis(triethylsilylethynyl)anthradithiophene

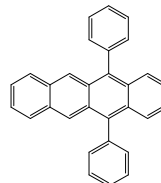
CAS No. : 851817-11-3  
 Grade : > 99% (NMR)  
 Formula :  $C_{34}H_{38}S_2Si_2$   
 M.W. : 566.97 g/mole  
 UV : 306 nm (in  $CH_2Cl_2$ )  
 TGA : > 230 °C (0.5% weight loss)  
 Reference : *Nature Commun.* 3, 1259 (2012)



### LT-S9035 | DPT

5,12-Diphenyltetracene

CAS No. : 27130-32-1  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{30}H_{20}$   
 M.W. : 380.48 g/mole  
 UV : 262, 492 nm (in  $CH_2Cl_2$ )  
 TGA : > 230 °C (0.5% weight loss)



### LT-S9036 | DIP

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

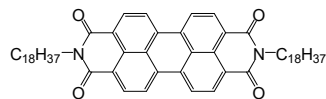
CAS No. : 188-94-3  
 Grade : Sublimed product  
 Formula :  $C_{32}H_{16}$   
 M.W. : 400.47 g/mole  
 UV : 494, 532 nm (in  $CH_2Cl_2$ )  
 TGA : > 230 °C (0.5% weight loss)  
 Reference : *Adv. Funct. Mater.* 2010, 20, 4295-4303



### LT-S9041 | PTCDI-C<sub>18</sub>H<sub>37</sub>

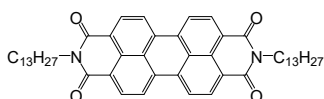
*N,N'*-Dioctadecyl-3,4,9,10-perylene dicarboximide

CAS No. : 25834-02-0  
 Grade : Sublimed, > 99%  
 Formula :  $C_{60}H_{82}N_2O_4$   
 M.W. : 895.30 g/mole  
 UV : 485, 520 nm (in Toluene)  
 TGA : > 340 °C (0.5% weight loss)  
 Reference : *J. Appl. Phys. Lett.* 93, 033305 (2008)



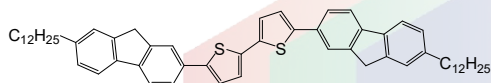
**LT-S9042** | PTCDI-C<sub>13</sub>H<sub>27</sub>*N,N'*-Ditridecyl-3,4,9,10-perylene dicarboximide

CAS No. : 95689-92-2  
 Grade : Sublimed, > 99%  
 Formula : C<sub>50</sub>H<sub>62</sub>N<sub>2</sub>O<sub>4</sub>  
 M.W. : 755.04 g/mole  
 UV : 484, 520 nm (in Toluene)  
 TGA : > 390 °C (0.5% weight loss)  
 Reference : *Appl. Phys. Lett.* 93, 033305 (2008)

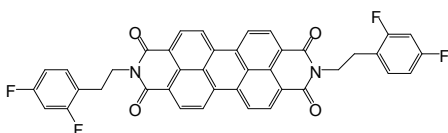
**LT-S9043** | Ddodec-FTTF

5,5'-Bis(7-dodecyl-9H-fluoren-2-yl)-2,2'-bithiophene

CAS No. : 846542-27-6  
 Grade : Sublimed, > 99%  
 Formula : C<sub>58</sub>H<sub>70</sub>S<sub>2</sub>  
 M.W. : 831.31 g/mole  
 UV : 254, 409 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 TGA : > 350 °C (0.5% weight loss)

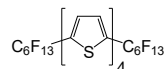
**LT-S9049** | 2,4-FPEPTC*N,N'*-Bis[2-(2,4-difluorophenyl)-ethyl]-3,4,9,10-perylene dicarboximide

CAS No. : 1644439-37-1  
 Grade : Sublimed, > 99%  
 Formula : C<sub>40</sub>H<sub>22</sub>F<sub>4</sub>N<sub>2</sub>O<sub>4</sub>  
 M.W. : 670.61 g/mole  
 UV : 245 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 TGA : > 340 °C (0.5% weight loss)

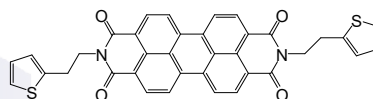
**LT-S9057** | DFH-4T

5,5'-Bis((5-perfluorohexyl)thiophen-2-yl)-2,2'-bithiophene

CAS No. : 446043-85-2  
 Grade : Sublimed, > 99%  
 Formula : C<sub>28</sub>H<sub>8</sub>F<sub>26</sub>S<sub>4</sub>  
 M.W. : 966.58 g/mole  
 UV : 259, 404 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 TGA : > 220 °C (0.5% weight loss)

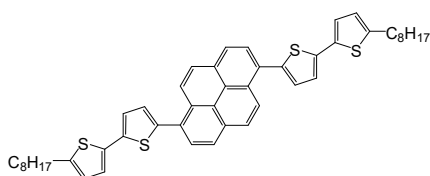
**LT-S9059** | TEPTC*N,N'*-Di(thiophen-2-yl)ethyl-3,4,9,10-perylene dicarboximide

CAS No. : 1559069-50-9  
 Grade : Sublimed, > 99%  
 Formula : C<sub>36</sub>H<sub>22</sub>N<sub>2</sub>O<sub>4</sub>S<sub>2</sub>  
 M.W. : 610.70 g/mole  
 UV : 260 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 TGA : > 400 °C (0.5% weight loss)

**LT-S9077** | BOBTP

1,6-Bis(5'-octyl-2,2'-bithiophen-5-yl)pyrene

CAS No. : 1430207-54-7  
 Grade : Sublimed, > 99% (NMR)  
 Formula : C<sub>48</sub>H<sub>50</sub>S<sub>4</sub>  
 M.W. : 755.17 g/mole  
 UV : 322, 410 nm (in CHCl<sub>3</sub>)  
 Reference : *ACS Applied Materials & Interfaces* (2013), 5(9), 3855-3860



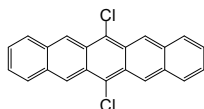
# Organic Thin-Film Transistor (OTFT)

## Small Molecular / Oligomer Materials

### LT-S9080 | DCP

6,13-Dichloropentacene

CAS No. : 59156-92-2  
 Grade : Sublimed, > 99%  
 Formula :  $C_{22}H_{12}Cl_2$   
 M.W. : 347.24 g/mole  
 TGA : > 350 °C (0.5% weight loss)  
 Reference : 1. *J. Mater. Chem.*, 2012, 22, 10496  
 2. *Adv. Mater.* 2013, 25, 2229-2233



### LT-S9092 | 3PenPTC

*N,N'*-Bis(ethylpropyl)perylene-3,4,9,10-tetracarboxylic acid

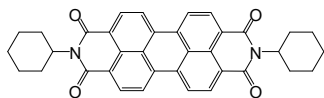
CAS No. : 110590-81-3  
 Grade : Sublimed, > 99%  
 Formula :  $C_{34}H_{30}N_2O_4$   
 M.W. : 530.61 g/mole  
 PL : > 270 °C (0.5% weight loss)



### LT-S9093 | DCyPTC

*N,N'*-Dicyclohexylperylene-3,4:9,10-tetracarboxylic acid bisimide

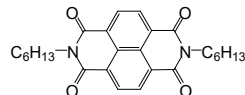
CAS No. : 41572-86-5  
 Grade : Sublimed, > 99%  
 Formula :  $C_{36}H_{30}N_2O_4$   
 M.W. : 554.63 g/mole  
 TGA : > 350 °C (0.5% weight loss)



### LT-S9094 | NTDA- $C_6H_{13}$

2,7-Dihexylbenzo[*lmn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

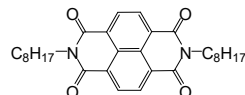
CAS No. : 23536-15-4  
 Grade : Sublimed, > 99%  
 Formula :  $C_{26}H_{30}N_2O_4$   
 M.W. : 434.53 g/mole  
 TGA : > 280 °C (0.5% weight loss)



### LT-S9095 | NTDA- $C_8H_{17}$

2,7-Dioctylbenzo[*lmn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

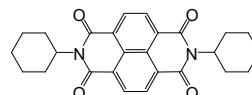
CAS No. : 34155-21-0  
 Grade : Sublimed, > 99%  
 Formula :  $C_{30}H_{38}N_2O_4$   
 M.W. : 490.63 g/mole  
 TGA : > 280 °C (0.5% weight loss)



### LT-S9096 | DCyNTDA

2,7-Dicyclohexylbenzo[*lmn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

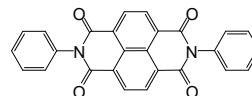
CAS No. : 173409-43-3  
 Grade : Sublimed, > 99%  
 Formula :  $C_{26}H_{26}N_2O_4$   
 M.W. : 430.50 g/mole  
 TGA : > 280 °C (0.5% weight loss)



### LT-S9097 | DPNTDA

2,7-Diphenylbenzo[*lmn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

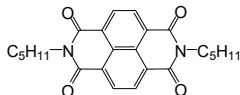
CAS No. : 24259-89-0  
 Grade : Sublimed, > 99%  
 Formula :  $C_{26}H_{14}N_2O_4$   
 M.W. : 418.40 g/mole  
 TGA : > 280 °C (0.5% weight loss)



**LT-S9098 | NTDA-C<sub>5</sub>H<sub>11</sub>**

2,7-Dipentylbenzo[*mn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

CAS No. : 173409-41-1  
 Grade : Sublimed, > 99%  
 Formula : C<sub>24</sub>H<sub>26</sub>N<sub>2</sub>O<sub>4</sub>  
 M.W. : 406.47 g/mole  
 TGA : > 280 °C (0.5% weight loss)


**LT-S9099 | NTDA-C<sub>7</sub>H<sub>15</sub>**

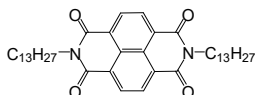
2,7-Diheptylbenzo[*mn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

CAS No. : 698370-78-4  
 Grade : Sublimed, > 99%  
 Formula : C<sub>28</sub>H<sub>34</sub>N<sub>2</sub>O<sub>4</sub>  
 M.W. : 462.58 g/mole  
 TGA : > 280 °C (0.5% weight loss)


**LT-S9100 | NTDA-C<sub>13</sub>H<sub>27</sub>**

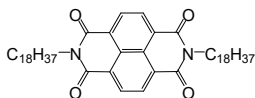
2,7-Ditridecylbenzo[*mn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

CAS No. : 1373274-00-0  
 Grade : Sublimed, > 99%  
 Formula : C<sub>40</sub>H<sub>58</sub>N<sub>2</sub>O<sub>4</sub>  
 M.W. : 630.90 g/mole  
 TGA : > 280 °C (0.5% weight loss)


**LT-S9101 | NTDA-C<sub>18</sub>H<sub>37</sub>**

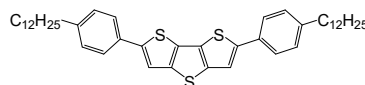
2,7-Dioctadecylbenzo[*mn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

CAS No. : 144742-50-7  
 Grade : Sublimed, > 99%  
 Formula : C<sub>50</sub>H<sub>78</sub>N<sub>2</sub>O<sub>4</sub>  
 M.W. : 771.17 g/mole  
 TGA : > 280 °C (0.5% weight loss)


**LT-S9102 | DTT-12**

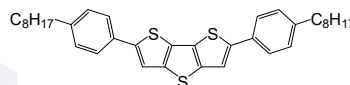
2,6-Bis(4-dodecylphenyl)-dithieno[3,2-*b*:2',3'-*d*]thiophene

CAS No. : 1446140-70-0  
 Grade : Sublimed, > 99% (NMR)  
 Formula : C<sub>44</sub>H<sub>60</sub>S<sub>3</sub>  
 M.W. : 685.14 g/mole  
 TGA : > 270 °C (0.5% weight loss)  
 Reference : Chem. Commun., 2013, 49, 6483-6485


**LT-S9103 | DTT-8**

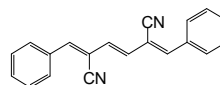
2,6-Bis(4-octylphenyl)-dithieno[3,2-*b*:2',3'-*d*]thiophene

CAS No. : 1429377-95-6  
 Grade : Sublimed, > 99% (NMR)  
 Formula : C<sub>36</sub>H<sub>44</sub>S<sub>3</sub>  
 M.W. : 572.93 g/mole  
 TGA : > 270 °C (0.5% weight loss)  
 Reference : Chem. Commun., 2013, 49, 6483-6485


**LT-S9128 | Dp-triene-2,5-CN**

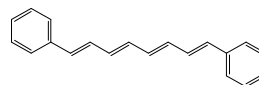
(2*Z*,3*E*,5*Z*)-2,5-Dibenzylidenehex-3-enedinitrile

CAS No. : 1376166-32-3  
 Grade : > 99%  
 Formula : C<sub>20</sub>H<sub>14</sub>N<sub>2</sub>  
 M.W. : 282.34 g/mole  
 Reference : Chemical Science (2012), 3(4), 1007-1014


**LT-S9129 | Dp-tetraene**

(1*E*,3*E*,5*E*,7*E*)-1,8-Diphenylocta-1,3,5,7-tetraene

CAS No. : 3029-40-1  
 Grade : > 99%  
 Formula : C<sub>20</sub>H<sub>18</sub>  
 M.W. : 258.36 g/mole





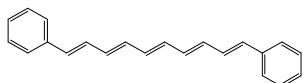
# Organic Thin-Film Transistor (OTFT)

## Small Molecular / Oligomer Materials

### LT-S9130 | Dp-pentaene

(1E,3E,5E,7E,9E)-1,10-Diphenyldeca-1,3,5,7,9-pentaene

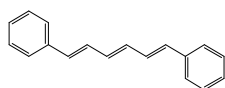
CAS No. : 3029-41-2  
 Grade : > 99%  
 Formula :  $C_{22}H_{20}$   
 M.W. : 284.39 g/mole



### LT-S9131 | Dp-triene

(1E,3E,5E)-1,6-Diphenylhexa-1,3,5-triene

CAS No. : 1720-32-7  
 Grade : > 99%  
 Formula :  $C_{18}H_{16}$   
 M.W. : 232.32 g/mole

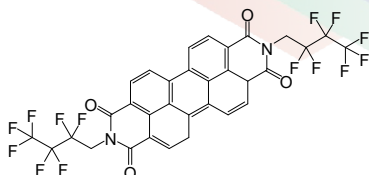


### LT-S9132 | PTCPI-CH2C3F7

N,N'-Bis(2,2,3,3,4,4,4-heptafluorobutyl)-3,4,9,10-perylene dicarboximide

CAS No. : 1150578-28-1  
 Grade : Sublimed, > 99%  
 Formula :  $C_{32}H_{14}F_{14}N_2O_4$   
 M.W. : 756.44 g/mole  
 TGA : > 300 °C (0.5% weight loss)

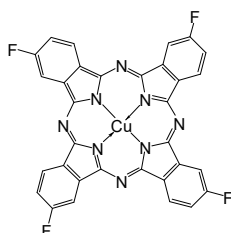
Reference : *Journal of the American Chemical Society* (2009), 131(17), 6215-6228



### LT-S9134 | F4-CuPC

Copper(II)-2,9,16,23-tetrafluoro-29H,31H-phthalocyanine

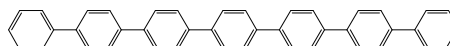
CAS No. : 65602-84-8  
 Grade : Sublimed, > 99%  
 Formula :  $C_{32}H_{12}CuF_4N_8$   
 M.W. : 648.03 g/mole  
 TGA : > 350 °C (0.5% weight loss)



### LT-S9159 | p-Septiphenyl

p-Septiphenyl

CAS No. : 70352-20-4  
 Grade : > 99%  
 Formula :  $C_{42}H_{30}$   
 M.W. : 534.69 g/mole  
 TGA : > 280 °C (0.5% weight loss)

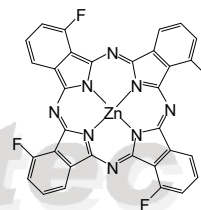


### LT-S9171 | F4ZnPc

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

CAS No. : 1120355-28-3  
 Grade : Sublimed, > 99%  
 Formula :  $C_{32}H_{12}F_4N_8Zn$   
 M.W. : 649.89 g/mole  
 UV : 681 nm (in  $CHCl_3$ )  
 TGA : > 300 °C (0.5% weight loss)

Reference : *Solar Energy Materials & Solar Cells* (2013), 118, 165-170

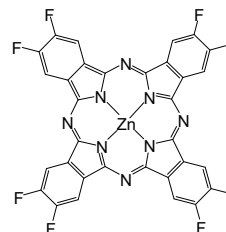


### LT-S9172 | F8ZnPc

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

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

Reference : *ChemPhysChem* (2014), 15(12), 2462-2472

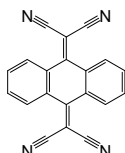


### LT-S9173 | An-PDN

2,2'-(9,10-anthracenediylidene)-bis-propanedinitrile

CAS No. : 70359-39-6  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{20}H_8N_4$   
 M.W. : 304.30 g/mole  
 UV : 283, 348 nm (in  $CHCl_3$ )  
 TGA : > 250 °C (0.5% weight loss)

Reference : *Chemical Communications (Cambridge, United Kingdom) (2014), 50(7), 833-835*

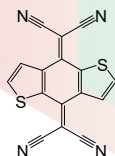


### LT-S9174 | BD-PDN

2,2'-Benzo[1,2-b:4,5-b']dithiophene-4,8-diylidenebis-propanedinitrile

CAS No. : 109573-90-2  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{16}H_4N_4S_2$   
 M.W. : 316.36 g/mole  
 UV : 231, 438 nm (in  $CHCl_3$ )  
 TGA : > 250 °C (0.5% weight loss)

Reference : *Advanced Materials (Weinheim, Germany) (2014), 26(24), 4093-4099*

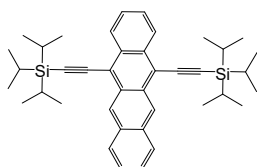


### LT-S9175 | 5,12-TIPS-Tetracene

5,12-Bis((triisopropylsilyl)ethynyl)tetracene

CAS No. : 628316-50-7  
 Grade : > 99% (NMR)  
 Formula :  $C_{40}H_{52}Si_2$   
 M.W. : 589.01 g/mole  
 UV : 389 nm (in  $CH_2Cl_2$ )  
 TGA : > 250 °C (0.5% weight loss)

Reference : *Chemical Communications, (2014), 50(85), 12828-12831*

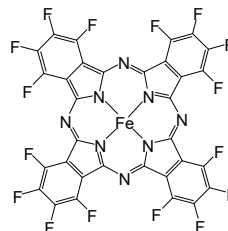


### LT-S9177 | F<sub>16</sub>FePC

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, > 99%  
 Formula :  $C_{32}F_{16}FeN_8$   
 M.W. : 856.22 g/mole  
 UV : 333, 627 nm (in Acetone)  
 TGA : > 300 °C (0.5% weight loss)

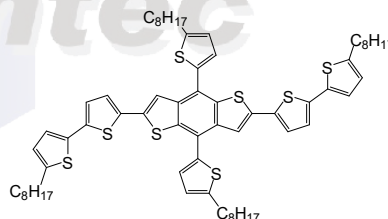
Reference : *Nano Letters (2014), 14(10), 5547-5554*



### LT-S9179 | BDT2TH

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

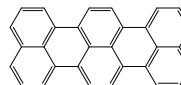
Grade : > 99% (NMR)  
 Formula :  $C_{66}H_{82}S_8$   
 M.W. : 1131.88 g/mole  
 UV : 249, 359, 442 nm (in  $CHCl_3$ )



### LT-S9211 | DTT-8

Tribenzo[de,kl,rst]pentaphene

CAS No. : 188-72-7  
 Grade : > 98% (HPLC)  
 Formula :  $C_{30}H_{16}$   
 M.W. : 376.45 g/mole



# Organic Thin-Film Transistor (OTFT)

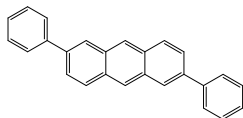
## Small Molecular / Oligomer Materials

### LT-S9213 | DPA

2,6-Diphenylanthracene

CAS No. : 95950-70-2  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{26}H_{18}$   
 M.W. : 330.42 g/mole  
 TGA : > 200 °C (0.5% weight loss)

Reference :



### LT-S9259

2,7-Bis(2-(dimethylamino)ethyl)benzo[Imn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone

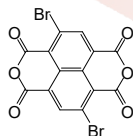
CAS No. : 22291-04-9  
 Formula :  $C_{22}H_{24}N_4O_4$   
 M.W. : 408.45 g/mole



### LT-S9260

4,9-dibromoisochromeno[6,5,4-def]isochromene-1,3,6,8-tetraone

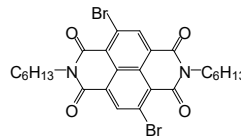
CAS No. : 83204-68-6  
 Formula :  $C_{14}H_2Br_2O_6$   
 M.W. : 425.97 g/mole



### LT-S9261

4,9-Dibromo-2,7-diethylbenzo[Imn][3,8]phenanthroline-1,3,6,8-tetraone

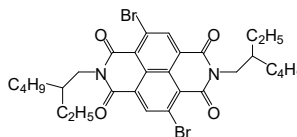
CAS No. : 1239327-73-1  
 Formula :  $C_{26}H_{28}Br_2N_2O_4$   
 M.W. : 592.32 g/mole



### LT-S9262

4,9-Dibromo-2,7-bis(2-ethylhexyl)benzo[Imn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone

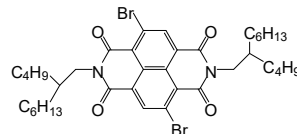
CAS No. : 1088205-02-0  
 Formula :  $C_{30}H_{36}Br_2N_2O_4$   
 M.W. : 648.43 g/mole



### LT-S9263

4,9-Dibromo-2,7-bis(2-butyldecyl)benzo[Imn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone

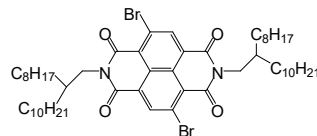
CAS No. : 1614253-96-1  
 Formula :  $C_{38}H_{52}Br_2N_2O_4$   
 M.W. : 760.64 g/mole



### LT-S9264

4,9-Dibromo-2,7-bis(2-octyldodecyl)benzo[Imn][3,8]phenanthroline-1,3,6,8(2H,7H)-tetraone

CAS No. : 1100243-35-3  
 Formula :  $C_{54}H_{84}Br_2N_2O_4$   
 M.W. : 985.06 g/mole



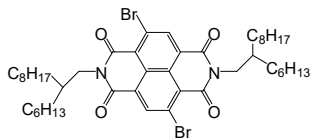
# Organic Thin-Film Transistor (OTFT)

## Small Molecular / Oligomer Materials

### LT-S9265

4,9-Dibromo-2,7-bis(2-hexyldecyl)benzo[*lmn*][3,8]phenanthroline-1,3,6,8(2*H*,7*H*)-tetraone

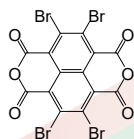
CAS No. : 1459168-68-3  
 Formula :  $C_{46}H_{68}Br_2N_2O_4$   
 M.W. : 872.85 g/mole



### LT-S9266

4,5,9,10-Tetrabromoisochromeno[6,5,4-*def*]isochromene-1,3,6,8-tetraone

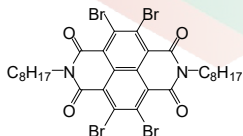
CAS No. : 299962-88-2  
 Formula :  $C_{14}Br_4O_6$   
 M.W. : 583.76 g/mole



### LT-S9267

4,5,9,10-Tetrabromo-2,7-diocetylbenzo[*lmn*][3,8]phenanthroline-1,3,6,8-tetraone

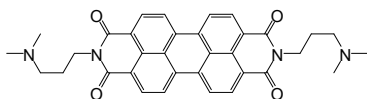
CAS No. : 954374-43-7  
 Formula :  $C_{30}H_{34}Br_4N_2O_4$   
 M.W. : 806.22 g/mole



### LT-S9268

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

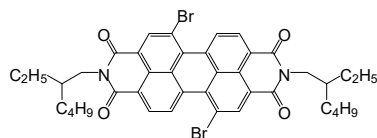
CAS No. : 117901-97-0  
 Formula :  $C_{34}H_{32}N_4O_4$   
 M.W. : 560.64 g/mole



### LT-S9269

*N,N'*-Bis(2-ethylhexyloxy)-1,7-dibromo-3,4,9,10-perylene diimide

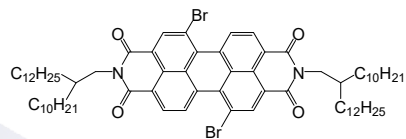
CAS No. : 851786-15-7  
 Formula :  $C_{40}H_{40}Br_2N_2O_4$   
 M.W. : 772.56 g/mole



### LT-S9270

*N,N'*-Bis(2-decyl-tetradecyl)-1,7-dibromo-3,4,9,10-perylene diimide

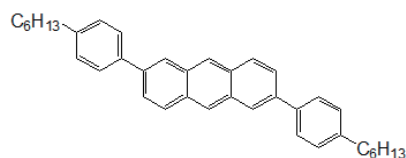
CAS No. : 909019-78-9  
 Formula :  $C_{72}H_{104}Br_2N_2O_4$   
 M.W. : 1221.42 g/mole



### LT-S9285 C6-DPA

2,6-bis(4-hexylphenyl)anthracene

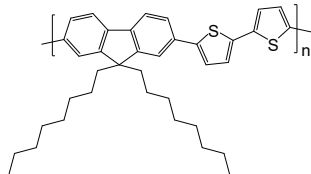
CAS No. : 1258209-99-2  
 Grade : > 99% (HPLC)  
 Formula :  $C_{38}H_{42}$   
 M.W. : 498.74 g/mole



## LT-S979 | F8T2

Poly[(9,9-di-*n*-octylfluorenyl-2,7-diyl)-*alt*-2,2'-bithiophene-5,5'-diyl]

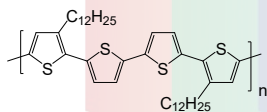
CAS No. : 210347-56-1  
 Grade :  $M_w > 20,000$  (GPC)  
 Formula :  $(C_{37}H_{44}S_2)_n$   
 UV : 454 nm (in THF)  
 PL : 500 nm (in THF)  
 Solubility : Soluble in THF,  $CHCl_3$ , Chlorobenzene, Dichlorobenzene

Reference : *Appl. Phys. Lett.* 87, 153511 (2005)

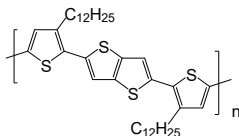
## LT-S980 | PQT-12

Poly[bis(3-dodecyl-2-thienyl)-2,2'-dithiophene-5,5'-diyl]

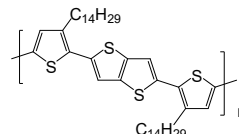
CAS No. : 827343-06-6  
 Grade :  $M_w = 10,000 \sim 40,000$  (GPC)  
 Formula :  $(C_{40}H_{56}S_4)_n$   
 UV : 473 nm (in Toluene)  
 Solubility :  $> 5$  mg/mL in  $CHCl_3$

Reference : *Adv. Mater.*, 2005, 17, 184LT-S981 | PBTTC-C<sub>12</sub>Poly[2,5-bis(3-dodecylthiophen-2-yl)thieno[3,2-*b*]thiophene]

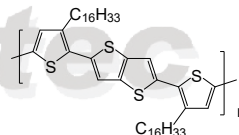
CAS No. : 888491-18-7  
 Grade :  $M_w = 40,000 \sim 80,000$  (GPC)  
 Formula :  $(C_{38}H_{54}S_4)_n$   
 UV : 460 nm (in THF)  
 PL : 557 nm (in THF)  
 Solubility :  $> 5$  mg/mL in  $CHCl_3$

Reference : *Nature Materials* 5, 328-333 (2006)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 :  $M_w > 40,000$  (GPC)  
 Formula :  $(C_{38}H_{54}S_4)_n$   
 UV : 466 nm (in THF)  
 PL : 557 nm (in THF)  
 Solubility :  $> 5$  mg/mL in  $CHCl_3$

Reference : *Nature Materials* 5, 328-333 (2006)LT-S9060 | PBTTC-C<sub>16</sub>Poly[2,5-bis(3-hexadecylthiophen-2-yl)thieno[3,2-*b*]thiophene]

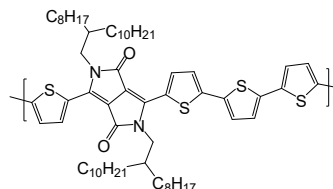
Grade :  $M_w = 40,000 \sim 80,000$  (GPC)  
 Formula :  $(C_{46}H_{70}S_4)_n$   
 UV : 466 nm (in THF)  
 PL : 557 nm (in THF)  
 Solubility :  $> 5$  mg/mL in  $CHCl_3$

Reference : *Nano Lett.*, 2009, 9 (12), pp4153-4157

## 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 :  $M_w > 30,000$  (GPC)  
 Formula :  $(C_{62}H_{90}N_2O_2S_4)_n$   
 UV : 810 nm (in  $CHCl_3$ )  
 Solubility : Soluble in  $CHCl_3$ , Chlorobenzene, Dichlorobenzene

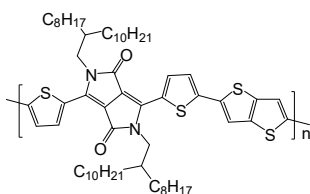
Reference : *J. Mater. Chem. C*, 2013, 1, 4423-4426

## LT-S9118 | PDBT-co-TT

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

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

Reference : 1. *Adv. Mater.* 2010, 22, 4862-4866  
 2. *Chem. Mater.* 2012, 24, 1316-1323

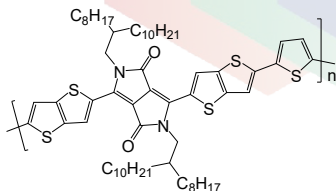


## LT-S9119 | PDPPBT

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

CAS No. : 1270977-98-4  
 Grade :  $M_w > 30,000$  (GPC)  
 Formula :  $(C_{62}H_{88}N_2O_2S_5)_n$   
 UV : 812 nm (in  $CHCl_3$ )  
 Solubility : Soluble in  $CHCl_3$ , Chlorobenzene, Dichlorobenzene

Reference : *J. Am. Chem. Soc.* 2011, 133, 3272-3275

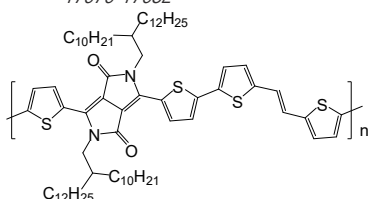


## LT-S9091 | TQ1

Poly[2,3-bis-(3-octyloxyphenyl)quinoxaline-5,8-diyl-*alt*-thiophene-2,5-diyl]

CAS No. : 565228-37-7  
 Grade :  $M_w > 20,000$  (GPC)  
 Formula :  $(C_{40}H_{46}N_2O_2S)_n$   
 M.W. :  $M_w > 20,000$  (GPC)  
 Solubility : Soluble in  $CHCl_3$ , Chlorobenzene, Dichlorobenzene

Reference : *Journal of Materials Chemistry A: Materials for Energy and Sustainability* (2014), 2(41), 17676-17682

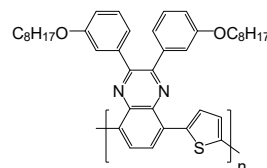


## LT-S9133 | PDVT-10

Poly[3,6-dithiophen-2-yl-2,5-di(2-decyltetradecyl)pyrrolo[3,4-c]pyrrole-1,4-dione-*alt*-thienylenevinylene-2,5-yl]

CAS No. : 1442682-99-6  
 Formula :  $(C_{72}H_{108}N_2O_2S_4)_n$   
 Grade :  $M_w > 30,000$  (GPC)  
 Solubility : Soluble in  $CHCl_3$ , Chlorobenzene, Dichlorobenzene

Reference : *Nature Communications* 5, Article number: 4183

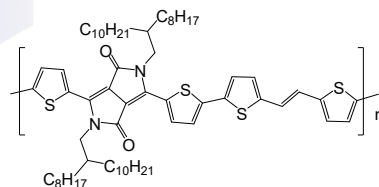


## LT-S9155 | PDVT-8

Poly[3,6-dithiophen-2-yl-2,5-di(2-octyldodecyl)pyrrolo[3,4-c]pyrrole-1,4-dione-*alt*-thienylenevinylene-2,5-yl]

CAS No. : 1403959-01-2  
 Grade :  $M_w > 20,000$  (GPC)  
 Formula :  $(C_{64}H_{92}N_2O_2S_4)_n$   
 Solubility : Soluble in  $CHCl_3$ , Chlorobenzene, Dichlorobenzene

Reference : *Journal of Materials Chemistry A: Materials for Energy and Sustainability* (2014), 2(41), 17676-17682



## LT-S9178 | PMDPP3T

Poly[[2,5-bis(2-hexyldodecyl)-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]

Grade :  $M_w > 30,000$  (GPC)  
 Formula :  $(C_{52}H_{76}N_2O_2S_3)_n$   
 UV : 830 nm (in  $CHCl_3$ )  
 Solubility : Soluble in  $CHCl_3$ , Chlorobenzene, Dichlorobenzene

