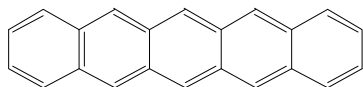


OTFT Materials: Small Molecular Materials

LT-S901

Pentacene

Pentacene

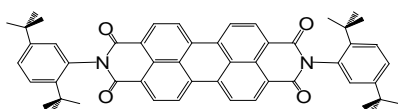


Formula	: $C_{22}H_{14}$
Molecular Weight	: 278.35 g/mole
CAS No.	: 135-48-8
Thermal Gravimetric Analysis	: 260°C (0.5% weight loss)
Absorption	: 300nm (in CH_2Cl_2)
Photoluminescence	: 509nm (in CH_2Cl_2)

LT-S902

PDCDT

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

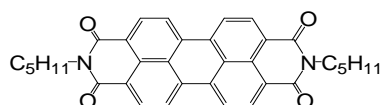


Formula	: $C_{52}H_{50}N_2O_4$
Molecular Weight	: 766.96 g/mole
CAS No.	: 83054-80-2
Absorption	: 524nm (in CH_2Cl_2)
Photoluminescence	: 544, 574nm (in CH_2Cl_2)

LT-S904

PenPTC

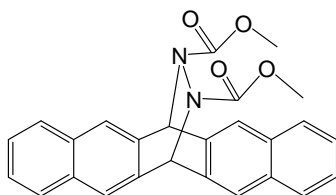
Perylene-3,4,9,10-tetracarboxylic acid N,N'-dipentylimide



Formula	: $C_{34}H_{30}N_2O_4$
Molecular Weight	: 530.61 g/mole
CAS No.	: 76372-75-3
Thermal Gravimetric Analysis	: 380°C (0.5% weight loss)
Absorption	: 523nm (in CH_2Cl_2)
Photoluminescence	: 535, 573nm (in CH_2Cl_2)

LT-S915

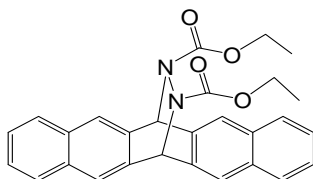
Pentacene precursor



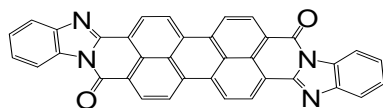
Formula	: $C_{26}H_{20}N_2O_4$
Molecular Weight	: 424.45 g/mole
Thermal Gravimetric Analysis	: 250°C (0.5% weight loss)
Absorption	: 270nm (in CH_2Cl_2)
Photoluminescence	: 332nm (in CH_2Cl_2)

LT-S916

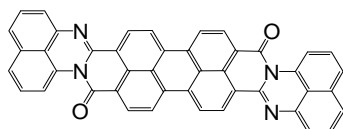
Pentacene precursor



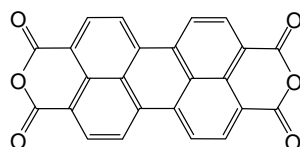
Formula	: $C_{28}H_{24}N_2O_4$
Molecular Weight	: 452.50 g/mole
Thermal Gravimetric Analysis	: 220°C (0.5% weight loss)
Absorption	: 270nm (in CH_2Cl_2)
Photoluminescence	: 394, 414nm (in CH_2Cl_2)

LT-S918**PTCBI****Bisbenzimidazo2,1-a:1',2-b'anthra2,1,9-def:6,5,10-d'e'f'disoguinoline-6,10-dione**

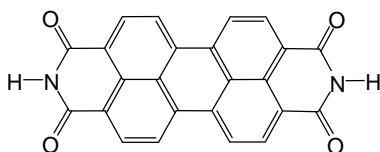
Formula : $C_{36}H_{16}N_4O_2$
 Molecular Weight : 536.54 g/mole
 Thermal Gravimetric Analysis : 450°C (0.5% weight loss)
 Photoluminescence : 397, 414nm (in CH_2Cl_2)

LT-S919**ADIDI****Antra[2'',1'',9''; 4,5,6,6'',5'',10''; 4',5',6']diisoquino [2,1-a; 2',1'-a']diperimidine-12,25-dione**

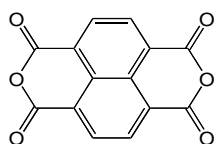
Formula : $C_{44}H_{20}N_4O_2$
 Molecular Weight : 636.66 g/mole
 CAS No. : 6859-32-1
 Thermal Gravimetric Analysis : 460°C (0.5% weight loss)
 Photoluminescence : 413nm (in CH_2Cl_2)

LT-S920**PTCDA****Perylene-3,4,9,10-tetracarboxylic dianhydride**

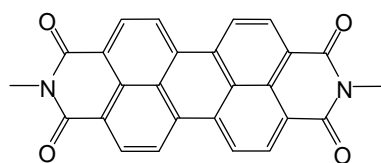
Formula : $C_{26}H_{10}O_6$
 Molecular Weight : 392.32 g/mole
 CAS No. : 128-69-8
 Thermal Gravimetric Analysis : 480°C (0.5% weight loss)
 Photoluminescence : 413nm (in CH_2Cl_2)

LT-S921**PTCDI****Perylene-3,4,9,10-tetracarboxylic acid dimide**

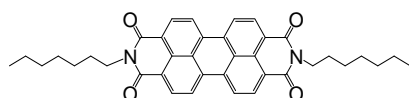
Formula : $C_{24}H_{10}N_2O_4$
 Molecular Weight : 390.35 g/mole
 CAS No. : 81-33-4
 Thermal Gravimetric Analysis : 510°C (0.5% weight loss)
 Photoluminescence : 394, 413nm (in CH_2Cl_2)

LT-S924**NTDA****1,4,5,8-Naphthalenetetracarboxylic dianhydride**

Formula : $C_{14}H_4O_6$
 Molecular Weight : 268.18 g/mole
 CAS No. : 81-30-1
 Thermal Gravimetric Analysis : 290°C (0.5% weight loss)
 Absorption : 347, 366nm (in CH_2Cl_2)
 Photoluminescence : 394nm (in CH_2Cl_2)

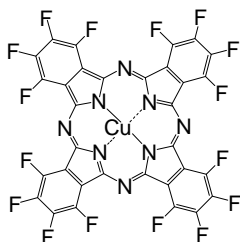
LT-S925**MePTC****Perylene-3,4,9,10-tetracarboxylic acid N,N'-dimethylimide**

Formula : $C_{26}H_{14}N_2O_4$
 Molecular Weight : 419.40 g/mole
 CAS No. : 5521-31-3
 Thermal Gravimetric Analysis : 500°C (0.5% weight loss)
 Absorption : 522nm (in CH_2Cl_2)
 Photoluminescence : 532, 571nm (in CH_2Cl_2)

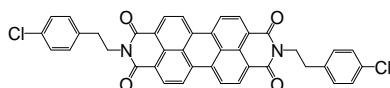
LT-S926**HepPTC****Perylene-3,4,9,10-tetracarboxylic acid N,N'-diheptylimide**

Formula : $C_{38}H_{38}N_2O_4$
 Molecular Weight : 586.72 g/mole
 CAS No. : 95689-91-1
 Thermal Gravimetric Analysis : 420°C (0.5% weight loss)
 Absorption : 524nm (in CH_2Cl_2)
 Photoluminescence : 537, 571nm (in CH_2Cl_2)

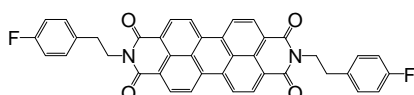
Reference : Chemical Physics Letters, 383(2004), 11-15

LT-S928**F16CuPC****Copper(II) 1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecafluoro-29H,31H-phthalocyanine**

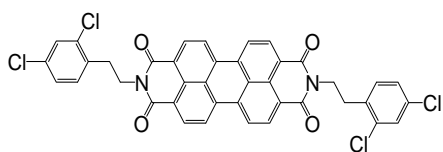
Formula : $C_{32}N_8F_{16}Cu$
 Molecular Weight : 863.92 g/mole
 CAS No. : 14916-87-1
 Thermal Gravimetric Analysis : 430°C (0.5% weight loss)
 Photoluminescence : 590nm (in THF)

LT-S935**4CIPEPTC****N,N'-di[2-(4-chloro-phenyl)-ethyl]-3,4,9,10-perylene tetracarboxylic acid diimide**

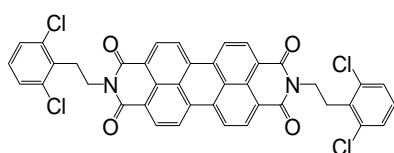
Formula : $C_{40}H_{24}N_2O_4Cl_2$
 Molecular Weight : 667.53 g/mole
 Thermal Gravimetric Analysis : 400°C (0.5% weight loss)
 Absorption : 525nm (in CH_2Cl_2)
 Photoluminescence : 544nm (in CH_2Cl_2)

LT-S936**4FPEPTC****N,N'-di[2-(4-fluoro-phenyl)-ethyl]-3,4,9,10-perylene tetracarboxylic acid diimide**

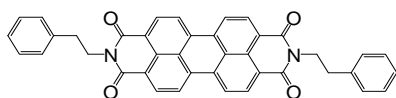
Formula : $C_{40}H_{24}N_2O_4F_2$
 Molecular Weight : 634.63 g/mole
 Thermal Gravimetric Analysis : 400°C (0.5% weight loss)
 Absorption : 524nm (in CH_2Cl_2)
 Photoluminescence : 538nm (in CH_2Cl_2)

LT-S937**2,4CIPEPTC****N,N'-di[2-(2,4-dichloro-phenyl)-ethyl]-3,4,9,10-perylene tetracarboxylic acid diimide**

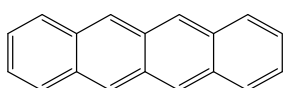
Formula : $C_{40}H_{22}N_2O_4Cl_4$
 Molecular Weight : 736.42 g/mole
 Thermal Gravimetric Analysis : 420°C (0.5% weight loss)
 Absorption : 524nm (in CH_2Cl_2)
 Photoluminescence : 536nm (in CH_2Cl_2)

LT-S938**2,6CIPEPTC****N,N'-di[2-(2,6-dichloro-phenyl)-ethyl]-3,4,9,10-perylene tetracarboxylic acid diimide**

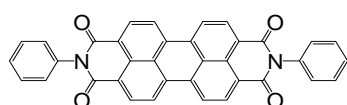
Formula : $C_{40}H_{22}N_2O_4Cl_4$
 Molecular Weight : 736.42 g/mole
 Thermal Gravimetric Analysis : 470°C (0.5% weight loss)
 Absorption : 524nm (in CH_2Cl_2)
 Photoluminescence : 536nm (in CH_2Cl_2)

LT-S939**PEPTC****N,N'-di(2-phenyl-ethyl)-3,4,9,10-perylene tetracarboxylic acid diimide**

Formula : $C_{40}H_{26}N_2O_4$
 Molecular Weight : 598.64 g/mole
 Thermal Gravimetric Analysis : 420°C (0.5% weight loss)
 Absorption : 524nm (in CH_2Cl_2)
 Photoluminescence : 537nm (in CH_2Cl_2)

LT-S940**Tetracene****2,3-Benzanthracene**

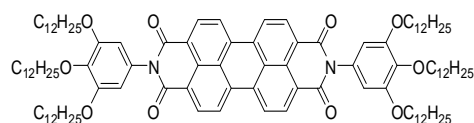
Formula : $C_{18}H_{12}$
 Molecular Weight : 228.29 g/mole
 CAS No. : 92-24-0
 Thermal Gravimetric Analysis : 200°C (0.5% weight loss)
 Absorption : 277nm (in CH_2Cl_2)
 Photoluminescence : 481,514nm (in CH_2Cl_2)

LT-S941**DP-PTCDI****N,N'-diphenyl-perylene-3,4,9,10-tetracarboxylic acid diimide**

Formula : $C_{36}H_{20}N_2O_4$
 Molecular Weight : 542.54 g/mole
 Thermal Gravimetric Analysis : 410°C (0.5% weight loss)
 Absorption : 481,515nm (in THF)
 Photoluminescence : 531nm (in THF)

LT-S956**PDI1****N,N'-di(3,4,5-tridodecyloxyphenyl)perylene-3,4,9,10-tetracarboxylic acid bisimide****New**Formula : $C_{108}H_{162}N_2O_{10}$

Molecular Weight : 1648.45g/mole

**LT-S960****4MeOPEPTC****N,N'-di[2-(4-methoxyphenyl)-ethyl]-3,4,9,10-perylene tetracarboxylic acid diimide****New**Formula : $C_{42}H_{30}N_2O_6$

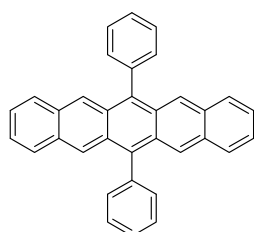
Molecular Weight : 658.7g/mole

Thermal Gravimetric Analysis : 407°C (0.5% weight loss)

Absorption : 458,487,524nm (in CH_2Cl_2)Photoluminescence : 534nm (in CH_2Cl_2)**LT-S968****6,13-DP-Penta****6,13-diphenylpentacene****New**Formula : $C_{34}H_{22}$

Molecular Weight : 430.54g/mole

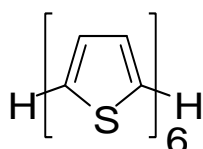
Thermal Gravimetric Analysis : 318°C (0.5% weight loss)

Absorption : 307nm (in CH_2Cl_2)Photoluminescence : 428,447nm (in CH_2Cl_2)**LT-S969****α-6T****α-Sexithiophene****New**Formula : $C_{24}H_{14}S_6$

Molecular Weight : 494.76g/mole

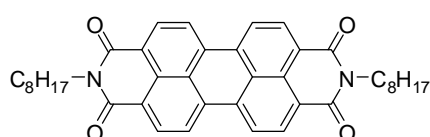
CAS No. : 88493-55-4

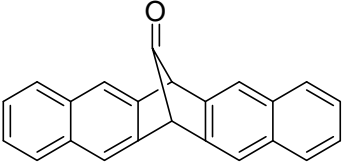
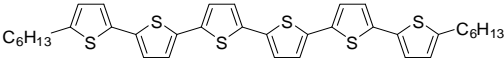
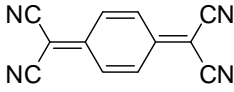
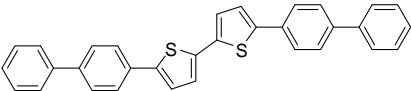
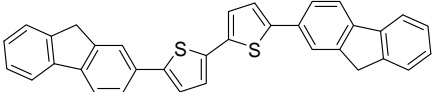
Thermal Gravimetric Analysis : 360°C (0.5% weight loss)

Absorption : 437nm (in CH_2Cl_2)Photoluminescence : 511nm (in CH_2Cl_2)**LT-S970****PTCDI-C8****Perylene-3,4,9,10-tetracarboxylic acid N,N'-dioctylimide****New**Formula : $C_{40}H_{42}N_2O_4$

Molecular Weight : 614.77g/mole

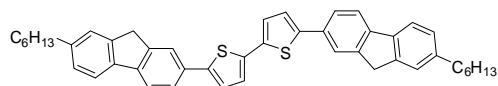
Thermal Gravimetric Analysis : 426°C (0.5% weight loss)

Absorption : 456,487,524nm (in CH_2Cl_2)Photoluminescence : 542,573nm (in CH_2Cl_2)

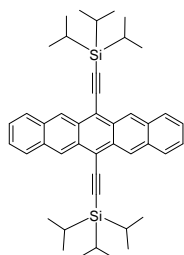
LT-S971	DMP	6,13-Dihydro-6,13-methanopentacene-15-one
New		Formula : C ₂₃ H ₁₄ O Molecular Weight : 306.36 g/mole
		
LT-S972	α, ω-DH6T	5,5''''-Dihexyl-2,2':5',2'':5'',2''':5''',2''''-5''''',2''''-sexithiophene
New		Formula : C ₃₆ H ₃₈ S ₆ Molecular Weight : 663.08 g/mole Reference : 1. <i>J. Appl. Phys.</i> , 2003,93,2977 2. <i>Science</i> , 1994,265,1684
		
LT-S973	TCNQ	2,2'-(cyclohexa-2,5-diene-1,4-diylidene)dimalononitrile
New		Formula : C ₁₂ H ₄ N ₄ Molecular Weight : 204.19 g/mole CAS No. : 1518-16-7
		
LT-S974	BP2T	5,5'-di(biphenyl-4-yl)-2,2'-bithiophene
New		Formula : C ₃₂ H ₂₂ S ₂ Molecular Weight : 470.65 g/mole
		
LT-S975	FTTF	5,5'-di(9H-fluoren-2-yl)-2,2'-bithiophene
New		Formula : C ₃₄ H ₂₂ S ₂ Molecular Weight : 494.67 g/mole Reference : <i>J. Am. Chem. Soc.</i> , 2001, 123, 9214
		

LT-S976**DH-FTTF****5,5'-bis(7-hexyl-9H-fluoren-2-yl)-2,2'-bithiophene****New**Formula : $C_{46}H_{46}S_2$

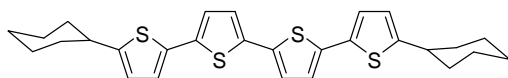
Molecular Weight : 662.99 g/mole

Reference : *J. Am. Chem. Soc.*, 2001, 123, 9214**LT-S977****TIPS****6,13-bis((triisopropylsilyl)ethynyl)pentacene****New**Formula : $C_{44}H_{54}Si_2$

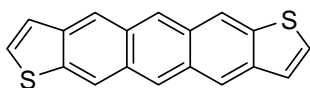
Molecular Weight : 639.07 g/mole

Reference : *J. Am. Chem. Soc.*, 2001, 123, 9482**LT-S978****CH4T****4,4''''-Dicyclohexyl-2,2':5'',2'':5''',2''':5''''-quinquethiophene****New**Formula : $C_{28}H_{30}S_4$

Molecular Weight : 494.8 g/mole

**LT-S9026****ADT****Anthradithiophene****New**Formula : $C_{18}H_{10}S_2$

Molecular Weight : 290.4 g/mole

**LT-S9027****diF-TES-ADT****2,8-difluoro-5,11-bis(triethylsilylethynyl) anthradithiophene****New**Formula : $C_{34}H_{36}F_2S_2Si_2$

Molecular Weight : 602.95 g/mole

Reference : *Nature Materials*, 2008, 7, 216