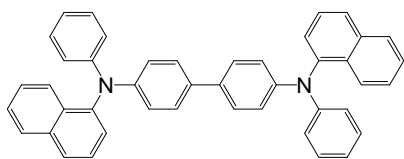


Hole Transport Layer(HTL) Materials

LT-E101

NPB

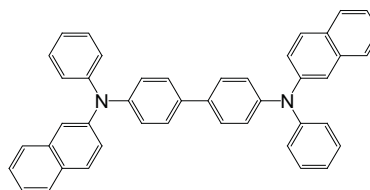


***N,N'*-bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-benzidine**

Formula	: C ₄₄ H ₃₂ N ₂
Molecular Weight	: 588.74 g/mole
Glass Transition Temperature	: 99°C
CAS No.	: 123847-85-8
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 339 nm (in THF)
Photoluminescence	: 450 nm (in THF)
Grade	: Sublimed, > 99%

LT-E102

β-NPB

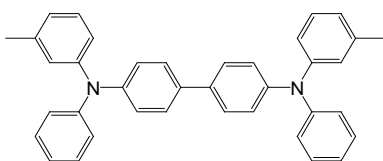


***N,N'*-bis(naphthalen-2-yl)-*N,N'*-bis(phenyl)-benzidine**

Formula	: C ₄₄ H ₃₂ N ₂
Molecular Weight	: 588.74 g/mole
Glass Transition Temperature	: 104°C
CAS No.	: 139255-17-7
Thermal Gravimetric Analysis	: >330°C(0.5% weight loss)
Absorption	: 349 nm (in THF)
Photoluminescence	: 416 nm (in THF)
Grade	: Sublimed, > 99%

LT-E103

TPD

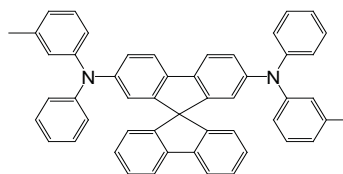


***N,N'*-bis(3-methylphenyl)-*N,N'*-bis(phenyl)-benzidine**

Formula	: C ₃₈ H ₃₂ N ₂
Molecular Weight	: 516.67 g/mole
CAS No.	: 65181-78-4
Thermal Gravimetric Analysis	: >300°C (0.5% weight loss)
Absorption	: 352 nm (in THF)
Photoluminescence	: 398 nm (in THF)
Grade	: Sublimed, > 99%

LT-E105

Spiro-TPD

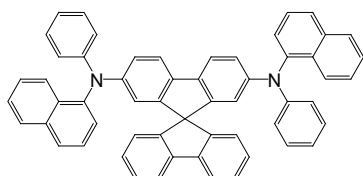


***N,N'*-bis(3-methylphenyl)-*N,N'*-bis(phenyl)-9,9-spirobifluorene**

Formula	: C ₅₁ H ₃₈ N ₂
Molecular Weight	: 678.86 g/mole
Glass Transition Temperature	: 102°C
CAS No.	: 1033035-83-4
Thermal Gravimetric Analysis	: >280°C (0.5% weight loss)
Absorption	: 379 nm (in THF)
Photoluminescence	: 416 nm (in THF)
Grade	: Sublimed, > 99%

LT-E106

Spiro-NPB

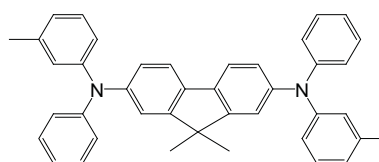


***N,N'*-bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-9,9-spirobifluorene**

Formula	: C ₅₇ H ₃₈ N ₂
Molecular Weight	: 750.93 g/mole
Glass Transition Temperature	: 126°C
CAS No.	: 932739-76-9
Thermal Gravimetric Analysis	: >390°C (0.5% weight loss)
Absorption	: 380 nm (in THF)
Photoluminescence	: 453 nm (in THF)
Grade	: Sublimed, > 99%

LT-E109

DMFL-TPD



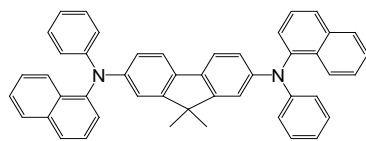
***N,N'*-bis(3-methylphenyl)-*N,N'*-bis(phenyl)-9,9-dimethylfluorene**

Formula	: C ₄₁ H ₃₈ N ₂
Molecular Weight	: 556.74 g/mole
CAS No.	: 677350-83-3
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 376 nm (in THF)
Photoluminescence	: 401 nm (in THF)
Grade	: Sublimed, > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-E110

DMFL-NPB

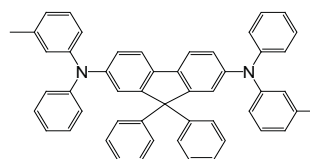


***N,N'*-bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-9,9-dimethyl-fluorene**

Formula	:	C ₄₇ H ₃₆ N ₂
Molecular Weight	:	628.80 g/mol
Glass Transition Temperature	:	128°C
CAS No.	:	1229226-27-0
Thermal Gravimetric Analysis	:	>330°C (0.5% weight loss)
Absorption	:	381 nm (in THF)
Photoluminescence	:	458 nm (in THF)
Grade	:	Sublimed, > 99%

LT-E111

DPFL-TPD

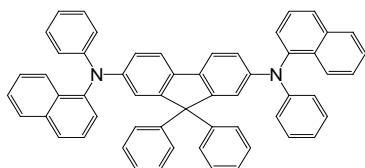


***N,N'*-bis(3-methylphenyl)-*N,N'*-bis(phenyl)-9,9-diphenyl-fluorene**

Formula	:	C ₅₁ H ₄₀ N ₂
Molecular Weight	:	680.88 g/mole
CAS No.	:	206886-03-5
Thermal Gravimetric Analysis	:	>320°C (0.5% weight loss)
Absorption	:	381 nm (in THF)
Photoluminescence	:	410 nm (in THF)
Grade	:	Sublimed, > 99%

LT-E112

DPFL-NPB

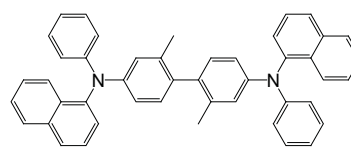


***N,N'*-bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-9,9-diphenyl-fluorene**

Formula	:	C ₅₇ H ₄₀ N ₂
Molecular Weight	:	752.94 g/mole
Glass Transition Temperature	:	114°C
CAS No.	:	357645-40-0
Thermal Gravimetric Analysis	:	>300°C (0.5% weight loss)
Absorption	:	371 nm (in THF)
Photoluminescence	:	466 nm (in THF)
Grade	:	Sublimed, > 99%

LT-E115

α-NPD

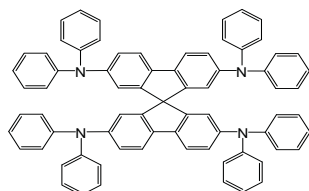


***N,N'*-bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-2,2'-dimethylbenzidine**

Formula	:	C ₄₆ H ₃₆ N ₂
Molecular Weight	:	616.79 g/mole
Glass Transition Temperature	:	100°C
CAS No.	:	495416-60-9
Thermal Gravimetric Analysis	:	>310°C (0.5% weight loss)
Absorption	:	307 nm (in CH ₂ Cl ₂)
Photoluminescence	:	447 nm (in CH ₂ Cl ₂)
Grade	:	Sublimed, > 99%

LT-E116

Spiro-TAD



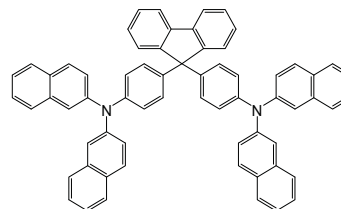
2,2',7,7'-tetrakis(*N,N*-diphenylamino)-9,9-spirobifluorene

Formula	:	C ₇₃ H ₅₂ N ₄
Molecular Weight	:	985.22 g/mole
CAS No.	:	189363-47-1
Thermal Gravimetric Analysis	:	>290°C (0.5% weight loss)
Absorption	:	378 nm (in THF)
Photoluminescence	:	415 nm (in THF)
Grade	:	Sublimed, > 99%

Reference : WO 03/037844A1

LT-N121

NPAPF



9,9-bis[4-(*N,N*-bis-naphthalen-2-yl-amino)phenyl]-9H-fluorene

Formula	:	C ₆₅ H ₄₄ N ₂
Molecular Weight	:	853.06 g/mole
Glass Transition Temperature	:	166°C
CAS No.	:	916061-87-5
Thermal Gravimetric Analysis	:	>460°C (0.5% weight loss)
Absorption	:	322 nm (in THF)
Photoluminescence	:	418 nm (in THF)
Grade	:	Sublimed, > 99%

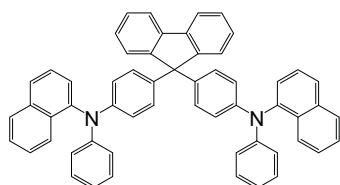
Reference : US 6586120, TW 186028

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Hole Transport Layer(HTL) Materials

LT-N124

NPBAPF



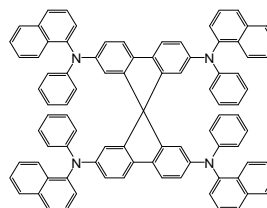
9,9-bis[4-(N-naphthalen-1-yl-N-phenylamino)-phenyl]-9H-fluorene

Formula	: C ₅₇ H ₄₀ N ₂
Molecular Weight	: 752.94 g/mole
CAS No.	: 510775-24-3
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 304 nm (in THF)
Photoluminescence	: 431 nm (in THF)
Grade	: Sublimed, > 99%

Reference : US 6586120, TW 186028

LT-N125

Spiro-2NPB

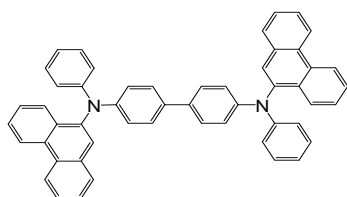


2,2',7,7'-tetrakis[N-naphthalenyl(phenyl)-amino]-9,9-spirobifluorene

Formula	: C ₈₉ H ₆₀ N ₄
Molecular Weight	: 1185.46 g/mole
CAS No.	: 404001-42-9
Thermal Gravimetric Analysis	: >420°C (0.5% weight loss)
Absorption	: 380 nm (in THF)
Photoluminescence	: 484 nm (in THF)
Grade	: Sublimed, > 99%

LT-N131

PAPB

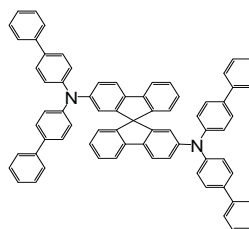


N,N'-bis(phenanthren-9-yl)-N,N'-bis(phenyl)-benzidine

Formula	: C ₅₂ H ₃₆ N ₂
Molecular Weight	: 688.86 g/mole
CAS No.	: 934000-87-0
Thermal Gravimetric Analysis	: >410°C (0.5% weight loss)
Absorption	: 336 nm (in THF)
Photoluminescence	: 454 nm (in THF)
Grade	: Sublimed, > 99%

LT-N135

2,2'-Spiro-DBP

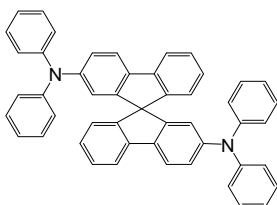


2,2'-bis[N,N'-bis(biphenyl-4-yl)amino]-9,9-spirobifluorene

Formula	: C ₇₃ H ₅₀ N ₂
Molecular Weight	: 955.19 g/mole
CAS No.	: 1174006-39-3
Thermal Gravimetric Analysis	: >420°C (0.5% weight loss)
Absorption	: 349 nm (in THF)
Photoluminescence	: 413 nm (in THF)
Grade	: Sublimed, > 99%

LT-N136

Spiro-BPA



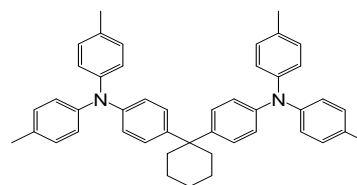
2,2'-bis(N,N-di-phenyl-amino)-9,9-spirobifluorene

Formula	: C ₄₉ H ₃₄ N ₂
Molecular Weight	: 650.81 g/mole
CAS No.	: 862664-73-1
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 348 nm (in THF)
Photoluminescence	: 398 nm (in THF)
Grade	: Sublimed, > 99%

Reference : Adv. Mater. 2006, 18, 1216-1220.

LT-N137

TAPC

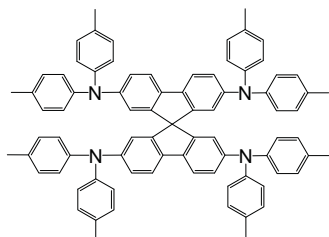


Di-[4-(N,N-ditolyl-amino)-phenyl]cyclohexane

Formula	: C ₄₆ H ₄₆ N ₂
Molecular Weight	: 626.87 g/mole
Glass Transition Temperature	: 89°C
CAS No.	: 1174006-36-0
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 305 nm (in THF)
Photoluminescence	: 414 nm (in THF)
Grade	: Sublimed, > 99%

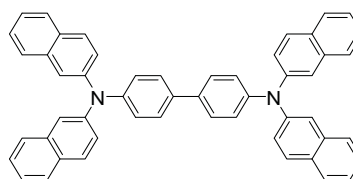
Reference : Journal of Applied Physics, Vol. 95, No.12, 7798

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

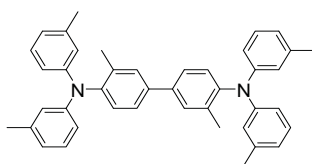
LT-N138
Spiro-TTB

2,2',7,7'-tetra(*N,N*-ditolyl)amino-9,9-spiro-bifluorene

Formula	: C ₈₁ H ₆₈ N ₄
Molecular Weight	: 1097.43 g/mole
Glass Transition Temperature	: 149°C
CAS No.	: 515834-67-0
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 385 nm (in THF)
Photoluminescence	: 418 nm (in THF)
Grade	: Sublimed, > 99%

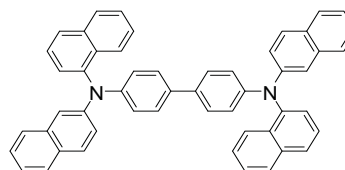
Reference : *Adv. Funct. Mater.* 2006, 16, 966-974.

LT-N139
β-TNB

***N,N,N',N'*-tetra-naphthalen-2-yl-benzidine**

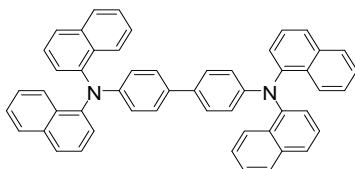
Formula	: C ₅₂ H ₃₆ N ₂
Molecular Weight	: 688.86 g/mole
Glass Transition Temperature	: 139°C
CAS No.	: 141752-82-1
Thermal Gravimetric Analysis	: >410°C (0.5% weight loss)
Absorption	: 354 nm (in THF)
Photoluminescence	: 429 nm (in THF)
Grade	: Sublimed, > 99%

LT-N140
HMTPD

***N,N,N',N'*-tetra-(3-methylphenyl)-3,3'-dimethylbenzidine**

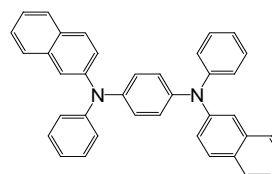
Formula	: C ₄₂ H ₄₀ N ₂
Molecular Weight	: 572.78 g/mole
Thermal Gravimetric Analysis	: >240°C (0.5% weight loss)
Absorption	: 302 nm (in THF)
Photoluminescence	: 399 nm (in THF)
Grade	: Sublimed, > 99%

LT-N141
α,β-TNB

***N,N*-di(naphthalenyl)-*N,N'*-di(naphthalen-2-yl)-benzidine**

Formula	: C ₅₂ H ₃₆ N ₂
Molecular Weight	: 688.86 g/mole
Glass Transition Temperature	: 140°C
CAS No.	: 374592-88-8
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 345 nm (in CH ₂ Cl ₂)
Photoluminescence	: 462 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 98%

LT-N142
α-TNB

***N,N,N',N'*-tetra-naphthalenyl-benzidine**

Formula	: C ₅₂ H ₃₆ N ₂
Molecular Weight	: 688.86 g/mole
CAS No.	: 186256-01-9
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 297, 362 nm (in CH ₂ Cl ₂)
Photoluminescence	: 462 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N143
β-NPP

***N,N*-di(naphthalen-2-yl)-*N,N'*-diphenylbenzene-1,4-diamine**

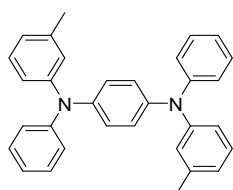
Formula	: C ₃₀ H ₂₈ N ₂
Molecular Weight	: 512.64 g/mole
CAS No.	: 139994-47-1
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 323 nm (in THF)
Photoluminescence	: 466 nm (in THF)
Grade	: Sublimed, > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Hole Transport Layer(HTL) Materials

LT-N144

TTP

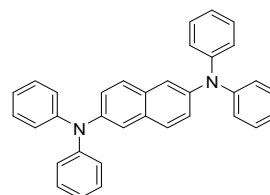


N',N'-diphenyl-N',N'-dim-tolylbenzene-1,4-diamine

Formula	: C ₃₂ H ₂₈ N ₂
Molecular Weight	: 440.58 g/mole
CAS No.	: 80223-29-6
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 314 nm (in CH ₂ Cl ₂)
Photoluminescence	: 415, 439 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N145

NDDP

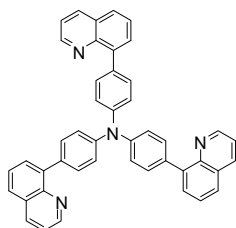


N',N',N',N'-tetraphenyl-naphthalene-2,6-diamine

Formula	: C ₃₄ H ₂₆ N ₂
Molecular Weight	: 462.58 g/mole
CAS No.	: 111961-87-6
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 312, 341 nm (in CH ₂ Cl ₂)
Photoluminescence	: 438 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N146

TQTPA



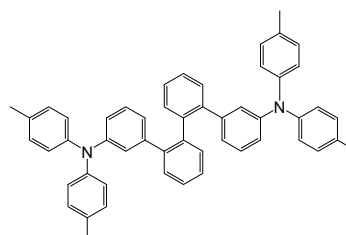
Tris(4-(quinolin-8-yl)phenyl)amine

Formula	: C ₄₅ H ₃₀ N ₄
Molecular Weight	: 626.75 g/mole
CAS No.	: 1142945-07-0
Thermal Gravimetric Analysis	: >390°C (0.5% weight loss)
Photoluminescence	: 431 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : Chem. Mater. 2009, 21, 1284-1287

LT-N147

3DTAPBP



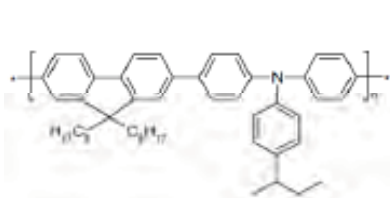
2,2'-bis(3-(N,N-di-p-tolylamino)phenyl)biphenyl

Formula	: C ₅₂ H ₄₄ N ₂
Molecular Weight	: 696.92 g/mole
CAS No.	: 869357-89-1
Absorption	: 291 nm (in CH ₂ Cl ₂)
Photoluminescence	: 430 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : J. Light & Vis. Env. Vol.32, No.2, 2008, 75

LT-N148

TFB



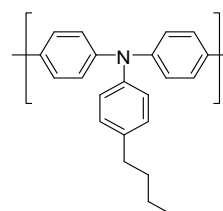
Poly[(9,9-dioctylfluorenyl-2,7-diyl)-co-(4,4'-(N-(4-sec-butylphenyl)diphenyl)amine)]

Formula	: (C ₅₁ H ₆₁ N) _n
Mw	: >10000
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 389 nm (in CH ₂ Cl ₂)
Photoluminescence	: 443 nm (in CH ₂ Cl ₂)

LT-N149

Poly-TPD

New



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

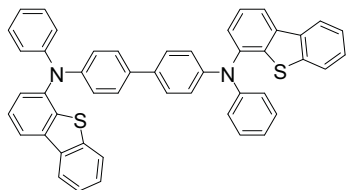
Formula	: (C ₅₂ H ₄₁ N) _n
Mw	: > 10000
CAS No.	: 472960-35-3

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N150

DBTPB

New



***N,N'*-bis(dibenzo[b,d]thiophen-4-yl)-*N,N'*-diphenylbiphenyl-4,4'-diamine**

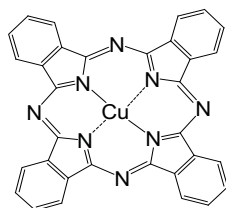
Formula	: C ₄₈ H ₃₂ N ₂ S ₂
Molecular Weight	: 700.91 g/mole
Thermal Gravimetric Analysis	: >430°C(0.5% weight loss)
Absorption	: 279,338nm(in CH ₂ Cl ₂)
Photoluminescence	: 407nm(in CH ₂ Cl ₂)
Grade	: >99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Hole Injection Layer(HIL) Materials

LT-E201

CuPC

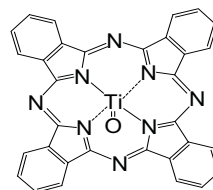


Phthalocyanine, copper complex

Formula	: C ₃₂ H ₁₆ N ₈ Cu
Molecular Weight	: 576.07 g/mole
CAS No.	: 147-14-8
Thermal Gravimetric Analysis	: >430°C (0.5% weight loss)
Absorption	: 345, 631 nm (in CH ₂ Cl ₂)
Photoluminescence	: 404 nm (film)
Grade	: Sublimed product

LT-E206

TiOPC

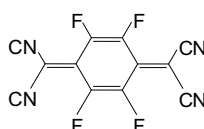


Titanium oxide phthalocyanine

Formula	: C ₃₂ H ₁₆ N ₈ O ₂ Ti
Molecular Weight	: 576.39 g/mole
CAS No.	: 26201-32-1
Thermal Gravimetric Analysis	: >440°C (0.5% weight loss)
Photoluminescence	: 392 nm (film)
Grade	: Sublimed product

LT-E208

F4-TCNQ

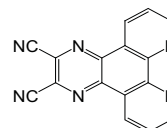


2,3,5,6-tetrafluoro-7,7,8,8-tetracyano-quinodimethane

Formula	: C ₁₂ F ₄ N ₄
Molecular Weight	: 276.15 g/mole
CAS No.	: 29261-33-4
Thermal Gravimetric Analysis	: >210°C (0.5% weight loss)
Absorption	: 339 nm (in THF)
Photoluminescence	: 402 nm (in THF)
Grade	: Sublimed product

LT-N211

PPDN

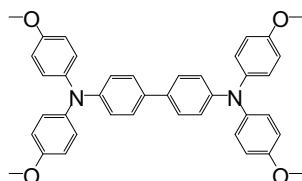


Pyrazino[2,3-f][1,10]phenanthroline-2,3-dicarbonitrile

Formula	: C ₁₆ H ₆ N ₆
Molecular Weight	: 282.26 g/mole
CAS No.	: 215611-93-1
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 307 nm (in CH ₂ Cl ₂)
Photoluminescence	: 487 nm (in CH ₂ Cl ₂)
Grade	: Sublimed product

LT-N212

MeO-TPD



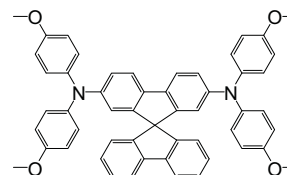
N,N,N',N'-tetrakis(4-methoxyphenyl)benzidine

Formula	: C ₄₀ H ₃₆ N ₂ O ₄
Molecular Weight	: 608.72 g/mole
Thermal Gravimetric Analysis	: >300°C (0.5% weight loss)
CAS No.	: 244260-36-4
Absorption	: 302, 351 nm (in THF)
Photoluminescence	: 429 nm (in THF)
Grade	: Sublimed, > 99%

Reference : 1. J. Appl. Phys. 100, 064507 (2006)
2. Synthetic Metals, 148 (2005) 205-211.

LT-N213

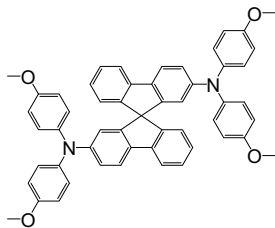
MeO-Spiro-TPD



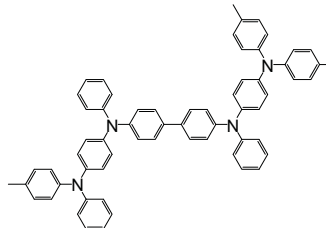
2,7-bis[N,N-bis(4-methoxy-phenyl)amino]-9,9-spirobifluorene

Formula	: C ₅₃ H ₄₂ N ₂ O ₄
Molecular Weight	: 770.91 g/mole
Glass Transition Temperature	: 115°C
CAS No.	: 1138220-69-5
Thermal Gravimetric Analysis	: >330°C (0.5% weight loss)
Absorption	: 306, 386 nm (in THF)
Photoluminescence	: 428 nm (in THF)
Grade	: Sublimed, > 99%

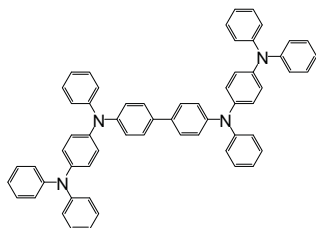
Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N214 2,2'-MeO-Spiro-TPD

2,2'-bis[N,N-bis(4-methoxy-phenyl)amino]-9,9-spirobifluorene

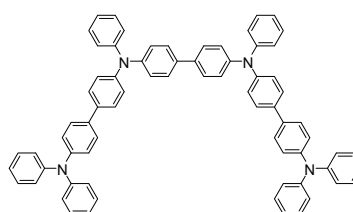
Formula	: C ₅₃ H ₄₂ N ₂ O ₄
Molecular Weight	: 770.91 g/mole
Glass Transition Temperature	: 110°C
CAS No.	: 1174006-40-6
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 348 nm (in CH ₂ Cl ₂)
Photoluminescence	: 442 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N215 NTNPB

N,N'-diphenyl-N,N'-di-[4-(N,N-ditolyl-amino)phenyl]benzidine

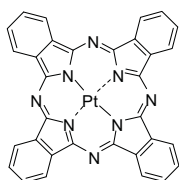
Formula	: C ₆₄ H ₅₄ N ₄
Molecular Weight	: 879.14 g/mole
Glass Transition Temperature	: 121°C
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 327 nm (in THF)
Photoluminescence	: 458 nm (in THF)
Grade	: Sublimed, > 99%

LT-N216 NPNPB

N,N'-diphenyl-N,N'-di-[4-(N,N-diphenyl-amino)phenyl]benzidine

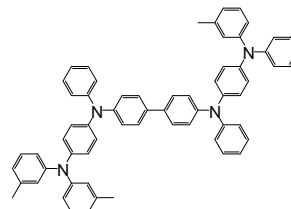
Formula	: C ₆₀ H ₄₆ N ₄
Molecular Weight	: 823.03 g/mole
CAS No.	: 936355-01-0
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 324 nm (in THF)
Photoluminescence	: 451 nm (in THF)
Grade	: Sublimed, > 99%

LT-N218 TPT1

N,N'-di-(biphenyl-4,4'-diyl)bis(N,N',N''-triphenylbiphenyl-4,4'-diamine)

Formula	: C ₇₂ H ₅₄ N ₄
Molecular Weight	: 975.23 g/mole
CAS No.	: 934703-71-6
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 394 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N219 PtPC

Phthalocyanine, platinum complex

Formula	: C ₃₂ H ₁₆ N ₈ Pt
Molecular Weight	: 707.60 g/mole
CAS No.	: 14075-08-2
Thermal Gravimetric Analysis	: >460°C (0.5% weight loss)
Photoluminescence	: 372.5 nm (in CH ₂ Cl ₂)
Grade	: Sublimed product

LT-N220 DNTPD

N,N'-di-(biphenyl-4,4'-diyl)bis(N-phenyl-N,N'-di-m-tolylbenzene-1,4-diamine)

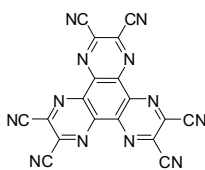
Formula	: C ₆₄ H ₅₄ N ₄
Molecular Weight	: 879.14 g/mole
CAS No.	: 199121-98-7
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 392 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Hole Injection Layer(HIL) Materials

LT-N221

HAT-CN



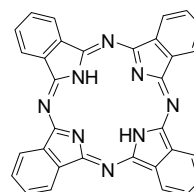
Dipyrazino[2,3-f:2',3'-h]quinoxaline-2,3,6,7,10,11-hexacarbonitrile

Formula	: C ₁₈ N ₁₂
Molecular Weight	: 384.27 g/mole
CAS No.	: 105598-27-4
Thermal Gravimetric Analysis	: >400°C (0.5% weight loss)
Grade	: Sublimed, > 99%
Reference	: WO2004054326 (2004)

LT-N222

H₂PC

New



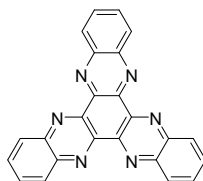
Phthalocyanine

Formula	: C ₃₂ H ₁₈ N ₈
Molecular Weight	: 514.54 g/mole
CAS No.	: 574-93-6

LT-N224

HATNA

New



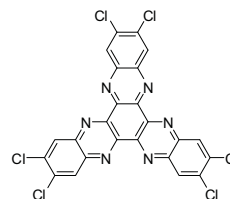
diquinoxalino[2,3-a:2',3'-c]phenazine

Formula	: C ₂₄ H ₁₂ N ₆
Molecular Weight	: 384.39 g/mole
Thermal Gravimetric Analysis	: >340°C (0.5% weight loss)
Grade	: > 99%

LT-N225

HATNA-Cl6

New



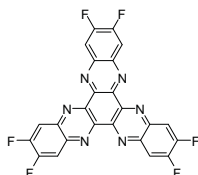
2,3,8,9,14,15-hexachlorodiquinoxalino[2,3-a:2',3'-c]phenazine

Formula	: C ₂₄ H ₆ Cl ₆ N ₆
Molecular Weight	: 591.06 g/mole

LT-N226

HATNA-F6

New



2,3,8,9,14,15-hexafluorodiquinoxalino[2,3-a:2',3'-c]phenazine

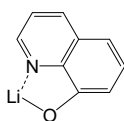
Formula	: C ₂₄ H ₆ F ₆ N ₆
Molecular Weight	: 492.34 g/mole

Materials are used for qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Electron Transport Layer / Hole Blocking Layer(ETL/HBL) Materials

LT-E301

Liq

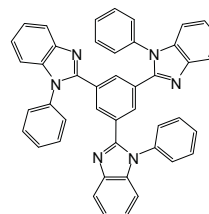


8-hydroxyquinolinolato-lithium

Formula	: C ₉ H ₆ LiNO
Molecular Weight	: 151.09 g/mole
Glass Transition Temperature	: 130°C
CAS No.	: 850918-68-2
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 261 nm (in THF)
Photoluminescence	: 331 nm (in THF)
Grade	: Sublimed product

LT-E302

TPBi

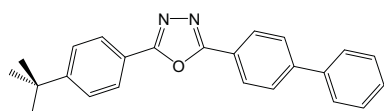


2,2',2''-(1,3,5-benzinetriyl)-tris(1-phenyl-1H-benzimidazole)

Formula	: C ₄₅ H ₃₀ N ₆
Molecular Weight	: 654.76 g/mole
Glass Transition Temperature	: 122°C
CAS No.	: 192198-85-9
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 305 nm (in THF)
Photoluminescence	: 359, 370 nm (in THF)
Grade	: Sublimed, > 99%

LT-E303

PBD

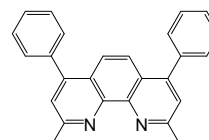


2-(4-biphenyl)-5-(4-tert-butylphenyl)-1,3,4-oxadiazole

Formula	: C ₂₄ H ₂₂ N ₂ O
Molecular Weight	: 354.44 g/mole
CAS No.	: 15082-28-7
Thermal Gravimetric Analysis	: >210°C (0.5% weight loss)
Absorption	: 305 nm (in THF)
Photoluminescence	: 364, 380 nm (in THF)
Grade	: Sublimed, > 99%

LT-E304

BCP

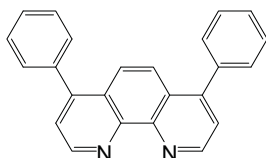


2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline

Formula	: C ₂₆ H ₂₀ N ₂
Molecular Weight	: 360.45 g/mole
CAS No.	: 4733-39-5
Thermal Gravimetric Analysis	: >240°C (0.5% weight loss)
Absorption	: 277 nm (in THF)
Photoluminescence	: 386 nm (in THF)
Grade	: Sublimed product

LT-E305

Bphen

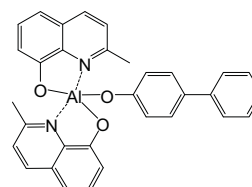


4,7-diphenyl-1,10-phenanthroline

Formula	: C ₂₄ H ₁₆ N ₂
Molecular Weight	: 332.4 g/mole
CAS No.	: 1662-01-7
Thermal Gravimetric Analysis	: >240°C (0.5% weight loss)
Absorption	: 272 nm (in THF)
Photoluminescence	: 379 nm (in THF)
Grade	: Sublimed product

LT-E407

BAIq



Bis(2-methyl-8-quinolinolato)-4-(phenylphenolato)aluminum

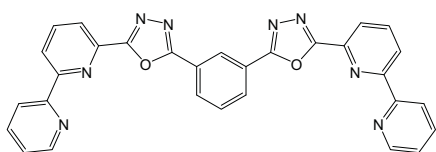
Formula	: C ₃₂ H ₂₅ AlN ₂ O ₃
Molecular Weight	: 512.53 g/mole
CAS No.	: 146162-54-1
Thermal Gravimetric Analysis	: >230°C (0.5% weight loss)
Absorption	: 259 nm (in THF)
Photoluminescence	: 334, 477 nm (in THF)
Grade	: Sublimed product

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Electron Transport Layer / Hole Blocking Layer(ETL/HBL) Materials

LT-N821

Bpy-OXD



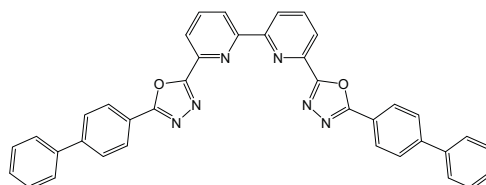
1,3-bis[2-(2,2'-bipyridine-6-yl)-1,3,4-oxadiazole-5-yl]benzene

Formula	: C ₃₀ H ₁₈ N ₈ O ₂
Molecular Weight	: 522.52 g/mole
Glass Transition Temperature	: 102°C
CAS No.	: 866117-19-3
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 276, 308 nm (in THF)
Photoluminescence	: 348 nm (in THF)
Grade	: Sublimed, > 99%

Reference : J. Mater. Chem., 2006, 16, 221-225

LT-N828

BP-OXD-Bpy



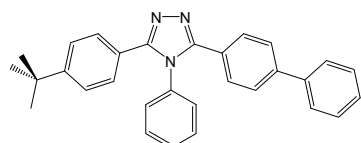
6,6'-bis[5-(biphenyl-4-yl)-1,3,4-oxadiazole-2-yl]-2,2'-bipyridyl

Formula	: C ₃₈ H ₂₄ N ₈ O ₂
Molecular Weight	: 596.64 g/mole
CAS No.	: 1219827-28-7
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 319 nm (in THF)
Photoluminescence	: 372 nm (in THF)
Grade	: Sublimed, > 99%

Reference :US 7282586

LT-N836

TAZ



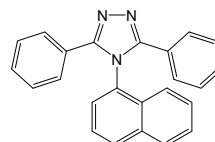
3-(4-biphenyl)-4-phenyl-5-tert-butylphenyl-1,2,4-triazole

Formula	: C ₃₀ H ₂₇ N ₃
Molecular Weight	: 429.56 g/mole
CAS No.	: 150405-69-9
Thermal Gravimetric Analysis	: >250°C (0.5% weight loss)
Absorption	: 290 nm (in THF)
Photoluminescence	: 370 nm (in THF)
Grade	: Sublimed, > 98%

Reference : 1. Adv. Mater., 2002, 14, No.22, November 18.
2. Synthetic Metals., 148(2005) 205-211.

LT-N837

NTAZ

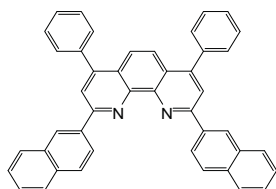


4-(naphthalen-1-yl)-3,5-diphenyl-4H-1,2,4-triazole

Formula	: C ₂₄ H ₁₇ N ₃
Molecular Weight	: 347.41 g/mole
CAS No.	: 16152-10-6
Thermal Gravimetric Analysis	: >260°C (0.5% weight loss)
Absorption	: 264 nm (in CH ₂ Cl ₂)
Photoluminescence	: 367 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N843

NBphen

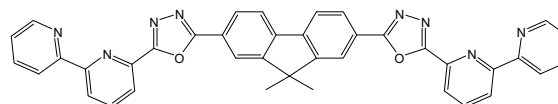


2,9-bis(naphthalen-2-yl)-4,7-diphenyl-1,10-phenanthroline

Formula	: C ₄₄ H ₂₈ N ₂
Molecular Weight	: 584.71 g/mole
CAS No.	: 1174006-43-9
Thermal Gravimetric Analysis	: >340°C (0.5% weight loss)
Absorption	: 264, 349 nm (in THF)
Photoluminescence	: 412 nm (in THF)
Grade	: Sublimed, > 99%

LT-N851

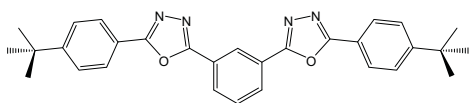
Bpy-FOXD



2,7-bis[2-(2,2'-bipyridine-6-yl)-1,3,4-oxadiazole-5-yl]-9,9-dimethylfluorene

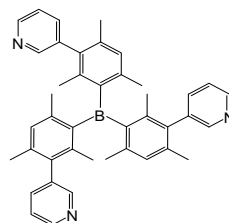
Formula	: C ₃₉ H ₂₆ N ₈ O ₂
Molecular Weight	: 638.68 g/mole
Glass Transition Temperature	: 134°C
CAS No.	: 1174006-45-1
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 348, 365 nm (in CH ₂ Cl ₂)
Photoluminescence	: 399 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N855
OXD-7

1,3-bis[2-(4-tert-butylphenyl)-1,3,4-oxadiazol-5-yl]benzene

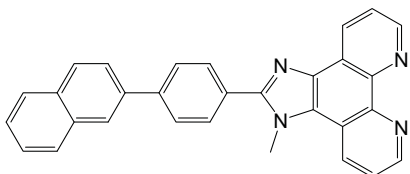
Formula	: C ₃₀ H ₃₀ N ₄ O ₂
Molecular Weight	: 478.58 g/mole
CAS No.	: 138372-67-5
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 292 nm (in THF)
Photoluminescence	: 347 nm (in THF)
Grade	: Sublimed, > 99%

Reference : 1. JP Journal of Appl. Phys. Vol.44, No.6A, 2005, 4151-4154.
2. Organic Electronics, Vol. 4, Issues 2-3, Sep. 2003, P105-111.

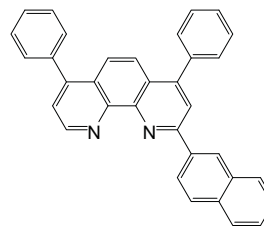
LT-N856
3TPYMB

Tris(2,4,6-trimethyl-3-(pyridin-3-yl)phenyl)borane

Formula	: C ₄₂ H ₄₂ N ₃ B
Molecular Weight	: 599.61 g/mole
CAS No.	: 929203-02-1
Thermal Gravimetric Analysis	: >230°C (0.5% weight loss)
Absorption	: 331 nm (in THF)
Photoluminescence	: 382 nm (in THF)
Grade	: Sublimed, > 99%

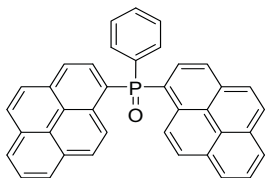
Reference : Chemistry Letters. Vol. 36, No. 2, P262, 2007.

LT-N857
2-NPIP

1-methyl-2-(4-(naphthalen-2-yl)phenyl)-1H-imidazo[4,5f][1,10]phenanthroline

Formula	: C ₃₀ H ₂₀ N ₄
Molecular Weight	: 436.51 g/mole
CAS No.	: 1234997-42-2
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 275 nm (in CH ₂ Cl ₂)
Photoluminescence	: 412 nm (in CH ₂ Cl ₂)
Grade	: Sublimed product

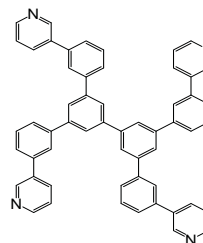
LT-N860
HNBphen

2-(naphthalen-2-yl)-4,7-diphenyl-1,10-phenanthroline

Formula	: C ₃₄ H ₂₂ N ₂
Molecular Weight	: 458.55 g/mole
CAS No.	: 923972-84-3
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 281, 327 nm (in CH ₂ Cl ₂)
Photoluminescence	: 398 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N861
POPy₂

Phenyl-dipyrenylphosphine oxide

Formula	: C ₃₈ H ₂₃ OP
Molecular Weight	: 526.56 g/mole
CAS No.	: 721969-93-3
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 281,360 nm (in CH ₂ Cl ₂)
Photoluminescence	: 382 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference: Appl. Phys. Lett. 92, 063306 2008

LT-N862
BP4mPy

3,3',5,5'-tetra[(m-pyridyl)-phen-3-yl]biphenyl

Formula	: C ₅₈ H ₃₈ N ₄
Molecular Weight	: 766.93 g/mole
Glass Transition Temperature	: 107°C
CAS No.	: 1009033-94-6
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 253 nm (in THF)
Photoluminescence	: 352 nm (in THF)
Grade	: Sublimed, > 99%

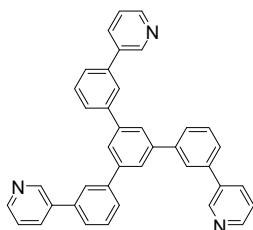
Reference : Org. Lett., 2008, 10(5), p941-944.

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Electron Transport Layer / Hole Blocking Layer(ETL/HBL) Materials

LT-N863

TmPyPB



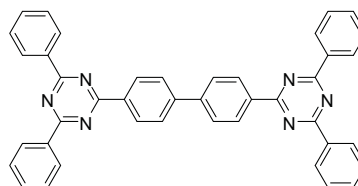
1,3,5-tri[(3-pyridyl)-phen-3-yl]benzene

Formula	: C ₃₉ H ₂₇ N ₃
Molecular Weight	: 537.65 g/mole
Glass Transition Temperature	: 80°C
CAS No.	: 921205-03-0
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 254 nm (in CH ₂ Cl ₂)
Photoluminescence	: 353 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : Adv.Mater., 2008, 20, p2125-2130.

LT-N864

BTB



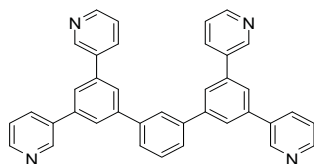
4,4'-bis(4,6-diphenyl-1,3,5-triazin-2-yl)biphenyl

Formula	: C ₄₂ H ₂₈ N ₆
Molecular Weight	: 616.71 g/mole
CAS No.	: 266349-83-1
Thermal Gravimetric Analysis	: >360°C(0.5% weight loss)
Grade	: Sublimed product

Reference : Organic Electronics, 2008, 9(3), p285

LT-N865

BmPyPhB



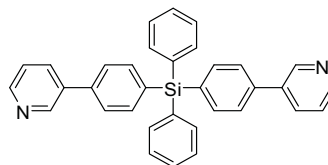
1,3-bis[3,5-di(pyridin-3-yl)phenyl]benzene

Formula	: C ₃₈ H ₂₆ N ₄
Molecular Weight	: 538.64 g/mole
CAS No.	: 1116081-79-8
Melting Point	: 268°C
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 250 nm (in CH ₂ Cl ₂)
Photoluminescence	: 357 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : Chem. Mater. 2008, 20, 5951-5953

LT-N869

DPPS



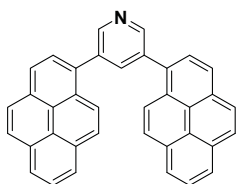
Diphenylbis(4-(pyridin-3-yl)phenyl)silane

Formula	: C ₃₄ H ₂₆ N ₂ Si
Molecular Weight	: 490.67 g/mole
CAS No.	: 1152162-74-7
Thermal Gravimetric Analysis	: >230°C (0.5% weight loss)
Grade	: Sublimed product

Reference : Adv. Mater. 2009, 21, 1271-1274

LT-N870

PY1



3,5-di(pyren-1-yl)pyridine

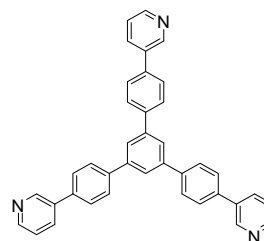
Formula	: C ₃₇ H ₂₁ N
Molecular Weight	: 479.57 g/mole
CAS No.	: 1246467-58-2
Thermal Gravimetric Analysis	: >390°C (0.5% weight loss)
Absorption	: 246,282,351 nm (in CH ₂ Cl ₂)
Photoluminescence	: 389 nm (in CH ₂ Cl ₂)
Glass Transition Temperature	: 107°C
Grade	: Sublimed, > 99%

Reference : organic electronics. 10, (2009), 877-882

LT-N872

TpPyPB

New



1,3,5-tri(p-pyrid-3-yl-phenyl)benzene

Formula	: C ₃₉ H ₂₇ N ₃
Molecular Weight	: 537.65 g/mole

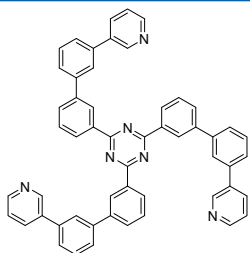
Reference : Adv. Mater. 2008, 20, 2125-2130

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N875

TmPPPyTz

New



2,4,6-tris(3'-(pyridin-3-yl)biphenyl-3-yl)-1,3,5-triazine

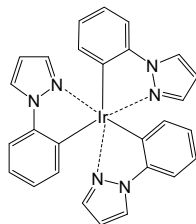
Formula	:	C ₅₄ H ₃₆ N ₆
Molecular Weight	:	768.9 g/mole
Thermal Gravimetric Analysis	:	>270°C(0.5% weight loss)
Absorption	:	251 nm (in CH ₂ Cl ₂)
Grade	:	> 99%
<i>Reference : Adv. Mater. 2010, 22, 3311–3316</i>		

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Electron Blocking Layer(EBL) Materials

LT-N002

$\text{Ir}(\text{ppz})_3$



Tris(phenylpyrazole)iridium

Formula	: $\text{C}_{27}\text{H}_{21}\text{N}_6\text{Ir}$
Molecular Weight.	: 621.71 g/mole
CAS No.	: 562824-31-1
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 242, 320 nm (in THF)
Photoluminescence	: 423 nm (in THF)
Grade	: Sublimed, > 99%

Reference: 1. *Applied Physics Letters*, 86, 263502 (2005)
2. *Advanced Materials*, Volume 16, (2004)

Electron Injection Layer(EIL) Materials / Metal

LT-E001

LiF

Lithium fluoride

Formula	: LiF
Assay	: >99.9%
Melting Point	: 848°C
Boiling Point	: 1681°C
Appearance	: Colorless Crystal
CAS No.	: 7789-24-4

LT-E002

Cs_2CO_3

Cesium carbonate

Formula	: Cs_2CO_3
Molecular Weight	: 325.82 g/mole
CAS No.	: 534-17-8

LT-E003

MoO_3

Molybdenum(VI) Oxide

Formula	: MoO_3
Molecular Weight	: 143.94 g/mole
Melting Point	: 795°C g/mole
CAS No.	: 1313-27-5

LT-E004

CsF

Cesium fluoride

Formula	: CsF
Molecular Weight	: 151.90 g/mole
Melting Point	: 682°C
CAS No.	: 13400-13-0

LT-E005

Al

Aluminium

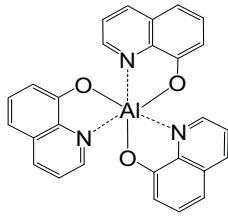
Formula	: Al
Molecular Weight	: 126.98 g/mole
Melting Point	: 660°C
CAS No.	: 7429-90-5

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Fluorescent Host Materials

LT-E401

Alq₃

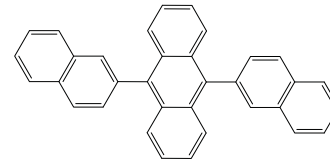


Tris(8-hydroxy-quinolino)aluminum

Formula	: C ₂₇ H ₁₈ AlN ₃ O ₃
Molecular Weight	: 459.43 g/mole
CAS No.	: 2085-33-8
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 259 nm (in THF)
Photoluminescence	: 512 nm (in THF)
Grade	: Sublimed product

LT-E403

ADN

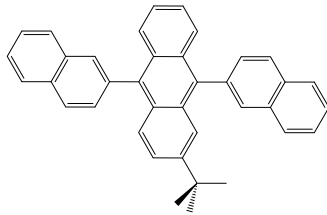


9,10-di(naphth-2-yl)anthracene

Formula	: C ₃₄ H ₂₂
Molecular Weight	: 430.54 g/mole
CAS No.	: 122648-99-1
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 375, 395 nm (in THF)
Photoluminescence	: 425 nm (in THF)
Grade	: Sublimed, > 99%

LT-E404

TBADN

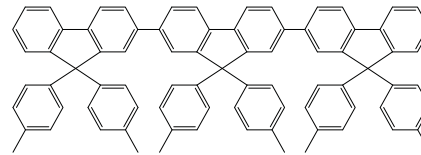


2-tert-butyl-9,10-di(naphth-2-yl)anthracene

Formula	: C ₃₈ H ₃₀
Molecular Weight	: 486.64 g/mole
CAS No.	: 274905-73-6
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 375, 395 nm (in THF)
Photoluminescence	: 431 nm (in THF)
Grade	: Sublimed, > 99%

LT-E408

TDAF

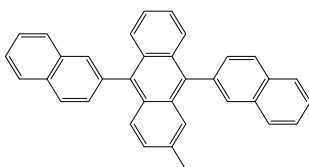


2,7-bis[9,9-di(4-methylphenyl)fluoren-2-yl]-9,9-di(4-methylphenyl)fluorene

Formula	: C ₈₁ H ₆₂
Molecular Weight	: 1035.36 g/mole
Glass Transition Temperature	: 201°C
CAS No.	: 474918-42-8
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 353 nm (in THF)
Photoluminescence	: 397, 419 nm (in THF)
Grade	: Sublimed, > 97%

LT-E410

MADN

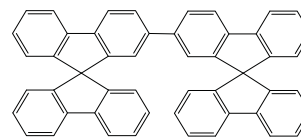


2-methyl-9,10-bis(naphthalen-2-yl)anthracene

Formula	: C ₃₅ H ₂₄
Molecular Weight	: 444.57 g/mole
CAS No.	: 804560-00-7
Thermal Gravimetric Analysis	: >300°C (0.5% weight loss)
Absorption	: 379, 399 nm (in CH ₂ Cl ₂)
Photoluminescence	: 439 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%
Reference	: SID 04 DIGEST. 710.

LT-E411

BSBF



2-(9,9-spirobifluoren-2-yl)-9,9-spirobifluorene

Formula	: C ₅₀ H ₃₀
Molecular Weight	: 630.77 g/mole
Glass Transition Temperature	: 176°C
CAS No.	: 664345-18-0
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 330 nm (in THF)
Photoluminescence	: 384 nm (in THF)
Grade	: Sublimed, > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Fluorescent Host Materials

LT-E412

TSBF

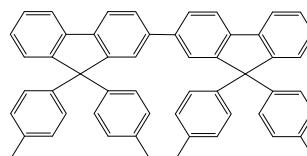


2,7-bis(9,9-spirobifluoren-2-yl)-9,9-spirobifluorene

Formula	: C ₇₅ H ₄₄
Molecular Weight	: 945.15 g/mole
Glass Transition Temperature	: 231°C
CAS No.	: 518997-91-6
Thermal Gravimetric Analysis	: >390°C (0.5% weight loss)
Absorption	: 350 nm (in THF)
Photoluminescence	: 395, 415 nm (in THF)
Grade	: Sublimed, > 99%

LT-E413

BDAF



2-[9,9-di(4-methylphenyl)-fluoren-2-yl]-9,9-di(4-methylphenyl)fluorene

Formula	: C ₅₄ H ₄₂
Molecular Weight	: 690.91 g/mole
Glass Transition Temperature	: 153°C
CAS No.	: 854046-47-2
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 333 nm (in THF)
Photoluminescence	: 368, 386 nm (in THF)
Grade	: Sublimed, > 97%

LT-N428

2,2'-Spiro-Pye

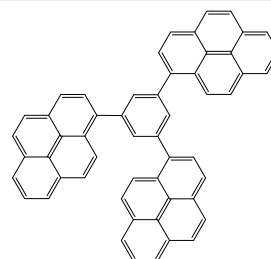


2,2'-dipyrenyl-9,9-spirobifluorene

Formula	: C ₅₇ H ₃₂
Molecular Weight	: 716.86 g/mole
Glass Transition Temperature	: 186°C
CAS No.	: 831222-16-3
Thermal Gravimetric Analysis	: >440°C (0.5% weight loss)
Absorption	: 279, 347 nm (in THF)
Photoluminescence	: 414 nm (in THF)
Grade	: Sublimed, > 98%

LT-N429

TPB3

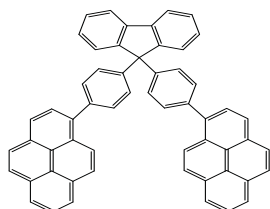


1,3,5-tri(pyren-1-yl)benzene

Formula	: C ₅₄ H ₃₀
Molecular Weight	: 678.81 g/mole
CAS No.	: 349666-25-7
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 280, 352 nm (in THF)
Photoluminescence	: 388 nm (in THF)
Grade	: Sublimed, > 98%

LT-N447

BPPF

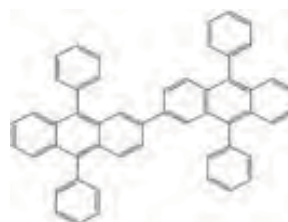


9,9-bis[4-(pyrenyl)phenyl]-9H-fluorene

Formula	: C ₅₇ H ₃₄
Molecular Weight	: 718.88 g/mole
Glass Transition Temperature	: 177°C
CAS No.	: 1174006-47-3
Thermal Gravimetric Analysis	: >430°C (0.5% weight loss)
Absorption	: 280, 344 nm (in THF)
Photoluminescence	: 385, 402 nm (in THF)
Grade	: Sublimed, > 99%
<i>Lumtec patent pending</i>	

LT-N452

TPBA



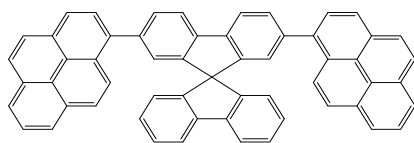
2,2'-bi(9,10-diphenyl-anthracene)

Formula	: C ₅₂ H ₃₄
Molecular Weight	: 658.83 g/mole
CAS No.	: 172285-72-2
Thermal Gravimetric Analysis	: >390°C (0.5% weight loss)
Absorption	: 294, 333 nm (in THF)
Photoluminescence	: 455 nm (in THF)
Grade	: Sublimed product
<i>Reference : Appl. Phys. Lett., 89, 063504(2006).</i>	

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N458

Spiro-Pye

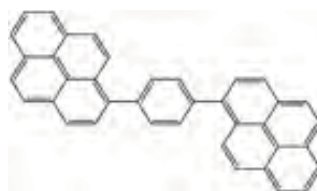


2,7-dipyrenyl-9,9-spirobifluorene

Formula	: C ₅₇ H ₃₂
Molecular Weight	: 716.86 g/mole
Glass Transition Temperature	: 189°C
CAS No.	: 886456-80-0
Thermal Gravimetric Analysis	: >440°C (0.5% weight loss)
Absorption	: 363 nm (in THF)
Photoluminescence	: 424 nm (in THF)
Grade	: Sublimed, > 99%

LT-N472

p-Bpye

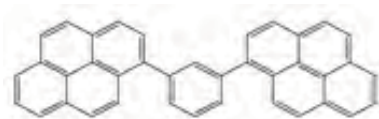


1,4-di(pyren-1-yl)benzene

Formula	: C ₃₈ H ₂₂
Molecular Weight	: 478.58 g/mole
CAS No.	: 475460-77-6
Thermal Gravimetric Analysis	: >380°C (0.5% weight loss)
Absorption	: 280, 351 nm (in CH ₂ Cl ₂)
Photoluminescence	: 431 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N473

m-Bpye

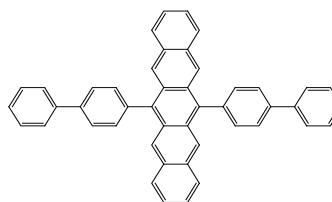


1,3-di(pyren-1-yl)benzene

Formula	: C ₃₈ H ₂₂
Molecular Weight	: 478.58 g/mole
Glass Transition Temperature	: 97°C
Thermal Gravimetric Analysis	: >330°C (0.5% weight loss)
Absorption	: 279, 350 nm (in THF)
Photoluminescence	: 384 nm (in THF)
Grade	: Sublimed, > 99%

LT-N478

DBPenta

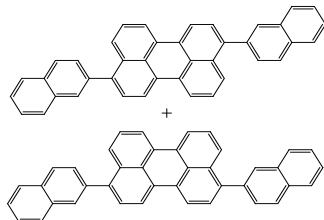


6,13-di-biphenyl-4-yl-pentacene

Formula	: C ₄₆ H ₃₀
Molecular Weight	: 582.73 g/mole
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 305 nm (in THF)
Photoluminescence	: 432, 620 nm (in THF)
Grade	: Sublimed product

LT-N479

DNP



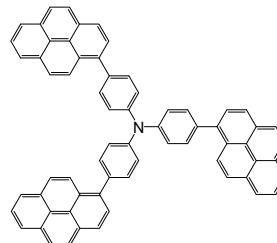
3,9-di(naphthalen-2-yl)perylene and 3,10-di(naphthalen-2-yl) perylene mixture

Formula	: C ₄₀ H ₂₄
Molecular Weight	: 504.62 g/mole
CAS No.	: 959611-30-4 and 919089-75-1
Thermal Gravimetric Analysis	: >340°C (0.5% weight loss)
Absorption	: 434, 460 nm (in THF)
Photoluminescence	: 488 nm (in THF)
Grade	: Sublimed product

Reference : *Journal of Applied Physics*, 102,104908(2007)

LT-N487

TPyPA



Tris[4-(pyrenyl)-phenyl]amine

Formula	: C ₆₆ H ₃₉ N
Molecular Weight	: 846.02 g/mole
CAS No.	: 349669-77-8
Thermal Gravimetric Analysis	: >470°C (0.5% weight loss)
Absorption	: 271 nm (in CH ₂ Cl ₂)
Photoluminescence	: 479 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

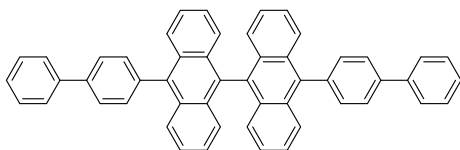
Reference : *Appl. Phys. Lett.*, 91, 023503 (2007).

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Fluorescent Host Materials

LT-N488

BANE



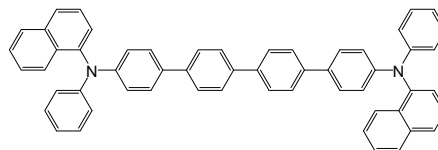
10,10'-di(biphenyl-4-yl)-9,9'-bianthracene

Formula	: C ₅₂ H ₃₄
Molecular Weight	: 658.83 g/mole
CAS No.	: 172285-79-9
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 260 nm (in CH ₂ Cl ₂)
Photoluminescence	: 449 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : *Organic Electronics* 8 (2007), 735-742.

LT-N489

4P-NPB



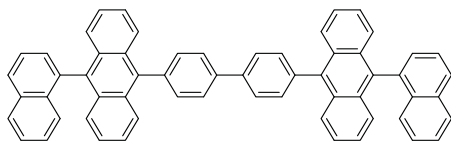
N,N'-di-(1-naphthalenyl)-N,N'-diphenyl-[1,1':4',1'':4'',1''':4''',1''''-quaterphenyl]-4,4''-diamine

Formula	: C ₅₆ H ₄₀ N ₂
Molecular Weight	: 740.93 g/mole
CAS No.	: 48552-24-7
Thermal Gravimetric Analysis	: >380°C (0.5% weight loss)
Absorption	: 351 nm (in CH ₂ Cl ₂)
Photoluminescence	: 422 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : *Adv. Mater.* 2007, 19, 3672-3676

LT-N490

BUBH-3



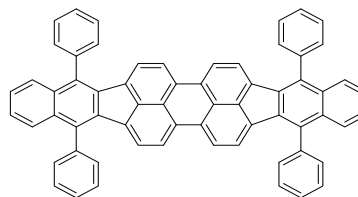
4,4'-di[10-(naphthalen-1-yl)anthracen-9-yl]biphenyl

Formula	: C ₆₀ H ₃₈
Molecular Weight	: 758.94 g/mole
CAS No.	: 1002328-32-6
Thermal Gravimetric Analysis	: >440°C (0.5% weight loss)
Absorption	: 262 nm (in CH ₂ Cl ₂)
Photoluminescence	: 420 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : *Appl. Phys. Lett.* 91, 183504 (2007)

LT-N4003

DBP



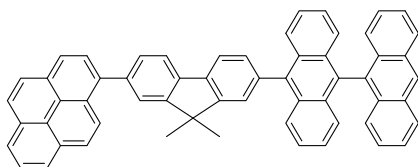
Dibenzo{[f,f']-4,4',7,7'-tetraphenyl}diindeno[1,2,3-cd:1',2',3'-lm]perylene

Formula	: C ₆₄ H ₃₆
Molecular Weight	: 804.97 g/mole
CAS No.	: 187086-37-9
Absorption	: 333 nm (in THF)
Photoluminescence	: 610 nm (in THF)
Grade	: > 99%

Reference : *Appl. Phys. Lett.*, 89, 013502 (2006)
Appl. Phys. Lett., 100, 044507 (2006)

LT-N4004

BAnFPye



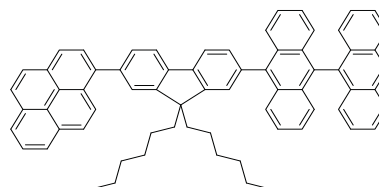
1-(7-(9,9'-bianthracen-10-yl)-9,9-dimethyl-9H-fluoren-2-yl)pyrene

Formula	: C ₅₉ H ₃₈
Molecular Weight	: 746.93 g/mole
Thermal Gravimetric Analysis	: >440°C(0.5% weight loss)
Absorption	: 356 nm (in CH ₂ Cl ₂)
Photoluminescence	: 452 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Lumtec patent pending

LT-N4005

DAnF6Pye



1-(7-(9,9'-bianthracen-10-yl)-9,9-dihexyl-9H-fluoren-2-yl)pyrene

Formula	: C ₆₉ H ₅₈
Molecular Weight	: 887.20 g/mole
Grade	: > 99%

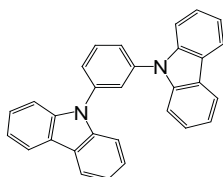
Reference : *Organic Electronics* 10 (2009) 1610-1614
Lumtec patent pending

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Phosphorescent Host Materials

LT-E107

MCP

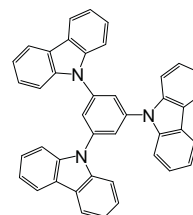


1,3-bis(carbazol-9-yl)benzene

Formula	: C ₂₀ H ₂₀ N ₂
Molecular Weight	: 408.49 g/mole
CAS No.	: 550378-78-4
Thermal Gravimetric Analysis	: >250°C (0.5% weight loss)
Absorption	: 292, 338 nm (in THF)
Photoluminescence	: 345, 360 nm (in THF)
Grade	: Sublimed, > 99%

LT-E108

TCP

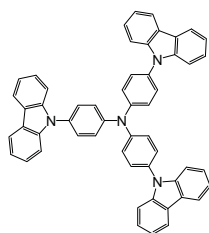


1,3,5-tris(carbazol-9-yl)benzene

Formula	: C ₄₂ H ₂₇ N ₃
Molecular Weight	: 573.68 g/mole
Glass Transition Temperature	: 125°C
CAS No.	: 148044-07-9
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 292, 337 nm (in THF)
Photoluminescence	: 343, 358 nm (in THF)
Grade	: Sublimed, > 99%

LT-E207

TcTa

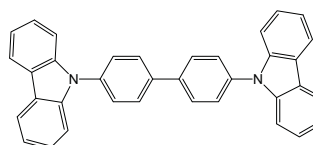


4,4',4''-tris(carbazol-9-yl)triphenylamine

Formula	: C ₂₄ H ₃₆ N ₄
Molecular Weight	: 740.89 g/mole
CAS No.	: 139092-78-7
Thermal Gravimetric Analysis	: >410°C (0.5% weight loss)
Absorption	: 293, 326 nm (in THF)
Photoluminescence	: 385 nm (in THF)
Grade	: Sublimed, > 99%

LT-E409

CBP

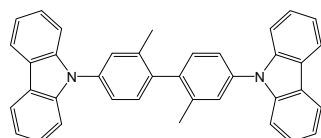


4,4'-bis(carbazol-9-yl)biphenyl

Formula	: C ₂₆ H ₂₄ N ₂
Molecular Weight	: 484.59 g/mole
CAS No.	: 58328-31-7
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 292, 318 nm (in THF)
Photoluminescence	: 369 nm (in THF)
Grade	: Sublimed, > 99%

LT-E414

CDBP

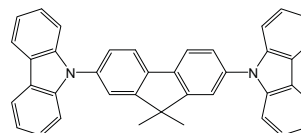


4,4'-bis(carbazol-9-yl)-2,2'-dimethylbiphenyl

Formula	: C ₃₈ H ₂₈ N ₂
Molecular Weight	: 512.64 g/mole
Glass Transition Temperature	: 111°C
CAS No.	: 120260-01-7
Thermal Gravimetric Analysis	: >280°C (0.5% weight loss)
Absorption	: 292, 340 nm (in THF)
Photoluminescence	: 349, 364 nm (in THF)
Grade	: Sublimed, > 99%

LT-N415

DMFL-CBP



2,7-bis(carbazol-9-yl)-9,9-dimethylfluorene

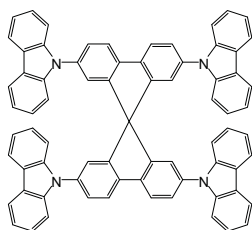
Formula	: C ₃₆ H ₂₆ N ₂
Molecular Weight	: 524.65 g/mole
Glass Transition Temperature	: 131°C
CAS No.	: 226958-06-1
Thermal Gravimetric Analysis	: >330°C (0.5% weight loss)
Absorption	: 293, 341 nm (in THF)
Photoluminescence	: 363 nm (in THF)
Grade	: Sublimed, > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Phosphorescent Host Materials

LT-N416

Spiro-CBP

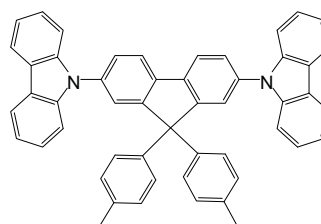


2,2',7,7'-tetrakis(carbazol-9-yl)-9,9-spirobifluorene

Formula	: C ₇₃ H ₄₄ N ₄
Molecular Weight	: 977.16 g/mole
CAS No.	: 214078-86-1
Thermal Gravimetric Analysis	: >480°C (0.5% weight loss)
Absorption	: 292, 342 nm (in THF)
Photoluminescence	: 370 nm (in THF)
Grade	: Sublimed, > 99%

LT-N418

DPFL-CBP

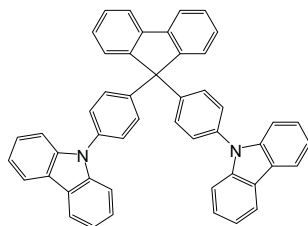


2,7-bis(carbazol-9-yl)-9,9-ditolylfluorene

Formula	: C ₅₁ H ₃₆ N ₂
Molecular Weight	: 676.84 g/mole
CAS No.	: 1174006-50-8
Thermal Gravimetric Analysis	: >330°C (0.5% weight loss)
Absorption	: 293, 344 nm (in THF)
Photoluminescence	: 367 nm (in THF)
Grade	: Sublimed, > 99%

LT-N419

FL-2CBP

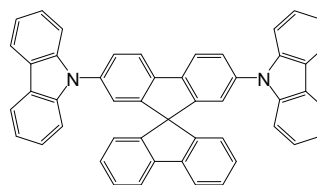


9,9-bis[4-(carbazol-9-yl)-phenyl]fluorene

Formula	: C ₄₅ H ₃₂ N ₂
Molecular Weight	: 648.79 g/mole
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 292, 340 nm (in THF)
Photoluminescence	: 349, 364 nm (in THF)
Grade	: Sublimed, > 99%

LT-N420

Spiro-2CBP

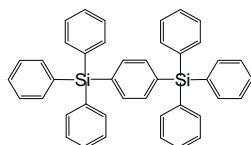


2,7-bis(carbazol-9-yl)-9,9-spirobifluorene

Formula	: C ₄₅ H ₃₀ N ₂
Molecular Weight	: 648.78 g/mole
Glass Transition Temperature	: 174°C
CAS No.	: 924899-38-7
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 293, 343 nm (in THF)
Photoluminescence	: 367 nm (in THF)
Grade	: Sublimed, > 99%

LT-N448

UGH-2



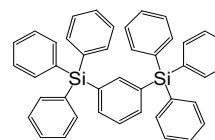
1,4-bis(triphenylsilyl)benzene

Formula	: C ₄₂ H ₃₄ Si ₂
Molecular Weight	: 594.89 g/mole
CAS No.	: 40491-34-7
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 265 nm (in CH ₂ Cl ₂)
Photoluminescence	: 296 nm (in CH ₂ Cl ₂)
Grade	: Sublimed product

Reference: 1.Chem. Mate., 2004, 16, 4743-4747
2.Appl. Phys. Lett. 86, 263502 (2005)

LT-N449

UGH-3



1,3-bis(triphenylsilyl)benzene

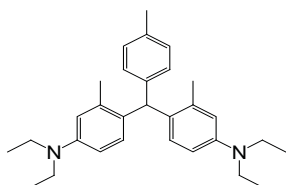
Formula	: C ₄₂ H ₃₄ Si ₂
Molecular Weight	: 594.89 g/mole
CAS No.	: 18920-16-6
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 265 nm (in THF)
Photoluminescence	: 301, 418 nm (in THF)
Grade	: Sublimed, > 99%

Reference: Chem. Mater. 2004, 16, 4743-4747

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N450

MPMP

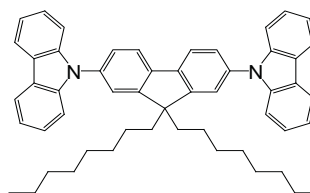

Bis(4-N,N-diethylamino-2-methylphenyl)-4-methylphenylmethane

Formula	: C ₃₀ H ₄₀ N ₂
Molecular Weight	: 428.65 g/mole
CAS No.	: 70895-80-6
Thermal Gravimetric Analysis	: >190°C (0.5% weight loss)
Absorption	: 272, 309 nm (in THF)
Photoluminescence	: 349 nm (in THF)
Grade	: > 99%

Reference : 1. *Appl. Phys. Lett.* Vol. 85, No. 21, 22 November 2004
2. *Appl. Phys. Lett.* 87, 193501 (2005)

LT-N451

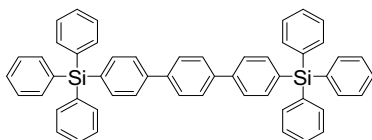
DOFL-CBP


2,7-bis(carbazol-9-yl)-9,9-dioctylfluorene

Formula	: C ₅₃ H ₅₆ N ₂
Molecular Weight	: 721.03 g/mole
CAS No.	: 848900-30-1
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 292, 340 nm (in THF)
Photoluminescence	: 362 nm (in THF)
Grade	: > 99%

LT-N482

BST

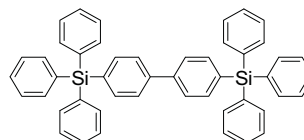

4,4'-di(triphenylsilyl)-p-terphenyl

Formula	: C ₆₄ H ₄₂ Si ₂
Molecular Weight	: 747.08 g/mole
Glass Transition Temperature	: 113°C
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 296 nm (in CH ₂ Cl ₂)
Photoluminescence	: 358 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : *Adv. Funct. Mater.* 2008, 18, 485

LT-N483

BSB

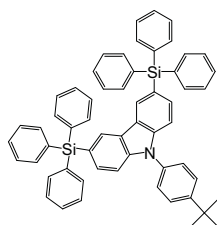

4,4'-di(triphenylsilyl)-biphenyl

Formula	: C ₄₈ H ₃₈ Si ₂
Molecular Weight	: 670.99 g/mole
Glass Transition Temperature	: 100°C
CAS No.	: 18826-13-6
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 271 nm (in CH ₂ Cl ₂)
Photoluminescence	: 432 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : *Adv. Funct. Mater.* 2008, 18, 485

LT-N484

CzSi

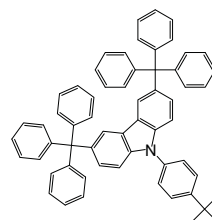

9-(4-tert-butylphenyl)-3,6-bis(triphenylsilyl)-9H-carbazole

Formula	: C ₃₈ H ₄₉ NSi ₂
Molecular Weight	: 816.19 g/mole
CAS No.	: 898546-82-2
Glass Transition Temperature	: 131°C
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 275, 301 nm (in CH ₂ Cl ₂)
Photoluminescence	: 354 nm (in CH ₂ Cl ₂)
Grade	: > 99%

Reference : *Adv. Mater.* 2006, 18, 1216

LT-N485

CzC


9-(4-tert-butylphenyl)-3,6-ditryl-9H-carbazole

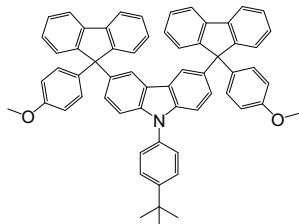
Formula	: C ₅₀ H ₄₉ N
Molecular Weight	: 784.04 g/mole
Glass Transition Temperature	: 167°C
CAS No.	: 956373-04-9
Thermal Gravimetric Analysis	: >330°C (0.5% weight loss)
Absorption	: 277, 305 nm (in CH ₂ Cl ₂)
Photoluminescence	: 369 nm (in CH ₂ Cl ₂)
Grade	: > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Phosphorescent Host Materials

LT-N486

DFC

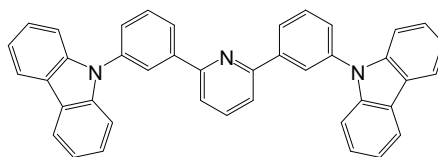


9-(4-*tert*-butylphenyl)-3,6-bis(9-(4-methoxyphenyl)-9H-fluoren-9-yl)-9H-carbazole

Formula	: C ₆₂ H ₄₉ NO ₂
Molecular Weight	: 840.06 g/mole
CAS No.	: 871018-07-4
Glass Transition Temperature	: 180°C
Thermal Gravimetric Analysis	: >400°C (0.5% weight loss)
Absorption	: 341, 355 nm (in CH ₂ Cl ₂)
Photoluminescence	: 366 nm (in CH ₂ Cl ₂)
Grade	: > 99%

LT-N491

26DCzPPy

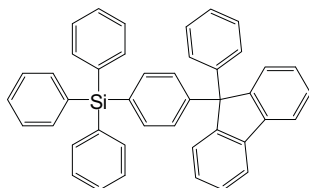


2,6-bis(3-(9H-carbazol-9-yl)phenyl)pyridine

Formula	: C ₄₁ H ₂₇ N ₃
Molecular Weight	: 561.67 g/mole
CAS No.	: 1013405-24-7
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 239, 292 nm (in CH ₂ Cl ₂)
Photoluminescence	: 410 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%
Reference	: Chem. Mater. 2008, 20, 1691-1693

LT-N492

TPSiF

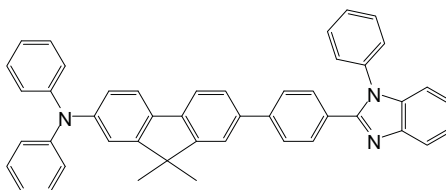


Triphenyl(4-(9-phenyl-9H-fluoren-9-yl)phenyl)silane

Formula	: C ₄₃ H ₃₂ Si
Molecular Weight	: 576.80 g/mole
CAS No.	: 937082-80-9
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Grade	: Sublimed, > 99%
Reference	: J. Mater. Chem., 2007, 17, 1692-1698

LT-N493

EFIN

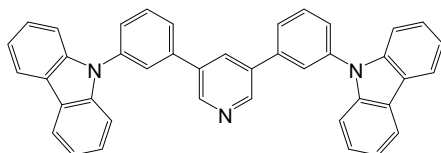


9,9-dimethyl-N,N-diphenyl-7-(4-(1-phenyl-1H-benzo[d]imidazol-2-yl)phenyl)-9H-fluoren-2-amine

Formula	: C ₄₈ H ₃₉ N ₃
Molecular Weight	: 657.84 g/mole
CAS No.	: 1010821-26-7
Thermal Gravimetric Analysis	: 104°C (0.5% weight loss)
Absorption	: 370 nm (in CH ₂ Cl ₂)
Photoluminescence	: 428 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N494

35DCzPPy

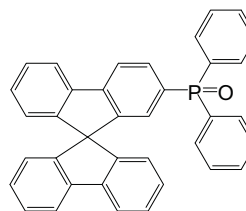


3,5-bis(3-(9H-carbazol-9-yl)phenyl)pyridine

Formula	: C ₄₁ H ₂₇ N ₃
Molecular Weight	: 561.67 g/mole
CAS No.	: 1013405-25-8
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 307, 317 nm (in CH ₂ Cl ₂)
Photoluminescence	: 347 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%
Reference	: Chem. Mater. 2008, 20, 1691-1693

LT-N496

SPPO1



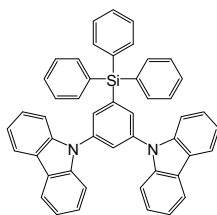
9,9-spirobifluoren-2-yl-diphenyl-phosphine oxide

Formula	: C ₃₇ H ₂₅ OP
Molecular Weight	: 516.57 g/mole
CAS No.	: 1125547-88-7
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 307, 317 nm (in THF)
Photoluminescence	: 346 nm (in THF)
Grade	: Sublimed, > 99%
Reference	: Appl. Phys. Lett. 94, 013301 2009

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N497

SimCP



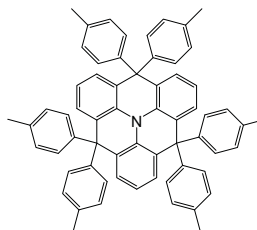
9,9'-(5-(triphenylsilyl)-1,3-phenylene)bis(9H-carbazole)

Formula	: C ₄₈ H ₃₄ N ₂ Si
Molecular Weight	: 666.88 g/mole
CAS No.	: 850221-63-5
Absorption	: 293, 312, 345 nm (in THF)
Photoluminescence	: 446 nm (in THF)
Grade	: Sublimed, > 99%

Reference : Adv. Mater., 17, 285, 2005

LT-N499

FATPA



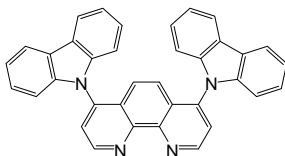
4,4,8,8,-12,12-hexa-p-tolyl-4H-8H-12H-12C-Aza-dibenzo[cd,mn]pyrene

Formula	: C ₆₃ H ₅₁ N
Molecular Weight	: 822.09 g/mole
CAS No.	: 1131007-94-7
Absorption	: 311 nm (in toluene)
Photoluminescence	: 375 nm (in toluene)
Grade	: Sublimed, > 99%

Reference : Org. Lett., Vol. 11, No. 7, 2009, 1503-1506

LT-N4001

BUPH1



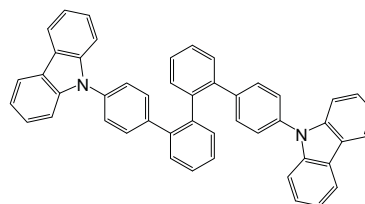
4,7-di(9H-carbazol-9-yl)-1,10-phenanthroline

Formula	: C ₃₆ H ₂₂ N ₄
Molecular Weight	: 510.59 g/mole
CAS No.	: 676542-82-8
Absorption	: 280,335,364 nm (in THF)
Photoluminescence	: 425 nm (in THF)
Grade	: Sublimed product

Reference : Adv. Mater. 2009, 21, 688-692

LT-N4002

BCBP



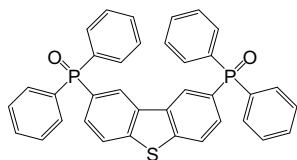
2,2'-bis(4-(carbazol-9-yl)phenyl)-biphenyl

Formula	: C ₄₈ H ₃₂ N ₂
Molecular Weight	: 636.78 g/mole
CAS No.	: 58131-70-1
Thermal Gravimetric Analysis	: >280°C (0.5% weight loss)
Grade	: Sublimed, > 99%

Reference : Adv. Mater. 2009, 21, 1271-1274

LT-N4006

PPT

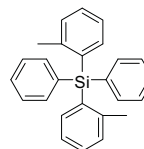


2,8-bis(diphenylphosphoryl)dibenzo[b,d]thiophene

Formula	: C ₃₆ H ₂₆ O ₂ P ₂ S
Molecular Weight	: 584.60 g/mole
CAS No.	: 1019842-99-9
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 315, 328 nm (in CH ₂ Cl ₂)
Photoluminescence	: 339, 351 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N4008

UGH-1



Bis(2-methylphenyl)diphenylsilane

Formula	: C ₂₆ H ₃₂ Si
Molecular Weight	: 364.55 g/mole
CAS No.	: 18849-24-6
Absorption	: 265 nm (in CH ₂ Cl ₂)
Photoluminescence	: 298 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

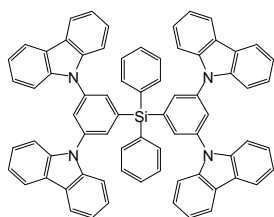
Reference : Chem. Mate., 2004, 16, 4743-4747

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Phosphorescent Host Materials

LT-N4009

SiMCP2



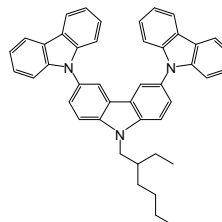
Bis[3,5-di(9H-carbazol-9-yl)phenyl]diphenylsilane

Formula	: C ₇₂ H ₄₈ N ₄ Si
Molecular Weight	: 997.26 g/mole
CAS No.	: 944465-42-3
Thermal Gravimetric Analysis	: >380°C (0.5% weight loss)
Absorption	: 324, 338 nm (in CH ₂ Cl ₂)
Photoluminescence	: 362 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : J. Mater. Chem. 2010, 20, 8411-8416

LT-N4010

TCz1



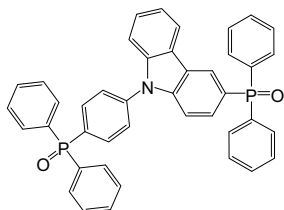
3,6-bis(carbazol-9-yl)-9-(2-ethyl-hexyl)-9H-carbazole

Formula	: C ₄₄ H ₃₉ N ₃
Molecular Weight	: 609.8 g/mole
CAS No.	: 1021423-90-4
Grade	: Sublimed, > 99%

Reference : Applide physics letters, 96, 093304, 2010

LT-N4011

PPO21



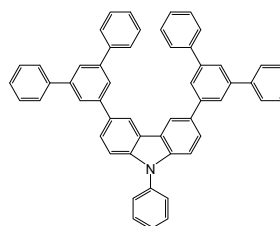
3-(diphenylphosphoryl)-9-(4-(diphenylphosphoryl)phenyl)-9H-carbazole

Formula	: C ₄₂ H ₃₁ NO ₂ P ₂
Molecular Weight	: 643.65 g/mole
CAS No.	: 1226860-68-9
Absorption	: 294, 338 nm (in CH ₂ Cl ₂)
Photoluminescence	: 361 nm (in THF)
Glass Transition Temperature	: 111°C
Grade	: Sublimed, > 99%

Reference : Adv. Mater. 2010, 22, 1-5

LT-N4012

CzTP



3,6-bis[(3,5-diphenyl)phenyl]-9-phenyl-carbazole

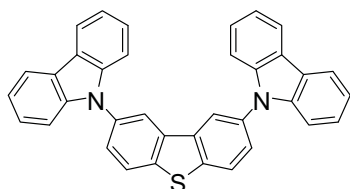
Formula	: C ₅₄ H ₃₇ N
Molecular Weight	: 699.88 g/mole
CAS No.	: 1201649-79-7
Glass Transition Temperature	: 135°C
Grade	: Sublimed, > 99%

Reference : Chem. Commun, 2009, 6655-6657

LT-N4013

DCzDBT

New



2,8-di(9H-carbazol-9-yl)dibenzo[b,d]thiophene

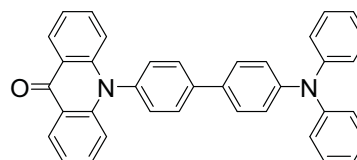
Formula	: C ₃₆ H ₂₂ N ₂ S
Molecular Weight	: 514.64 g/mole
Absorption	: 325 nm (in CH ₂ Cl ₂)
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Grade	: > 99%

Reference : Adv. Mater. 2010, 22, 1-5

LT-N4014

ADBP

New



10-(4'-(diphenylamino)biphenyl-4-yl)acridin-9(10H)-one

Formula	: C ₃₇ H ₂₆ N ₂ O
Molecular Weight	: 514.62 g/mole
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 375, 394 nm (in CH ₂ Cl ₂)
Photoluminescence	: 408 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99.0%

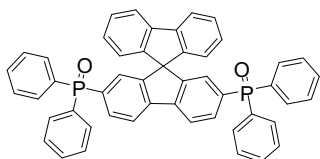
Reference : Org. Lett., Vol. 11, No. 19, 2009

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N4015

SPPO13

New



2,7-bis(diphenylphosphoryl)-9,9'-spirobi[fluorene]

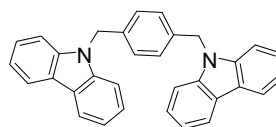
Formula	:	$C_{49}H_{34}O_2P_2$
Molecular Weight	:	716.74 g/mole
Thermal Gravimetric Analysis	:	>330°C (0.5% weight loss)
Absorption	:	282 nm (in CH_2Cl_2)
Photoluminescence	:	373 nm (in CH_2Cl_2)
Grade	:	> 99%

Reference : S.E. Jang et al. / Thin Solid Films 519 (2010) 906–910

LT-N4016

DCB

New



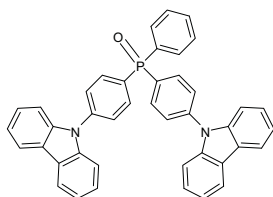
1,4-bis((9H-carbazol-9-yl)methyl)benzene

Formula	:	$C_{32}H_{24}N_2$
Molecular Weight	:	436.55 g/mole
Absorption	:	293 nm (in CH_2Cl_2)
Photoluminescence	:	351,366 nm (in CH_2Cl_2)
Grade	:	> 99%

LT-N4017

BCPO

New



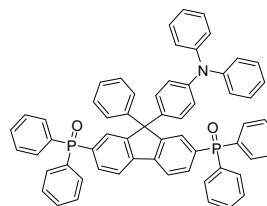
Bis-4-(N-carbazolyl)phenyl)phenylphosphine oxide

Formula	:	$C_{61}H_{45}NO_2P_2$
Molecular Weight	:	608.67 g/mole
Absorption	:	292 nm (in CH_2Cl_2)
Photoluminescence	:	391 nm (in CH_2Cl_2)
Grade	:	> 99%

LT-N4018

POAPF

New



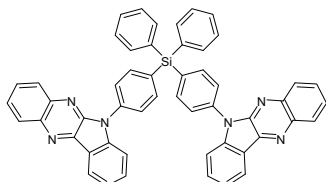
2,7-Bis(diphenylphosphoryl)-9-(4-diphenylamino)phenyl-9'-phenyl-fluorene

Formula	:	$C_{61}H_{45}NO_2P_2$
Molecular Weight	:	885.96 g/mole

LT-N4019

2INQ

New



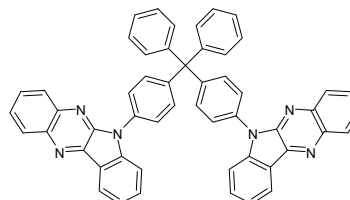
Di(4-(6H-indolo[3,2-b]quinoxalin-6-yl)phenyl)diphenylsilane

Formula	:	$C_{52}H_{34}N_6Si$
Molecular Weight	:	770.95 g/mole

LT-N4020

FINQ

New



Di(4-(6H-indolo[3,2-b]quinoxalin-6-yl)phenyl)diphenylmethane

Formula	:	$C_{53}H_{34}N_6$
Molecular Weight	:	754.88 g/mole

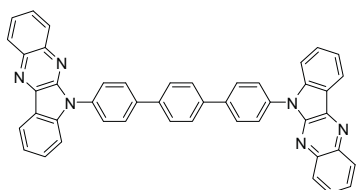
Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Phosphorescent Host Materials

LT-N4021

TPINQ

New



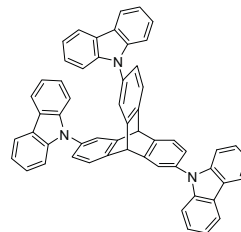
Bis[3,5-di(9H-carbazol-9-yl)phenyl]diphenylsilane

Formula : $C_{46}H_{28}N_6$
Molecular Weight : 664.75 g/mole

LT-N4022

TCTP

New



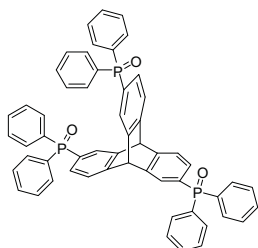
2,6,14-Tris(carbazol-9-yl)tritycene

Formula : $C_{55}H_{35}N_3$
Molecular Weight : 749.90 g/mole
Absorption : 329,343 nm (in CH_2Cl_2)
Photoluminescence : 352,364 nm (in CH_2Cl_2)
Reference : *J. Mater. Chem.*, 2010, 20, 798–805

LT-N4023

TPOTP

New



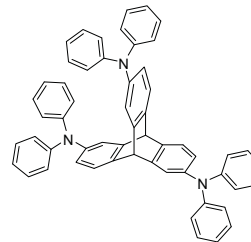
2,6,14-Tris(diphenylphosphine-oxide)tritycene

Formula : $C_{56}H_{41}O_3P_3$
Molecular Weight : 854.84 g/mole
Absorption : 273,285 nm (in CH_2Cl_2)
Photoluminescence : 302 nm (in CH_2Cl_2)
Reference : *J. Mater. Chem.*, 2010, 20, 798–805

LT-N4024

TATP

New



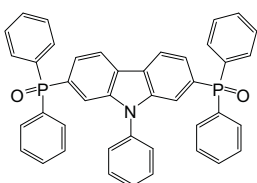
2,6,14-Tris(diphenyl-amino)tritycene

Formula : $C_{56}H_{41}N_3$
Molecular Weight : 755.94 g/mole
Absorption : 310 nm (in CH_2Cl_2)
Photoluminescence : 368 nm (in CH_2Cl_2)
Reference : *J. Mater. Chem.*, 2010, 20, 798–805

LT-N4025

TFTPA

New



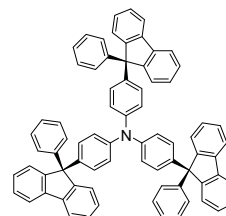
2,7-bis(diphenylphosphoryl)-9-phenyl-9H-carbazole

Formula : $C_{42}H_{31}NO_2P_2$
Molecular Weight : 643.65g/mole
Thermal Gravimetric Analysis : $>350^\circ C$ (0.5% weight loss)
Reference : *J. Mater. Chem.*, 2011, 21, 5638–5644

LT-N4026

TFTPA

New



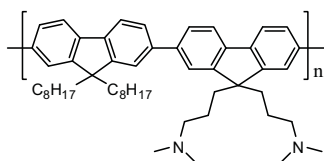
Tris[4-(9-phenylfluoren-9-yl)phenyl]amine

Formula : $C_{75}H_{51}N$
Molecular Weight : 966.21 g/mole
Glass Transition Temperature : $186^\circ C$
Thermal Gravimetric Analysis : $>450^\circ C$ (0.5% weight loss)

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N4027 PFN-DOF

New

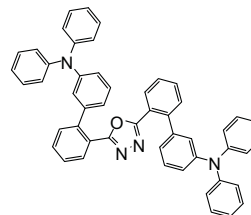


Poly[(9,9-bis(3'-(N,N-dimethylamino)propyl)-2,7-fluorene)-alt-2,7-(9,9-dioctylfluorene)]

Formula : (C₅₂H₇₀N₂)_n
Molecular Weight : >7000
Reference : Chem. Mater., Vol. 16, No. 4, 2004

LT-N4028 m-TPA-o-OXD

New

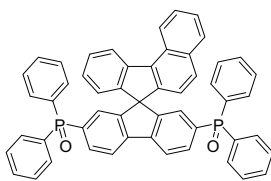


2',2''-(1,3,4-oxadiazole-2,5-diyl)bis(N,N-diphenylbiphenyl-3-amine)

Formula : C₅₀H₃₆N₄O
Molecular Weight : 708.85 g/mole
Reference : Adv. Funct. Mater. 2010, 20, 2923–2929

LT-N4029 SPP021

New



2,7-Bis(diphenylphosphoryl)spiro[fluorene-7,11'-benzofluorene]

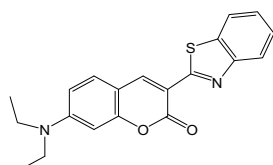
Formula : C₅₃H₃₆O₂P₂
Molecular Weight : 766.8 g/mole
Glass Transition Temperature : 135°C

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Green Dopant Materials

LT-E501

Coumarin 6

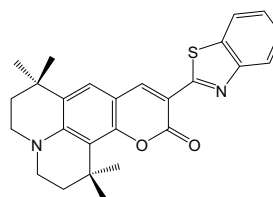


3-(2-benzothiazolyl)-7-(diethylamino)coumarin

Formula	: C ₂₀ H ₁₈ N ₂ O ₂ S
Molecular Weight	: 350.43 g/mole
CAS No.	: 38215-36-0
Thermal Gravimetric Analysis	: >260°C (0.5% weight loss)
Absorption	: 443 nm (in THF)
Photoluminescence	: 430,493 nm (in THF)
Grade	: Sublimed, > 99%

LT-E502

C545T

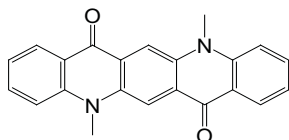


2,3,6,7-tetrahydro-1,1,7,7-tetramethyl-1H, 5H,11H-10-(2-benzothiazolyl)quinolino[9,9a,1gh]coumarin

Formula	: C ₂₆ H ₂₆ N ₂ O ₂ S
Molecular Weight	: 430.56 g/mole
CAS No.	: 155306-71-1
Thermal Gravimetric Analysis	: >240°C (0.5% weight loss)
Absorption	: 473 nm (in THF)
Photoluminescence	: 506 nm (in THF)
Grade	: Sublimed, > 99%

LT-E503

DMQA

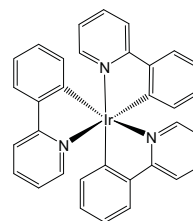


N,N'-dimethyl-quinacridone

Formula	: C ₂₂ H ₁₆ N ₂ O ₂
Molecular Weight	: 340.37 g/mole
CAS No.	: 19205-19-7
Thermal Gravimetric Analysis	: >300°C (0.5% weight loss)
Absorption	: 294, 510 nm (in THF)
Photoluminescence	: 523 nm (in THF)
Grade	: Sublimed, > 99%

LT-E504

Ir(ppy)₃

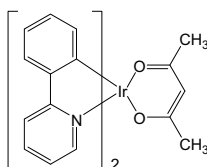


Tris(2-phenylpyridine)iridium(III)

Formula	: C ₃₃ H ₂₄ IrN ₃
Molecular Weight	: 654.78 g/mole
CAS No.	: 94928-86-6
Thermal Gravimetric Analysis	: >300°C (0.5% weight loss)
Absorption	: 282, 377 nm (in THF)
Photoluminescence	: 513 nm (in THF)
Grade	: Sublimed, > 99%

LT-E505

Ir(ppy)₂(acac)

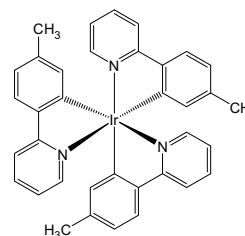


Bis(2-phenylpyridine)(acetylacetonate)iridium(III)

Formula	: C ₂₇ H ₂₃ IrN ₂ O ₂
Molecular Weight	: 599.70 g/mole
CAS No.	: 337526-85-9
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 259 nm (in THF)
Photoluminescence	: 378, 524 nm (in THF)
Grade	: Sublimed, > 99%

LT-N506

Ir(mppy)₃



Tris[2-(p-tolyl)pyridine]iridium(III)

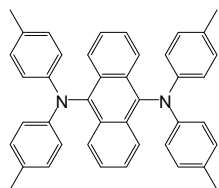
Formula	: C ₃₆ H ₃₀ IrN ₃
Molecular Weight	: 696.86 g/mole
CAS No.	: 149005-33-4
Thermal Gravimetric Analysis	: >330°C (0.5% weight loss)
Absorption	: 287, 373 nm (in CH ₂ Cl ₂)
Photoluminescence	: 514 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : Appl. Phys. Lett., Vol. 84, No. 14, 5 April 2004, 2476-2478.

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N507

TTPA



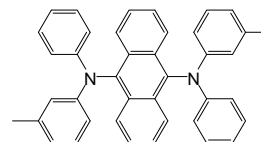
9,10-bis[N,N-di-(p-tolyl)-amino]anthracene

Formula	: C ₂₂ H ₃₆ N ₂
Molecular Weight	: 568.75 g/mole
CAS No.	: 177799-16-5
Thermal Gravimetric Analysis	: >280°C (0.5% weight loss)
Absorption	: 294, 471 nm (in CH ₂ Cl ₂)
Photoluminescence	: 554 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : Chem. Mater., 2002, 14, 3958~3963.

LT-N508

TPA



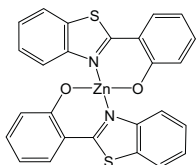
9,10-bis[phenyl(m-tolyl)-amino]anthracene

Formula	: C ₄₀ H ₃₂ N ₂
Molecular Weight	: 540.70 g/mole
CAS No.	: 190974-21-1
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 292, 458 nm (in CH ₂ Cl ₂)
Photoluminescence	: 532 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : Chem. Mater., 2002, 14, 3958~3963.

LT-N509

Zn(BTZ)₂



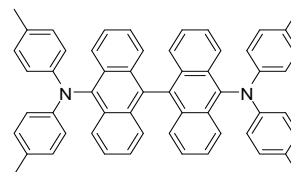
Bis[2-(2-hydroxyphenyl)benzothiazolato]zinc(II)

Formula	: C ₂₈ H ₁₈ N ₂ O ₂ S ₂ Zn
Molecular Weight	: 517.96 g/mole
CAS No.	: 58280-31-2
Thermal Gravimetric Analysis	: >300°C (0.5% weight loss)
Absorption	: 287, 334 nm (in CH ₂ Cl ₂)
Photoluminescence	: 458 nm (in CH ₂ Cl ₂)
Grade	: Sublimed product

Reference : Current Applied Physics. 2 (2002), 295~298.

LT-N510

BA-TTB

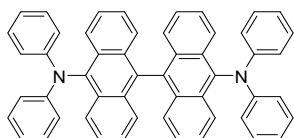


N¹⁰,N^{10'},N^{10''},N^{10'''}-tetra-tolyl-9,9'-bianthracene-10,10'-diamine

Formula	: C ₅₆ H ₄₄ N ₂
Molecular Weight	: 744.96 g/mole
CAS No.	: 223735-62-4
Thermal Gravimetric Analysis	: >350°C (0.5% weight loss)
Absorption	: 257 nm (in CH ₂ Cl ₂)
Photoluminescence	: 546 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N511

BA-TAD

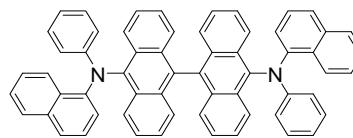


N¹⁰,N^{10'},N^{10''},N^{10'''}-tetraphenyl-9,9'-bianthracene-10,10'-diamine

Formula	: C ₅₂ H ₃₆ N ₂
Molecular Weight	: 688.86 g/mole
CAS No.	: 220721-68-6
Absorption	: 257 nm (in CH ₂ Cl ₂)
Photoluminescence	: 518 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N512

BA-NPB



N¹⁰,N^{10'}-diphenyl-N^{10''},N^{10'''}-dinaphthalenyl-9,9'-bianthracene-10,10'-diamine

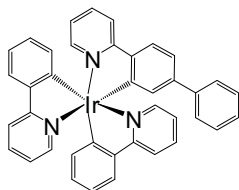
Formula	: C ₆₀ H ₄₀ N ₂
Molecular Weight	: 788.97 g/mole
CAS No.	: 885502-26-1
Thermal Gravimetric Analysis	: >340°C (0.5% weight loss)
Absorption	: 357, 441 nm (in CH ₂ Cl ₂)
Photoluminescence	: 517 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 95%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Green Dopant Materials

LT-N513 Ir(ppy)₂(m-bppy) \

New



Bis(2-phenylpyridinato)[2-(biphenyl-4-yl)pyridinato]Iridium(III)

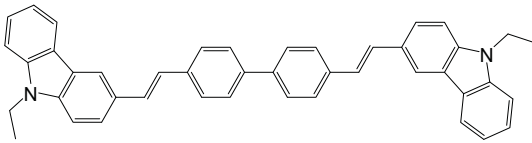
Formula	:	(C ₃₉ H ₂₆ IrN ₃)
Molecular Weight	:	730.88 g/mole

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Blue Dopant Materials

LT-E601

BCzVBi

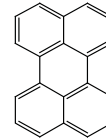


4,4'-bis(9-ethyl-3-carbazovinylylene)-1,1'-biphenyl

Formula	: C ₄₄ H ₃₆ N ₂
Molecular Weight	: 592.77 g/mole
CAS No.	: 475480-90-1
Thermal Gravimetric Analysis	: >390°C (0.5% weight loss)
Absorption	: 384 nm (in THF)
Photoluminescence	: 438, 459 nm (in THF)
Grade	: > 99%

LT-E602

Perylene

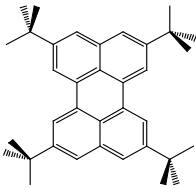


Perylene

Formula	: C ₂₀ H ₁₂
Molecular Weight	: 252.31 g/mole
CAS No.	: 198-55-0
Thermal Gravimetric Analysis	: >200°C (0.5% weight loss)
Absorption	: 410, 436 nm (in THF)
Photoluminescence	: 447, 471 nm (in THF)
Grade	: Sublimed, > 99%

LT-E603

TBPe

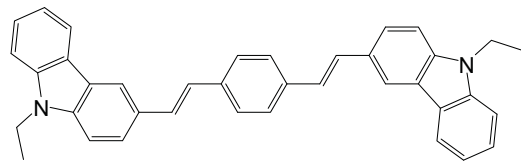


2,5,8,11-tetra-tert-butylperylene

Formula	: C ₃₆ H ₄₄
Molecular Weight	: 476.73 g/mole
CAS No.	: 677275-33-1
Thermal Gravimetric Analysis	: >220°C (0.5% weight loss)
Absorption	: 412, 438 nm (in THF)
Photoluminescence	: 459, 487 nm (in THF)
Grade	: Sublimed, > 99%

LT-E604

BCzVB

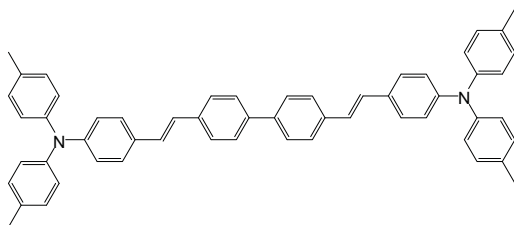


1,4-bis[2-(3-N-ethylcarbazoyl)vinyl]benzene

Formula	: C ₃₈ H ₃₂ N ₂
Molecular Weight	: 516.67 g/mole
CAS No.	: 62608-15-5
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 391 nm (in THF)
Photoluminescence	: 438, 459 nm (in THF)
Grade	: > 99%

LT-E605

DPAVBi

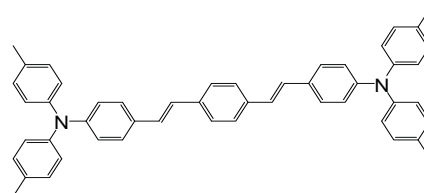


4,4'-bis[4-(di-p-tolylamino)styryl]biphenyl

Formula	: C ₅₆ H ₄₈ N ₂
Molecular Weight	: 748.99 g/mole
CAS No.	: 119586-44-6
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 405 nm (in THF)
Photoluminescence	: 475 nm (in THF)
Grade	: > 99%

LT-E606

DPAVB



4-(di-p-tolylamino)-4'-[(di-p-tolylamino)styryl]stilbene

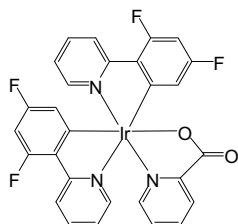
Formula	: C ₅₀ H ₄₄ N ₂
Molecular Weight	: 672.90 g/mole
Glass Transition Temperature	: 96°C
CAS No.	: 596103-58-1
Thermal Gravimetric Analysis	: >340°C (0.5% weight loss)
Absorption	: 414 nm (in THF)
Photoluminescence	: 476 nm (in THF)
Grade	: > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Blue Dopant Materials

LT-E607

FlrPic

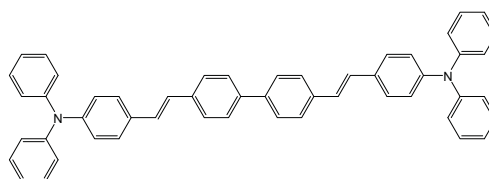


Bis(3,5-difluoro-2-(2-pyridyl)phenyl)-(2-carboxypyridyl)iridium(III)

Formula	: C ₂₈ H ₁₆ N ₃ O ₂ F ₄ Ir
Molecular Weight	: 694.66 g/mole
CAS No.	: 376367-93-0
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 258 nm (in THF)
Photoluminescence	: 472 nm (in THF)
Grade	: > 99%

LT-E608

BDAVBi

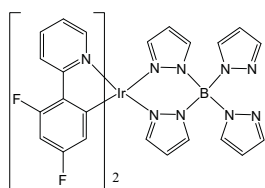


4,4'-bis[4-(diphenylamino)styryl]biphenyl

Formula	: C ₅₂ H ₄₀ N ₂
Molecular Weight	: 692.89 g/mole
CAS No.	: 523977-57-3
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 399 nm (in THF)
Photoluminescence	: 466 nm (in THF)
Grade	: > 99%

LT-N620

Flr6



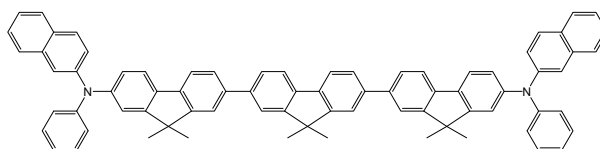
Bis(2,4-difluorophenylpyridinato)tetrakis(1-pyrazolyl)borate iridium(III)

Formula	: C ₃₅ H ₂₇ N ₁₀ BF ₄ Ir
Molecular Weight	: 866.68 g/mole
CAS No.	: 664374-03-2
Thermal Gravimetric Analysis	: >280°C (0.5% weight loss)
Absorption	: 367 nm (in THF)
Photoluminescence	: 461, 490 nm (in THF)
Grade	: > 99%

Reference : Applied Physics Letters, Vol 83, No.18, 3818-3820.

LT-N623

BNP3FL



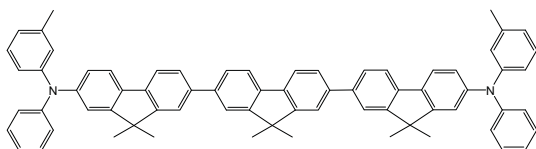
N,N'-bis(naphthalen-2-yl)-N,N'-bis(phenyl)-tris(9,9-dimethylfluorenylene)

Formula	: C ₇₇ H ₆₀ N ₂
Molecular Weight	: 1013.31 g/mole
Glass Transition Temperature	: 161°C
CAS No.	: 669016-17-5
Thermal Gravimetric Analysis	: >450°C (0.5% weight loss)
Absorption	: 387 nm (in THF)
Photoluminescence	: 437 nm (in THF)
Grade	: > 99%

Reference : SID 04 DIGEST. 150

LT-N624

MDP3FL



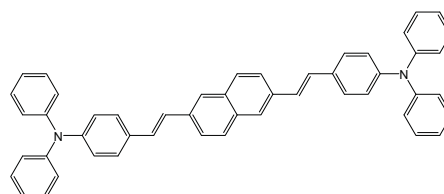
2,7-bis{2-[phenyl(m-tolyl)amino]-9,9-dimethylfluorene-7-yl}-9,9-dimethylfluorene

Formula	: C ₇₁ H ₆₀ N ₂
Molecular Weight	: 941.25 g/mole
CAS No.	: 239476-24-5
Thermal Gravimetric Analysis	: >430°C (0.5% weight loss)
Absorption	: 385 nm (in CH ₂ Cl ₂)
Photoluminescence	: 460 nm (in CH ₂ Cl ₂)
Grade	: > 99%

Reference : SID 04 DIGEST. 150

LT-N627

N-BDAVBi



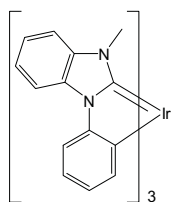
N-(4-((E)-2-(6-((E)-4-(diphenylamino)styryl)naphthalen-2-yl)vinyl)phenyl)-N-phenylbenzenamine

Formula	: C ₅₀ H ₃₈ N ₂
Molecular Weight	: 666.85 g/mole
CAS No.	: 1032556-63-0
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 407 nm (in THF)
Photoluminescence	: 469 nm (in THF)
Grade	: > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N629

fac-Ir(Pmb)₃



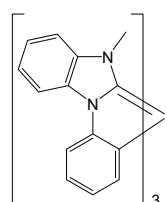
fac-iridium(III) tris(1-phenyl-3-methylbenzimidazolin-2-ylidene- C,C²)

Formula	: C ₄₂ H ₃₃ N ₆ Ir
Molecular Weight	: 813.96 g/mole
CAS No.	: 926292-95-7
Thermal Gravimetric Analysis	: >330°C (0.5% weight loss)
Absorption	: 299 nm (in THF)
Photoluminescence	: 389, 405 nm (in THF)
Grade	: > 99%

Reference : Applied Physics Letters. 87, 243507, 2005.

LT-N630

mer-Ir(Pmb)₃



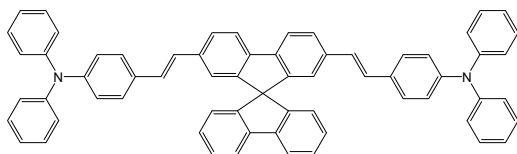
mer-iridium(III) tris(1-phenyl-3-methylbenzimidazolin-2-ylidene- C,C²)

Formula	: C ₄₂ H ₃₃ N ₆ Ir
Molecular Weight	: 813.96 g/mole
CAS No.	: 926292-95-7
Thermal Gravimetric Analysis	: >280°C(0.5% weight loss)
Absorption	: 303 nm (in THF)
Photoluminescence	: 415 nm (in THF)
Grade	: > 99%

Reference : Applied Physics Letters. 87, 243507, 2005

LT-N446

Spiro-BDAVBi

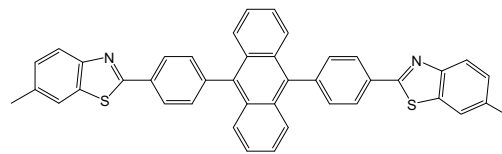


2,7-bis[4-(diphenylamino)styryl]-9,9-spirobifluorene

Formula	: C ₆₅ H ₄₆ N ₂
Molecular Weight	: 855.07 g/mole
CAS No.	: 436798-89-9
Thermal Gravimetric Analysis	: >390°C (0.5% weight loss)
Absorption	: 414 nm (in CH ₂ Cl ₂)
Photoluminescence	: 482 nm (in CH ₂ Cl ₂)
Grade	: > 99%

LT-N832

DBzA



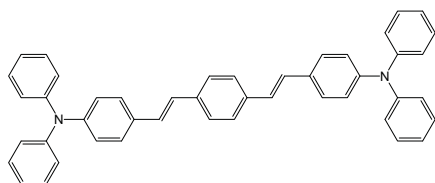
6-methyl-2-(4-(9-(4-(6-methylbenzo[d]thiazol-2-yl)phenyl)anthracen-10-yl)phenyl)benzo[d]thiazole

Formula	: C ₄₂ H ₂₈ N ₂ S ₂
Molecular Weight	: 624.82 g/mole
CAS No.	: 850018-19-8
Thermal Gravimetric Analysis	: >400°C (0.5% weight loss)
Absorption	: 311, 376, 396 nm (in THF)
Photoluminescence	: 448 nm (in THF)
Grade	: Sublimed product

Reference : 1.JP Patent no.3,728,309
2.US 2005/0112404 A1

LT-N631

DSA-Ph

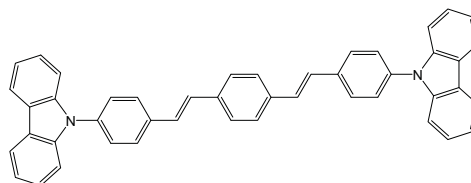


1,4-di-[4-(N,N-diphenyl)amino]styryl-benzene

Formula	: C ₄₆ H ₃₆ N ₂
Molecular Weight	: 616.79 g/mole
CAS No.	: 358374-59-1
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Absorption	: 407 nm (in THF)
Photoluminescence	: 473, 486 nm(in THF)
Grade	: > 99%

LT-N632

BCzSB



1,4-bis(4-(9H-carbazol-9-yl)styryl)benzene

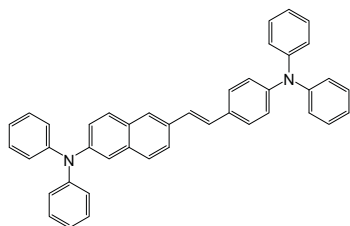
Formula	: C ₄₆ H ₃₂ N ₂
Molecular Weight	: 612.76 g/mole
CAS No.	: 320575-30-2
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Absorption	: 375 nm (in CH ₂ Cl ₂)
Photoluminescence	: 461 nm (in CH ₂ Cl ₂)
Grade	: > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Blue Dopant Materials

LT-N633

DPASN



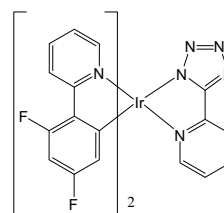
(E)-6-(4-(diphenylamino)styryl)-N,N-diphenyl-naphthalen-2-amine

Formula	: C ₃₂ H ₃₂ N ₂
Molecular Weight	: 564.72 g/mole
CAS No.	: 1093402-99-3
Thermal Gravimetric Analysis	: >280°C (0.5% weight loss)
Absorption	: 393 nm (in CH ₂ Cl ₂)
Photoluminescence	: 469 nm (in CH ₂ Cl ₂)
Grade	: > 99%

Reference : 1. Applied Physics Letters. 91, 043504, 2007.
2. Adv. Funct. Mater., 2008, 18, 121-126

LT-N635

FlrN4



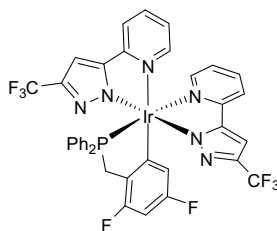
Bis(2,4-difluorophenylpyridinato)(5-(pyridin-2-yl)-1H-tetrazolate)iridium(III)

Formula	: C ₂₈ H ₁₆ F ₄ N ₇ Ir
Molecular Weight	: 718.67 g/mole
CAS No.	: 1219078-44-0
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 368 nm (in THF)
Photoluminescence	: 459, 488 nm (in THF)
Grade	: > 99%

Reference : Adv. Mater., 17, 285, 2005

LT-N636

Ir(fppz)₂(dfbdp)



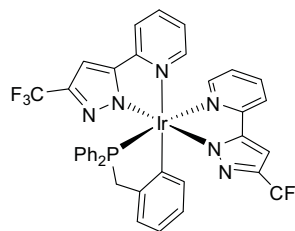
Bis(3-trifluoromethyl-5-(2-pyridyl)pyrazole)((2,4-difluorobenzyl)diphenylphosphinate)iridium(III)

Formula	: C ₃₇ H ₂₄ F ₈ IrN ₆ P
Molecular Weight	: 928.13 g/mol
CAS No.	: 1234694-06-4
Absorption	: 358 nm (in CH ₂ Cl ₂)
Photoluminescence	: 430,458 nm (in CH ₂ Cl ₂)
EL Efficient	: η _{max} =11.9% · CIE(0.15,0.11)
Grade	: > 95%

Reference : Adv. Mater. 2009, 21, 2221-2225

LT-N637

Ir(fppz)₂(bdp)



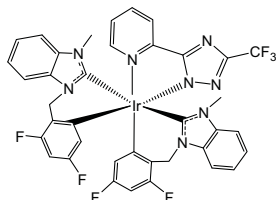
Bis(3-trifluoromethyl-5-(2-pyridyl)pyrazolate)(benzylidiphenylphosphinate)iridium(III)

Formula	: C ₃₇ H ₂₆ F ₆ IrN ₆ P
Molecular Weight	: 892.15 g/mol
CAS No.	: 1034708-69-4
Absorption	: 363 nm (in CH ₂ Cl ₂)
Photoluminescence	: 458 nm (in CH ₂ Cl ₂)
EL Efficient	: η _{max} = 6.0% · CIE(0.16,0.13)
Grade	: > 95%

Reference : Adv.Mater.2009, 21, 2221-2225

LT-N638

Ir(fptz)(dfbmb)₂



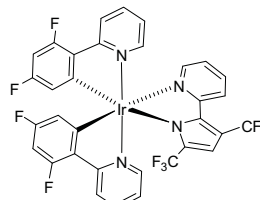
Bis(1-(2,4-difluorobenzyl)-3-methylbenzimidazolium)(3-(trifluoromethyl)-5-(2-pyridyl)-1,2,4-triazolate)iridium(III)

Formula	: C ₃₇ H ₂₉ F ₃ IrN ₉
Molecular Weight	: 920.18 g/mol
Absorption	: 363 nm (in CH ₂ Cl ₂)
Photoluminescence	: 458 nm (in CH ₂ Cl ₂)
EL Efficient	: η _{max} = 6.0% · CIE(0.16,0.13)
Grade	: > 95%

Reference : Angew. Chem. Int. Ed. 2008, 47, 4542

LT-N640

Ir(dfppy)₂(fpy)



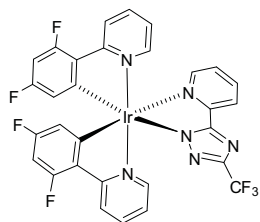
Bis(4',6'-difluorophenylpyridinato)(3,5-bis(trifluoromethyl)-2(2'-pyridyl)pyrrolate)iridium(III)

Formula	: C ₃₃ H ₁₇ F ₁₀ IrN ₄
Molecular Weight	: 852.09 g/mol
CAS No.	: 943005-45-6
Absorption	: 434 nm (in CH ₂ Cl ₂)
Photoluminescence	: 461,490 nm (in CH ₂ Cl ₂)
EL Efficient	: η _{max} = 9.0% · CIE(0.13,0.23)
Grade	: > 95%

Reference : J. Mater. Chem., 2007, 17, 1692-1698

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N641 Ir(dfppy)₂(fptz)

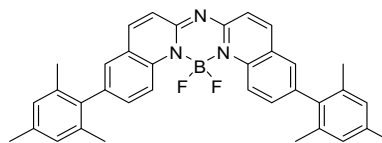


Bis(4',6'-difluorophenylpyridinato)(3-(trifluoromethyl)-5-(2-pyridyl)-1,2,4-triazolate) Iridium(III)

Formula	: C ₃₀ H ₁₆ F ₇ IrN ₆
Molecular Weight	: 786.10 g/mol
CAS No.	: 870106-50-6
Absorption	: 434 nm (in CH ₂ Cl ₂)
Photoluminescence	: 460, 489 nm (in CH ₂ Cl ₂)
EL Efficient	: η _{max} = 9.4% · CIE(0.14,0.18)
Grade	: > 95%

Reference : Adv. Mater. 2005, 17, 285-289

LT-N642 MQAB

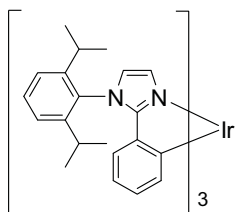


(Z)-6-mesityl-N-(6-mesitylquinolin-2(1H)-ylidene)quinolin-2-amine-BF₂ complex

Formula	: C ₃₆ H ₃₂ BF ₂ N ₃
Molecular Weight	: 555.47 g/mol
Absorption	: 338 nm (in CH ₂ Cl ₂)
Photoluminescence	: 451.5, 476 nm (in CH ₂ Cl ₂)
Thermal Gravimetric Analysis	: >280°C (0.5% weight loss)
Grade	: Sublimed, > 99%

LT-N643 fac-Ir(iprpmi)₃

New

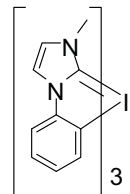


fac-tris[(2,6-diisopropylphenyl)-2-phenyl-1H-imidazol[e]iridium(III)]

Formula	: C ₂₁ H ₂₃ IrN ₂
Molecular Weight	: 495.64 g/mole

LT-N644 fac-Ir(pmi)₃

New

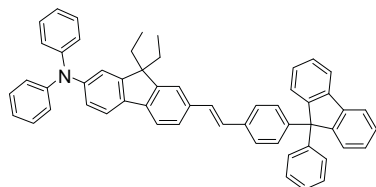


fac-tris(1-phenyl-3-methylimidazolin-2-ylidene-C,C(2)iridium)

Formula	: C ₁₀ H ₉ IrN ₂
Molecular Weight	: 349.41 g/mole

LT-N645 DPAFVF

New



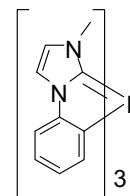
9-[4-(2-(7-(N,N-diphenylamino)-9,9-diethylfluoren-2-yl)vinyl)phenyl]-9-phenyl-fluorene

Formula	: C ₅₆ H ₄₅ N
Molecular Weight	: 731.96 g/mole
Absorption	: 386nm(CH ₂ Cl ₂)
Photoluminescence	: 465nm(CH ₂ Cl ₂)

Reference : Synthetic Metals 160 (2010) 1259-1265

LT-N646 mer-Ir(pmi)₃

New



mer-tris(1-phenyl-3-methylimidazolin-2-ylidene-C,C(2)iridium)

Formula	: C ₁₀ H ₉ IrN ₂
Molecular Weight	: 349.41 g/mole

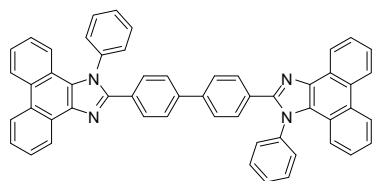
Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Blue Dopant Materials

LT-N647

PPIP

New



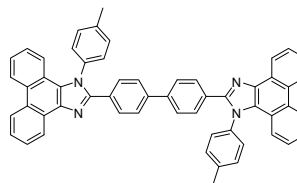
4,4'-bis(1-phenyl-1H-phenanthro[9,10-d]imidazol-2-yl)biphenyl

Formula : $C_{54}H_{34}N_4$
Molecular Weight : 738.87 g/mole
Reference : *J. Mater. Chem.*, 2009, 19, 1865–1871

LT-N648

TIPI

New



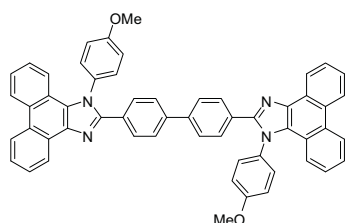
4,4'-bis(1-(p-tolyl)-1H-phenanthro[9,10-d]imidazol-2-yl)biphenyl

Formula : $C_{56}H_{38}N_4$
Molecular Weight : 766.93g/mole
Reference : *J. Mater. Chem.*, 2009, 19, 1865–1871

LT-N649

APIP

New



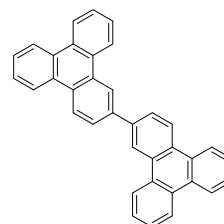
4,4'-bis(1-(4-methoxyphenyl)-1H-phenanthro[9,10-d]imidazol-2-yl)biphenyl

Formula : $C_{56}H_{38}N_4O_2$
Molecular Weight : 798.93 g/mol
Reference : *J. Mater. Chem.*, 2009, 19, 1865–1871

LT-N650

BTP

New



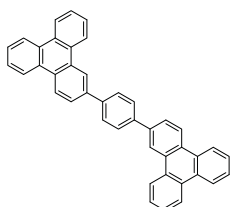
2,2'-bitriphenylene

Formula : $C_{56}H_{22}$
Molecular Weight : 454.56 g/mol
Reference : *J. Phys. Chem. C* 2009, 113, 7405

LT-N651

T1

New



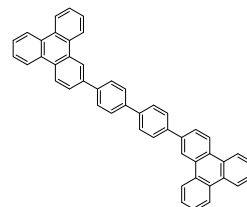
1,4-di(triphenylen-2-yl)benzene

Formula : $C_{42}H_{26}$
Molecular Weight : 530.66 g/mol
Reference : *J. Phys. Chem. C* 2009, 113, 7405

LT-N652

T2

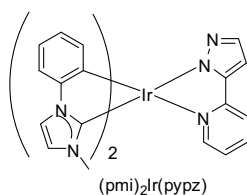
New



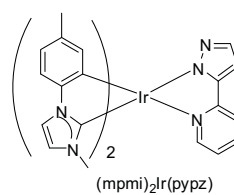
4,4'-di(triphenylen-2-yl)biphenyl

Formula : $C_{48}H_{30}$
Molecular Weight : 606.75 g/mol
Reference : *J. Phys. Chem. C* 2009, 113, 7405

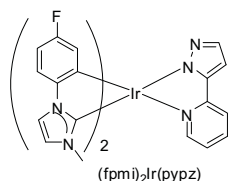
Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N653 $(\text{pmi})_2\text{Ir}(\text{pypz})$
New

Bis(1-phenyl-3-methylimidazolin-2-ylidene-C, C²)(2-(2H-pyrazol-3-yl)-pyridine)Iridium(III)

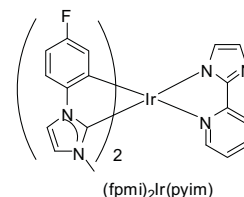
Formula : $(\text{C}_{28}\text{H}_{26}\text{IrN}_7)$
 Molecular Weight : 652.77 g/mole
 Reference : Chem. Eur. J. 2011, 17, 9180 – 9187

LT-N654 $(\text{mpmi})_2\text{Ir}(\text{pypz})$
New

Bis(1-(4-methylphenyl)-3-methylimidazolin-2-ylidene-C, C²)(2-(2H-pyrazol-3-yl)-pyridine)Iridium(III)

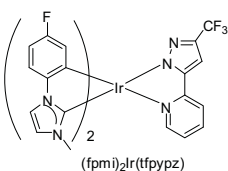
Formula : $(\text{C}_{30}\text{H}_{30}\text{IrN}_7)$
 Molecular Weight : 680.82 g/mole
 Reference : Chem. Eur. J. 2011, 17, 9180 – 9187

LT-N655 $(\text{fpmi})_2\text{Ir}(\text{pypz})$
New

Bis(1-(4-fluorophenyl)-3-methylimidazolin-2-ylidene-C, C²)(2-(2H-pyrazol-3-yl)-pyridine)Iridium(III)

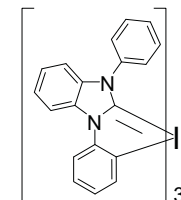
Formula : $(\text{C}_{28}\text{H}_{24}\text{F}_2\text{IrN}_7)$
 Molecular Weight : 688.75 g/mole
 Reference : Chem. Eur. J. 2011, 17, 9180 – 9187

LT-N656 $(\text{fpmi})_2\text{Ir}(\text{pyim})$
New

Bis(1-(4-fluorophenyl)-3-methylimidazolin-2-ylidene-C, C²)(2-(1H-imidazol-2-yl)pyridine)Iridium(III)

Formula : $(\text{C}_{28}\text{H}_{24}\text{F}_2\text{IrN}_7)$
 Molecular Weight : 688.75 g/mole
 Reference : Chem. Eur. J. 2011, 17, 9180 – 9187

LT-N657 $(\text{fpmi})_2\text{Ir}(\text{tfpypz})$
New

Bis(1-(4-fluorophenyl)-3-methylimidazolin-2-ylidene-C, C²)(2-(5-trifluoromethyl-2H-pyrazol-3-yl)-pyridine)Iridium(III)

Formula : $(\text{C}_{29}\text{H}_{23}\text{F}_5\text{IrN}_7)$
 Molecular Weight : 756.75 g/mole
 Reference : Chem. Eur. J. 2011, 17, 9180 – 9187

LT-N658 $\text{fac-Ir}(\text{dpbic})_3$
New

fac-Tris(1,3-diphenylbenzimidazolin-2-ylidene-C, C²)Iridium(III)

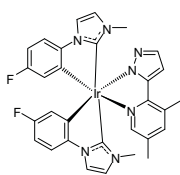
Formula : $(\text{C}_{57}\text{H}_{42}\text{IrN}_6)$
 Molecular Weight : 1003.2 g/mole

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Blue Dopant Materials

LT-N659 (fpmi)₂Ir(dmpypz)

New

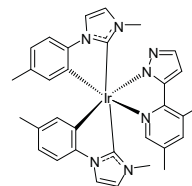


Bis(1-(4-fluorophenyl)-3-methylimidazolin-2-ylidene-C,C²)(3,5-dimethyl-2-(1H-pyrazol-5-yl)pyridine)Iridium(III)

Formula : (C₃₀H₂₆F₂IrN₇)
Molecular Weight : 714.79 g/mole

LT-N660 (mpmi)₂Ir(dmpypz)

New



Bis(1-(4-methylphenyl)-3-methylimidazolin-2-ylidene-C,C²)(3,5-dimethyl-2-(1H-pyrazol-5-yl)pyridine)Iridium(III)

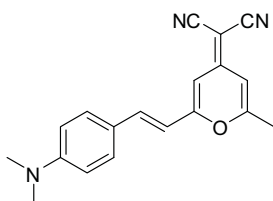
Formula : (C₃₂H₃₂IrN₇)
Molecular Weight : 706.86 g/mole

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Red Dopant Materials

LT-E701

DCM



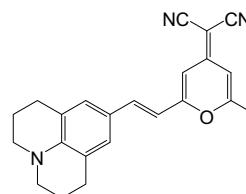
(E)-2-(2-(4-(dimethylamino)styryl)-6-methyl-4H-pyran-4-ylidene)malononitrile

Formula	: C ₁₉ H ₁₇ N ₃ O
Molecular Weight	: 303.36 g/mole
CAS No.	: 51325-91-8
Thermal Gravimetric Analysis	: >250°C (0.5% weight loss)
Absorption	: 462 nm (in THF)
Photoluminescence	: 577 nm (in THF)
Grade	: Sublimed, > 99%

Reference : *Appl. Phys. Lett.* 79, 7, P1045-1047, 2001.

LT-E702

DCM2



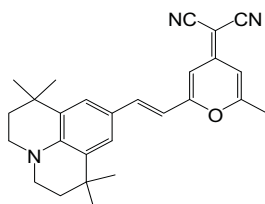
4-(dicyanomethylene)-2-methyl-6-julolidyl-9-enyl-4H-pyran

Formula	: C ₂₃ H ₂₁ N ₃ O
Molecular Weight	: 355.43 g/mole
Thermal Gravimetric Analysis	: >230°C (0.5% weight loss)
Absorption	: 497 nm (in THF)
Photoluminescence	: 605 nm (in THF)
Grade	: > 99%

Reference : *Chem. Phys. Lett.* 287, 3-4, 455-460, 1998.

LT-E703

DCJT



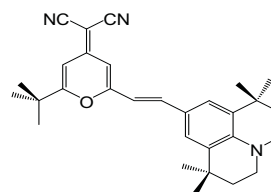
4-(dicyanomethylene)-2-methyl-6-(1,1,7,7-tetramethyljulolidyl-9-enyl)-4H-pyran

Formula	: C ₂₇ H ₂₉ N ₃ O
Molecular Weight	: 411.54 g/mole
CAS No.	: 59788-00-8
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 497 nm (in THF)
Photoluminescence	: 604 nm (in THF)
Grade	: Sublimed, > 99%

Reference : *Proc. 2nd Internat. Sym. Chem. Functional Dyes*, 1992, 536.

LT-E704

DCJTb

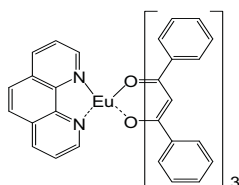


4-(dicyanomethylene)-2-tert-butyl-6-(1,1,7,7-tetramethyljulolidin-4-yl-vinyl)-4H-pyran

Formula	: C ₃₀ H ₃₅ N ₃ O
Molecular Weight	: 453.62 g/mole
CAS No.	: 200052-70-6
Thermal Gravimetric Analysis	: >250°C (0.5% weight loss)
Absorption	: 501 nm (in THF)
Photoluminescence	: 602 nm (in THF)
Grade	: Sublimed, > 99%

LT-E706

Eu(dbm)₃(Phen)

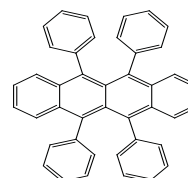


Tris(dibenzoylmethane)phenanthroline europium(III)

Formula	: C ₅₇ H ₄₁ N ₂ O ₂ Eu
Molecular Weight	: 937.91 g/mole
CAS No.	: 17904-83-5
Thermal Gravimetric Analysis	: >180°C (0.5% weight loss)
Absorption	: 257, 355 nm (in THF)
Photoluminescence	: 615 nm (in THF)

LT-E707

Rubrene



5,6,11,12-tetraphenylnaphthacene

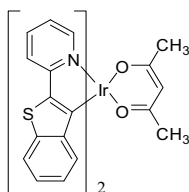
Formula	: C ₄₂ H ₂₈
Molecular Weight	: 532.67 g/mole
CAS No.	: 517-51-1
Thermal Gravimetric Analysis	: >250°C (0.5% weight loss)
Absorption	: 299 nm (in THF)
Photoluminescence	: 553 nm (in THF)
Grade	: Sublimed product

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Red Dopant Materials

LT-E709

$\text{Ir}(\text{btp})_2(\text{acac})$

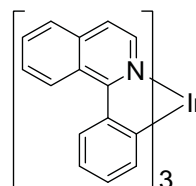


Bis(2-benzo[b]thiophen-2-yl-pyridine)(acetylacetonate)iridium(III)

Formula	: $\text{C}_{31}\text{H}_{23}\text{N}_2\text{O}_2\text{S}_2\text{Ir}$
Molecular Weight	: 711.87 g/mole
CAS No.	: 343978-79-0
Thermal Gravimetric Analysis	: $>310^\circ\text{C}$ (0.5% weight loss)
Absorption	: 283 nm (in THF)
Photoluminescence	: 615 nm (in THF)
Grade	: Sublimed, $> 99\%$

LT-E711

$\text{Ir}(\text{piq})_3$

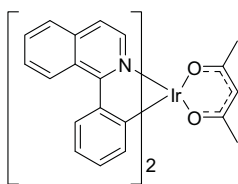


Tris(1-phenylisoquinoline)iridium(III)

Formula	: $\text{C}_{45}\text{H}_{30}\text{N}_3\text{Ir}$
Molecular Weight	: 804.96 g/mole
CAS No.	: 435293-93-9
Thermal Gravimetric Analysis	: $>340^\circ\text{C}$ (0.5% weight loss)
Absorption	: 324, 427 nm (in THF)
Photoluminescence	: 615 nm (in THF)
Grade	: Sublimed, $> 99\%$
Reference	: IDMC 2005, 126

LT-E713

$\text{Ir}(\text{piq})_2(\text{acac})$

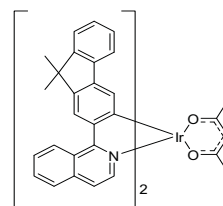


Bis(1-phenylisoquinoline)(acetylacetonate)iridium(III)

Formula	: $\text{C}_{35}\text{H}_{27}\text{N}_2\text{O}_2\text{Ir}$
Molecular Weight	: 699.82 g/mole
CAS No.	: 435294-03-4
Thermal Gravimetric Analysis	: $>320^\circ\text{C}$ (0.5% weight loss)
Absorption	: 287 nm (in THF)
Photoluminescence	: 624 nm (in THF)
Grade	: Sublimed, $> 99\%$

LT-N721

$\text{Ir}(\text{fliq})_2(\text{acac})$

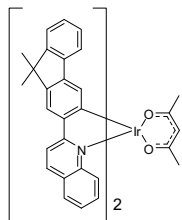


Bis[1-(9,9-dimethyl-9H-fluoren-2-yl)-isoquinoline](acetylacetonate)iridium(III)

Formula	: $\text{C}_{55}\text{H}_{43}\text{N}_2\text{O}_2\text{Ir}$
Molecular Weight	: 932.14 g/mole
Thermal Gravimetric Analysis	: $>350^\circ\text{C}$ (0.5% weight loss)
Absorption	: 285, 368 nm (in THF)
Photoluminescence	: 653 nm (in THF)
Grade	: Sublimed, $> 99\%$

LT-N724

$\text{Ir}(\text{flq})_2(\text{acac})$

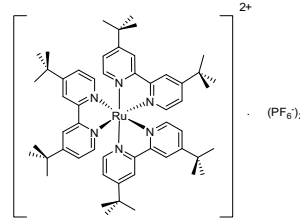


Bis[2-(9,9-dimethyl-9H-fluoren-2-yl)quinoline](acetylacetonate)iridium(III)

Formula	: $\text{C}_{53}\text{H}_{43}\text{N}_2\text{O}_2\text{Ir}$
Molecular Weight	: 932.14 g/mole
CAS No.	: 889750-25-8
Thermal Gravimetric Analysis	: $>320^\circ\text{C}$ (0.5% weight loss)
Absorption	: 309, 368 nm (in THF)
Photoluminescence	: 615 nm (in THF)
Grade	: Sublimed, $> 99\%$

LT-N727

$\text{Ru}(\text{dtb-bpy})_3 \cdot 2(\text{PF}_6)$



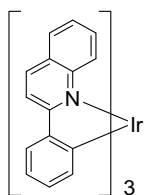
Tris[4,4'-di-tert-butyl-(2,2')-bipyridine]ruthenium(III) complex

Formula	: $\text{C}_{53}\text{H}_{72}\text{N}_6\text{F}_{12}\text{P}_2\text{Ru}$
Molecular Weight	: 1196.19 g/mole
Thermal Gravimetric Analysis	: $>350^\circ\text{C}$ (0.5% weight loss)
Absorption	: 289, 462 nm (in THF)
Photoluminescence	: 614 nm (in THF)
Grade	: Sublimed product

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N728

$\text{Ir}(2\text{-phq})_3$

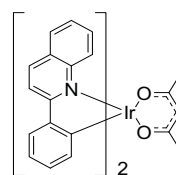


Tris(2-phenylquinoline)iridium(III)

Formula	: $\text{C}_{45}\text{H}_{30}\text{N}_3\text{Ir}$
Molecular Weight	: 804.97 g/mole
CAS No.	: 911142-72-8
Thermal Gravimetric Analysis	: >370°C (0.5% weight loss)
Absorption	: 271, 406 nm (in THF)
Photoluminescence	: 578 nm (in THF)
Grade	: Sublimed, > 98.5%

LT-N729

$\text{Ir}(2\text{-phq})_2(\text{acac})$

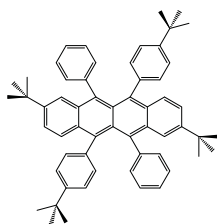


Bis(2-phenylquinoline)(acetylacetonate)iridium(III)

Formula	: $\text{C}_{35}\text{H}_{27}\text{N}_2\text{O}_2\text{Ir}$
Molecular Weight	: 699.82 g/mole
CAS No.	: 1173886-71-9
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 279, 344 nm (in THF)
Photoluminescence	: 590 nm (in THF)
Grade	: Sublimed, > 99%

LT-N732

TBRb

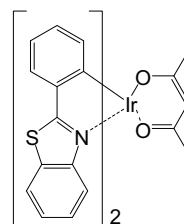


2,8-di-tert-butyl-5,11-bis(4-tert-butylphenyl)-6,12-diphenyltetracene

Formula	: $\text{C}_{38}\text{H}_{60}$
Molecular Weight	: 757.10 g/mole
Thermal Gravimetric Analysis	: >310°C(0.5% weight loss)
Absorption	: 306 nm (in CH_2Cl_2)
Photoluminescence	: 571 nm (in CH_2Cl_2)
Grade	: Sublimed product
Reference	: <i>Thin Solid Films</i> 496 (2006)626-630

LT-N733

$\text{Ir}(\text{BT})_2(\text{acac})$

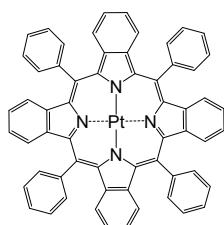


Bis(2-phenylbenzothiazolato)(acetylacetonate)iridium(III)

Formula	: $\text{C}_{31}\text{H}_{23}\text{N}_2\text{O}_2\text{S}_2\text{Ir}$
Molecular Weight	: 711.87 g/mole
CAS No.	: 337526-88-2
Thermal Gravimetric Analysis	: >270°C (0.5% weight loss)
Absorption	: 271 nm (in THF)
Photoluminescence	: 563 nm (in THF)
Grade	: Sublimed, > 99%
Reference	: <i>Journal of Organometallic Chemistry</i> , Vol 689, Issue 26, P4882-4888, 2004.

LT-N734

$\text{Pt}(\text{TPBP})$

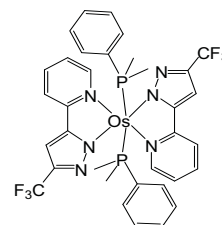


5,10,15,20-tetraphenyltetrabenzoporphyrin platinum complex

Formula	: $\text{C}_{60}\text{H}_{36}\text{N}_4\text{Pt}$
Molecular Weight	: 1008.03 g/mole
CAS No.	: 166174-05-6
Absorption	: 430, 610 nm (in THF)
Photoluminescence	: 765 nm (in THF)
Grade	: > 99%
Reference	: <i>Angew. Chem. Int. Ed.</i> 2007, 46, 1109-1112

LT-N736

$\text{Os}(\text{fppz})_2(\text{PPhMe}_2)_2$



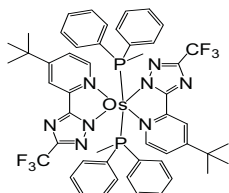
Osmium(II) bis(3-trifluoromethyl-5-(2-pyridyl)pyrazolate)dimethylphenylphosphine

Formula	: $\text{C}_{34}\text{H}_{32}\text{F}_6\text{N}_6\text{OsP}_2$
Molecular Weight	: 890.83 g/mole
CAS No.	: 741252-28-8
Absorption	: 551 nm (in CH_2Cl_2)
Photoluminescence	: 630 nm (in CH_2Cl_2)
Grade	: > 95%
Reference	: 1. <i>Organometallics</i> . 2004, 23, 3745. 2. <i>J.Phys. Chem. B</i> 2005, 109, 14000.

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Red Dopant Materials

LT-N737 Os(bpftz)₂(PPh₂Me)₂

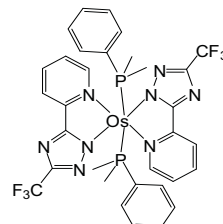


Osmium(II) bis(3-(trifluoromethyl)-5-(4-tert-butylpyridyl)-1,2,4-triazolate) diphenylmethylphosphine

Formula	:	C ₅₀ H ₅₀ F ₆ N ₈ OsP ₂
Molecular Weight	:	1129.15 g/mole
CAS No.	:	1039722-94-5
Absorption	:	520 nm (in CH ₂ Cl ₂)
Photoluminescence	:	603 nm (in CH ₂ Cl ₂)
Grade	:	> 95%

Reference : Appl. Phys. Lett. 2006, 88, 251110.

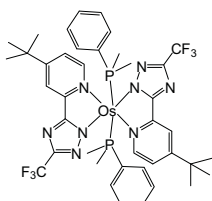
LT-N738 Os(fptz)₂(PPhMe₂)₂



Osmium(II) bis(3-(trifluoromethyl)-5-(2-pyridyl)-1,2,4-triazole)dimethylphenylphosphine

Formula	:	C ₃₂ H ₃₀ F ₆ N ₈ OsP ₂
Molecular Weight	:	892.80 g/mole
CAS No.	:	1095770-58-3
Absorption	:	551 nm (in CH ₂ Cl ₂)
Photoluminescence	:	631 nm (in CH ₂ Cl ₂)
Grade	:	> 95%

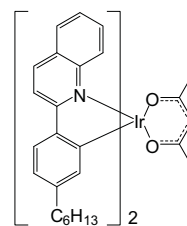
LT-N739 Os(bpftz)₂(PPhMe₂)₂



Osmium(II) bis(3-(trifluoromethyl)-5-(4-tert-butylpyridyl)-1,2,4-triazolate) dimethylphenylphosphine

Formula	:	C ₄₀ H ₄₆ F ₆ N ₈ OsP ₂
Molecular Weight	:	1005.01 g/mole
CAS No.	:	1034501-02-4
Absorption	:	535 nm (in CH ₂ Cl ₂)
Photoluminescence	:	612 nm (in CH ₂ Cl ₂)
Grade	:	> 95%

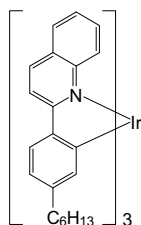
LT-N740 Hex-Ir(phq)₂(acac)



Bis[2-(4-n-hexylphenyl)quinoline] (acetylacetonate)iridium(III)

Formula	:	C ₄₇ H ₅₁ N ₂ O ₂ Ir
Molecular Weight	:	868.14 g/mole
Thermal Gravimetric Analysis	:	>210°C (0.5% weight loss)
Absorption	:	344 nm (in CH ₂ Cl ₂)
Photoluminescence	:	588 nm (in CH ₂ Cl ₂)
Grade	:	> 99%

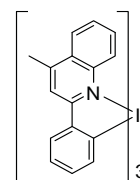
LT-N741 Hex-Ir(phq)₃



Tris[2-(4-n-hexylphenyl)quinoline]iridium(III)

Formula	:	C ₆₃ H ₆₆ N ₃ Ir
Molecular Weight	:	1057.43 g/mole
Thermal Gravimetric Analysis	:	>250°C (0.5% weight loss)
Absorption	:	323 nm (in CH ₂ Cl ₂)
Photoluminescence	:	583 nm (in CH ₂ Cl ₂)
Grade	:	> 99%

LT-N742 Ir(Mphq)₃



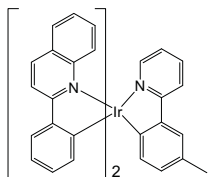
Tris[2-phenyl-4-methylquinoline]iridium(III)

Formula	:	C ₄₈ H ₃₆ N ₃ Ir
Molecular Weight	:	847.04 g/mole
Thermal Gravimetric Analysis	:	>350°C (0.5% weight loss)
Photoluminescence	:	604 nm (in CH ₂ Cl ₂)
Grade	:	Sublimed, > 99%

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N743

Ir(Mphq)₂tpy

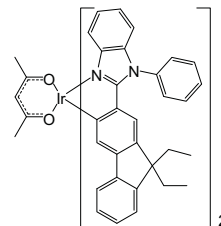


Bis(2-phenylquinoline)(2-(3-methylphenyl)pyridinate)iridium(III)

Formula	: C ₄₂ H ₃₀ N ₃ Ir
Molecular Weight	: 768.93 g/mole
Thermal Gravimetric Analysis	: >320°C (0.5% weight loss)
Grade	: Sublimed, > 99%

LT-N744

Ir(fbi)₂(acac)



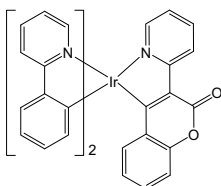
Bis(2-(9,9-diethylfluoren-2-yl)-1-phenyl-1H-benzo[d]imidazolato)(acetylacetonate)iridium(III)

Formula	: C ₆₅ H ₅₇ N ₄ O ₂ Ir
Molecular Weight	: 1118.40 g/mole
CAS No.	: 725251-24-1
Absorption	: 421 nm (in THF)
Photoluminescence	: 538 nm (in THF)
Grade	: > 99%

Reference : 1. Angew. Chem. Int. Ed. 2008, 47, 581
2. Chem. Mater. 2004, 16, 2480

LT-N745

fac-Ir(ppy)₂Pc

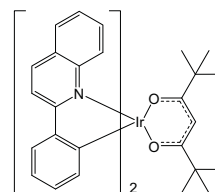


Bis(2-phenylpyridine)(3-(pyridin-2-yl)-2H-chromen-2-onate)iridium(III)

Formula	: C ₃₆ H ₂₄ N ₃ O ₂ Ir
Molecular Weight	: 722.82 g/mole
Thermal Gravimetric Analysis	: >340°C (0.5% weight loss)
Absorption	: 319 nm (in CH ₂ Cl ₂)
Photoluminescence	: 550 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N746

Ir(dpm)PQ₂

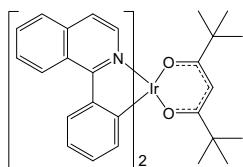


Bis(2-phenylquinoline)(2,2,6,6-tetramethylheptane-3,5-dionate)iridium(III)

Formula	: C ₄₁ H ₃₉ N ₂ O ₂ Ir
Molecular Weight	: 783.98 g/mole
CAS No.	: 713079-03-9
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 333 nm (in CH ₂ Cl ₂)
Photoluminescence	: 595 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

LT-N747

Ir(dpm)(piq)₂

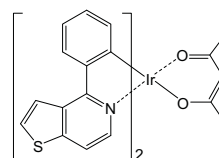


Bis(phenylisoquinoline)(2,2,6,6-tetramethylheptane-3,5-dionate)iridium(III)

Formula	: C ₄₁ H ₃₉ N ₂ O ₂ Ir
CAS No.	: 1202867-58-0
Molecular Weight	: 783.98 g/mole
Thermal Gravimetric Analysis	: >310°C (0.5% weight loss)
Grade	: Sublimed, > 99%

LT-N748

PO-01



Iridium(III) bis(4-phenylthieno[3,2-c]pyridinato-N,C^{2'})acetylacetonate

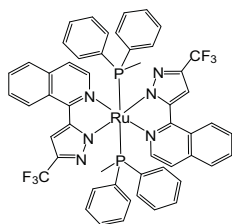
Formula	: C ₃₁ H ₂₃ IrN ₂ O ₂ S ₂
Molecular Weight	: 712.08 g/mole
Thermal Gravimetric Analysis	: >360°C (0.5% weight loss)
Absorption	: 444 nm (in CH ₂ Cl ₂)
Photoluminescence	: 555 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%

Reference : Taiwan patent I242999, 2005; US Patent 7,445,857, 2008

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

Red Dopant Materials

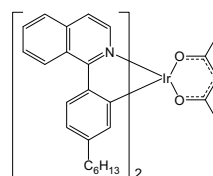
LT-N750 Ru(ifpz)₂(PPh₂Me)₂



Bis(3-trifluoromethyl-5-(1-isoquinolyl)pyrazolate) (methyl-diphenylphosphine)ruthenium

Formula	: C ₅₂ H ₄₀ F ₆ N ₆ RuP ₂
Molecular Weight	: 1116.23 g/mol
CAS No.	: 934276-37-6
Absorption	: 523 nm (in CH ₂ Cl ₂)
Photoluminescence	: 636 nm (in CH ₂ Cl ₂)
EL Efficient	: η _{max} = 7.0% , CIE(0.67,0.33)
Grade	: > 95%
Reference	: Adv. Funct. Mater. 2006, 16, 1615–1626

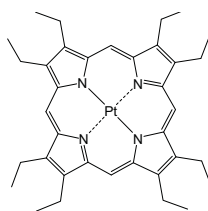
LT-N751 Hex-Ir(piq)₂(acac)



Bis[(4-*n*-hexylphenyl)isoquinoline] (acetylacetonate)iridium (III)

Formula	: C ₄₇ H ₅₁ N ₂ O ₂ Ir
Molecular Weight	: 430.56 g/mole
CAS No.	: 435294-13-6
Grade	: > 99%

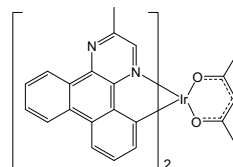
LT-N752 PtOEP



Pt(II) octaethylporphine

Formula	: C ₃₆ H ₄₄ N ₄ Pt
Molecular Weight	: 727.84 g/mole
CAS No.	: 31248-39-2
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 389, 534 nm (in CH ₂ Cl ₂)
Photoluminescence	: 649 nm (in CH ₂ Cl ₂)
Grade	: > 99%

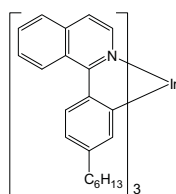
LT-N753 Ir(MDQ)₂(acac)



Bis(2-methyldibenzo[*f,h*]quinoxaline) (acetylacetonate)iridium (III)

Formula	: C ₃₉ H ₂₉ N ₂ O ₂ Ir
Molecular Weight	: 777.88 g/mole
CAS No.	: 536755-34-7
Thermal Gravimetric Analysis	: >290°C (0.5% weight loss)
Absorption	: 325, 428 nm (in CH ₂ Cl ₂)
Photoluminescence	: 616 nm (in CH ₂ Cl ₂)
Grade	: Sublimed, > 99%
Reference	: Adv. Mater. 2003, 15, 3, p224-28

LT-N754 Hex-Ir(piq)₃

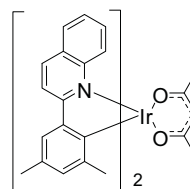


Tris[(4-*n*-hexylphenyl)isoquinoline]iridium (III)

Formula	: C ₆₃ H ₆₆ N ₃ Ir
Molecular Weight	: 1057.43 g/mole
CAS No.	: 1240249-29-9
Absorption	: 325 nm (in CH ₂ Cl ₂)
Photoluminescence	: 617 nm (in CH ₂ Cl ₂)
Grade	: > 99%

LT-N756 Ir(xypq)₃

New



Bis[2-(3,5-dimethylphenyl)quinoline] (acetylacetonate)iridium(III)

Formula	: C ₂₂ H ₂₁ IrNO ₂
Molecular Weight	: 523.62 g/mole

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.

LT-N758

PO-01-TB

New

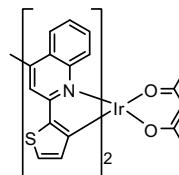
Patent pending

Formula :
Molecular Weight :
CAS No. :
Absorption :
Photoluminescence :
EL Efficient :
Reference :

LT-N759

(tmq)₂Ir(acac)

New



**Bis(4-methyl-2-(thiophen-2-yl)quinoline)
(acetylacetonate)Iridium(III)**

Formula : (C₃₃H₂₇IrN₂O₂S₂)
Molecular Weight : 739.93 g/mole

Materials are used by qualified for testing and research only, there are not guaranteed in patent contention by customer use.