

Our Brand

Luminescence Technology Corp. (Lumtec) is a professional manufacturer of organic chemicals since 2001. With many years experience in the market, Lumtec obtained reputation of high quality products and excellent performance. Lumtec has presence in Japan, Korea, North America, Europe, Middle East, Asian-Pacific, China and other countries. We are grateful being supported by customers all over the world.

Our Equipment

- 2 Manufacturing facilities located in Science-Based Industrial Park, Hsin-Chu, Taiwan.
- 1ton/month production capacity (500Lx2, 150Lx2, 100Lx4, 50Lx4, 30Lx4 etc. reactors).
- 200kg/month sublimation capacity (6~8inch×10 sets).
- NMR, LC-MS, HPLC, GPC, TGA, UV, PL etc. analysis equipment.
- Lithographically patterned ITO production and vacuum deposition equipment in clean room.

Our Strength

With the emphasis on innovation and IP, Lumtec has a group of experts to support various needs of clients as well as our internal technology objectives. We offer customized synthesis for designed structure and publication compounds. In particular Lumtec wholly designed and invested Vacuum Deposition Equipment to pioneer OLED technology. This enables Lumtec to offer technical consultancy for companies who intends to optimize materials, device performance and process parameters. Moreover Lumtec made significant efforts in developing materials with better performance, and applied considerable patents. In order to meet the future potential demand of materials for commercial production, we have installed adequate synthesis and sublimation equipment to enhance our supply ability ranging from grams to tons.

Our Commitment

Certified by ISO 9001 and ISO 14001, Lumtec strives for excellence in quality, management and service, as well as to fulfill our responsibility in environment protection and contribute to the world sustainability.

Following Patents and Publications for Reference:

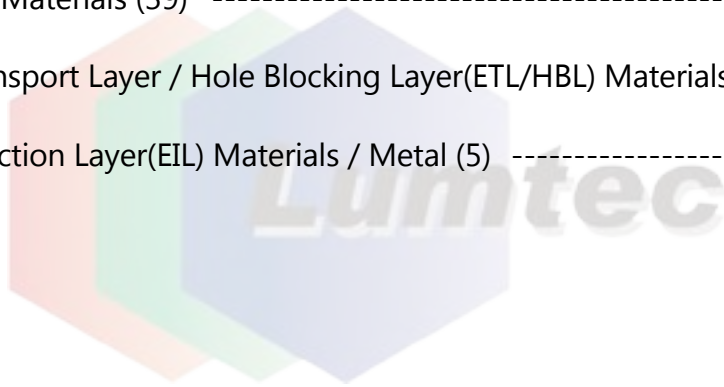
• Patents

- US9,190,619 :Compound for organic electroluminescence device
- US9,166,177 :Ditriphenylene Derivative And Organic Electroluminescent Device Using The Same
- US9,048,437 :Organic Compound For Organic Electroluminescent Device
- US9,040,174 :Fluorene compound and organic electroluminescent device using the same
- US8,993,130 :Organic compound and organic electroluminescent device using the same
- US8,962,160 :Material for organic electroluminescent device
- US7,754,348 :Phenanthroline compound and organic light emitting device using the same
- US7,282,586 :Dipyridine-based compound and the use thereof
- US20140175383 :Indenotriphenylene derivatives and organic light emitting device using the same
- US20140131664 :Indenotriphenylene derivatives and organic light emitting device using the same
- US20130180589 :Organic photovoltaic cell materials and components
- US20110163300 :Organic Light-emitting material, Organic Light-emitting element using the same and method of forming the same
- TWI402243 :有機發光材料
- TW201329083 :有機太陽電池材料及有機太陽電池元件
- TWI482757 :VEGF-2/3受體及蛋白質酪胺酸激酶抑制劑及其醫藥用途
- CN101372455 :芳基胺化合物及應用該化合物之有機發光組件
- CN103508835 :茚并苯并菲衍生物及使用其的有机电致发光器件

• Publications

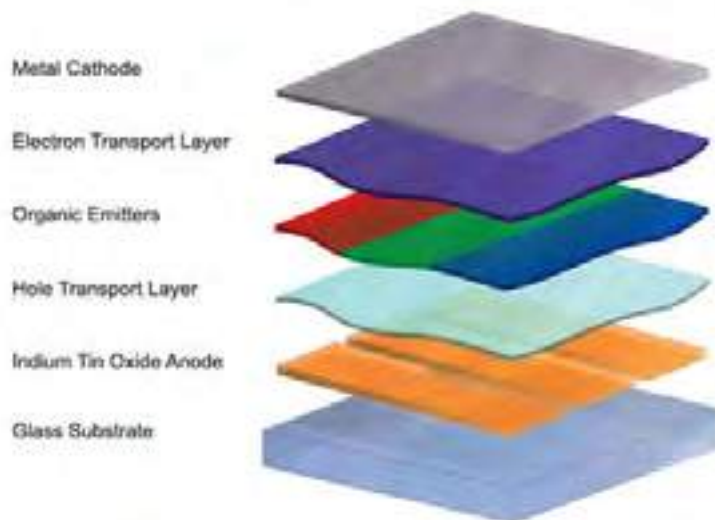
- The improvement of efficiency and lifetime for organic light-emitting devices by using a high Tg and heat-resistant hole injection material.
Asia Display 2007 Conference
- Stable White OLED device using mixed dopant and simple process.
The 1st International Conference on Display LEDs
- Efficient Deep Blue, Blue, Green, Yellow, Reddish- Orange and Red Organic Light-Emitting Device using 2,7-Dipyrenespirofluorene(DPSF) as a Fluorescent Emitting Host.
SID Symposium Digest of Technical Papers, 2007, V38, p883-887
- All-solution-processed blue small molecular organic light-emitting diodes with multilayer device structure.
 1. SID Symposium Digest of Technical Papers, 2009, V40, p1737-1739.
 2. Organic Electronics, 2009, V10, p1610-1614
- Highly efficient solution-processed red organic light-emitting diodes with longside-chained triplet emitter. *Synthetic Metals 161 (2011) 148–152*
- Nanoscale Correlation between Exciton Dissociation and Carrier Transport in Silole-Containing Cyclopentadithiophene-Based Bulk Heterojunction Films.
J. Phys. Chem. C 2011, 115, 2398–2405
- Molecular-weight-dependent nanoscale morphology in silole-containing cyclopentadithiophene polymer and fullerene derivative blends.
Organic Electronics, 2011, V12, p1755-1762
- Continuous blade coating for multi-layer large-area organic light-emitting diode and solar cell. *Journal of Applied Physics, 110, 094501 (2011)*

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Organic light emitting diode (OLED) is a light-emitting diode (LED) whose emissive electroluminescent layer is composed of a film of organic compounds.

The first diode device was reported at Eastman Kodak by Dr. Ching W Tang and Steven Van Slyke in 1987¹. This device used a novel two-layer structure with separate hole transporting and electron transporting layers such that recombination and light emission occurred in the middle of the organic layer. This resulted in a reduction in operating voltage and improvements in efficiency and led to the current area of OLED research and device production.



Organic Light Emitting Diode Diagram

There are two main families of OLED: those based on small molecules and those employing polymers. Research into polymer electroluminescence culminated in 1990 with J. H. Burroughes et al. at the Cavendish Laboratory in Cambridge reporting a high efficiency green light-emitting polymer based device using 100 nm thick films of poly(p-phenylene vinylene). However multilayer OLEDs can be fabricated with two or more layers in order to improve device efficiency.

Another highly efficient white OLED device is to produce laminated structure. Kido believes that contains a structural unit N brightness white OLED can achieve a single OLED, N times, thus substantially increase the efficiency of the device.

- Advantages of OLED:
1. Much faster response time.
 2. Consume significantly less energy.
 3. Able to display "True Black" picture.
 4. Wider viewing angles.
 5. Thinner display.
 6. Better contrast ratio.
 7. Safer for the environment.
 8. Has potential to be mass produced inexpensively.

Recently, researchers from Kyushu University that led by Chihaya Adachi developed one kind of new OLED light-emitting fluorescent materials with 100% internal quantum efficiency. They have established light emission principle called thermally activated delayed fluorescence (TDAF) and worked on designing a material to increase its luminous efficiency. TADF OLEDs are free from the heavy metals used in phosphorescent emitters and so they could be cheaper and better for the environment. It can expect that will be great development in the future.



OLED systems can be used in television screens, computer monitors, small portable system screens such as cell phones and PDAs, advertising, information and indication. OLEDs can also be used in light sources for general space illumination, and large area light-emitting elements.

1. C. W. Tang, S. A. VanSlyke, Appl. Phys. Lett. 1987, 51, 913.

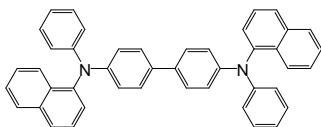
Organic Light Emitting Diode (OLED)

Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-E101 | NPB

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

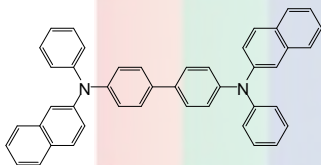
CAS No. : 123847-85-8
Grade : Sublimed, > 99.5% (HPLC)
Formula : $C_{44}H_{32}N_2$
M.W. : 588.74 g/mole
UV : 339 nm (in THF)
PL : 450 nm (in THF)
TGA : > 350 °C (0.5% weight loss)



LT-E102 | β -NPB

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

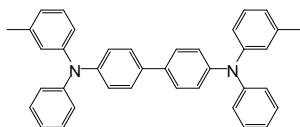
CAS No. : 139255-17-7
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{44}H_{32}N_2$
M.W. : 588.74 g/mole
UV : 349 nm (in THF)
PL : 416 nm (in THF)
TGA : > 330 °C (0.5% weight loss)



LT-E103 | TPD

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

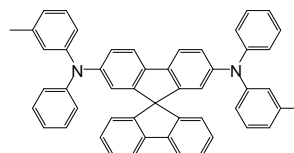
CAS No. : 65181-78-4
Grade : Sublimed, > 99.5% (HPLC)
Formula : $C_{38}H_{32}N_2$
M.W. : 516.67 g/mole
UV : 352 nm (in THF)
PL : 398 nm (in THF)
TGA : > 300 °C (0.5% weight loss)



LT-E105 | Spiro-TPD

N,N'-Bis(3-methylphenyl)-*N,N'*-bis(phenyl)-2,7-diamino-9,9-spirobifluorene

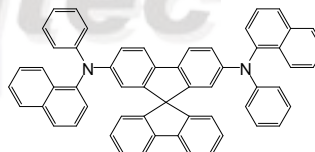
CAS No. : 1033035-83-4
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{51}H_{38}N_2$
M.W. : 678.86 g/mole
UV : 379 nm (in THF)
PL : 416 nm (in THF)
TGA : > 280 °C (0.5% weight loss)



LT-E106 | Spiro-NPB

N,N'-Bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-2,7-diamino-9,9-spirobifluorene

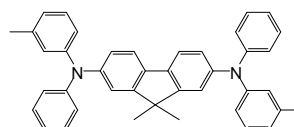
CAS No. : 932739-76-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{57}H_{38}N_2$
M.W. : 750.93 g/mole
UV : 380 nm (in THF)
PL : 453 nm (in THF)
TGA : > 390 °C (0.5% weight loss)



LT-E109 | DMFL-TPD

N,N'-Bis(3-methylphenyl)-*N,N'*-bis(phenyl)-2,7-diamino-9,9-dimethyl-fluorene

CAS No. : 677350-83-3
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{41}H_{36}N_2$
M.W. : 556.74 g/mole
UV : 376 nm (in THF)
PL : 401 nm (in THF)
TGA : > 290 °C (0.5% weight loss)



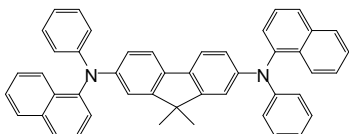
Organic Light Emitting Diode (OLED)

Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-E110 | DMFL-NPB

N,N'-Bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-2,7-diamino-9,9-dimethyl-fluorene

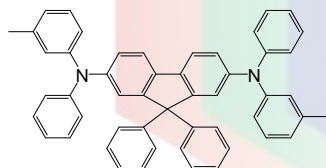
CAS No. : 1229226-27-0
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{47}H_{36}N_2$
M.W. : 628.80 g/mole
UV : 381 nm (in THF)
PL : 458 nm (in THF)
TGA : > 330 °C (0.5% weight loss)



LT-E111 | DPFL-TPD

N,N'-Bis(3-methylphenyl)-*N,N'*-bis(phenyl)-2,7-diamino-9,9-diphenyl-fluorene

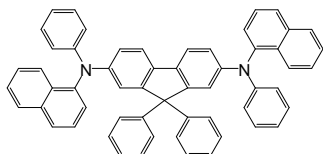
CAS No. : 206886-03-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{51}H_{40}N_2$
M.W. : 680.88 g/mole
UV : 381 nm (in THF)
PL : 410 nm (in THF)
TGA : > 320 °C (0.5% weight loss)



LT-E112 | DPFL-NPB

N,N'-Bis(naphthalen-1-yl)-*N,N'*-bis(phenyl)-2,7-diamino-9,9-diphenyl-fluorene

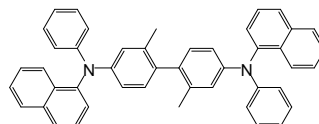
CAS No. : 357645-40-0
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{57}H_{40}N_2$
M.W. : 752.94 g/mole
UV : 371 nm (in THF)
PL : 466 nm (in THF)
TGA : > 300 °C (0.5% weight loss)



LT-E115 | α -NPD

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

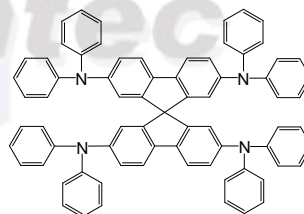
CAS No. : 495416-60-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{46}H_{36}N_2$
M.W. : 616.79 g/mole
UV : 307 nm (in THF)
PL : 447 nm (in THF)
TGA : > 310 °C (0.5% weight loss)



LT-E116 | Spiro-TAD

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

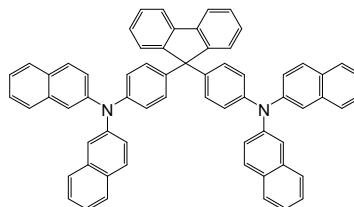
CAS No. : 189363-47-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{73}H_{52}N_4$
M.W. : 985.22 g/mole
UV : 378 nm (in THF)
PL : 415 nm (in THF)
TGA : > 290 °C (0.5% weight loss)



LT-N121 | NPAPF

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

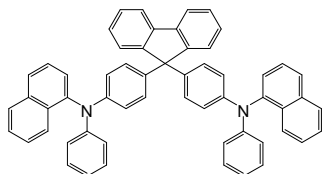
CAS No. : 916061-87-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{65}H_{44}N_2$
M.W. : 853.06 g/mole
UV : 322 nm (in THF)
PL : 418 nm (in THF)
TGA : > 400 °C (0.5% weight loss)



LT-N124 | NPBAFP

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

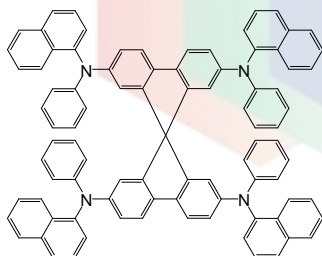
CAS No. : 510775-24-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₅₇H₄₀N₂
 M.W. : 752.94 g/mole
 UV : 304 nm (in THF)
 PL : 431 nm (in THF)
 TGA : > 320 °C (0.5% weight loss)



LT-N125 | Spiro-2NPB

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

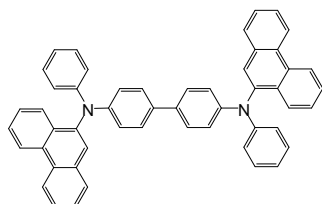
CAS No. : 404001-42-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₈₉H₆₀N₄
 M.W. : 1185.46 g/mole
 UV : 380 nm (in THF)
 PL : 484 nm (in THF)
 TGA : > 420 °C (0.5% weight loss)



LT-N131 | PAPB

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

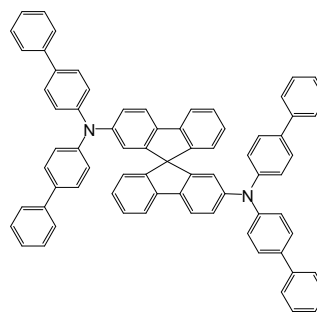
CAS No. : 934000-87-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₅₂H₃₆N₂
 M.W. : 688.86 g/mole
 UV : 336 nm (in THF)
 PL : 454 nm (in THF)
 TGA : > 410 °C (0.5% weight loss)



LT-N135 | 2,2'-Spiro-DBP

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

CAS No. : 1174006-39-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₇₃H₅₀N₂
 M.W. : 955.19 g/mole
 UV : 349 nm (in THF)
 PL : 413 nm (in THF)
 TGA : > 310 °C (0.5% weight loss)

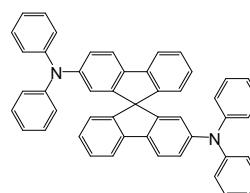


LT-N136 | Spiro-BPA

2,2'-Bis[*N,N*-di-phenyl-amino]-9,9-spirobifluorene

CAS No. : 862664-73-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₉H₃₄N₂
 M.W. : 650.81 g/mole
 UV : 348 nm (in THF)
 PL : 398 nm (in THF)
 TGA : > 310 °C (0.5% weight loss)

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

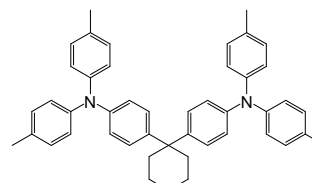


LT-N137 | TAPC

Di-[4-(*N,N*-di-*p*-tolyl-amino)-phenyl]cyclohexane

CAS No. : 58473-78-2
 Grade : Sublimed, > 99.5% (HPLC)
 Formula : C₄₆H₄₆N₂
 M.W. : 626.87 g/mole
 UV : 305 nm (in THF)
 PL : 414 nm (in THF)
 TGA : > 290 °C (0.5% weight loss)

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



Organic Light Emitting Diode (OLED)

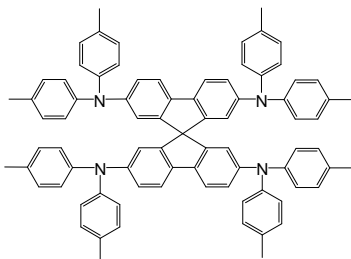
Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-N138 | Spiro-TTB

2,2',7,7'-Tetra(*N,N*-di-*p*-tolyl)amino-9,9-spirofluorene

CAS No. : 515834-67-0
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{81}H_{68}N_4$
M.W. : 1097.43 g/mole
UV : 385 nm (in THF)
PL : 418 nm (in THF)
TGA : > 360 °C (0.5% weight loss)

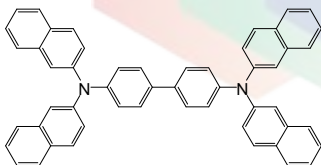
Reference : *Adv. Funct. Mater.* 2006, 16, 966-974.



LT-N139 | β -TNB

N,N,N',N'-Tetra-naphthalen-2-yl-benzidine

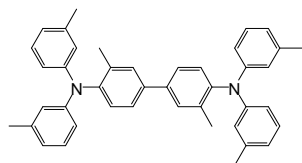
CAS No. : 141752-82-1
Grade : Sublimed, > 98% (HPLC)
Formula : $C_{52}H_{36}N_2$
M.W. : 688.86 g/mole
UV : 354 nm (in THF)
PL : 429 nm (in THF)
TGA : > 410 °C (0.5% weight loss)



LT-N140 | HMTTPD

N,N,N',N'-Tetra-(3-methylphenyl)-3,3'-dimethylbenzidine

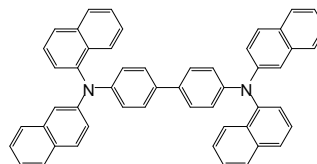
CAS No. : 105465-14-3
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{42}H_{40}N_2$
M.W. : 572.78 g/mole
UV : 302 nm (in THF)
PL : 399 nm (in THF)
TGA : > 240 °C (0.5% weight loss)



LT-N141 | α,β -TNB

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

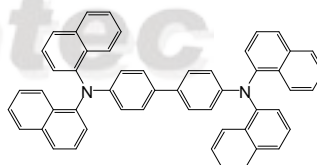
CAS No. : 374592-88-8
Grade : Sublimed, > 98% (HPLC)
Formula : $C_{52}H_{36}N_2$
M.W. : 688.86 g/mole
UV : 345 nm (in CH_2Cl_2)
PL : 462 nm (in CH_2Cl_2)
TGA : > 370 °C (0.5% weight loss)



LT-N142 | α -TNB

N,N,N',N'-Tetra-naphthalenyl-benzidine

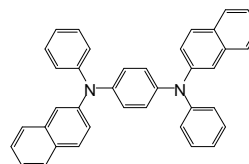
CAS No. : 186256-01-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{52}H_{36}N_2$
M.W. : 688.86 g/mole
UV : 297,362 nm (in CH_2Cl_2)
PL : 462 nm (in CH_2Cl_2)
TGA : > 360 °C (0.5% weight loss)



LT-N143 | β -NPP

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

CAS No. : 139994-47-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{38}H_{28}N_2$
M.W. : 512.64 g/mole
UV : 323 nm (in THF)
PL : 466 nm (in THF)
TGA : > 270 °C (0.5% weight loss)



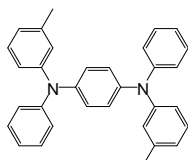
Organic Light Emitting Diode (OLED)

Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-N144 | TTP

N,N'-Diphenyl-*N,N'*-di-*m*-tolylbenzene-1,4-diamine

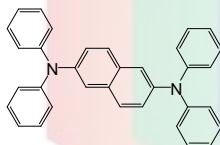
CAS No. : 80223-29-6
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{32}H_{28}N_2$
M.W. : 440.58 g/mole
UV : 314 nm (in CH_2Cl_2)
PL : 439 nm (in CH_2Cl_2)
TGA : > 270 °C (0.5% weight loss)



LT-N145 | NDDP

N,N',N'',N'''-Tetraphenylnaphthalene-2,6-diamine

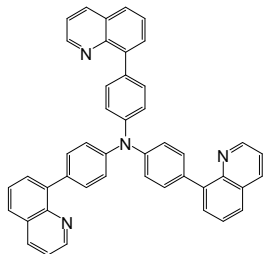
CAS No. : 111961-87-6
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{34}H_{26}N_2$
M.W. : 462.58 g/mole
UV : 312, 341 nm (in CH_2Cl_2)
PL : 438 nm (in CH_2Cl_2)
TGA : > 290 °C (0.5% weight loss)



LT-N146 | TQTPA

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

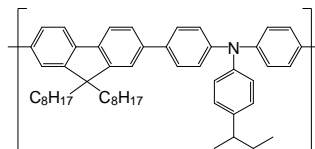
CAS No. : 1142945-07-0
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{45}H_{30}N_4$
M.W. : 626.75 g/mole
UV : 287, 368 nm (in CH_2Cl_2)
PL : 431 nm (in CH_2Cl_2)
TGA : > 390 °C (0.5% weight loss)
Reference : *Chem. Mater.* 2009, 21, 1284-1287



LT-N148 | TFB

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

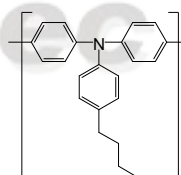
CAS No. : 220797-16-0
Grade : $M_w > 30,000$ (GPC)
Formula : $(C_{51}H_{61}N)_n$
UV : 389 nm (in CH_2Cl_2)
PL : 443 nm (in CH_2Cl_2)
Solubility : Soluble in CH_2Cl_2 , Toluene, $CHCl_3$
Reference : *Synthetic Metals* 160 (2010) 2393-2396



LT-N149 | Poly-TPD

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

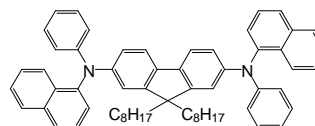
CAS No. : 472960-35-3
Grade : $M_w > 10,000$ (GPC)
Formula : $(C_{22}H_{21}N)_n$
UV : 371, 388 nm (in CH_2Cl_2)
PL : 424 nm (in CH_2Cl_2)
Solubility : Soluble in $CHCl_3$, Chlorobenzene
Reference : *J. Mater. Chem.*, 2012, 22, 22769-22773



LT-N154 | DOFL-NPB

N,N'-Di(naphthalen-1-yl)-9,9-dioctyl-*N,N'*-diphenyl-9H-fluorene-2,7-diamine

CAS No. : 870197-09-4
Grade : > 99% (HPLC)
Formula : $C_{61}H_{64}N_2$
M.W. : 825.17 g/mole
UV : 382 nm (in THF)
PL : 460 nm (in THF)
TGA : > 250 °C (0.5% weight loss)



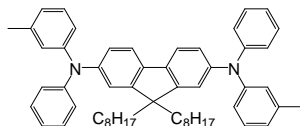
Organic Light Emitting Diode (OLED)

Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-N155 | DOFL-TPD

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

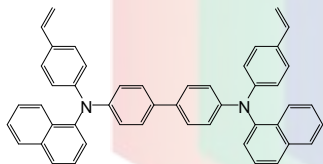
CAS No. : 439942-97-9
Grade : > 99% (HPLC)
Formula : $C_{55}H_{64}N_2$
M.W. : 753.11 g/mole
UV : 376 nm (in THF)
PL : 401 nm (in THF)
TGA : > 250 °C (0.5% weight loss)



LT-N157 | VNPB

N,N'-Di(naphthalen-1-yl)-*N,N'*-bis(4-vinylphenyl) biphenyl-4,4'-diamine

CAS No. : 1010396-31-2
Grade : > 95% (HPLC)
Formula : $C_{48}H_{36}N_2$
M.W. : 640.81 g/mole
UV : 339 nm (in THF)
PL : 450 nm (in THF)

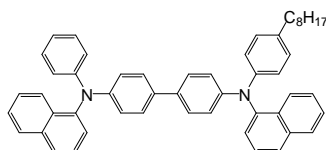


LT-N158 | ONPB

N,N'-Di(naphthalen-1-yl)-*N,N'*-(4-octylphenyl)-*N,N'*-phenylbiphenyl-4,4'-diamine

CAS No. : 1431521-16-2
Grade : > 99% (HPLC)
Formula : $C_{52}H_{48}N_2$
M.W. : 700.95 g/mole
UV : 347 nm (film)
PL : 439 nm (film)
TGA : > 300 °C (0.5% weight loss)

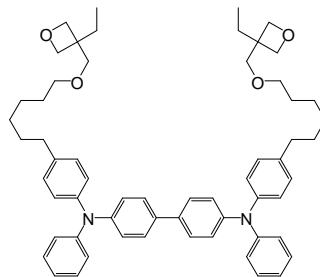
Reference : *Journal of Photopolymer Science and Technology, Vol. 25, 3(2012) 335-339*



LT-N159 | OTPD

N,N'-Bis(4-(6-((3-ethyloctan-3-yl)methoxy)hexyl)phenyl)-*N,N'*-diphenylbiphenyl-4,4'-diamine

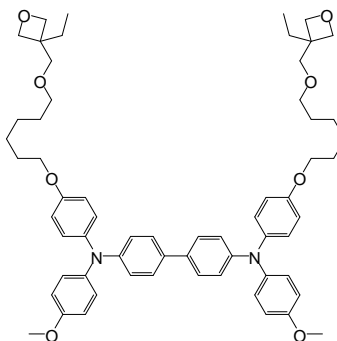
CAS No. : 746634-00-4
Grade : > 99% (HPLC)
Formula : $C_{60}H_{72}N_2O_4$
M.W. : 885.22 g/mole
UV : 308, 353 nm (in CH₂Cl₂)
PL : 410 nm (in CH₂Cl₂)
Reference : 1. *Adv. Mater. 2006, 18, 948-954*
2. *Appl. Phys. Lett. 91, 103507(2007)*



LT-N160 | QUPD

N,N'-Bis(4-(6-((3-ethyloctan-3-yl)methoxy)hexyloxy)phenyl)-*N,N'*-bis(4-methoxyphenyl)biphenyl-4,4'-diamine

CAS No. : 864130-79-0
Grade : > 99% (HPLC)
Formula : $C_{62}H_{76}N_2O_8$
M.W. : 945.28 g/mole
UV : 353 nm (in CH₂Cl₂)
PL : 439 nm (in CH₂Cl₂)
Reference : 1. *Adv. Mater. 2006, 18, 948-954*
2. *Appl. Phys. Lett. 91, 103507(2007)*



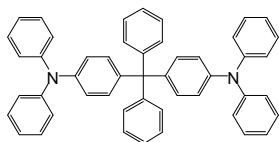
Organic Light Emitting Diode (OLED)

Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-N162 | TCBPA

4,4'-(Diphenylmethylene)bis(*N,N*-diphenylaniline)

CAS No. : 1459723-98-8
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{49}H_{38}N_2$
M.W. : 654.84 g/mole
UV : 303 nm (in CH_2Cl_2)
PL : 374 nm (in CH_2Cl_2)
TGA : > 320 °C (0.5% weight loss)

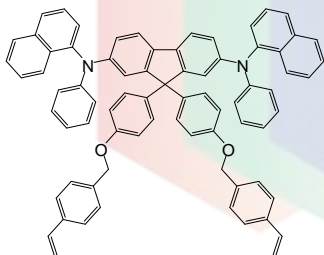


LT-N164 | VB-FNPD

9,9-Bis[4-[(4-ethenylphenyl)methoxy]phenyl]-*N,N'*-di-1-naphthalenyl-*N,N'*-diphenyl-9*H*-fluorene-2,7-diamine

CAS No. : 1173170-48-3
Grade : > 95% (HPLC)
Formula : $C_{75}H_{56}N_2O_2$
M.W. : 1017.26 g/mole
UV : 356 nm (in CH_2Cl_2)
PL : 467 nm (in CH_2Cl_2)

Reference : *J. Mater. Chem.*, 2009, 19, 3618-3623

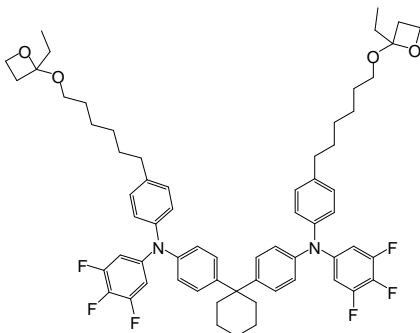


LT-N165 | X-F6-TAPC

N,N'-(4,4'-(Cyclohexane-1,1-diyl)bis(4,1-phenylene))bis(*N*-(4-(6-(2-ethyloxetan-2-yloxy)hexyl)phenyl)-3,4,5-trifluoroaniline)

Grade : > 99% (HPLC)
Formula : $C_{64}H_{72}F_6N_2O_4$
M.W. : 1047.26 g/mole
UV : 300 nm (in CH_2Cl_2)

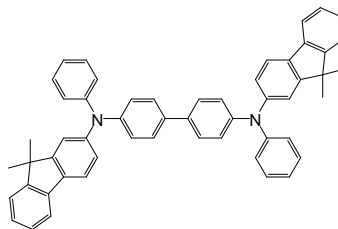
Reference : *Adv. Funct. Mater.* 2013, 23, 359-365



LT-N1002 | BF-DPB

N,N'-Bis(9,9-dimethyl-9*H*-fluorene-2-yl)-*N,N'*-diphenylbiphenyl-4,4'-diamine

CAS No. : 361486-60-4
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{54}H_{44}N_2$
M.W. : 720.94 g/mole
UV : 365 nm (in CH_2Cl_2)
PL : 418 nm (in CH_2Cl_2)
TGA : > 250 °C (0.5% weight loss)

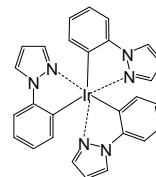


LT-N002 | Ir(ppz)₃

Tris(phenylpyrazole)iridium

CAS No. : 562824-31-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{27}H_{21}N_6Ir$
M.W. : 621.71 g/mole
UV : 242, 320 nm (in THF)
PL : 423 nm (in THF)
TGA : > 270 °C (0.5% weight loss)

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



Organic Light Emitting Diode (OLED)

Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-N177 | PFN-OX

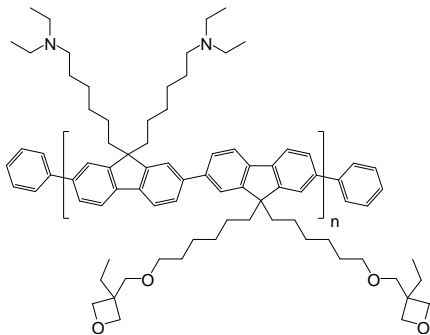
6,6'-(9',9'-Bis(6-((3-ethyloxetan-3-yl)methoxy)hexyl)-7,7'-diphenyl-9H,9'H-2,2'-bifluorene-9,9-diyl)bis(N,N-diethylhexan-1-amine)

CAS No. : 1345045-27-3

Grade : $M_w > 20,000$ (GPC)

Formula : $(C_{70}H_{102}N_2O_4)_n C_{12}H_{10}$

Reference : *J. Mater. Chem. C*, 2014, 2, 3270-3277



LT-N178 | TBA

Tri(biphenyl-4-yl)amine

CAS No. : 6543-20-0

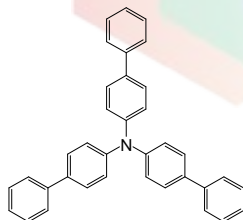
Grade : > 99% (HPLC)

Formula : $C_{36}H_{27}N$

M.W. : 473.61 g/mole

TGA : > 150 °C (0.5% weight loss)

Reference : *Australian Journal of Chemistry* (2009), 62(5), 483-492



LT-N179 | TFIA

Tris(9,9-dimethylfluorene-2-yl)amine

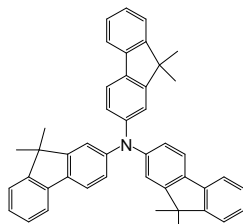
CAS No. : 1303951-71-4

Grade : > 99% (HPLC)

Formula : $C_{45}H_{39}N$

M.W. : 593.8 g/mole

TGA : > 150 °C (0.5% weight loss)



LT-N180 | Spiro-mTTB

2,2',7,7'-Octa(m-tolylamine)-9,9-spirobifluorene

CAS No. : 302344-41-8

Grade : > 99% (HPLC)

Formula : $C_{81}H_{68}N_4$

M.W. : 1097.43 g/mole

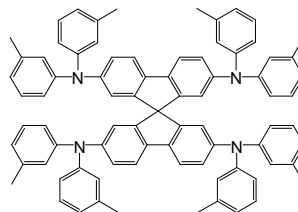
UV : 378 nm (in THF)

PL : 415 nm (in THF)

TGA : > 220 °C (0.5% weight loss)

Reference : 1. *J. Appl. Phys.* 100, 064507 (2006)

2. *Synthetic Metals*, 148 (2005) 205-211



LT-N181 | PFNIBT

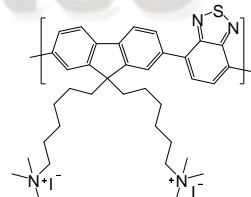
Poly(9,9-bis(6-trimethyl ammoniumiodide)-hexylfluorene-2,7-diyl-*alt*(benzo[2,1,3]thiadiazol-4,7-diyl))

Grade : $M_w > 20,000$ (GPC)

Formula : $(C_{37}H_{50}I_2N_4S)_n$

M.W. : 670.91 g/mole

Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene



LT-N182 | TSBPA

4,4'-(Diphenylsilylanyldiyl)bis(N,N-diphenylamine)

CAS No. : 205327-13-5

Grade : > 99% (HPLC)

Formula : $C_{48}H_{38}N_2Si$

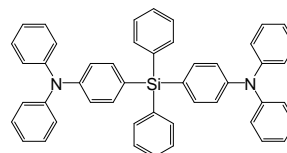
M.W. : 670.91 g/mole

UV : 309 nm (in CH_2Cl_2)

PL : 376 nm (in CH_2Cl_2)

TGA : > 180 °C (0.5% weight loss)

Reference : *Synthetic Metals* (2013), 167, 1-4



Organic Light Emitting Diode (OLED)

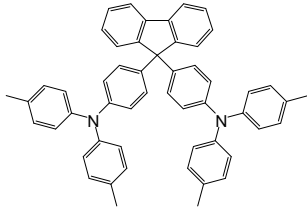
Hole Transport Layer / Electron Blocking Layer (HTL/EBL) Materials

LT-N183 | DTAF

4,4'-(9H-fluoren-9-ylidene)bis[N,N-bis(4-methylphenyl)-benzenamine]

CAS No. : 159526-57-5
Grade : Sublimed, > 99% (HPLC)
Formula : C₅₃H₄₄N₂
M.W. : 708.93 g/mole
UV : 304 nm (in THF)
PL : 431 nm (in THF)
TGA : > 300 °C (0.5% weight loss)

Reference : *Dalton Transactions (2015), 44(33), 14613-14624*



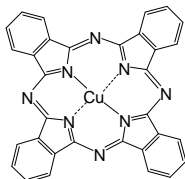
Organic Light Emitting Diode (OLED)

Hole Injection Layer(HIL) Materials

LT-E201 | CuPC

Copper(II) phthalocyanine

CAS No. : 147-14-8
Grade : Sublimed, > 99%
Formula : $C_{24}H_{16}N_8Cu$
M.W. : 576.07 g/mole
UV : 345, 631 nm (in CH_2Cl_2)
PL : 404 nm (film)
TGA : > 430 °C (0.5% weight loss)

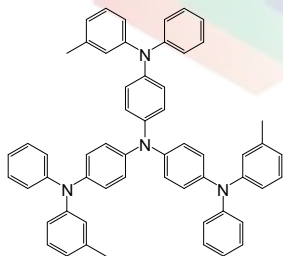


LT-E202 | m-MTDATA

4,4',4'' -Tris(N-3-methylphenyl-N-phenyl-amino) triphenylamine

CAS No. : 124729-98-2
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{57}H_{48}N_4$
M.W. : 789.02 g/mole
UV : 312, 342 nm (in THF)
PL : 425 nm (in THF)
TGA : > 350 °C (0.5% weight loss)

Reference : 1. *Journal of Nanoscience and Nanotechnology* (2014), 14(8), 6404-6408
2. *Applied Mechanics and Materials* (2014), 536-537

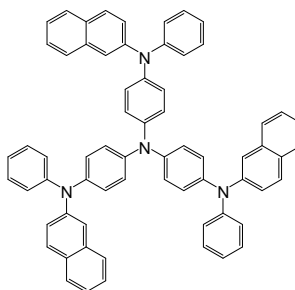


LT-E203 | 2T-NATA

4,4',4'' -Tris(N-(naphthalen-2-yl)-N-phenyl-amino) triphenylamine

CAS No. : 185690-41-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{66}H_{48}N_4$
M.W. : 897.11 g/mole
UV : 326 nm (in THF)
PL : 490 nm (in THF)
TGA : > 350 °C (0.5% weight loss)

Reference : 1. *Journal of Nanoscience and Nanotechnology* (2014), 14(8), 6404-6408
2. *Synthetic Metals* (2015), 203, 174-179

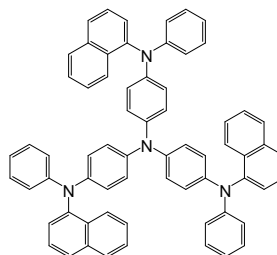


LT-E204 | 1T-NATA

4,4',4'' -Tris(N-(naphthalen-1-yl)-N-phenyl-amino) triphenylamine

CAS No. : 185690-39-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{66}H_{48}N_4$
M.W. : 897.11 g/mole
UV : 339 nm (in THF)
PL : 518 nm (in THF)
TGA : > 350 °C (0.5% weight loss)

Reference : 1. *Advanced Materials* (Weinheim, Germany) (2014), 26(6), 878-885
2. *Organic Electronics* (2010), 11(4), 564-572

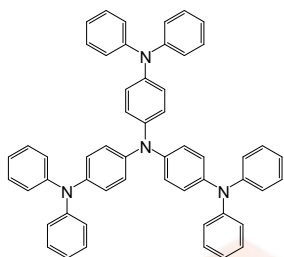


LT-E205 | NATA

4,4',4'' -Tris(*N,N*-diphenyl-amino)triphenylamine

CAS No. : 105389-36-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{54}H_{42}N_4$
 M.W. : 746.94 g/mole
 UV : 341 nm (in THF)
 PL : 424 nm (in THF)
 TGA : > 350 °C (0.5% weight loss)

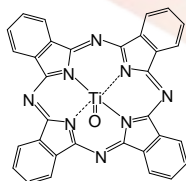
Reference : 1. *Applied Physics Letters* (2004), 85(21), 4848-4850
 2. *Advanced Functional Materials* (2001), 11(4), 310-314



LT-E206 | TiOPC

Titanium(IV) oxide phthalocyanine

CAS No. : 26201-32-1
 Grade : Sublimed, > 99%
 Formula : $C_{32}H_{16}N_8O_4Ti$
 M.W. : 576.39 g/mole
 UV : 349, 689 nm (in CH_2Cl_2)
 PL : 392 nm (in film)
 TGA : > 440 °C (0.5% weight loss)

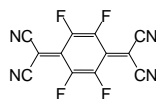


LT-E208 | F4-TCNQ

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

CAS No. : 29261-33-4
 Grade : Sublimed, > 99%
 Formula : $C_{12}F_4N_4$
 M.W. : 276.15 g/mole
 UV : 339 nm (in THF)
 PL : 402 nm (in THF)
 TGA : > 210 °C (0.5% weight loss)

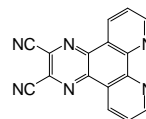
Reference : *J. Appl. Phys.* 103, 043105(2008)



LT-N211 | PPDN

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

CAS No. : 215611-93-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{16}H_6N_6$
 M.W. : 282.26 g/mole
 UV : 307 nm (in CH_2Cl_2)
 PL : 487 nm (in CH_2Cl_2)
 TGA : > 270 °C (0.5% weight loss)

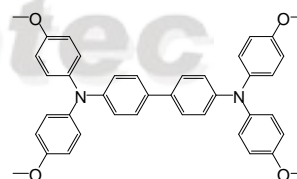


LT-N212 | MeO-TPD

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

CAS No. : 244260-36-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{40}H_{36}N_2O_4$
 M.W. : 608.72 g/mole
 UV : 302, 351 nm (in THF)
 PL : 429 nm (in THF)
 TGA : > 300 °C (0.5% weight loss)

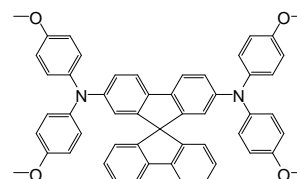
Reference : 1. *J. Appl. Phys.* 100, 064507(2006)
 2. *Synthetic Metals*, 148(2005)205-211



LT-N213 | MeO-Spiro-TPD

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

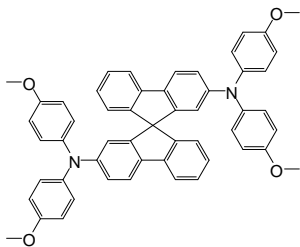
CAS No. : 1138220-69-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{53}H_{42}N_2O_4$
 M.W. : 770.91 g/mole
 UV : 306, 386 nm (in THF)
 PL : 428 nm (in THF)
 TGA : > 330 °C (0.5% weight loss)



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

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

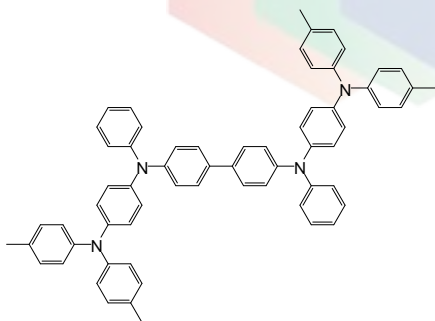
CAS No. : 1174006-40-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{53}H_{42}N_2O_4$
 M.W. : 770.91 g/mole
 UV : 348 nm (in CH_2Cl_2)
 PL : 442 nm (in CH_2Cl_2)
 TGA : > 350 °C (0.5% weight loss)



LT-N215 | NTNPB

N,N'-Diphenyl-*N,N'*-di-[4-(*N,N*-di-*p*-tolyl-amino)phenyl]benzidine

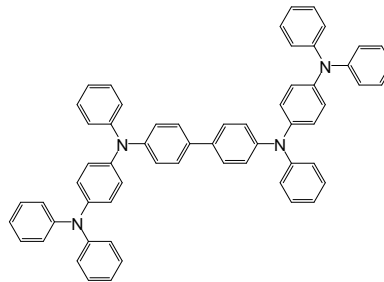
CAS No. : 1394130-64-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{64}H_{54}N_4$
 M.W. : 879.14 g/mole
 UV : 327 nm (in THF)
 PL : 458 nm (in THF)
 TGA : > 350 °C (0.5% weight loss)



LT-N216 | NPNPB

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

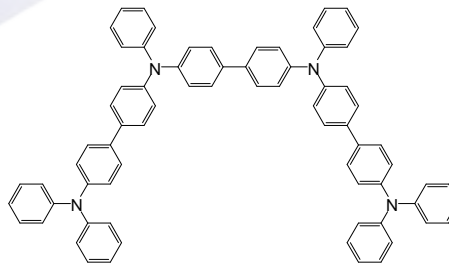
CAS No. : 936355-01-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{60}H_{46}N_4$
 M.W. : 823.03 g/mole
 UV : 324 nm (in THF)
 PL : 451 nm (in THF)
 TGA : > 370 °C (0.5% weight loss)



LT-N218 | TPT1

N,N'-(Biphenyl-4,4'-diyl)bis(*N,N'*-*N'*-triphenylbiphenyl-4,4'-diamine)

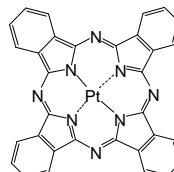
CAS No. : 167218-46-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{72}H_{54}N_4$
 M.W. : 975.23 g/mole
 UV : 394 nm (in CH_2Cl_2)
 PL : 419 nm (in CH_2Cl_2)
 TGA : > 370 °C (0.5% weight loss)



LT-N219 | PtPC

Platinum(II) phthalocyanine

CAS No. : 14075-08-2
 Grade : Sublimed, > 99%
 Formula : $C_{32}H_{16}N_8Pt$
 M.W. : 707.60 g/mole
 UV : 228, 270 nm (in CH_2Cl_2)
 PL : 372.5 nm (in CH_2Cl_2)
 TGA : > 460 °C (0.5% weight loss)

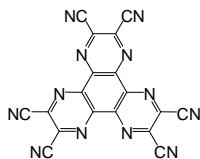


LT-N221 | HAT-CN

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

CAS No. : 105598-27-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₁₈N₁₂
 M.W. : 384.27 g/mole
 UV : 282, 321 nm (in CH₂Cl₂)
 PL : 422 nm (in CH₂Cl₂)
 TGA : > 400 °C (0.5% weight loss)

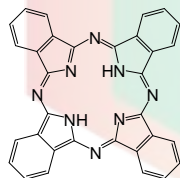
Reference : *J. Mater. Chem. C*, 2013, 1, 3967–3975



LT-N222 | H₂PC

Phthalocyanine

CAS No. : 574-93-6
 Grade : Sublimed product
 Formula : C₃₂H₁₈N₈
 M.W. : 514.54 g/mole
 UV : 268, 691 nm (in CH₂Cl₂)
 PL : 415 nm (in CH₂Cl₂)
 TGA : > 350 °C (0.5% weight loss)

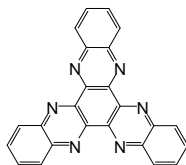


LT-N224 | HATNA

Diquinoxalino[2,3-*a*:2',3'-*c*]phenazine

CAS No. : 214-83-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₂₄H₁₂N₆
 M.W. : 384.39 g/mole
 UV : 295, 378 nm (in CH₂Cl₂)
 PL : 594 nm (in CH₂Cl₂)
 TGA : > 340 °C (0.5% weight loss)

Reference : *Chem. Eur. J.* 2007, 13, 3537 – 3547

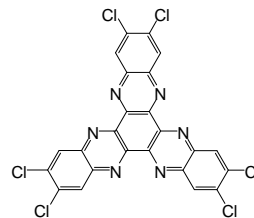


LT-N225 | HATNA-Cl6

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

CAS No. : 389121-44-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₂₄H₆N₆Cl₆
 M.W. : 591.06 g/mole
 UV : 305 nm (in CH₂Cl₂)
 PL : 425 nm (in CH₂Cl₂)
 TGA : > 350 °C (0.5% weight loss)

Reference : *Chem. Eur. J.* 2007, 13, 3537 – 3547

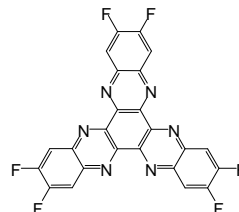


LT-N226 | HATNA-F6

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

CAS No. : 872140-95-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₂₄H₆N₆F₆
 M.W. : 492.34 g/mole
 UV : 285 nm (in CH₂Cl₂)
 PL : 427 nm (in CH₂Cl₂)

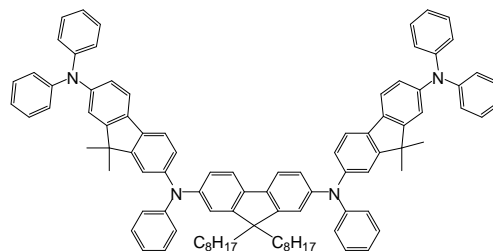
Reference : *Chem. Eur. J.* 2007, 13, 3537 – 3547



LT-N260 | 3FTPD-C8

N,N'-(9,9-Dioctyl-9H-fluorene-2,7-diyl)bis(9,9-dimethyl-*N,N'*-triphenyl-9H-fluorene-2,7-diamine)

Grade : > 97% (HPLC)
 Formula : C₉₅H₉₄N₄
 M.W. : 1291.79 g/mole
 UV : 378 nm (in CH₂Cl₂)
 PL : 426 nm (in CH₂Cl₂)



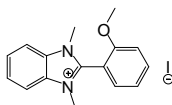
Organic Light Emitting Diode (OLED)

Hole Injection Layer(HIL) Materials

LT-N261 | MeOPBI

2-(2-Methoxyphenyl)-1,3-dimethyl-1H-benzimidazol-3-ium iodide

Grade : > 99%
Formula : $C_{16}H_{17}IN_2O$
M.W. : 380.22 g/mole

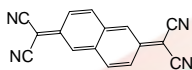


LT-N262 | TNAP

2,2'-(Naphthalene-2,6-diylidene)dimalononitrile

CAS No. : 6251-01-0
Grade : > 99%
Formula : $C_{16}H_6N_4$
M.W. : 254.25 g/mole
TGA : > 150 °C (0.5% weight loss)

Reference : *Journal of Physical Chemistry C* (2014), 118(10), 5284-5293

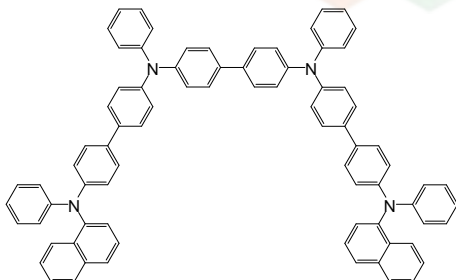


LT-N2001 | Di-NPB

N^2,N^2 -(Biphenyl-4,4'-diyl)bis(N^1 -(naphthalen-1-yl)- N^4,N^4 -diphenylbiphenyl-4,4'-diamine)

CAS No. : 292827-46-4
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{80}H_{58}N_4$
M.W. : 1075.34 g/mole
TGA : > 300 °C (0.5% weight loss)

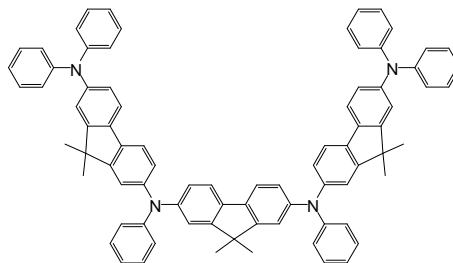
Reference : *Adv. Funct. Mater.*2012, 22,(2),405-414



LT-N2002 | 3DMFL-BPA

N^2,N^2 -(9,9-Dimethyl-9H-fluorene-2,7-diyl)bis(9,9-dimethyl- N^2,N^2,N^2 -triphenyl-9H-fluorene-2,7-diamine)

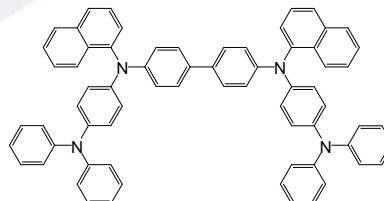
CAS No. : 354987-71-6
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{81}H_{66}N_4$
M.W. : 1095.42 g/mole
UV : 378 nm (in CH_2Cl_2)
PL : 426 nm (in CH_2Cl_2)
TGA : > 300 °C (0.5% weight loss)



LT-N2003 | NPB-DPA

N^2,N^2 -(Biphenyl-4,4'-diyl)bis(N^1 -(naphthalen-1-yl)- N^4,N^4 -diphenylbenzene-1,4-diamine)

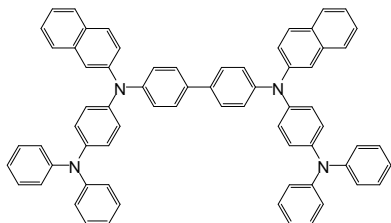
CAS No. : 910058-11-6
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{68}H_{50}N_4$
M.W. : 923.15 g/mole
UV : 311, 355 nm (in CH_2Cl_2)
PL : 516 nm (in CH_2Cl_2)
TGA : > 300 °C (0.5% weight loss)



LT-N2004 | β -NPB-DPA

N,N'-(Biphenyl-4,4'-diyl)bis(*N'*-(naphthalen-2-yl)-*N,N'*-diphenylbenzene-1,4-diamine)

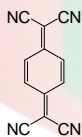
CAS No. : 1207378-72-0
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{68}H_{50}N_4$
M.W. : 923.15 g/mole
UV : 311, 355 nm (in CH_2Cl_2)
PL : 516 nm (in CH_2Cl_2)
TGA : > 300 °C (0.5% weight loss)



LT-S973 | TCNQ

7,7,8,8-Tetracyanoquinodimethane

CAS No. : 1518-16-7
Grade : Sublimed, > 99%
Formula : $C_{12}H_4N_4$
M.W. : 204.19 g/mole
UV : 259, 404 nm (in CH_2Cl_2)
TGA : > 210 °C (0.5% weight loss)



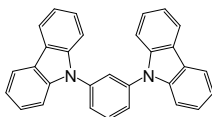
Organic Light Emitting Diode (OLED)

Phosphorescent Host Materials

LT-E107 | MCP

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

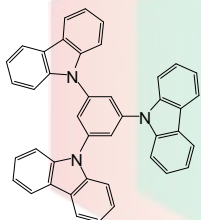
CAS No.	: 550378-78-4
Grade	: Sublimed, > 99.5% (HPLC)
Formula	: $C_{30}H_{20}N_2$
M.W.	: 408.49 g/mole
UV	: 292, 338 nm (in THF)
PL	: 360 nm (in THF)
TGA	: > 250 °C (0.5% weight loss)



LT-E108 | TCP

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

CAS No.	: 148044-07-9
Grade	: Sublimed, > 99% (HPLC)
Formula	: $C_{42}H_{27}N_3$
M.W.	: 573.68 g/mole
UV	: 292, 337 nm (in THF)
PL	: 358 nm (in THF)
TGA	: > 310 °C (0.5% weight loss)

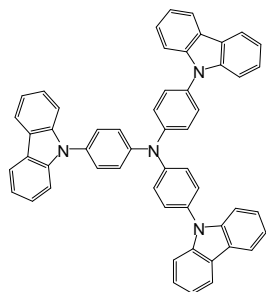


LT-E207 | TcTa

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

CAS No.	: 139092-78-7
Grade	: Sublimed, > 99.5% (HPLC)
Formula	: $C_{54}H_{36}N_4$
M.W.	: 740.89 g/mole
UV	: 293, 326 nm (in THF)
PL	: 385 nm (in THF)
TGA	: > 410 °C (0.5% weight loss)

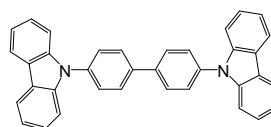
Reference: *Physical Chemistry Chemical Physics* (2013), 15(38), 15850-15855.



LT-E409 | CBP

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

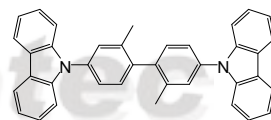
CAS No.	: 58328-31-7
Grade	: Sublimed, > 99.5% (HPLC)
Formula	: $C_{36}H_{24}N_2$
M.W.	: 484.59 g/mole
UV	: 292, 318 nm (in THF)
PL	: 369 nm (in THF)
TGA	: > 320 °C (0.5% weight loss)



LT-E414 | CDBP

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

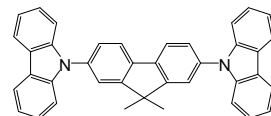
CAS No.	: 120260-01-7
Grade	: Sublimed, > 99% (HPLC)
Formula	: $C_{38}H_{28}N_2$
M.W.	: 512.64 g/mole
UV	: 292, 340 nm (in THF)
PL	: 349, 364 nm (in THF)
TGA	: > 280 °C (0.5% weight loss)



LT-N415 | DMFL-CBP

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

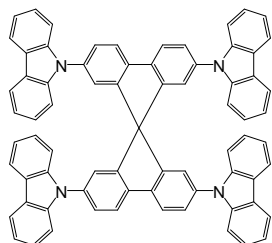
CAS No.	: 226958-06-1
Grade	: Sublimed, > 99% (HPLC)
Formula	: $C_{39}H_{28}N_2$
M.W.	: 524.65 g/mole
UV	: 293, 341 nm (in THF)
PL	: 363 nm (in THF)
TGA	: > 330 °C (0.5% weight loss)



LT-N416 | Spiro-CBP

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

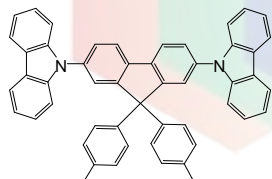
CAS No. : 214078-86-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{23}H_{44}N_4$
 M.W. : 376.52 g/mole
 UV : 292, 342 nm (in THF)
 PL : 370 nm (in THF)
 TGA : > 480 °C (0.5% weight loss)



LT-N418 | DPFL-CBP

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

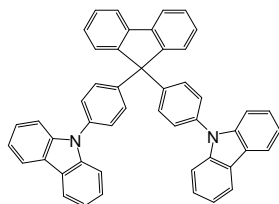
CAS No. : 1174006-50-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{51}H_{36}N_2$
 M.W. : 676.84 g/mole
 UV : 293, 344 nm (in THF)
 PL : 367 nm (in THF)
 TGA : > 330 °C (0.5% weight loss)



LT-N419 | FL-2CBP

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

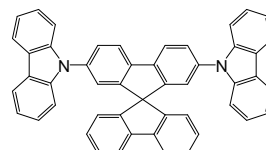
CAS No. : 1431945-64-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{49}H_{32}N_2$
 M.W. : 648.79 g/mole
 UV : 292, 340 nm (in THF)
 PL : 364 nm (in THF)
 TGA : > 370 °C (0.5% weight loss)



LT-N420 | Spiro-2CBP

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

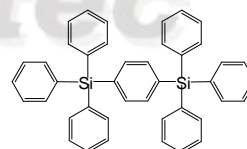
CAS No. : 924899-38-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{49}H_{30}N_2$
 M.W. : 646.78 g/mole
 UV : 293,343 nm (in THF)
 PL : 367 nm (in THF)
 TGA : > 360 °C (0.5% weight loss)



LT-N448 | UGH-2

1,4-Bis(triphenylsilyl)benzene

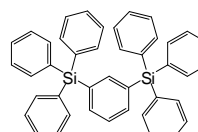
CAS No. : 40491-34-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{34}Si_2$
 M.W. : 594.89 g/mole
 UV : 265 nm (in CH_2Cl_2)
 PL : 296 nm (in CH_2Cl_2)
 TGA : > 270 °C (0.5% weight loss)
 Reference : 1. *Applied Physics Letters*, 86, 263502 (2005)
 2. *Chem. Mater.* 2004, 16, 4743-4747



LT-N449 | UGH-3

1,3-Bis(triphenylsilyl)benzene

CAS No. : 18920-16-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{34}Si_2$
 M.W. : 594.89 g/mole
 UV : 265 nm (in THF)
 PL : 301, 418 nm (in THF)
 TGA : > 270 °C (0.5% weight loss)
 Reference : *Chem. Mater.* 2004, 16, 4743-4747



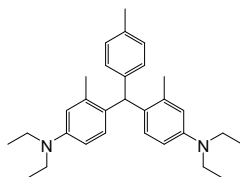
Organic Light Emitting Diode (OLED)

Phosphorescent Host Materials

LT-N450 | MPMP

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

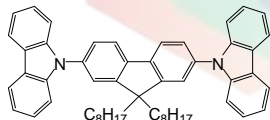
CAS No. : 70895-80-6
Grade : > 99% (HPLC)
Formula : $C_{30}H_{40}N_2$
M.W. : 428.65 g/mole
UV : 272, 309 nm (in THF)
PL : 349 nm (in THF)
TGA : > 190 °C (0.5% weight loss)
Reference : 1. *Appl. Phys. Lett.* Vol. 85, No. 21, 22 November 2004
2. *Appl. Phys. Lett.* 87, 193501 (2005)



LT-N451 | DOFL-CBP

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

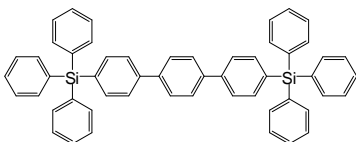
CAS No. : 848900-30-1
Grade : > 99% (HPLC)
Formula : $C_{53}H_{56}N_2$
M.W. : 721.03 g/mole
UV : 292, 340 nm (in THF)
PL : 362 nm (in THF)
TGA : > 310 °C (0.5% weight loss)
Reference : *Chem. Mater.* 2004, 16, 4743-4747



LT-N482 | BST

4,4''-Di(triphenylsilyl)-*p*-terphenyl

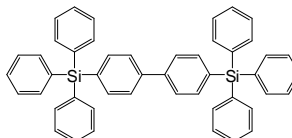
CAS No. : 1046146-39-7
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{54}H_{42}Si_2$
M.W. : 747.08 g/mole
UV : 296 nm (in CH_2Cl_2)
PL : 358 nm (in CH_2Cl_2)
TGA : > 360 °C (0.5% weight loss)
Reference : *Adv. Funct. Mater.* 2008, 18, 485



LT-N483 | BSB

4,4'-Di(triphenylsilyl)-biphenyl

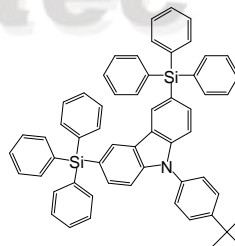
CAS No. : 18826-13-6
Grade : Sublimed, > 99%
Formula : $C_{48}H_{36}Si_2$
M.W. : 670.99 g/mole
UV : 271 nm (in CH_2Cl_2)
PL : 432 nm (in CH_2Cl_2)
TGA : > 320 °C (0.5% weight loss)
Reference : *Adv. Funct. Mater.* 2008, 18, 485



LT-N484 | CzSi

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

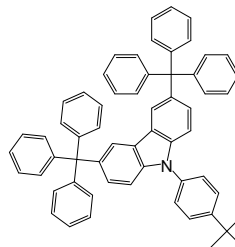
CAS No. : 898546-82-2
Grade : Sublimed, > 99%
Formula : $C_{58}H_{48}NSi_2$
M.W. : 816.19 g/mole
UV : 275,301 nm (in CH_2Cl_2)
PL : 354 nm (in CH_2Cl_2)
TGA : > 320 °C (0.5% weight loss)
Reference : *Adv. Mater.* 2006, 18, 1216



LT-N485 | CzC

9-(4-*tert*-Butylphenyl)-3,6-ditriptyl-9*H*-carbazole

CAS No. : 956373-04-9
Grade : Sublimed, > 99%
Formula : $C_{60}H_{49}N$
M.W. : 784.04 g/mole
UV : 277,305 nm (in CH_2Cl_2)
PL : 369 nm (in CH_2Cl_2)
TGA : > 330 °C (0.5% weight loss)
Reference : *Appl. Mater. Interfaces*, 2009, 1(3), 567-574

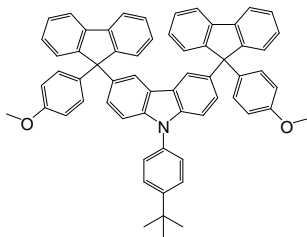


LT-N486 | DFC

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

CAS No. : 871018-07-4
 Grade : Sublimed, > 99%
 Formula : C₆₂H₄₉NO₂
 M.W. : 840.06 g/mole
 UV : 341, 355 nm (in CH₂Cl₂)
 PL : 366 nm (in CH₂Cl₂)
 TGA : > 400 °C (0.5% weight loss)

Reference : *Org. Lett.*, Vol. 7, No. 24, 2005

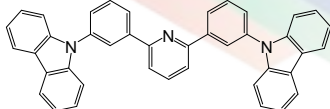


LT-N491 | 26DCzPPy

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

CAS No. : 1013405-24-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₁H₂₇N₃
 M.W. : 561.67 g/mole
 UV : 239, 292 nm (in CH₂Cl₂)
 PL : 410 nm (in CH₂Cl₂)
 TGA : > 370 °C (0.5% weight loss)

Reference : *Chem. Mater.* 2008, 20, 1691–1693

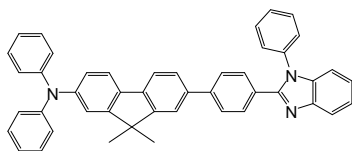


LT-N493 | EFIN

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

CAS No. : 1705571-72-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₆H₃₅N₃
 M.W. : 629.79 g/mole
 UV : 370 nm (in CH₂Cl₂)
 PL : 428 nm (in CH₂Cl₂)
 TGA : > 320 °C (0.5% weight loss)

Reference : *Advanced Functional Materials* (2009), 19, (16), 2661–2670

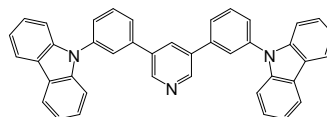


LT-N494 | 35DCzPPy

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

CAS No. : 1013405-25-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₁H₂₇N₃
 M.W. : 561.67 g/mole
 UV : 307, 317 nm (in CH₂Cl₂)
 PL : 347 nm (in CH₂Cl₂)
 TGA : > 290 °C (0.5% weight loss)

Reference : *Chem. Mater.* 2008, 20, 1691–1693

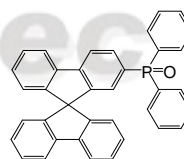


LT-N496 | SPPO1

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

CAS No. : 1125547-88-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₇H₂₅OP
 M.W. : 516.57 g/mole
 UV : 307, 317 nm (in CH₂Cl₂)
 PL : 346 nm (in CH₂Cl₂)
 TGA : > 290 °C (0.5% weight loss)

Reference : *Appl. Phys. Lett.* 94, 013301 2009

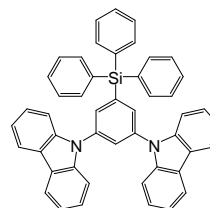


LT-N497 | SimCP

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

CAS No. : 850221-63-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₈H₃₄N₂Si
 M.W. : 666.88 g/mole
 UV : 293, 312, 345 nm (in THF)
 PL : 446 nm (in THF)
 TGA : > 300 °C (0.5% weight loss)

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



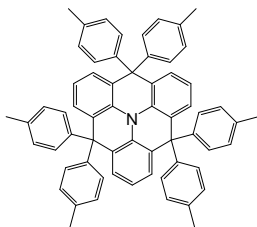
Organic Light Emitting Diode (OLED)

Phosphorescent Host Materials

LT-N499 | FATPA

4,4,8,8,-12,12-Hexa-*p*-tolyl-4*H*-8*H*-12*H*-12*C*-aza-dibenzo[*cd,mn*]pyrene

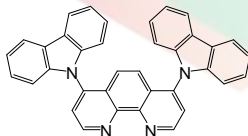
CAS No. : 1131007-94-7
Grade : Sublimed, > 99% (HPLC)
Formula : C₆₃H₅₁N
M.W. : 822.09 g/mole
UV : 311 nm (in Toluene)
PL : 375 nm (in Toluene)
TGA : > 320 °C (0.5% weight loss)
Reference : *Org. Lett., Vol. 11, No. 7, 2009, 1503-1506*



LT-N4001 | BUPH1

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

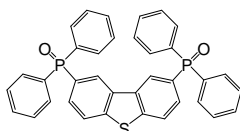
CAS No. : 676542-82-8
Grade : Sublimed, > 99% (HPLC)
Formula : C₃₆H₂₂N₄
M.W. : 510.59 g/mole
UV : 280, 335, 364 nm (in THF)
PL : 425 nm (in THF)
TGA : > 340 °C (0.5% weight loss)
Reference : *Appl. Mater. 2009, 21, 688-692*



LT-N4006 | PPT

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

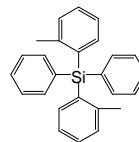
CAS No. : 1019842-99-9
Grade : Sublimed, > 99% (HPLC)
Formula : C₃₆H₂₆O₂P₂S
M.W. : 584.60 g/mole
UV : 315, 328 nm (in CH₂Cl₂)
PL : 351 nm (in CH₂Cl₂)
TGA : > 320 °C (0.5% weight loss)
Reference : *J. Mater. Chem., 2011, 21, 14604-14609*



LT-N4008 | UGH-1

Bis(2-methylphenyl)diphenylsilane

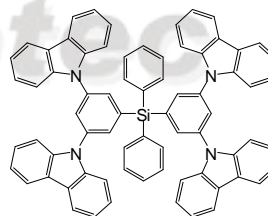
CAS No. : 18849-24-6
Grade : Sublimed, > 99% (HPLC)
Formula : C₂₆H₂₄Si
M.W. : 364.55 g/mole
UV : 265 nm (in CH₂Cl₂)
PL : 298 nm (in CH₂Cl₂)
Reference : *Chem. Mater., 2004, 16, 4743-4747*



LT-N4009 | SimCP2

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

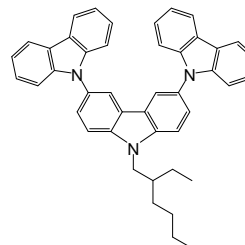
CAS No. : 944465-42-3
Grade : Sublimed, > 99% (HPLC)
Formula : C₇₂H₄₈N₄Si
M.W. : 977.26 g/mole
UV : 324, 338 nm (in CH₂Cl₂)
PL : 362 nm (in CH₂Cl₂)
TGA : > 380 °C (0.5% weight loss)
Reference : *J. Mater. Chem. 2010, 20, 8411-8416*



LT-N4010 | TCz1

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

CAS No. : 1021423-90-4
Grade : Sublimed, > 99% (HPLC)
Formula : C₄₄H₃₉N₃
M.W. : 609.8 g/mole
UV : 293 nm (in CH₂Cl₂)
PL : 396 nm (in CH₂Cl₂)
TGA : > 280 °C (0.5% weight loss)
Reference : *Appl. Phys. Lett., 96, 093304, 2010*

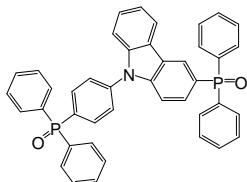


LT-N4011 | PPO21

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

CAS No. : 1226860-68-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{31}NO_2P_2$
 M.W. : 643.65 g/mole
 UV : 294, 338 nm (in CH_2Cl_2)
 PL : 361 nm (in THF)
 TGA : > 300 °C (0.5% weight loss)

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

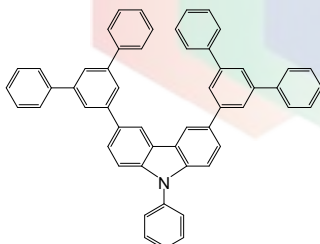


LT-N4012 | CzTP

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

CAS No. : 1201649-79-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{54}H_{37}N$
 M.W. : 699.88 g/mole
 UV : 260 nm (in CH_2Cl_2)
 PL : 390 nm (in CH_2Cl_2)
 TGA : > 360 °C (0.5% weight loss)

Reference : *Chem. Commun.* 2009, 6655-6657

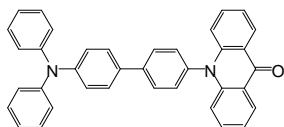


LT-N4014 | ADBP

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

CAS No. : 1188546-10-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{37}H_{26}N_2O$
 M.W. : 514.62 g/mole
 UV : 375, 394 nm (in CH_2Cl_2)
 PL : 408 nm (in CH_2Cl_2)
 TGA : > 310 °C (0.5% weight loss)

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

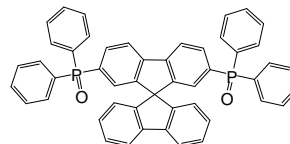


LT-N4015 | SPPO13

2,7-Bis(diphenylphosphoryl)-9,9'-spirobifluorene

CAS No. : 1234510-13-4
 Grade : > 99% (HPLC)
 Formula : $C_{49}H_{34}O_2P_2$
 M.W. : 716.74 g/mole
 UV : 282 nm (in CH_2Cl_2)
 PL : 373 nm (in CH_2Cl_2)
 TGA : > 330 °C (0.5% weight loss)

Reference : *Thin Solid Films* 519 (2010) 906-910

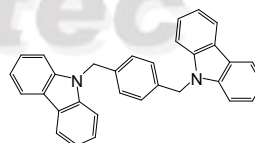


LT-N4016 | DCB

1,4-Bis[(9H-carbazol-9-yl)methyl]benzene

CAS No. : 166256-60-6
 Grade : > 99% (HPLC)
 Formula : $C_{32}H_{24}N_2$
 M.W. : 436.55 g/mole
 UV : 293 nm (in CH_2Cl_2)
 PL : 351, 366 nm (in CH_2Cl_2)
 TGA : > 230 °C (0.5% weight loss)

Reference : *Appl. Phys.* 41 (2008) 105114-105117

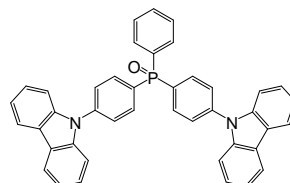


LT-N4017 | BCPO

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

CAS No. : 1233407-28-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{29}N_2OP$
 M.W. : 608.67 g/mole
 UV : 292 nm (in CH_2Cl_2)
 PL : 391 nm (in CH_2Cl_2)
 TGA : > 360 °C (0.5% weight loss)

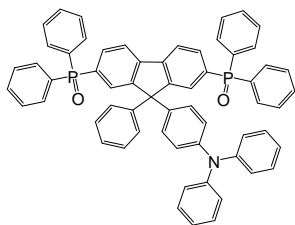
Reference : *Adv. Mater.* 2010, 22, 2468-2471



LT-N4018 | POAPF

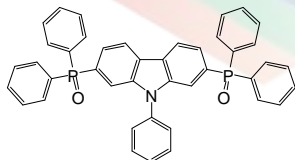
2,7-Bis(diphenylphosphoryl)-9-(4-diphenylamino)phenyl-9'-phenyl-fluorene

CAS No. : 1198361-98-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{61}H_{45}NO_2P_2$
 M.W. : 885.96 g/mole
 UV : 293, 315 nm (in CH_2Cl_2)
 PL : 383 nm (in CH_2Cl_2)
 TGA : > 350 °C (0.5% weight loss)
 Reference : *Advanced Functional Materials* (2009), 19, (17), 2834-2843

**LT-N4025** | PPO27

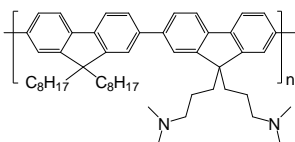
2,7-Bis(diphenylphosphoryl)-9-phenyl-9H-carbazole

CAS No. : 1299463-56-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{31}NO_2P_2$
 M.W. : 643.65 g/mole
 UV : 257, 309 nm (in CH_2Cl_2)
 PL : 386 nm (in CH_2Cl_2)
 TGA : > 350 °C (0.5% weight loss)
 Reference : *J. Mater. Chem.*, 2011, 21, 5638-5644

**LT-N4027** | PFN-DOF

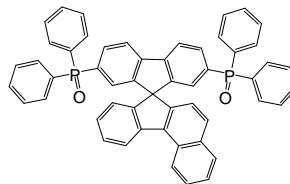
Poly[(9,9-bis(3'-(N,N-dimethylamino)propyl)-2,7-fluorene)-alt-2,7-(9,9-dioctylfluorene)]

CAS No. : 673474-74-3
 Grade : $M_w > 10,000$ (GPC)
 Formula : $(C_{52}H_{70}N_2)_n$
 UV : 378 nm (in CH_2Cl_2)
 PL : 414 nm (in CH_2Cl_2)
 Solubility : Soluble in CH_2Cl_2 , $CHCl_3$, Toluene
 Reference : *Chem. Mater.*, Vol. 16, No. 4, 2004

**LT-N4029** | SPPO21

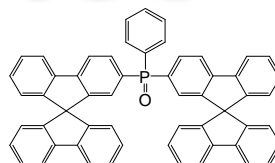
2,7-Bis(diphenylphosphoryl)spiro[fluorene-7,11'-benzofluorene]

CAS No. : 1270960-64-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{53}H_{36}O_2P_2$
 M.W. : 766.8 g/mole
 UV : 287 nm (in CH_2Cl_2)
 PL : 419 nm (in CH_2Cl_2)
 TGA : > 350 °C (0.5% weight loss)
 Reference : *Thin Solid Films* 519 (2011) 4342-4346

**LT-N4034** | Dspiro-PO

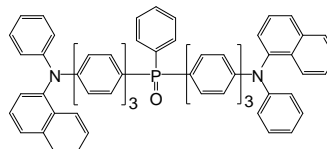
Di(9,9-spirofluorene-2-yl)-phenyl-phosphine oxide

CAS No. : 824426-27-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{56}H_{35}OP$
 M.W. : 754.85 g/mole
 UV : 275 nm (film)
 PL : 365 nm (film)
 TGA : > 350 °C (0.5% weight loss)
 Reference : *Appl. Phys. Lett.* 91, 103507(2007)

**LT-N4035** | NP3PPO

4'' ,4'''-(Phenylphosphoryl)bis(N-1-naphthyl-N-phenyl-1,1':4',1''-terphenyl-4-amine)

CAS No. : 1415633-86-1
 Grade : > 98% (HPLC)
 Formula : $C_{74}H_{53}N_2OP$
 M.W. : 1017.20 g/mole
 UV : 349 nm (in CH_2Cl_2)
 PL : 466 nm (in CH_2Cl_2)
 TGA : > 320 °C (0.5% weight loss)
 Reference : *Chem. Eur. J.* 2012, 18, 13828-13835

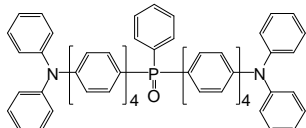


LT-N4036 | NP4PPO

4'''',4''''-(Phenylphosphoryl)bis(*N*-1-naphthyl-*N*-phenyl-1,1':4',1'':4'',1'''-quaterphenyl-4-amine)

CAS No. : 1415633-87-2
 Grade : > 98% (HPLC)
 Formula : C₈₆H₆₁N₂O
 M.W. : 1169.39 g/mole
 UV : 347 nm (in CH₂Cl₂)
 PL : 471 nm (in CH₂Cl₂)
 TGA : > 450 °C (0.5% weight loss)

Reference : *Chem. Eur. J.* 2012, 18, 13828-13835

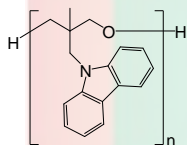


LT-N4037 | PCMO

Poly[3-(carbazol-9-ylmethyl)-3-methyloxetane]

Grade : M_w > 10000 (GPC)
 Formula : (C₁₇H₁₇NO)_n
 UV : 237, 263 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene

Reference : *J. Mater. Chem.*, 2011, 21, 9546-9552

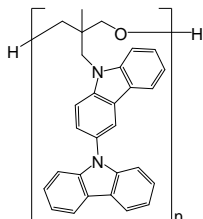


LT-N4038 | PCOC

Poly[3-(carbazol-9-yl)-9-(3-methyloxetan-3-ylmethyl)carbazole]

Grade : M_w > 10000 (GPC)
 Formula : (C₂₉H₂₄N₂O)_n
 UV : 238, 265 nm (in CH₂Cl₂)
 PL : 382 nm (in CH₂Cl₂)
 Solubility : Soluble in CHCl₃, Chlorobenzene, Dichlorobenzene

Reference : *J. Mater. Chem.*, 2011, 21, 9546-9552

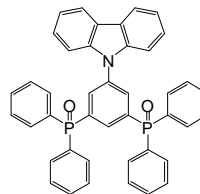


LT-N4039 | CzPO2

9-(3,5-Bis(diphenylphosphoryl)phenyl)-9*H*-carbazole

CAS No. : 1256573-07-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₂H₃₁NO₂P₂
 M.W. : 643.65 g/mole
 UV : 291 nm (in CH₂Cl₂)
 PL : 426 nm (in CH₂Cl₂)
 TGA : > 270 °C (0.5% weight loss)

Reference : *Org. Lett.*, 2011, 13, 3146-3149

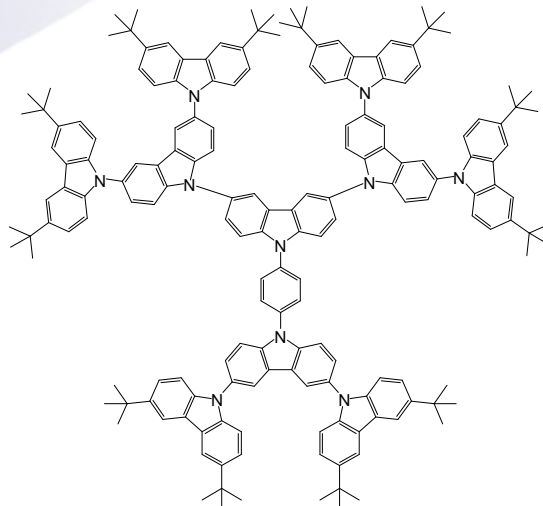


LT-N4041 | G3-tCz

6-(3',6'-Di-*tert*-butyl-6-(3,6-di-*tert*-butyl-9*H*-carbazol-9-yl)-9*H*-3,9'-bicarbazol-9-yl)-9-(4-(3',6'-di-*tert*-butyl-6-(3,6-di-*tert*-butyl-9*H*-carbazol-9-yl)-9*H*-3,9'-bicarbazol-9-yl)phenyl)-3',6'-bis(3,6-di-*tert*-butyl-9*H*-carbazol-9-yl)-9*H*-3,9'-bicarbazole

CAS No. : 1025079-68-8
 Grade : > 98% (HPLC)
 Formula : C₁₇₄H₁₇₂N₁₀
 M.W. : 2403.29 g/mole
 UV : 244, 349 nm (in CH₂Cl₂)
 PL : 402 nm (in CH₂Cl₂)

Reference : *Adv. Mater.*, 2012, 24, 1873-1877



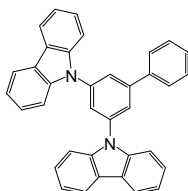
Organic Light Emitting Diode (OLED)

Phosphorescent Host Materials

LT-N4042 | Ph-MCP

3,5-Di-(9H-carbazol-9-yl)biphenyl

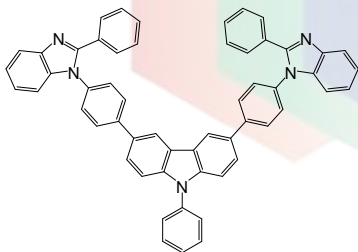
CAS No. : 750573-28-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{36}H_{28}N_2$
M.W. : 484.59 g/mole
UV : 241, 292 nm (in CH_2Cl_2)
PL : 363 nm (in CH_2Cl_2)
TGA : > 270 °C (0.5% weight loss)



LT-N4046 | CNBzIm

9-Phenyl-3,6-bis(4-(1-phenyl-1H-benzo[d]imidazol-2-yl)phenyl)-9H-carbazole

CAS No. : 1258780-50-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{56}H_{37}N_5$
M.W. : 779.93 g/mole
UV : 299 nm (in CH_2Cl_2)
PL : 392 nm (in CH_2Cl_2)
TGA : > 350 °C (0.5% weight loss)
Reference : *J. Mater. Chem.*, 2011, 21, 19249-19256

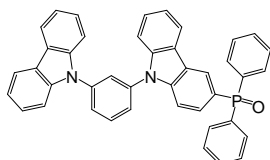


LT-N4047 | mCPPO1

9-(3-(9H-Carbazol-9-yl)phenyl)-3-(diphenylphosphoryl)-9H-carbazole

CAS No. : 1296229-26-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{42}H_{29}N_2OP$
M.W. : 608.67 g/mole
UV : 324, 338 nm (in CH_2Cl_2)
PL : 361 nm (in CH_2Cl_2)
TGA : > 270 °C (0.5% weight loss)

Reference : 1. *Organic Electronics* 12 (2011) 1711-1715
2. *Adv. Mater.* 2011, 23, 1436-1441

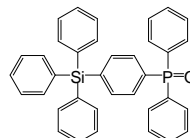


LT-N4048 | TSP01

Diphenyl-4-triphenylsilylphenyl-phosphine oxide

CAS No. : 1286708-86-8
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{36}H_{29}OPSi$
M.W. : 536.67 g/mole
UV : 266 nm (in CH_2Cl_2)
PL : 298 nm (in CH_2Cl_2)
TGA : > 300 °C (0.5% weight loss)

Reference : *Adv. Mater.* 2011, 23, 1436-1441

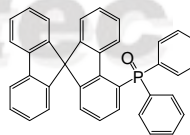


LT-N4049 | SPPO11

9,9-Spirofluoren-4-yl-diphenyl-phosphineoxide

CAS No. : 1314243-72-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{37}H_{25}OP$
M.W. : 516.57 g/mole
UV : 273, 309, 323 nm (in CH_2Cl_2)
PL : 346 nm (in CH_2Cl_2)
TGA : > 250 °C (0.5% weight loss)

Reference : *Organic Electronics* 11 (2010) 1059-1065

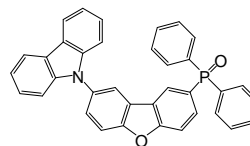


LT-N4050 | DFCzPO

9-(8-(Diphenylphosphoryl)dibenzo[b,d]furan-2-yl)-9H-carbazole

CAS No. : 1349901-36-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{36}H_{24}NO_2P$
M.W. : 533.56 g/mole
UV : 291, 338 nm (in CH_2Cl_2)
PL : 392 nm (in CH_2Cl_2)
TGA : > 300 °C (0.5% weight loss)

Reference : *Chem. Asian J.* 2011, 6, 2895-2898

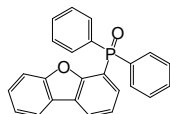


LT-N4051 | DBFPPPO

Dibenzofuran-4-yl-diphenyl-phosphine-oxide

CAS No. : 1268162-33-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{24}H_{17}O_2P$
 M.W. : 368.36 g/mole
 UV : 288 nm (in CH_2Cl_2)
 PL : 328 nm (in CH_2Cl_2)
 TGA : > 320 °C (0.5% weight loss)

Reference : *Chem. Eur. J.* 2011, 17, 445-449

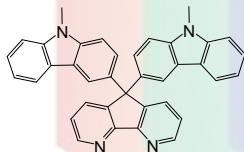


LT-N4052 | MCAF

9,9-Di(9-methyl-carbazol-3-yl)-4,5-diazafluoren

CAS No. : 1359755-87-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{37}H_{26}N_4$
 M.W. : 526.63 g/mole
 UV : 239, 273 nm (in CH_2Cl_2)
 PL : 441 nm (in CH_2Cl_2)
 TGA : > 360 °C (0.5% weight loss)

Reference : *Chem. Mater.* 2012, 24, 643-650

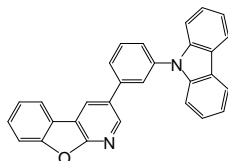


LT-N4057 | PCz-BFP

3-(3-(9H-Carbazol-9-yl)phenyl)benzofuro[2,3-b]pyridine

CAS No. : 1424369-36-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{29}H_{18}N_2O$
 M.W. : 410.47 g/mole
 UV : 241, 293 nm (in CH_2Cl_2)
 PL : 364 nm (in CH_2Cl_2)
 TGA : > 270 °C (0.5% weight loss)

Reference : *Adv. Mater.* 2013, 25, 596-600

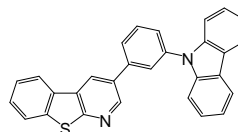


LT-N4058 | BTP1

3-(3-(9H-Carbazol-9-yl)phenyl)benzo[4,5]thieno[2,3-b]pyridine

CAS No. : 1421599-23-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{29}H_{18}N_2S$
 M.W. : 426.53 g/mole
 UV : 291, 339 nm (in CH_2Cl_2)
 PL : 365 nm (in CH_2Cl_2)
 TGA : > 270 °C (0.5% weight loss)

Reference : *Chem. Commun.*, 2013, 49, 1446-1448

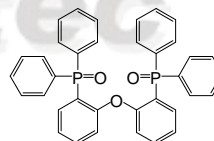


LT-N4060 | DPEPO

Bis[2-(diphenylphosphino)phenyl]ether oxide

CAS No. : 808142-23-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{36}H_{28}O_3P_2$
 M.W. : 570.55 g/mole
 UV : 388 nm (in CH_2Cl_2)
 PL : 311 nm (in CH_2Cl_2)
 TGA : > 320 °C (0.5% weight loss)

Reference : *Chem. Eur. J.* 2011, 17, 5800-5803

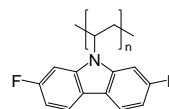


LT-N4062 | 2,7-F-PVF

Poly[9-sec-butyl-2,7-difluoro-9H-carbazole]

CAS No. : 1227083-33-1
 Grade : $M_w > 30,000$ (GPC)
 Formula : $(C_{14}H_9F_2N)_n$
 UV : 261, 294 nm (in CH_2Cl_2)
 PL : 397 nm (in CH_2Cl_2)
 Solubility : Soluble in $CHCl_3$, Chlorobenzene, Dichlorobenzene

Reference : *J Phys. Chem. C* 2012, 116, 20681-20687



Organic Light Emitting Diode (OLED)

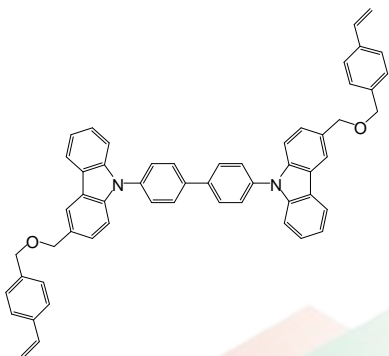
Phosphorescent Host Materials

LT-N4063 | DV-CBP

4,4'-Bis(3-((4-vinylphenoxy)methyl)-9H-carbazol-9-yl)biphenyl

CAS No. : 1428901-78-3
Grade : > 99% (HPLC)
Formula : $C_{54}H_{40}N_2O_2$
M.W. : 748.91 g/mole
UV : 246, 295 nm (in CH_2Cl_2)
PL : 381 nm (in CH_2Cl_2)

Reference : *Organic Electronics*, 14, 2013, 1614-1620

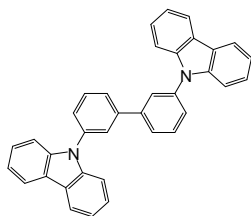


LT-N4069 | m-CBP

3,3'-Di(9H-carbazol-9-yl)biphenyl

CAS No. : 342638-54-4
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{36}H_{24}N_2$
M.W. : 484.59 g/mole
UV : 292, 328 nm (in CH_2Cl_2)
PL : 349 nm (in THF)
TGA : > 250 °C (0.5% weight loss)

Reference : 1. *Organic Electronics* 12 (2011) 1711-1715
2. *Adv. Mater.* 2011, 23, 1436-1441

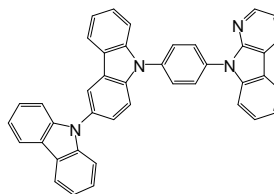


LT-N4070 | pBCb2Cz

9-(4-(9H-Pyrido[2,3-b]indol-9-yl)phenyl)-9H-3,9'-bicarbazole

CAS No. : 1446517-60-7
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{41}H_{26}N_4$
M.W. : 574.67 g/mole
UV : 239, 294 nm (in CH_2Cl_2)
PL : 381 nm (in CH_2Cl_2)
TGA : > 250 °C (0.5% weight loss)

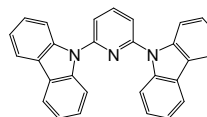
Reference : 1. *Organic Electronics* 12 (2011) 1711-1715
2. *Adv. Mater.* 2011, 23, 1436-1441



LT-N4072 | PYD-2Cz

2,6-Di(9H-carbazol-9-yl)pyridine

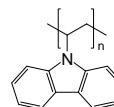
CAS No. : 168127-49-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{29}H_{19}N_3$
M.W. : 409.48 g/mole
UV : 241, 290 nm (in CH_2Cl_2)
PL : 373 nm (in THF)
TGA : > 250 °C (0.5% weight loss)



LT-N4077 | PVK

Poly(9-vinylcarbazole)

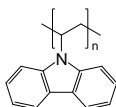
CAS No. : 25067-59-8
Grade : $M_w > 20,000$ (GPC)
Formula : $(C_{14}H_{11}N)_n$
UV : 261, 294 nm (in CH_2Cl_2)
PL : 380 nm (in THF)
Solubility : Soluble in $CHCl_3$,
Chlorobenzene, Dichlorobenzene



LT-N4078 | PVK

Poly(9-vinylcarbazole)

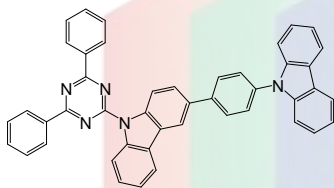
CAS No. : 25067-59-8
 Grade : $M_w > 100,000$ (GPC)
 Formula : $(C_{14}H_{11}N)_n$
 UV : 261, 294 nm (in CH_2Cl_2)
 PL : 380 nm (in THF)
 Solubility : Soluble in $CHCl_3$,
 Chlorobenzene, Dichlorobenzene



LT-N4079 | CPCBPTz

3-(4-(9H-Carbazol-9-yl)phenyl)-9-(4,6-diphenyl-1,3,5-triazin-2-yl)-9H-carbazole

CAS No. : 1407183-68-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{45}H_{29}N_5$
 M.W. : 639.75 g/mole
 UV : 252, 331 nm (in CH_2Cl_2)
 TGA : > 250 °C (0.5% weight loss)

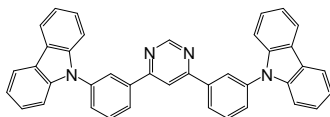


LT-N4080 | 46DCzPPM

4,6-Bis(3-(9H-carbazol-9-yl)phenyl)pyrimidine

CAS No. : 1262678-77-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{40}H_{26}N_4$
 M.W. : 562.66 g/mole
 UV : 240, 292 nm (in CH_2Cl_2)
 PL : 476 nm (in CH_2Cl_2)
 TGA : > 280 °C (0.5% weight loss)

Reference : *Organic Electronics* (2011), 12(5), 843-850

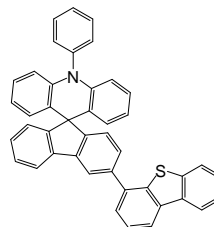


LT-N4081 | STDBT-4

3'-(Dibenzo[b,d]thiophen-4-yl)-10-phenyl-10H-spiro[acridine-9,9'-fluorene]

CAS No. : 1467099-24-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{43}H_{27}NS$
 M.W. : 589.75 g/mole
 UV : 316 nm (in Toluene)
 PL : 376 nm (in Toluene)
 TGA : > 270 °C (0.5% weight loss)

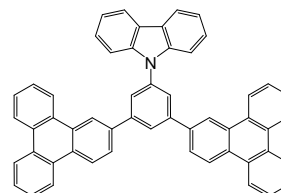
Reference : *Journal of Materials Chemistry C: Materials for Optical and Electronic Devices* (2013), 1(40), 6575-6584



LT-N4082 | DTP-mCP

9-(3,5-Di(triphenylen-2-yl)phenyl)-9H-carbazole

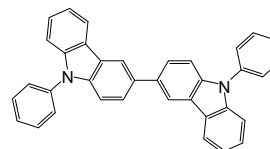
CAS No. : 1498411-20-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{54}H_{33}N$
 M.W. : 695.85 g/mole
 UV : 273 nm (in $CHCl_3$)
 PL : 377 nm (in $CHCl_3$)
 TGA : > 280 °C (0.5% weight loss)



LT-N4085 | BCzPh

9,9'-Diphenyl-9H,9'H-3,3'-bicarbazole

CAS No. : 571102-62-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{36}H_{24}N_2$
 M.W. : 484.59 g/mole
 UV : 303 nm (in CH_2Cl_2)
 TGA : > 250 °C (0.5% weight loss)



Organic Light Emitting Diode (OLED)

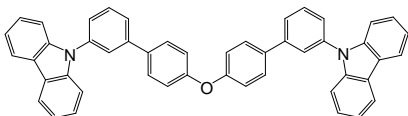
Phosphorescent Host Materials

LT-N4086 | CBBPE

9,9'-(Oxybis([1,1'-biphenyl]-4',3'-diyl))bis(9H-carbazole)

CAS No. : 1470161-29-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{48}H_{32}N_2O$
M.W. : 652.78 g/mole
UV : 240 nm (in CH_2Cl_2)
PL : 350 nm (in CH_2Cl_2)
TGA : > 270 °C (0.5% weight loss)

Reference : *Dyes and Pigments* (2013), 98(3), 372-376

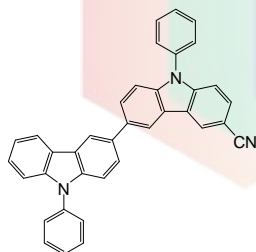


LT-N4088 | BCzSCN

9,9'-Diphenyl-9H,9'H-3,3'-bicarbazole-6-carbonitrile

CAS No. : 1462896-48-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{37}H_{23}N_3$
M.W. : 509.6 g/mole
UV : 250, 301 nm (in CH_2Cl_2)
PL : 416 nm (in CH_2Cl_2)
TGA : > 270 °C (0.5% weight loss)

Reference : *Journal of Materials Chemistry C: Materials for Optical and Electronic Devices* (2013), 1(48), 8177-8185

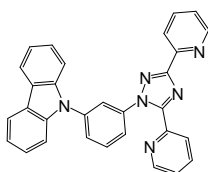


LT-N4099 | m-cbtz

9-(3-(3,5-Di(pyridin-2-yl)-1H-1,2,4-triazol-1-yl)phenyl)-9H-carbazole

CAS No. : 1361953-33-4
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{30}H_{20}N_6$
M.W. : 464.52 g/mole
UV : 293, 340 nm (in THF)
PL : 427 nm (in THF)
TGA : > 270 °C (0.5% weight loss)

Reference : *Journal of Materials Chemistry* (2012), 22(12), 5410-5418

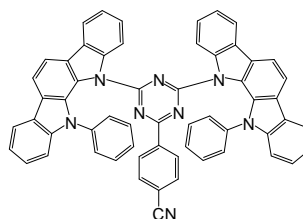


LT-N4100 | BBICT

4-(4,6-Bis[12-phenylindolo[2,3-*a*]carbazol-11(12*H*)-yl]-1,3,5-triazin-2-yl)-benzonitrile

CAS No. : 1617496-77-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{58}H_{34}N_8$
M.W. : 842.94 g/mole
UV : 260, 330 nm (in CH_2Cl_2)
PL : 450 nm (in CH_2Cl_2)
TGA : > 320 °C (0.5% weight loss)

Reference : *Advanced Functional Materials* (2014), 24(23), 3551-3561

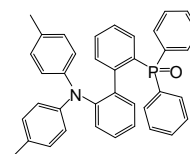


LT-N4101 | POBpDPA

2'-(Diphenylphosphinyl)-N,N-bis(4-methylphenyl)-1,1'-biphenyl-2-amine

CAS No. : 1579983-04-2
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{38}H_{32}NOP$
M.W. : 549.64 g/mole
UV : 444 nm (in Toluene)
PL : 458 nm (in 2-MeTHF)
TGA : > 250 °C (0.5% weight loss)

Reference : *Angew. Chem. Int. Ed.* 2014, 53, 2147-2151

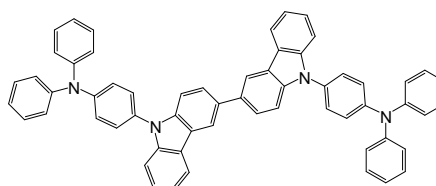


LT-N4102 | BCzTPA

4,4'-(9H,9'H-3,3'-Bicarbazole- 9,9'-diyl)bis(N,N-diphenylaniline)

CAS No. : 1032174-52-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{60}H_{42}N_4$
M.W. : 819.00 g/mole
UV : 310, 341 nm (film)
PL : 397 nm (film)

Reference : 1. *Adv. Funct. Mater.* 2013, 23, 5550-5555 ;
2. *Adv. Mater.* 2012, 24, 3212-3217
3. *J. Mater. Chem. C*, 2015, 3, 1700



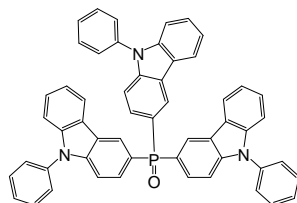
LT-N4107 | POCz3

3,3',3''-Phosphinylidynetris[9-phenyl-9H-carbazole]

CAS No. : 1392204-91-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{54}H_{36}N_3OP$
M.W. : 773.86 g/mole
UV : 260 nm (in CH_2Cl_2)
PL : 351 nm (in CH_2Cl_2)
TGA : > 300 °C (0.5% weight loss)

Reference : 1. *Dalton Transactions* (2015), 44(33), 14613-14624

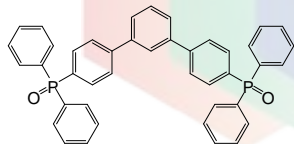
2. *Organic Electronics* (2011), 12(12), 2025-2032



LT-N4115 | BPOPb

1,3-Bis(3-(diphenylphosphoryl)phenyl)benzene

Grade : Sublimed, > 99% (HPLC)
Formula : $C_{42}H_{32}O_2P_2$
M.W. : 630.65 g/mole
UV : 251, 290 nm (in CH_2Cl_2)
PL : 340 nm (in CH_2Cl_2)
TGA : > 270 °C (0.5% weight loss)



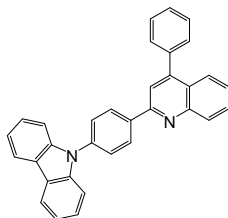
LT-N4116 | CzPPQ

9-(4-(4-Phenylquinolin-2-yl)phenyl)-9H-carbazole

CAS No. : 1617494-49-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{33}H_{22}N_2$
M.W. : 446.54 g/mole
UV : 247, 292, 342 nm (in CH_2Cl_2)
PL : 442 nm (in CH_2Cl_2)
TGA : > 270 °C (0.5% weight loss)

Reference : 1. *Journal of Materials Chemistry C: Materials for Optical and Electronic Devices*, 2(30), 6183-6191; 2014

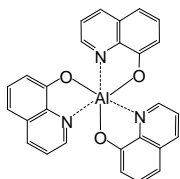
2. *ACS Applied Materials & Interfaces* (2015), 7(19), 10466-10474



LT-E401 | Alq3

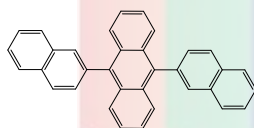
Tris(8-hydroxy-quinolino)aluminium

CAS No.	: 2085-33-8
Grade	: Sublimed, > 99.5% (HPLC)
Formula	: $C_{27}H_{18}AlN_3O_3$
M.W.	: 459.43 g/mole
UV	: 259 nm (in THF)
PL	: 512 nm (in THF)
TGA	: > 270 °C (0.5% weight loss)

**LT-E403** | ADN

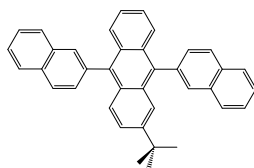
9,10-Di(naphth-2-yl)anthracene

CAS No.	: 122648-99-1
Grade	: Sublimed, > 99.5% (HPLC)
Formula	: $C_{34}H_{22}$
M.W.	: 430.54 g/mole
UV	: 375, 395 nm (in THF)
PL	: 425 nm (in THF)
TGA	: > 290 °C (0.5% weight loss)

**LT-E404** | TBADN

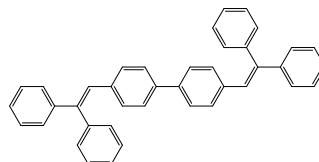
2-tert-Butyl-9,10-di(naphth-2-yl)anthracene

CAS No.	: 274905-73-6
Grade	: Sublimed, > 99% (HPLC)
Formula	: $C_{38}H_{30}$
M.W.	: 486.64 g/mole
UV	: 375, 395 nm (in THF)
PL	: 431 nm (in THF)
TGA	: > 290 °C (0.5% weight loss)

**LT-E405** | DPVBi

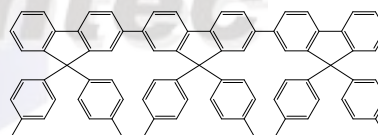
4,4'-Bis(2,2-diphenylethenyl)-1,1'-biphenyl

CAS No.	: 142289-08-5
Grade	: Sublimed, > 99% (HPLC)
Formula	: $C_{40}H_{30}$
M.W.	: 510.23 g/mole
UV	: 353 nm (in $CHCl_3$)
PL	: 442 nm (in $CHCl_3$)
TGA	: > 300 °C (0.5% weight loss)

**LT-E408** | TDAP

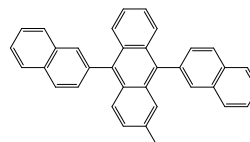
2,7-Bis[9,9-di(4-methylphenyl)-fluoren-2-yl]-9,9-di(4-methylphenyl)fluorene

CAS No.	: 474918-42-8
Grade	: Sublimed, > 98% (HPLC)
Formula	: $C_{81}H_{62}$
M.W.	: 1035.36 g/mole
UV	: 353 nm (in THF)
PL	: 419 nm (in THF)
TGA	: > 370 °C (0.5% weight loss)

Reference: *J. Phys. Chem. C* 2007, 111, 108-115**LT-E410** | MADN

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

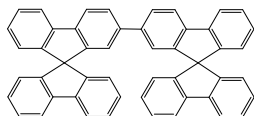
CAS No.	: 804560-00-7
Grade	: Sublimed, > 99.5% (HPLC)
Formula	: $C_{35}H_{24}$
M.W.	: 444.57 g/mole
UV	: 379, 399 nm (in CH_2Cl_2)
PL	: 439 nm (in CH_2Cl_2)
TGA	: > 300 °C (0.5% weight loss)



LT-E411 | BSBF

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

CAS No. : 664345-18-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{50}H_{30}$
 M.W. : 630.77 g/mole
 UV : 330 nm (in THF)
 PL : 384 nm (in THF)
 TGA : > 310 °C (0.5% weight loss)

Reference : *Org. Lett., Vol. 7, No. 23, 2005***LT-E412** | TSBF

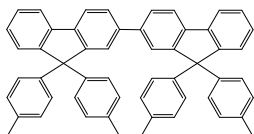
2,7-Bis(9,9-spirobifluoren-2-yl)-9,9-spirobifluorene

CAS No. : 518997-91-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{75}H_{44}$
 M.W. : 945.15 g/mole
 UV : 350 nm (in THF)
 PL : 415 nm (in THF)
 TGA : > 390 °C (0.5% weight loss)

Reference : *J. Phys. Chem. C 2007, 111, 108-115***LT-E413** | BDAF

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

CAS No. : 854046-47-2
 Grade : Sublimed, > 97% (HPLC)
 Formula : $C_{54}H_{42}$
 M.W. : 690.91 g/mole
 UV : 333 nm (in THF)
 PL : 386 nm (in THF)
 TGA : > 310 °C (0.5% weight loss)

Reference : *Org. Lett., Vol. 7, No. 23, 2005***LT-N428** | 2,2'-Spiro-Pye

2,2'-Dipyrenyl-9,9-spirobifluorene

CAS No. : 831222-16-3
 Grade : Sublimed, > 98% (HPLC)
 Formula : $C_{57}H_{32}$
 M.W. : 716.86 g/mole
 UV : 279, 347 nm (in THF)
 PL : 414 nm (in THF)
 TGA : > 440 °C (0.5% weight loss)

**LT-N429** | TSB3

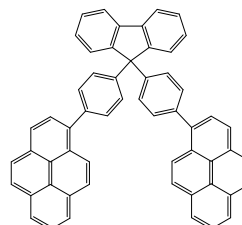
1,3,5-Tri(pyren-1-yl)benzene

CAS No. : 349666-25-7
 Grade : Sublimed, > 95% (HPLC)
 Formula : $C_{54}H_{30}$
 M.W. : 678.81 g/mole
 UV : 280, 352 nm (in THF)
 PL : 388 nm (in THF)
 TGA : > 360 °C (0.5% weight loss)

Reference : *Synthetic Metals 143 (2004) 89-96***LT-N447** | BPPF

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

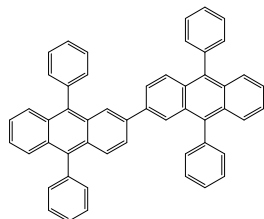
CAS No. : 1174006-47-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{57}H_{34}$
 M.W. : 718.88 g/mole
 UV : 280, 344 nm (in THF)
 PL : 402 nm (in THF)
 TGA : > 430 °C (0.5% weight loss)



LT-N452 | TPBA

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

CAS No. : 172285-72-2
 Grade : Sublimed, > 99%
 Formula : $C_{52}H_{34}$
 M.W. : 658.83 g/mole
 UV : 294, 333 nm (in THF)
 PL : 455 nm (in THF)
 TGA : > 390 °C (0.5% weight loss)

Reference : *Appl. Phys. Lett.*, 89, 063504(2006).**LT-N458** | Spiro-Pye

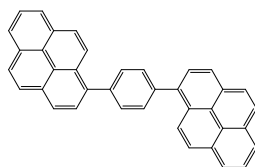
2,7-Dipyrenyl-9,9-spirobifluorene

CAS No. : 886456-80-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{57}H_{32}$
 M.W. : 716.86 g/mole
 UV : 363 nm (in THF)
 PL : 424 nm (in THF)
 TGA : > 440 °C (0.5% weight loss)

**LT-N472** | p-Bpye

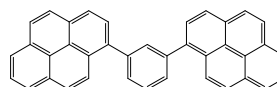
1,4-Di(pyren-1-yl)benzene

CAS No. : 475460-77-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{38}H_{22}$
 M.W. : 478.58 g/mole
 UV : 280, 351 nm (in CH_2Cl_2)
 PL : 431 nm (in CH_2Cl_2)
 TGA : > 380 °C (0.5% weight loss)

Reference : *Advanced Functional Materials* (2008), 18, (1), 67-75.**LT-N473** | m-Bpye

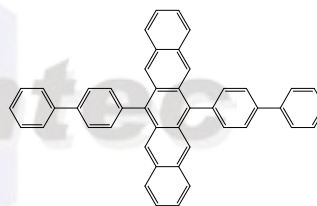
1,3-Di(pyren-1-yl)benzene

CAS No. : 1616657-81-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{38}H_{22}$
 M.W. : 478.58 g/mole
 UV : 279, 350 nm (in THF)
 PL : 384 nm (in THF)
 TGA : > 330 °C (0.5% weight loss)

**LT-N478** | DBPenta

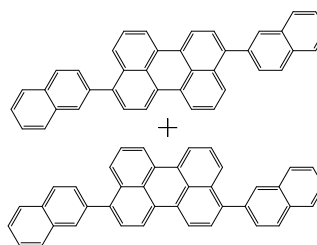
6,13-Di-biphenyl-4-yl-pentacene

CAS No. : 1254039-84-3
 Grade : Sublimed, > 99%
 Formula : $C_{46}H_{30}$
 M.W. : 582.73 g/mole
 UV : 305 nm (in THF)
 PL : 620 nm (in THF)
 TGA : > 360 °C (0.5% weight loss)

Reference : *J. Phys. Chem. Lett.* 2012, 3, 1079-1083**LT-N479** | DNP

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

CAS No. : 959611-30-4 and 919089-75-1
 Grade : Sublimed, > 99%
 Formula : $C_{40}H_{24}$
 M.W. : 504.62 g/mole
 UV : 434, 460 nm (in THF)
 PL : 488 nm (in THF)
 TGA : > 340 °C (0.5% weight loss)

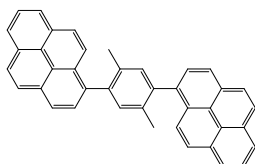
Reference : *Journal of Applied Physics*, 102,104908(2007)

LT-N481 | DMPPP

1,1'-(2,5-Dimethyl-1,4-phenylene)dipyrrene

CAS No. : 1036404-84-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{40}H_{26}$
 M.W. : 506.63 g/mole
 PL : 397 nm (in CH_2Cl_2)
 TGA : > 350 °C (0.5% weight loss)

Reference : *Adv. Mater.* 2012, 24, 5867-5871

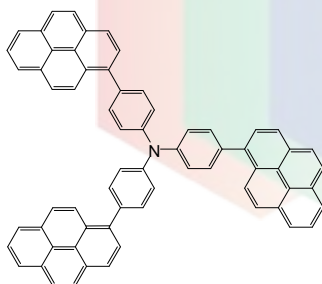


LT-N487 | TPyPA

Tris[4-(pyrenyl)-phenyl]amine

CAS No. : 349669-77-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{66}H_{39}N$
 M.W. : 846.02 g/mole
 UV : 271 nm (in CH_2Cl_2)
 PL : 479 nm (in CH_2Cl_2)
 TGA : > 470 °C (0.5% weight loss)

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



LT-N488 | BANE

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

CAS No. : 172285-79-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{52}H_{34}$
 M.W. : 658.83 g/mole
 UV : 260 nm (in CH_2Cl_2)
 PL : 449 nm (in CH_2Cl_2)
 TGA : > 320 °C (0.5% weight loss)

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

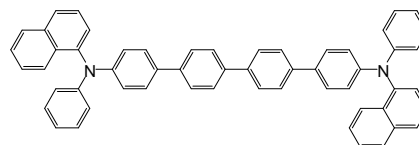


LT-N489 | 4P-NPB

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

CAS No. : 948552-24-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{56}H_{40}N_2$
 M.W. : 740.93 g/mole
 UV : 351 nm (in CH_2Cl_2)
 PL : 422 nm (in CH_2Cl_2)
 TGA : > 380 °C (0.5% weight loss)

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

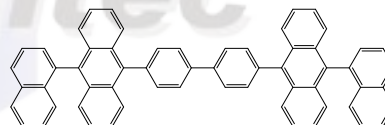


LT-N490 | BUBH-3

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

CAS No. : 1002328-32-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{60}H_{38}$
 M.W. : 758.94 g/mole
 UV : 262 nm (in CH_2Cl_2)
 PL : 420 nm (in CH_2Cl_2)
 TGA : > 440 °C (0.5% weight loss)

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

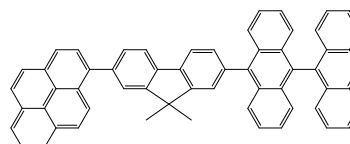


LT-N4004 | BAnFPye

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

CAS No. : 1705571-70-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{59}H_{38}$
 M.W. : 746.93 g/mole
 UV : 356 nm (in CH_2Cl_2)
 PL : 433 nm (in CH_2Cl_2)
 TGA : > 440 °C (0.5% weight loss)

Reference : *TW*. 1402243

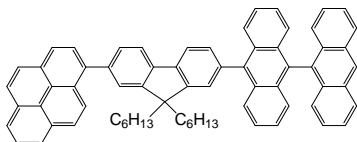


LT-N4005 | DAnF6Pye

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

CAS No. : 1705571-71-6
 Grade : > 99% (HPLC)
 Formula : C₆₉H₅₈
 M.W. : 877.20 g/mole
 UV : 358 nm (in CH₂Cl₂)
 PL : 437 nm (in CH₂Cl₂)

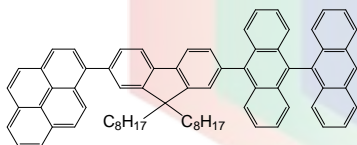
Reference : TW. I402243

**LT-N4040** | BAnF8Pye

1-(7-(9,9'-Bianthracen-10-yl)-9,9-dioctyl-9H-fluoren-2-yl)pyrene

CAS No. : 1258522-34-7
 Grade : > 99% (HPLC)
 Formula : C₇₃H₆₆
 M.W. : 943.31 g/mole
 UV : 257, 356 nm (in CH₂Cl₂)
 PL : 440 nm (in CH₂Cl₂)
 TGA : > 330 °C (0.5% weight loss)

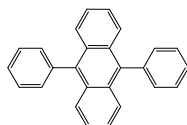
Reference : TW. I402243

**LT-N4084** | ADP

9,10-Diphenylanthracene

CAS No. : 1499-10-1
 Grade : Sublimed, > 99%
 Formula : C₂₆H₁₈
 M.W. : 330.42 g/mole
 TGA : > 150 °C (0.5% weight loss)

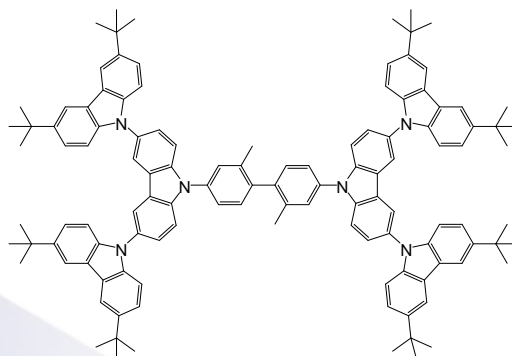
Reference : Journal of Chemical Education (2013), 90(6), 786-789

**LT-N4090** | CMP

9,9'-(2,2'-Dimethylbiphenyl-4,4'-diyl)bis(3',6'-di-tert-butyl-6-(3,6-di-tert-butyl-9H-carbazol-9-yl)-9H-3,9'-bicarbazole)

CAS No. : 1529774-51-3
 Grade : > 98% (HPLC)
 Formula : C₁₁₈H₁₂₀N₆
 M.W. : 1622.26 g/mole
 UV : 297, 349 nm (in CH₂Cl₂)
 PL : 295 nm (in CH₂Cl₂)

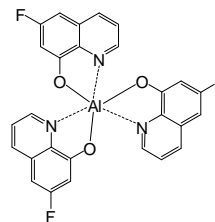
Reference : Advanced Functional Materials (2014), 24(22), 3413-3421

**LT-N4091** | 6FAlq3

Tris(6-fluoro-8-hydroxy-quinolinato)aluminium

CAS No. : 1257308-66-9
 Grade : > 99% (NMR)
 Formula : C₂₇H₁₅AlF₃N₃O₃
 M.W. : 513.4 g/mole
 UV : 375 nm (in CH₂Cl₂)
 PL : 495 nm (in CH₂Cl₂)
 TGA : > 220 °C (0.5% weight loss)

Reference : Chemistry - A European Journal (2011), 17(33), 9076-9082

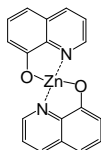


LT-N4093 | Znq2

Bis(8-hydroxyquinoline) zinc

CAS No. : 13978-85-3
Formula : $C_{18}H_{12}N_2O_2Zn$
M.W. : 353.71 g/mole
PL : 465 nm (film)
TGA : > 220 °C (0.5% weight loss)

Reference : *Organic Electronics* (2008), 9(5), 625-634

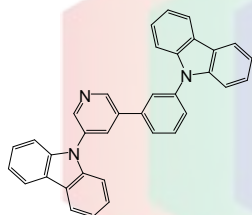


LT-N4094 | CPPyC

9-(5-(3-(9H-Carbazol-9-yl)phenyl)pyridin-3-yl)-9H-carbazole

CAS No. : 1583238-16-7
Grade : > 99% (HPLC)
Formula : $C_{35}H_{23}N_3$
M.W. : 485.58 g/mole
TGA : > 200 °C (0.5% weight loss)

Reference : *Chemistry of Materials* (2014), 26(7), 2368-2373

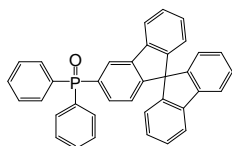


LT-N4096 | SF3PO

Bis(9,9-spirofluorene-3-yl)-phenylphosphane oxide

CAS No. : 1454615-69-0
Grade : > 99% (HPLC)
Formula : $C_{37}H_{25}OP$
M.W. : 516.57 g/mole
UV : 308, 314 nm (in CH_2Cl_2)
PL : 322 nm (in CH_2Cl_2)
TGA : > 200 °C (0.5% weight loss)

Reference : *Organic Electronics* (2013), 14(7), 1924-1930



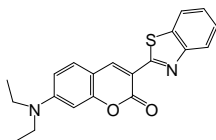
Organic Light Emitting Diode (OLED)

Green Dopant Materials

LT-E501 | Coumarin 6

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

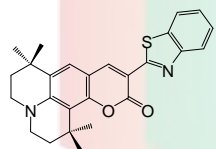
CAS No. : 38215-36-0
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{20}H_{18}N_2O_2S$
M.W. : 350.43 g/mole
UV : 443 nm (in THF)
PL : 493 nm (in THF)
TGA : > 260 °C (0.5% weight loss)



LT-E502 | C545T

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

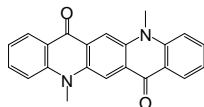
CAS No. : 155306-71-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{26}H_{26}N_2O_2S$
M.W. : 430.56 g/mole
UV : 473 nm (in THF)
PL : 506 nm (in THF)
TGA : > 240 °C (0.5% weight loss)



LT-E503 | DMQA

N,N'-Dimethyl-quinacridone

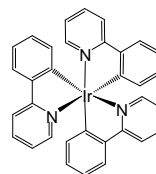
CAS No. : 19205-19-7
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{22}H_{16}N_2O_2$
M.W. : 340.37 g/mole
UV : 294, 510 nm (in THF)
PL : 523 nm (in THF)
TGA : > 300 °C (0.5% weight loss)



LT-E504 | fac-Ir(ppy)₃

fac-Tris(2-phenylpyridine)iridium(III)

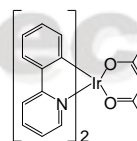
CAS No. : 94928-86-6
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{33}H_{24}IrN_3$
M.W. : 654.78 g/mole
UV : 282, 377 nm (in THF)
PL : 513 nm (in THF)
TGA : > 300 °C (0.5% weight loss)



LT-E505 | Ir(ppy)₂(acac)

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

CAS No. : 337526-85-9
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{27}H_{23}IrN_2O_2$
M.W. : 599.70 g/mole
UV : 259 nm (in THF)
PL : 524 nm (in THF)
TGA : > 270 °C (0.5% weight loss)

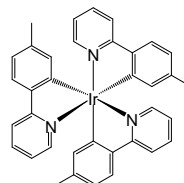


LT-N506 | Ir(mppy)₃

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

CAS No. : 149005-33-4
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{36}H_{30}IrN_3$
M.W. : 696.86 g/mole
UV : 287, 373 nm (in CH₂Cl₂)
PL : 514 nm (in CH₂Cl₂)
TGA : > 330 °C (0.5% weight loss)

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

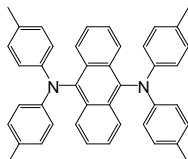


LT-N507 | TTPA

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

CAS No. : 177799-16-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₂H₃₆N₂
 M.W. : 568.75 g/mole
 UV : 294, 471 nm (in CH₂Cl₂)
 PL : 554 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)

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

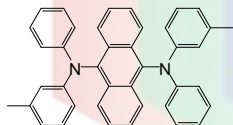


LT-N508 | TPA

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

CAS No. : 189263-81-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₀H₃₂N₂
 M.W. : 540.70 g/mole
 UV : 292, 458 nm (in CH₂Cl₂)
 PL : 532 nm (in CH₂Cl₂)
 TGA : > 270 °C (0.5% weight loss)

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

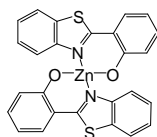


LT-N509 | Zn(BTZ)₂

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

CAS No. : 58280-31-2
 Grade : Sublimed, > 99%
 Formula : C₂₆H₁₆N₂O₂S₂Zn
 M.W. : 517.96 g/mole
 UV : 287, 334 nm (in CH₂Cl₂)
 PL : 458 nm (in CH₂Cl₂)
 TGA : > 300 °C (0.5% weight loss)

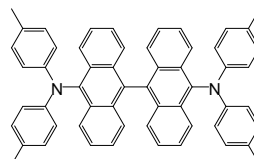
Reference : *Current Applied Physics*, 2 (2002), 295~298.



LT-N510 | BA-TTB

*N*¹⁰,*N*¹⁰,*N*^{10'},*N*^{10'}-Tetra-tolyl-9,9'-bianthracene-10,10'-diamine

CAS No. : 223735-62-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₅₆H₄₄N₂
 M.W. : 744.96 g/mole
 UV : 257 nm (in CH₂Cl₂)
 PL : 546 nm (in CH₂Cl₂)
 TGA : > 350 °C (0.5% weight loss)



LT-N511 | BA-TAD

*N*¹⁰,*N*¹⁰,*N*^{10'},*N*^{10'}-Tetraphenyl-9,9'-bianthracene-10,10'-diamine

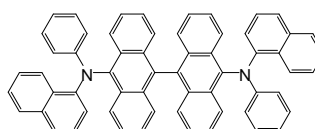
CAS No. : 220721-68-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₅₂H₃₆N₂
 M.W. : 688.86 g/mole
 UV : 257 nm (in CH₂Cl₂)
 PL : 518 nm (in CH₂Cl₂)
 TGA : > 300 °C (0.5% weight loss)



LT-N512 | BA-NPB

*N*¹⁰,*N*^{10'}-Diphenyl-*N*¹⁰,*N*^{10'}-dinaphthalenyl-9,9'-bianthracene-10,10'-diamine

CAS No. : 885502-26-1
 Grade : Sublimed, > 95% (HPLC)
 Formula : C₆₀H₄₀N₂
 M.W. : 788.97 g/mole
 UV : 357, 441 nm (in CH₂Cl₂)
 PL : 517 nm (in CH₂Cl₂)
 TGA : > 340 °C (0.5% weight loss)

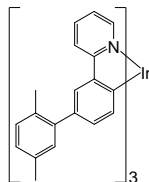


LT-N522 | TEG

fac-Tris(2-(3-*p*-xylyl)phenyl)pyridine iridium(III)

CAS No. : 1338784-40-9
 Grade : > 99% (HPLC)
 Formula : $C_{57}H_{48}IrN_3$
 M.W. : 967.3 g/mole
 UV : 400 nm (in film)
 PL : 539 nm (in film)
 TGA : > 250 °C (0.5% weight loss)

Reference : *Appl. Phys. Lett.* 91, 103507(2007)

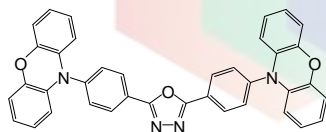


LT-N528 | 2PXZ-OXD

2,5-Bis(4-(10*H*-phenoxazin-10-yl)phenyl)-1,3,4-oxadiazole

CAS No. : 1447998-13-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{38}H_{24}N_4O_3$
 M.W. : 584.62 g/mole
 UV : 291 nm (in Toluene)
 PL : 501.5 nm (in Toluene)
 TGA : > 270 °C (0.5% weight loss)

Reference : *Journal of Materials Chemistry C: Materials for Optical and Electronic Devices* (2013), 1(30), 4599-4604

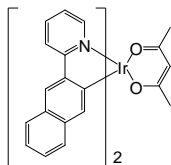


LT-N529 | Ir(npy)₂acac

Bis(2-(naphthalen-2-yl)pyridine)(acetylacetonate) iridium(III)

CAS No. : 878393-09-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{35}H_{27}IrN_2O_2$
 M.W. : 699.82 g/mole
 TGA : > 270 °C (0.5% weight loss)

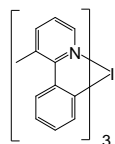
Reference : *Appl. Phys. Lett.* 91, 103507(2007)



LT-N5002 | Ir(3mppy)₃

Tris(2-phenyl-3-methyl-pyridine)iridium

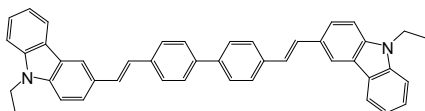
CAS No. : 639006-72-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{36}H_{30}IrN_3$
 M.W. : 696.86 g/mole
 UV : 283, 383 nm (in CH₂Cl₂)
 PL : 522 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)



LT-E601 | BCzVBi

4,4'-Bis(9-ethyl-3-carbazovinylenyl)-1,1'-biphenyl

CAS No. : 475480-90-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{44}H_{36}N_2$
 M.W. : 592.77 g/mole
 UV : 384 nm (in THF)
 PL : 438 nm (in THF)
 TGA : > 390 °C (0.5% weight loss)



LT-E602 | Perylene

Perylene

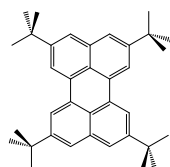
CAS No. : 198-55-0
 Grade : Sublimed, > 99.5% (HPLC)
 Formula : $C_{20}H_{12}$
 M.W. : 252.31 g/mole
 UV : 410, 436 nm (in THF)
 PL : 471 nm (in THF)
 TGA : > 200 °C (0.5% weight loss)



LT-E603 | TBPe

2,5,8,11-Tetra-*tert*-butylperylene

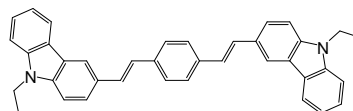
CAS No. : 677275-33-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{36}H_{44}$
 M.W. : 476.73 g/mole
 UV : 412, 438 nm (in THF)
 PL : 487 nm (in THF)
 TGA : > 220 °C (0.5% weight loss)



LT-E604 | BCzVB

1,4-Bis[2-(3-*N*-ethylcarbazoryl)vinyl]benzene

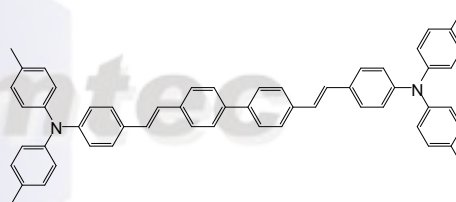
CAS No. : 62608-15-5
 Grade : > 99% (HPLC)
 Formula : $C_{38}H_{32}N_2$
 M.W. : 516.67 g/mole
 UV : 391 nm (in THF)
 PL : 476 nm (in THF)
 TGA : > 360 °C (0.5% weight loss)



LT-E605 | DPAVBi

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

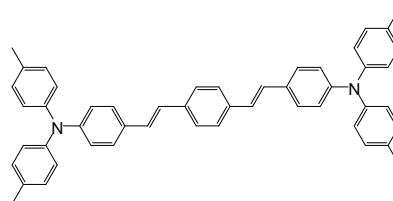
CAS No. : 119586-44-6
 Grade : > 99% (HPLC)
 Formula : $C_{56}H_{48}N_2$
 M.W. : 748.99 g/mole
 UV : 405 nm (in THF)
 PL : 475 nm (in THF)
 TGA : > 320 °C (0.5% weight loss)



LT-E606 | DPAVB

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

CAS No. : 596103-58-1
 Grade : > 99% (HPLC)
 Formula : $C_{50}H_{44}N_2$
 M.W. : 672.90 g/mole
 UV : 414 nm (in THF)
 PL : 476 nm (in THF)
 TGA : > 340 °C (0.5% weight loss)



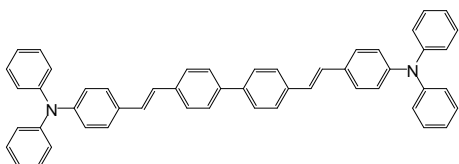
Organic Light Emitting Diode (OLED)

Blue Dopant Materials

LT-E608 | BDAVBi

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

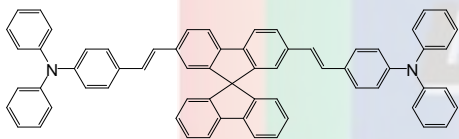
CAS No. : 523977-57-3
Grade : > 99% (HPLC)
Formula : $C_{52}H_{40}N_2$
M.W. : 692.89 g/mole
UV : 399 nm (in THF)
PL : 466 nm (in THF)
TGA : > 360 °C (0.5% weight loss)



LT-N446 | Spiro-BDAVBi

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

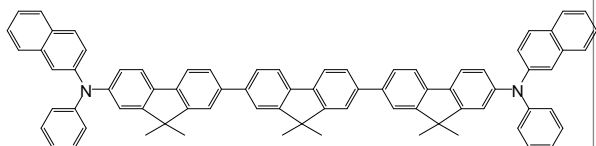
CAS No. : 436798-89-9
Grade : > 99% (HPLC)
Formula : $C_{65}H_{46}N_2$
M.W. : 855.07 g/mole
UV : 414 nm (in CH_2Cl_2)
PL : 482 nm (in CH_2Cl_2)
TGA : > 390 °C (0.5% weight loss)



LT-N623 | BNP3FL

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

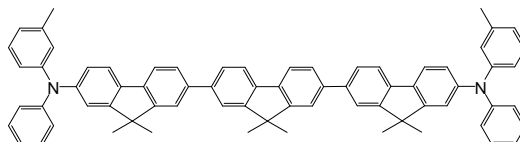
CAS No. : 669016-17-5
Grade : > 99% (HPLC)
Formula : $C_{77}H_{60}N_2$
M.W. : 1013.31 g/mole
UV : 387 nm (in THF)
PL : 437 nm (in THF)
TGA : > 450 °C (0.5% weight loss)



LT-N624 | MDP3FL

2,7-Bis(2-[phenyl(*m*-tolyl)amino]-9,9-dimethyl-fluorene-7-yl)-9,9-dimethyl-fluorene

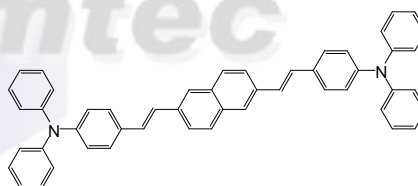
CAS No. : 239476-24-5
Grade : > 99% (HPLC)
Formula : $C_{71}H_{60}N_2$
M.W. : 941.25 g/mole
UV : 385 nm (in CH_2Cl_2)
PL : 460 nm (in CH_2Cl_2)
TGA : > 430 °C (0.5% weight loss)



LT-N627 | N-BDAVBi

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

CAS No. : 1032556-63-0
Grade : > 99% (HPLC)
Formula : $C_{50}H_{38}N_2$
M.W. : 666.85 g/mole
UV : 407 nm (in THF)
PL : 469 nm (in THF)
TGA : > 370 °C (0.5% weight loss)

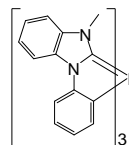


LT-N629 | fac-Ir(Pmb)₃

fac-Iridium(III) tris(1-phenyl-3-methylbenzimidazolin-2-ylidene-*C,C'*)

CAS No. : 1542678-40-9
Grade : > 99% (HPLC)
Formula : $C_{62}H_{33}IrN_6$
M.W. : 813.96 g/mole
UV : 299 nm (in THF)
PL : 405 nm (in THF)
TGA : > 330 °C (0.5% weight loss)

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

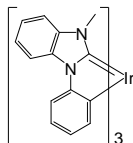


LT-N630 | *mer*-Ir(Pmb)₃

mer-Iridium(III) tris(1-phenyl-3-methylbenzimidazolin-2-ylidene-C,C^{2'})

CAS No. : 926292-95-7
 Grade : > 99% (HPLC)
 Formula : C₄₂H₃₃IrN₆
 M.W. : 813.96 g/mole
 UV : 303 nm (in THF)
 PL : 415 nm (in THF)
 TGA : > 280 °C (0.5% weight loss)

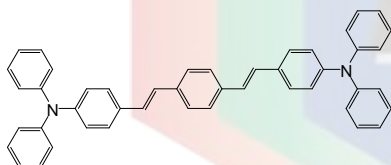
Reference : *Applied Physics Letters*, 87, 243507, 2005.



LT-N631 | DSA-Ph

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

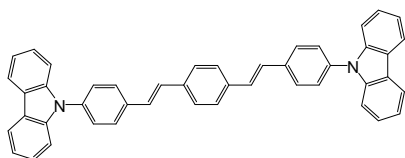
CAS No. : 358374-59-1
 Grade : > 99% (HPLC)
 Formula : C₄₆H₃₆N₂
 M.W. : 616.79 g/mole
 UV : 407 nm (in THF)
 PL : 486 nm (in THF)
 TGA : > 320 °C (0.5% weight loss)



LT-N632 | BCzSB

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

CAS No. : 320575-30-2
 Grade : > 99% (HPLC)
 Formula : C₄₆H₃₂N₂
 M.W. : 612.76 g/mole
 UV : 375 nm (in CH₂Cl₂)
 PL : 461 nm (in CH₂Cl₂)
 TGA : > 310 °C (0.5% weight loss)

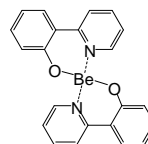


LT-N634 | Bepp₂

Bis(2-(2-hydroxyphenyl)-pyridine)beryllium

CAS No. : 220694-90-6
 Grade : Sublimed, > 99%
 Formula : C₂₂H₁₆BeN₂O₂
 M.W. : 349.39 g/mole
 PL : 445 nm (in CHCl₃)

Reference : 1. *Chem. Mater.*, 2000, 12 (9), pp 2672-2675
 2. *J. Mater. Chem.*, 2011, 21, 3551

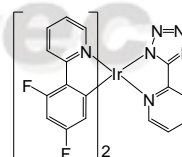


LT-N635 | FlrN4

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

CAS No. : 1219078-44-0
 Grade : > 99% (HPLC)
 Formula : C₂₈H₁₆F₄IrN₇
 M.W. : 718.67 g/mole
 UV : 368 nm (in THF)
 PL : 459 nm (in THF)
 TGA : > 270 °C (0.5% weight loss)

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

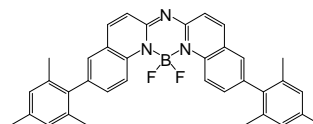


LT-N642 | MQAB

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

CAS No. : 1338788-44-5
 Grade : > 99% (HPLC)
 Formula : C₃₆H₃₂BF₂N₃
 M.W. : 555.47 g/mole
 UV : 338 nm (in CH₂Cl₂)
 PL : 476 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)

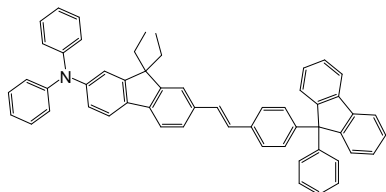
Reference : *Organic Electronics* 12(2011) 666-676



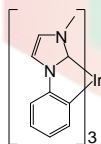
LT-N645 | DPAFVF

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

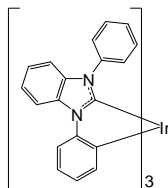
CAS No. : 1239588-65-8
 Grade : > 99% (HPLC)
 Formula : C₅₆H₄₅N
 M.W. : 731.96 g/mole
 UV : 386 nm (in CH₂Cl₂)
 PL : 465 nm (in CH₂Cl₂)
 TGA : > 260 °C (0.5% weight loss)
 Reference : *Synthetic Metals* 160 (2010) 1259-1265

LT-N646 | *mer*-Ir(pmi)₃*mer*-Tris(1-phenyl-3-methylimidazolin-2-ylidene-*C,C*(2') iridium(III))

CAS No. : 870009-65-7
 Grade : > 99% (HPLC)
 Formula : C₃₀H₂₇IrN₆
 M.W. : 663.85 g/mole
 UV : 267 nm (in CH₂Cl₂)
 PL : 410 nm (in CH₂Cl₂)
 TGA : > 250 °C (0.5% weight loss)

LT-N658 | *fac*-Ir(dpbc)₃*fac*-Tris(1,3-diphenyl-benzimidazolin-2-ylidene-*C,C*(2') iridium(III))

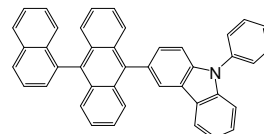
CAS No. : 888725-36-8
 Grade : > 99% (HPLC)
 Formula : C₅₇H₄₂IrN₆
 M.W. : 1003.2 g/mole
 UV : 281, 302 nm (in CH₂Cl₂)
 PL : 472 nm (in CH₂Cl₂)
 TGA : > 350 °C (0.5% weight loss)



LT-N662 | PCAN

9-(9-Phenylcarbazole-3-yl)-10-(naphthalene-1-yl)anthracene

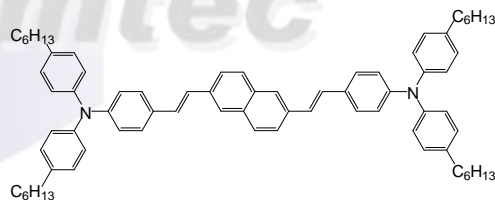
CAS No. : 1261580-75-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₂H₂₇N
 M.W. : 545.67 g/mole
 UV : 244, 397 nm (in CH₂Cl₂)
 PL : 441 nm (in CH₂Cl₂)
 TGA : > 330 °C (0.5% weight loss)
 Reference : *J. Mater. Chem.*, 2012, 22, 123-129



LT-N663 | N-BDAVBi-C6

4,4'-(1*E*,1'*E*)-2,2'-(Naphthalene-2,6-diyl)bis(ethene-2,1-diyl)bis(*N,N*-bis(4-hexylphenyl)aniline)

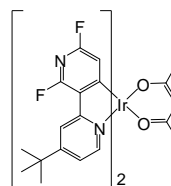
CAS No. : 1258522-36-9
 Grade : > 99% (HPLC)
 Formula : C₇₄H₆₆N₂
 M.W. : 1003.49 g/mole
 UV : 407 nm (in THF)
 PL : 469 nm (in THF)
 Reference : *Organic Electronics* (2009), 10, (8), 1610-1614



LT-N669 | FK306

Bis[4-*tert*-butyl-2',6'-difluoro-2,3'-bipyridine](acetylacetonate)iridium(III)

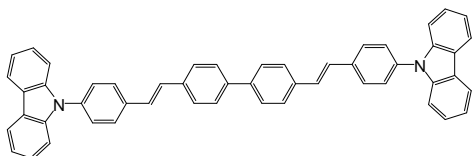
CAS No. : 1421058-47-0
 Grade : > 99% (HPLC)
 Formula : C₃₃H₃₃F₄IrN₂O₂
 M.W. : 785.85 g/mole
 UV : 244 nm (in CH₂Cl₂)
 PL : 454 nm (in CH₂Cl₂)
 TGA : > 280 °C (0.5% weight loss)
 Reference : *J. Mater. Chem. C*, 2013, 1, 1070-1075



LT-S9058 | BSB4

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

CAS No.	: 850594-34-2
Grade	: Sublimed, > 99%
Formula	: C ₂₇ H ₂₆ N ₂
M.W.	: 688.86 g/mole
UV	: 253, 367 nm (in CH ₂ Cl ₂)
PL	: 452 nm (in CH ₂ Cl ₂)
TGA	: > 320 °C (0.5% weight loss)

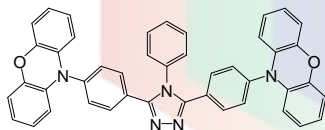


LT-N675 | 2PXZ-TAZ

10,10'-(4,4'-(4-Phenyl-4H-1,2,4-triazole-3,5-diyl)bis(4,1-phenylene))bis(10H-phenoxazine)

CAS No.	: 1447998-15-3
Grade	: Sublimed, > 99% (HPLC)
Formula	: C ₄₄ H ₂₉ N ₅ O ₂
M.W.	: 659.73 g/mole
UV	: 473 nm (in Toluene)
PL	: 462 nm
ΔEST	: 0.86 eV
TGA	: > 300 °C (0.5% weight loss)

Reference: *J. Mater. Chem. C*, 2013, 1, 4599

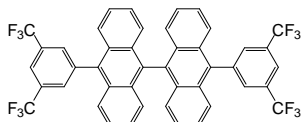


LT-N678 | Ban-(3,5)-CF3

10,10'-Bis(3,5-bis(trifluoromethyl)phenyl)-9,9'-bianthracene

CAS No.	: 1505456-00-7
Grade	: > 99% (HPLC)
Formula	: C ₄₄ H ₂₂ F ₁₂
M.W.	: 778.63 g/mole
UV	: 259, 400 nm (in CH ₂ Cl ₂)
PL	: 440 nm (in CH ₂ Cl ₂)
TGA	: > 270 °C (0.5% weight loss)

Reference: *Journal of Materials Chemistry C: Materials for Optical and Electronic Devices* (2013), 1(48), 8117-8127

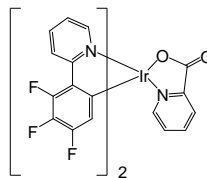


LT-N679 | Ir(tfpd)₂pic

Bis(3,4,5-trifluoro-2-(2-pyridyl)phenyl)-(2-carboxypyridyl)iridium(III)

CAS No.	: 1417790-60-3
Grade	: > 99% (HPLC)
Formula	: C ₂₈ H ₁₄ F ₆ IrN ₃ O ₂
M.W.	: 730.64 g/mole
UV	: 254 nm (in CH ₂ Cl ₂)
PL	: 483 nm (in CH ₂ Cl ₂)
TGA	: > 280 °C (0.5% weight loss)

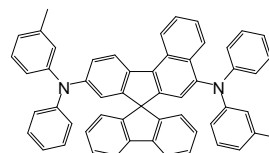
Reference: *Dyes and Pigments* (2013), 96(1), 237-241



LT-N680 | BD-6MDPA

N⁵,N⁶-Diphenyl-N⁵,N⁶-di-m-tolylspiro[benzo[c]fluorene-7,9'-fluorene]-5,9-diamine

CAS No.	: 1262281-91-3
Grade	: > 99% (HPLC)
Formula	: C ₅₅ H ₄₀ N ₂
M.W.	: 728.92 g/mole
UV	: 408 nm (in CH ₂ Cl ₂)
PL	: 468 nm (in CH ₂ Cl ₂)
TGA	: > 220 °C (0.5% weight loss)



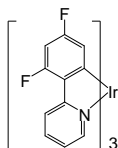
Organic Light Emitting Diode (OLED)

Blue Dopant Materials

LT-N697 | Ir(Fppy)₃

Tris(2-(4,6-difluorophenyl)pyridine)iridium(III)

CAS No. : 387859-70-3
Grade : > 99% (HPLC)
Formula : C₃₃H₁₈F₆IrN₃
M.W. : 762.72 g/mole
UV : 262 nm (in CH₂Cl₂)
PL : 493 nm (in CH₂Cl₂)
TGA : > 250 °C (0.5% weight loss)



LT-N832 | DBzA

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

CAS No. : 850018-19-8
Grade : Sublimed, > 99%
Formula : C₄₂H₂₈N₂S₂
M.W. : 624.82 g/mole
UV : 311, 376, 396 nm (in THF)
PL : 448 nm (in THF)
TGA : > 400 °C (0.5% weight loss)

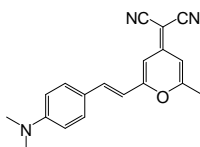


LT-E701 | DCM

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

CAS No. : 51325-91-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₁₉H₁₇N₃O
 M.W. : 303.36 g/mole
 UV : 462 nm (in THF)
 PL : 577 nm (in THF)
 TGA : > 250 °C (0.5% weight loss)

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

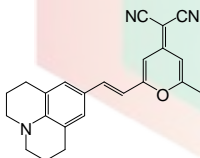


LT-E702 | DCM2

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

CAS No. : 51325-95-2
 Grade : > 99% (HPLC)
 Formula : C₂₃H₂₁N₃O
 M.W. : 355.43 g/mole
 UV : 497 nm (in THF)
 PL : 605 nm (in THF)
 TGA : > 230 °C (0.5% weight loss)

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

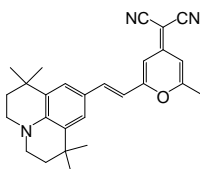


LT-E703 | DCJT

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

CAS No. : 159788-00-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₂₇H₂₉N₃O
 M.W. : 411.54 g/mole
 UV : 497 nm (in THF)
 PL : 604 nm (in THF)
 TGA : > 270 °C (0.5% weight loss)

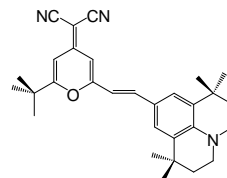
Reference : *Proc. 2nd Internat. Sym. Chem. Functional Dyes*, 1992, 536.



LT-E704 | DCJTB

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

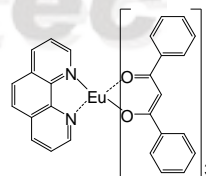
CAS No. : 200052-70-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₀H₃₅N₃O
 M.W. : 453.62 g/mole
 UV : 501 nm (in THF)
 PL : 602 nm (in THF)
 TGA : > 250 °C (0.5% weight loss)



LT-E706 | Eu(dbm)₃(Phen)

Tris(dibenzoylmethane)phenanthroline europium(III)

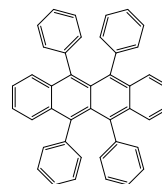
CAS No. : 17904-83-5
 Grade : Sublimed, > 99%
 Formula : C₅₇H₄₁N₂O₆Eu
 M.W. : 1001.93 g/mole
 UV : 257, 355 nm (in THF)
 PL : 615 nm (in THF)
 TGA : > 180 °C (0.5% weight loss)



LT-E707 | Rubrene

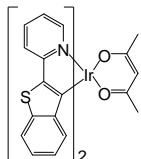
5,6,11,12-Tetraphenylnaphthalene

CAS No. : 517-51-1
 Grade : Sublimed, > 99%
 Formula : C₄₂H₂₈
 M.W. : 532.67 g/mole
 UV : 299 nm (in THF)
 PL : 553 nm (in THF)
 TGA : > 250 °C (0.5% weight loss)

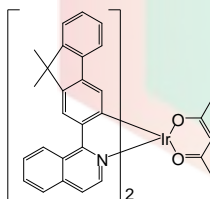


LT-E709 | Ir(btp)₂(acac)Bis(2-benzo[*b*]thiophen-2-yl-pyridine)(acetylacetonate)iridium(III)

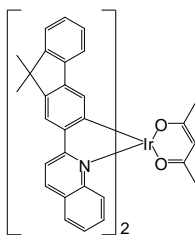
CAS No.	: 343978-79-0
Grade	: Sublimed, > 99% (HPLC)
Formula	: C ₃₁ H ₂₃ IrN ₂ O ₂ S ₂
M.W.	: 711.87 g/mole
UV	: 283 nm (in THF)
PL	: 615 nm (in THF)
TGA	: > 310 °C (0.5% weight loss)

**LT-N721** | Ir(fliq)₂(acac)Bis[1-(9,9-dimethyl-9*H*-fluoren-2-yl)-isoquinoline](acetylacetonate)iridium(III)

CAS No.	: 1617506-77-0
Grade	: Sublimed, > 98.5% (HPLC)
Formula	: C ₅₃ H ₄₃ IrN ₂ O ₂
M.W.	: 932.14 g/mole
UV	: 285, 368 nm (in THF)
PL	: 653 nm (in THF)
TGA	: > 350 °C (0.5% weight loss)

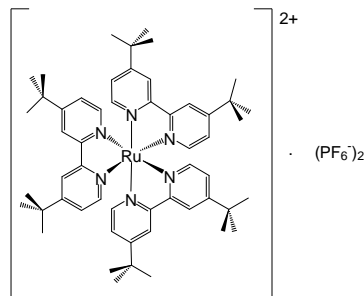
**LT-N724** | Ir(flq)₂(acac)Bis[2-(9,9-dimethyl-9*H*-fluoren-2-yl)quinoline](acetylacetonate)iridium(III)

CAS No.	: 889750-25-8
Grade	: Sublimed, > 99% (HPLC)
Formula	: C ₅₃ H ₄₃ IrN ₂ O ₂
M.W.	: 932.14 g/mole
UV	: 309, 368 nm (in THF)
PL	: 615 nm (in THF)
TGA	: > 320 °C (0.5% weight loss)

**LT-N727** | Ru(dtb-bpy)₃ · 2(PF₆)Tris[4,4'-di-*tert*-butyl-(2,2')-bipyridine]ruthenium(III) complex

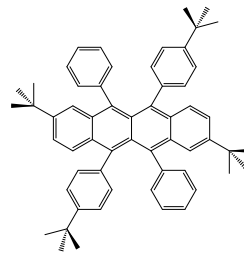
Grade	: Sublimed, > 99%
Formula	: C ₅₄ H ₇₂ F ₁₂ N ₆ P ₂ Ru
M.W.	: 1196.19 g/mole
UV	: 289, 462 nm (in THF)
PL	: 614 nm (in THF)
TGA	: > 350 °C (0.5% weight loss)

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

**LT-N732** | TBRb2,8-Di-*tert*-butyl-5,11-bis(4-*tert*-butylphenyl)-6,12-diphenyltetracene

CAS No.	: 682806-51-5
Grade	: Sublimed, > 99%
Formula	: C ₅₈ H ₆₀
UV	: 306 nm (in CH ₂ Cl ₂)
PL	: 571 nm (in CH ₂ Cl ₂)
TGA	: > 310 °C (0.5% weight loss)

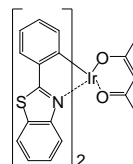
Reference : *Thin Solid Films* 496 (2006) 626~630

**LT-N733** | Ir(BT)₂(acac)

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

CAS No.	: 337526-88-2
Grade	: Sublimed, > 98.5% (HPLC)
Formula	: C ₃₁ H ₂₃ IrN ₂ O ₂ S ₂
M.W.	: 711.87 g/mole
UV	: 271 nm (in THF)
PL	: 563 nm (in THF)
TGA	: > 270 °C (0.5% weight loss)

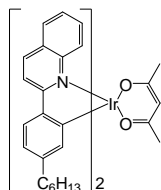
Reference : *Journal of Organometallic Chemistry*, Vol 689, Issue 26, P4882-4888, 2004.



LT-N740 | Hex-Ir(phq)₂(acac)

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

CAS No.	: 1404197-18-7
Grade	: 99% (HPLC)
Formula	: C ₄₇ H ₅₁ IrN ₂ O ₂
M.W.	: 868.14 g/mole
UV	: 344 nm (in CH ₂ Cl ₂)
PL	: 588 nm (in CH ₂ Cl ₂)
TGA	: > 210 °C (0.5% weight loss)

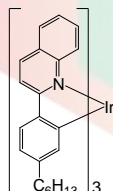


LT-N741 | Hex-Ir(phq)₃

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

CAS No.	: 1268460-37-2
Grade	: > 99% (HPLC)
Formula	: C ₆₃ H ₆₆ IrN ₃
M.W.	: 1057.43 g/mole
UV	: 323 nm (in CH ₂ Cl ₂)
PL	: 583 nm (in CH ₂ Cl ₂)
TGA	: > 250 °C (0.5% weight loss)

Reference: *Synthetic Metals* 161 (2011) 148–152

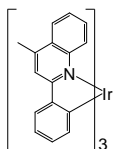


LT-N742 | Ir(Mphq)₃

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

CAS No.	: 1433853-90-7
Grade	: Sublimed, > 99% (HPLC)
Formula	: C ₄₈ H ₃₆ IrN ₃
M.W.	: 847.04 g/mole
UV	: 259, 270 nm (in CH ₂ Cl ₂)
PL	: 573 nm (in CH ₂ Cl ₂)
TGA	: > 350 °C (0.5% weight loss)

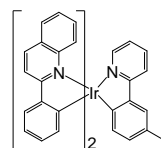
Reference: *Journal of Information Display* Vol. 12, No. 1, March 2011, 51–55



LT-N743 | Ir(phq)₂tpy

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

Grade	: Sublimed, > 99% (HPLC)
Formula	: C ₂₂ H ₃₀ IrN ₃
M.W.	: 768.93 g/mole
UV	: 256, 271 nm (in CH ₂ Cl ₂)
PL	: 604 nm (in CH ₂ Cl ₂)
TGA	: > 320 °C (0.5% weight loss)

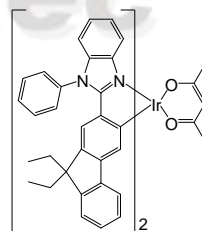


LT-N744 | Ir(fbi)₂(acac)

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

CAS No.	: 725251-24-1
Grade	: > 99% (HPLC)
Formula	: C ₆₅ H ₅₇ IrN ₄ O ₂
M.W.	: 1118.40 g/mole
UV	: 421 nm (in THF)
PL	: 538 nm (in THF)
TGA	: > 270 °C (0.5% weight loss)

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

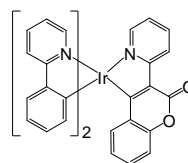


LT-N745 | *fac*-Ir(ppy)₂Pc

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

CAS No.	: 100367-98-4
Grade	: Sublimed, > 99% (HPLC)
Formula	: C ₃₆ H ₂₄ IrN ₃ O ₂
M.W.	: 722.82 g/mole
UV	: 319 nm (in CH ₂ Cl ₂)
PL	: 550 nm (in CH ₂ Cl ₂)
TGA	: > 340 °C (0.5% weight loss)

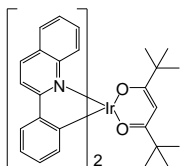
Reference: *Thin Solid Films* 496 (2006) 626–630



LT-N746 | Ir(dpm)PQ₂

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

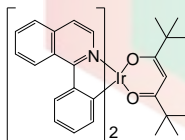
CAS No. : 713079-03-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₁H₃₉IrN₂O₂
 M.W. : 783.98 g/mole
 UV : 333 nm (in CH₂Cl₂)
 PL : 595 nm (in CH₂Cl₂)
 TGA : > 290 °C (0.5% weight loss)
 Reference : *J. Photopolym. Sci. Technol.*, Vol.21. No.2. 2008



LT-N747 | Ir(dpm)(piq)₂

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

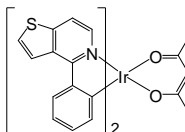
CAS No. : 1202867-58-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₁H₃₉IrN₂O₂
 M.W. : 783.98 g/mole
 UV : 354, 479 nm (in CH₂Cl₂)
 PL : 628 nm (in CH₂Cl₂)
 TGA : > 310 °C (0.5% weight loss)



LT-N748 | Ir(dpm)(piq)₂

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

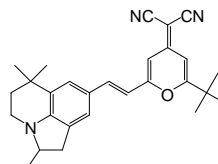
Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₁H₃₉IrN₂O₂
 M.W. : 783.98 g/mole
 UV : 354, 479 nm (in CH₂Cl₂)
 PL : 628 nm (in CH₂Cl₂)
 TGA : > 310 °C (0.5% weight loss)



LT-N749 | DCQTB

(E)-2-(2-tert-Butyl-6-(2-(2,6,6-trimethyl-2,4,5,6-tetrahydro-1H-pyrrolo[3,2,1-ij]quinolin-8-yl)vinyl)-4H-pyran-4-ylidene)malononitrile

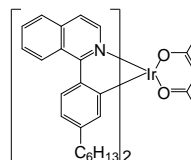
CAS No. : 953079-91-9
 Grade : > 98% (HPLC)
 Formula : C₂₈H₃₁N₃O
 M.W. : 425.57 g/mole
 UV : 485 nm (in THF)
 PL : 629 nm (in THF)
 TGA : > 340 °C (0.5% weight loss)
 Reference : *Adv. Funct. Mater.* 2007, 17, 93-100



LT-N751 | Hex-Ir(piq)₂(acac)

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

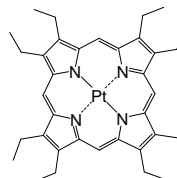
CAS No. : 435294-13-6
 Grade : > 99% (HPLC)
 Formula : C₄₇H₅₁IrN₂O₂
 M.W. : 868.22 g/mole
 UV : 301, 346 nm (in CH₂Cl₂)
 PL : 612 nm (in CH₂Cl₂)
 TGA : > 200 °C (0.5% weight loss)



LT-N752 | PtOEP

Platinum(II) octaethylporphine

CAS No. : 31248-39-2
 Grade : > 95% (HPLC)
 Formula : C₃₆H₄₄N₄Pt
 M.W. : 727.84 g/mole
 UV : 389, 534 nm (in CH₂Cl₂)
 PL : 649 nm (in CH₂Cl₂)
 TGA : > 290 °C (0.5% weight loss)

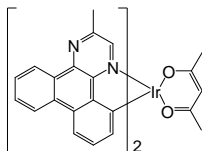


LT-N753 | Ir(MDQ)₂(acac)

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

CAS No. : 536755-34-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₉H₂₉IrN₄O₂
 M.W. : 777.88 g/mole
 UV : 325, 428 nm (in CH₂Cl₂)
 PL : 616 nm (in CH₂Cl₂)
 TGA : > 290 °C (0.5% weight loss)

Reference : *Adv. Mater.* 2003, 15, 3, p224-228

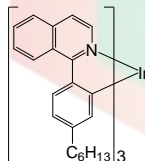


LT-N754 | Hex-Ir(piq)₃

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

CAS No. : 1240249-29-9
 Grade : > 99% (HPLC)
 Formula : C₆₃H₆₆IrN₃
 M.W. : 1057.43 g/mole
 UV : 325 nm (in CH₂Cl₂)
 PL : 617 nm (in CH₂Cl₂)
 TGA : > 250 °C (0.5% weight loss)

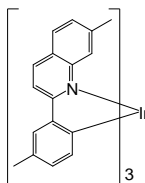
Reference : *Synthetic Metals* 161 (2011) 148-152



LT-N757 | Ir(dmpq)₃

Tris(2-(3-methylphenyl)-7-methyl-quinolato)iridium

Grade : Sublimed, > 99% (HPLC)
 Formula : C₆₁H₄₂IrN₃
 M.W. : 889.12 g/mole
 TGA : > 280 °C (0.5% weight loss)

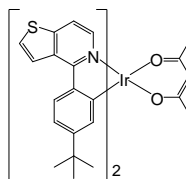


LT-N758 | PO-01-TB

Iridium(III) bis(4-(4-*tert*-butylphenyl) thieno[3,2-*c*]pyridinato-*N,C2'*) acetylacetonate

CAS No. : 1267497-10-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₉H₃₉IrN₂O₂S₂
 M.W. : 824.21 g/mole
 UV : 448 nm (in CH₂Cl₂)
 PL : 562 nm (in CH₂Cl₂)
 TGA : > 250 °C (0.5% weight loss)

Reference : 1. *TW I395804*, *US 8,722,207*;
 2. *Organic Electronics*, 2012, 13, 2149-2155 ;
 3. *Mater. Chem. C*, 2013, 1, 5008-5014

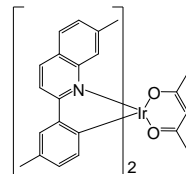


LT-N762 | Ir(dmpq)₂acac

Bis[2-(2-methylphenyl)-7-methyl-quinoline](acetylacetonate)iridium(III)

CAS No. : 909542-64-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₉H₃₅IrN₂O₂
 M.W. : 755.92 g/mole
 UV : 273, 348 nm (in CH₂Cl₂)
 PL : 600 nm (in CH₂Cl₂)
 TGA : > 320 °C (0.5% weight loss)

Reference : *Thin Solid Films* 496 (2006)626-630

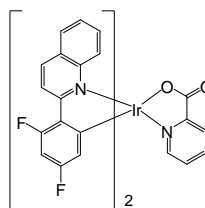


LT-N765 | FPQIpic

Iridium(III) bis(2-(2,4-difluorophenyl)quinoline) picolinate

CAS No. : 1621179-34-7
 Grade : > 99% (HPLC)
 Formula : C₃₆H₁₁F₄IrN₃O₂
 M.W. : 795.11 g/mole
 UV : 342 nm (in THF)
 PL : 554 nm (in THF)
 TGA : > 270 °C (0.5% weight loss)

Reference : *Organic Electronics* (2013), 14(6), 1504-1509



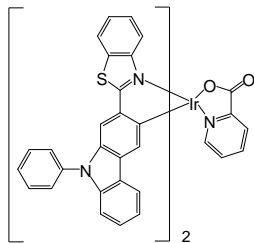
Organic Light Emitting Diode (OLED)

Red Dopant Materials

LT-N766 | Ir(2-BtcPh)₂(pic)

Bis[2-(9-phenylcarbazol-2-yl)-benzothiazole] iridium(III) picolinate

CAS No. : 1452824-22-4
Grade : Sublimed, > 99% (HPLC)
Formula : C₅₆H₃₄IrN₅O₂S₂
M.W. : 1065.18 g/mole
UV : 324 nm (in CH₂Cl₂)
PL : 624 nm (in CH₂Cl₂)
TGA : > 280 °C (0.5% weight loss)

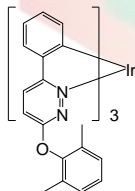


LT-N767 | Ir(DMP)₃

Tris[3-(2,6-dimethylphenoxy)-6-phenylpyridazine] iridium(III)

CAS No. : 1542693-87-7
Grade : Sublimed, > 99% (HPLC)
Formula : C₅₄H₄₅IrN₆O₃
M.W. : 1018.19 g/mole
UV : 250 nm (in CH₂Cl₂)
PL : 552 nm (in CH₂Cl₂)

Reference : RSC Advances (2013), 3(1), 215-220

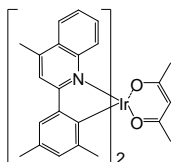


LT-N768 | Ir(mphmq)₂acac

Bis[2-(3,5-dimethylphenyl)-4-methyl-quinoline] (acetylacetonate)iridium(III)

CAS No. : 1228537-77-6
Grade : Sublimed, > 99% (HPLC)
Formula : C₄₁H₂₉IrN₂O₂
M.W. : 783.98 g/mole
UV : 432, 568 nm (in CH₂Cl₂)
PL : 583 nm (in CH₂Cl₂)
TGA : > 220 °C (0.5% weight loss)

Reference : Organic Electronics Volume 13, Issue 10, October 2012, Pages 1956-1961



LT-N771 | PR-08

Grade : > 99% (HPLC)
UV : 254, 301, 523 nm (in CH₂Cl₂)
PL : 593 nm (in CH₂Cl₂)
TGA : > 230 °C (0.5% weight loss)
Reference : Applied Mechanics and Materials, 2015, 748 57-61

LT-N772 | PO-10

Grade : > 99% (HPLC)
UV : 460 nm (in CH₂Cl₂)
PL : 582 nm (in CH₂Cl₂)
TGA : > °C (0.5% weight loss)
Reference : Applied Mechanics and Materials, 2015, 748 57-61

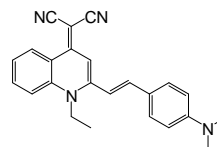
LT-N777 | PO-10

Grade : > 99% (HPLC)
UV : 258, 292, 413 nm (in CH₂Cl₂)
PL : 558 nm (in CH₂Cl₂)
TGA : > 260 °C (0.5% weight loss)
Reference : Applied Mechanics and Materials, 2015, 748 57-61

LT-N778 | ED

(E)-2-(2-(4-(Dimethylamino)styryl)-1-ethylquinolin-4(1H)-ylidene)malononitrile

CAS No. : 1415845-07-6
Grade : > 99% (HPLC)
Formula : C₂₄H₂₂N₄
M.W. : 366.4680 g/mole
UV : 430 nm (in THF)
PL : 594 nm (in THF)
TGA : > 250 °C (0.5% weight loss)
Reference : ACS Appl. Mater. Interfaces 2013, 5, 192

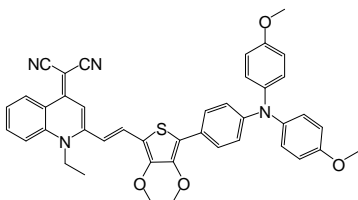


LT-N779 | QM-5

(E)-2-(2-(2-(7-(4-(Bis(4-methoxyphenyl)amino)phenyl)phenyl)-2,3-dihydrothieno[3,4-b][1,4]dioxin-5-yl)vinyl)-1-ethylquinolin-4(1H)-ylidene)malononitrile

CAS No. : 1651166-05-0
Grade : > 99% (HPLC)
Formula : $C_{42}H_{34}N_4O_4S$
M.W. : 690.8180 g/mole
TGA : > 250 °C (0.5% weight loss)

Reference : *Angew. Chem. Int. Ed.* 2015, DOI:10.1002/anie.201501478

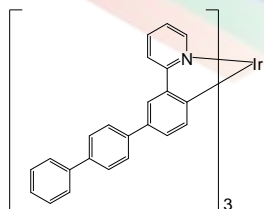


LT-N780 | Ir(ppy)₃-Bp

Tris[1,1':4',1''-terphenyl-2-(2-pyridinyl- κ N)phenyl- κ C]iridium

CAS No. : 1404192-47-7
Grade : > 99% (HPLC)
Formula : $C_{69}H_{48}IrN_3$
M.W. : 1111.36 g/mole
UV : 294 nm (in CH_2Cl_2)
PL : 520 nm (in CH_2Cl_2)
TGA : > 250 °C (0.5% weight loss)

Reference : *Advanced Functional Materials* (2012), 22(16), 3406-3413



Organic Light Emitting Diode (OLED)

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

LT-E301 | Liq

8-Hydroxyquinolinolato-lithium

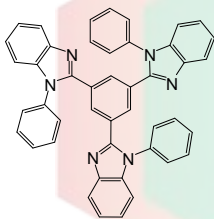
CAS No. : 850918-68-2
Grade : Sublimed, > 99.5% (HPLC)
Formula : C_9H_6NOLi
M.W. : 151.09 g/mole
UV : 261 nm (in THF)
PL : 331 nm (in THF)
TGA : > 310 °C (0.5% weight loss)



LT-E302 | TPBi

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

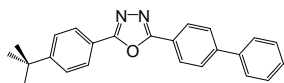
CAS No. : 192198-85-9
Grade : Sublimed, > 99.5% (HPLC)
Formula : $C_{45}H_{30}N_6$
M.W. : 654.76 g/mole
UV : 305 nm (in THF)
PL : 370 nm (in THF)
TGA : > 350 °C (0.5% weight loss)



LT-E303 | PBD

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

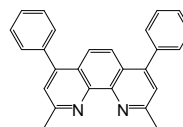
CAS No. : 15082-28-7
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{24}H_{22}N_2O$
M.W. : 354.44 g/mole
UV : 305 nm (in THF)
PL : 380 nm (in THF)
TGA : > 210 °C (0.5% weight loss)



LT-E304 | BCP

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

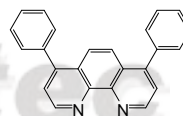
CAS No. : 4733-39-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{26}H_{20}N_2$
M.W. : 360.45 g/mole
UV : 277 nm (in THF)
PL : 386 nm (in THF)
TGA : > 240 °C (0.5% weight loss)



LT-E305 | Bphen

4,7-Diphenyl-1,10-phenanthroline

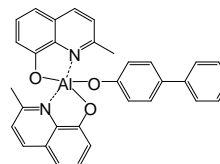
CAS No. : 1662-01-7
Grade : Sublimed, > 99.5% (HPLC)
Formula : $C_{24}H_{16}N_2$
M.W. : 332.4 g/mole
UV : 272 nm (in THF)
PL : 379 nm (in THF)
TGA : > 240 °C (0.5% weight loss)



LT-E407 | BALq

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

CAS No. : 146162-54-1
Grade : Sublimed, > 99%
Formula : $C_{32}H_{25}N_2O_3Al$
M.W. : 512.53 g/mole
UV : 259 nm (in THF)
PL : 477 nm (in THF)
TGA : > 230 °C (0.5% weight loss)

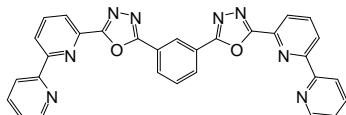


LT-N821 | Bpy-OXD

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

CAS No. : 866117-19-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{30}H_{18}N_8O_2$
 M.W. : 522.52 g/mole
 UV : 276, 308 nm (in THF)
 PL : 348 nm (in THF)
 TGA : > 300 °C (0.5% weight loss)

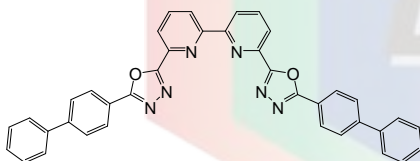
Reference : *J. Mater. Chem.*, 2006, 16, 221-225



LT-N828 | BP-OXD-Bpy

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

CAS No. : 1219827-28-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{38}H_{24}N_8O_2$
 M.W. : 596.64 g/mole
 UV : 319 nm (in THF)
 PL : 372 nm (in THF)
 TGA : > 350 °C (0.5% weight loss)



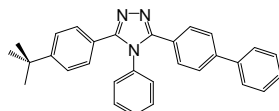
LT-N836 | TAZ

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

CAS No. : 150405-69-9
 Grade : Sublimed, > 98% (HPLC)
 Formula : $C_{30}H_{27}N_3$
 M.W. : 429.56 g/mole
 UV : 290 nm (in THF)
 PL : 370 nm (in THF)
 TGA : > 250 °C (0.5% weight loss)

Reference : 1. *Appl. Phys. Lett.* Vol. 85, No. 21, 22 November 2

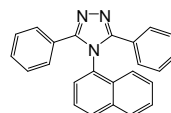
2. *Appl. Phys. Lett.* 87, 193501 (2005)



LT-N837 | NTAZ

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

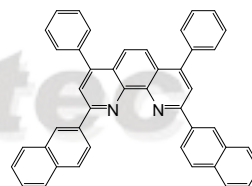
CAS No. : 16152-10-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{24}H_{17}N_3$
 M.W. : 347.41 g/mole
 UV : 264 nm (in CH_2Cl_2)
 PL : 367 nm (in CH_2Cl_2)
 TGA : > 260 °C (0.5% weight loss)



LT-N843 | NBphen

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

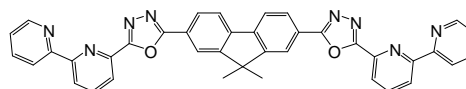
CAS No. : 1174006-43-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{44}H_{28}N_2$
 M.W. : 584.71 g/mole
 UV : 264, 349 nm (in THF)
 PL : 412 nm (in THF)
 TGA : > 340 °C (0.5% weight loss)



LT-N851 | Bpy-FOX

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

CAS No. : 1174006-45-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{39}H_{26}N_8O_2$
 M.W. : 638.68 g/mole
 UV : 348, 365 nm (in CH_2Cl_2)
 PL : 399 nm (in CH_2Cl_2)
 TGA : > 350 °C (0.5% weight loss)



Organic Light Emitting Diode (OLED)

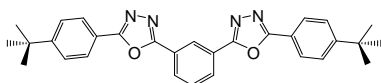
Electron Transport Layer / Hole Blocking Layer(ETL/HBL) Materials

LT-N855 | OXD-7

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

CAS No. : 138372-67-5
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{30}H_{30}N_4O_2$
M.W. : 478.58 g/mole
UV : 292 nm (in THF)
PL : 347 nm (in THF)
TGA : > 290 °C (0.5% weight loss)

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

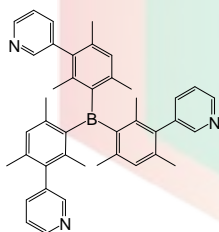


LT-N856 | 3TPYMB

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

CAS No. : 929203-02-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{42}H_{42}BN_3$
M.W. : 599.61 g/mole
UV : 331 nm (in THF)
PL : 382 nm (in THF)
TGA : > 230 °C (0.5% weight loss)

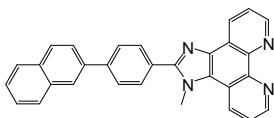
Reference : *Chemistry Letters, Vol. 36, No. 2, P262, 2007*.



LT-N857 | 2-NPIP

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

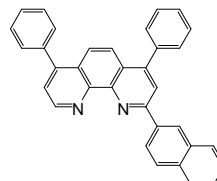
CAS No. : 1234997-42-2
Grade : Sublimed, > 99%
Formula : $C_{30}H_{20}N_4$
M.W. : 436.51 g/mole
UV : 275 nm (in CH_2Cl_2)
PL : 412 nm (in CH_2Cl_2)
TGA : > 360 °C (0.5% weight loss)



LT-N860 | HNBphen

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

CAS No. : 923972-84-3
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{34}H_{22}N_2$
M.W. : 458.55 g/mole
UV : 281,327 nm (in CH_2Cl_2)
PL : 398 nm (in CH_2Cl_2)
TGA : > 320 °C (0.5% weight loss)

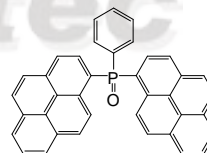


LT-N861 | POPy₂

Phenyl-dipyrenylphosphine oxide

CAS No. : 721969-93-3
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{38}H_{23}OP$
M.W. : 526.56 g/mole
UV : 281, 360 nm (in CH_2Cl_2)
PL : 382 nm (in CH_2Cl_2)
TGA : > 370 °C (0.5% weight loss)

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

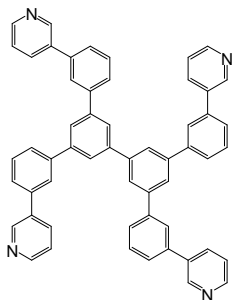


LT-N862 | BP4mPy

3,3',5,5'-Tetra[*m*-pyridyl]-phen-3-yl]biphenyl

CAS No. : 1009033-94-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{26}H_{18}N_4$
 M.W. : 378.42 g/mole
 UV : 253 nm (in THF)
 PL : 352 nm (in THF)
 TGA : > 370 °C (0.5% weight loss)

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

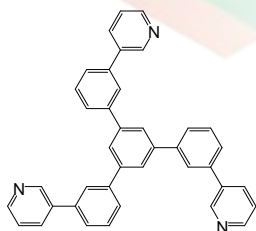


LT-N863 | TmPyPB

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

CAS No. : 921205-03-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{39}H_{27}N_3$
 M.W. : 537.65 g/mole
 UV : 254 nm (in CH_2Cl_2)
 PL : 353 nm (in CH_2Cl_2)
 TGA : > 310 °C (0.5% weight loss)

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

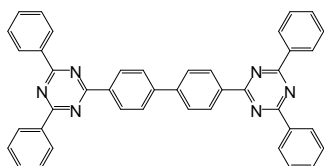


LT-N864 | BTB

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

CAS No. : 266349-83-1
 Grade : Sublimed product
 Formula : $C_{42}H_{28}N_6$
 M.W. : 616.71 g/mole
 TGA : > 360 °C (0.5% weight loss)

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

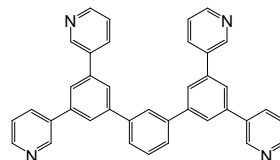


LT-N865 | BmPyPhB

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

CAS No. : 1030380-38-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{38}H_{26}N_4$
 M.W. : 538.64 g/mole
 UV : 250 nm (in CH_2Cl_2)
 PL : 357 nm (in CH_2Cl_2)
 TGA : > 350 °C (0.5% weight loss)

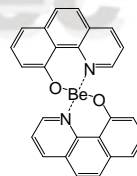
Reference : *Chem. Mater.* 2008, 20, 5951-5953



LT-N868 | Bepq₂

2-(4-(9,10-Di(naphthalen-2-yl)anthracen-2-yl)phenyl)-1-phenyl-1*H*-phenanthro[9,10-*d*]imidazole

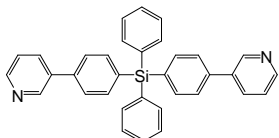
CAS No. : 148896-39-3
 Grade : Sublimed product
 Formula : $C_{26}H_{16}BeN_2O_2$
 M.W. : 397.43 g/mole
 UV : 406 nm (in CH_2Cl_2)
 PL : 440 nm (in CH_2Cl_2)
 TGA : > 320 °C (0.5% weight loss)



LT-N869 | DPPS

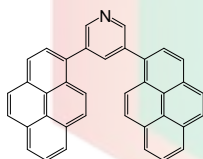
Diphenylbis(4-(pyridin-3-yl)phenyl)silane

CAS No. : 1152162-74-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{34}H_{26}N_2Si$
 M.W. : 490.67 g/mole
 UV : 251 nm (in CH_2Cl_2)
 PL : 366 nm (in CH_2Cl_2)
 TGA : > 230 °C (0.5% weight loss)
 Reference : *Adv. Mater.* 2009, 21, 1271–1274

**LT-N870** | PY1

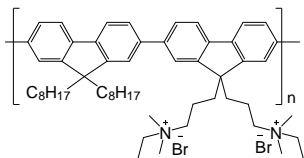
3,5-Di(pyren-1-yl)pyridine

CAS No. : 1246467-58-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{37}H_{21}N$
 M.W. : 479.57 g/mole
 UV : 246, 282, 351 nm (in CH_2Cl_2)
 PL : 389 nm (in CH_2Cl_2)
 TGA : > 390 °C (0.5% weight loss)
 Reference : *Organic electronics*.10,(2009),877-882

**LT-N878** | PFNBr

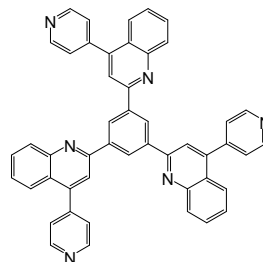
Poly[(9,9-bis(3'-((N,N-dimethyl)-N-ethylammonium)propyl)-2,7-fluorene)-alt-2,7-(9,9-dioctylfluorene)]

Grade : $M_w > 10,000$ (GPC)
 Formula : $(C_{56}H_{80}N_2Br_2)_n$
 UV : 375 nm (in MeOH)
 PL : 440 nm (in MeOH)
 Solubility : Soluble in MeOH
 Reference : *Chem. Mater.*, 2004, 16, 708

**LT-N879** | TPyQB

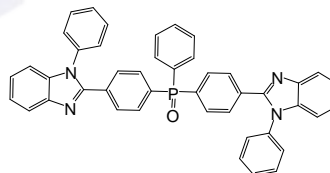
1,3,5-Tris(4-(pyridin-4-yl)quinolin-2-yl)benzene

CAS No. : 1350742-68-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{48}H_{30}N_6$
 M.W. : 690.79 g/mole
 PL : 381 nm (in CH_2Cl_2)
 TGA : > 400 °C (0.5% weight loss)
 Reference : *Advanced Functional Materials* (2011), 21(20), 3889-3899.

**LT-N885** | BIPO

2,2'-(4,4'-(Phenylphosphoryl)bis(4,1-phenylene))bis(1-phenyl-1H-benzodimidazole)

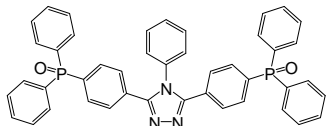
CAS No. : 1426143-77-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{44}H_{31}N_4OP$
 M.W. : 662.72 g/mole
 UV : 309 nm (in CH_2Cl_2)
 PL : 379 nm (in CH_2Cl_2)
 TGA : > 250 °C (0.5% weight loss)



LT-N886 | TPO

3,5-Bis(4-(diphenylphosphoryl)phenyl)-4-phenyl-4H-1,2,4-triazole

CAS No. : 1456769-77-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{44}H_{35}N_3O_2P_2$
 M.W. : 697.7 g/mole
 UV : 281 nm (in CH_2Cl_2)
 PL : 363 nm (in CH_2Cl_2)
 TGA : > 250 °C (0.5% weight loss)

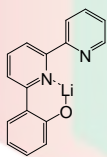


LT-N887 | Libpp

Lithium 2-(2', 2''-bipyridine-6'-yl)phenolate

CAS No. : 1049805-81-3
 Grade : Sublimed, > 99% (NMR)
 Formula : $C_{16}H_{11}LiN_2O$
 M.W. : 254.21 g/mole
 UV : 235, 265 nm (in CH_2Cl_2)
 PL : 345 nm (in CH_2Cl_2)
 TGA : > 220 °C (0.5% weight loss)

Reference : *Organic Electronics* (2009), 10(2), 228-232

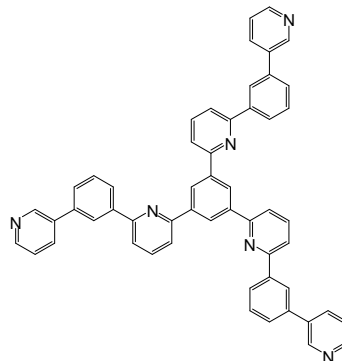


LT-N889 | Tm3PyP26PyB

1,3,5-Tris(6-(3-(pyridin-3-yl)phenyl)pyridin-2-yl)benzene

CAS No. : 1492917-78-8
 Grade : Sublimed, > 99% (NMR)
 Formula : $C_{54}H_{36}N_6$
 M.W. : 768.9 g/mole
 UV : 255 nm (in CH_2Cl_2)
 PL : 357 nm (film)
 TGA : > 280 °C (0.5% weight loss)

Reference : *Advanced Functional Materials* (2014), 24(21), 3268-3275

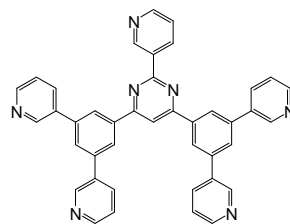


LT-N890 | B3PYPPM

4,6-Bis(3,5-di(pyridin-3-yl)phenyl)-2-(pyridin-3-yl)pyrimidine

CAS No. : 1382639-67-9
 Grade : Sublimed, > 99% (NMR)
 Formula : $C_{41}H_{27}N_7$
 M.W. : 617.7 g/mole
 UV : 255 nm (in CH_2Cl_2)
 TGA : > 280 °C (0.5% weight loss)

Reference : *Chemistry of Materials* (2012), 24(20), 3817-3827



Organic Light Emitting Diode (OLED)

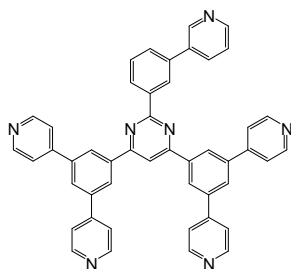
Electron Transport Layer / Hole Blocking Layer(ETL/HBL) Materials

LT-N891 | B4PYPPyPM

4,6-Bis(3,5-di(pyridin-4-yl)phenyl)-2-(3-(pyridin-3-yl)phenyl)pyrimidine

CAS No. : 1382639-70-4
Grade : Sublimed, > 99% (NMR)
Formula : $C_{47}H_{31}N_7$
M.W. : 693.8 g/mole
UV : 255 nm (in CH_2Cl_2)
TGA : > 280 °C (0.5% weight loss)

Reference : *Chemistry of Materials* (2012), 24(20), 3817-3827

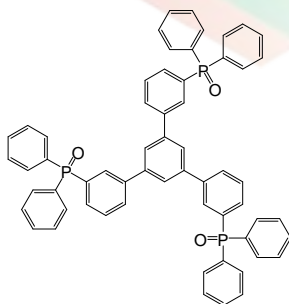


LT-N892 | TP3PO

1,3,5-Tri(diphenylphosphoryl-phen-3-yl) benzene

CAS No. : 1311378-95-6
Grade : Sublimed, > 98% (HPLC)
Formula : $C_{60}H_{45}O_3P_3$
M.W. : 906.92 g/mole
UV : 259 nm (in CH_2Cl_2)
PL : 349 nm (in CH_2Cl_2)
TGA : > 250 °C (0.5% weight loss)

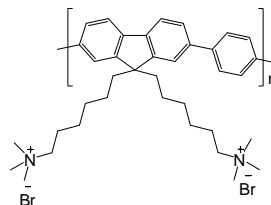
Reference : *Chemistry of Materials* (2014), 26(3), 1463-1470



LT-N894 | FPQ-Br

Poly[9,9-bis[6'-(*N,N,N*-trimethylammonium)hexyl]fluorene-*alt-co*-1,4-phenylene]bromide

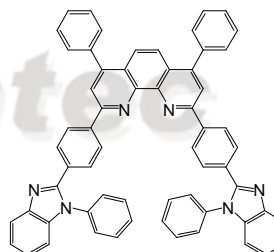
Grade : $M_w > 20,000$ (GPC)
Formula : $(C_{37}H_{52}Br_2N_2)_n$
Reference : *Adv Mater*, 2011, V23, 2759-2763



LT-N8001 | DBimiBphen

4,7-Diphenyl-2,9-bis(4-(1-phenyl-1*H*-benzo[*d*]imidazol-2-yl)phenyl)-1,10-phenanthroline

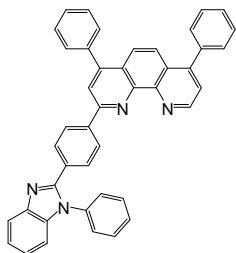
CAS No. : 1447848-17-0
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{62}H_{40}N_6$
M.W. : 869.02 g/mole
UV : 319, 357 nm (in CH_2Cl_2)
TGA : > 400 °C (0.5% weight loss)



LT-N8002 | BimiBphen

4,7-Diphenyl-2-(4-(1-phenyl-1*H*-benzo[*d*]imidazol-2-yl)phenyl)-1,10-phenanthroline

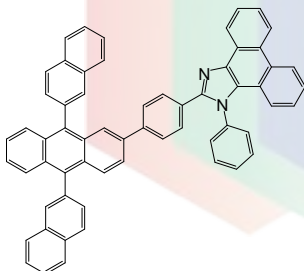
Grade : Sublimed, > 99% (HPLC)
Formula : C₄₃H₂₈N₄
M.W. : 600.71 g/mole
TGA : > 350 °C (0.5% weight loss)



LT-N8003 | ADN-PAimi

2-(4-(9,10-Di(naphthalen-2-yl)anthracen-2-yl)phenyl)-1-phenyl-1*H*-phenanthro[9,10-*d*]imidazole

CAS No. : 1197176-03-6
Grade : Sublimed, > 99% (HPLC)
Formula : C₆₁H₃₈N₂
M.W. : 798.97 g/mole
TGA : > 350 °C (0.5% weight loss)



Organic Light Emitting Diode (OLED)

Electron Injection Layer(EIL) Materials / Metal

LT-E001 | LiF

Lithium fluoride

CAS No. : 7789-24-4
Grade : > 99.99%
Formula : LiF
M.W. : 25.94 g/mole
Melting Point : 848 °C
Boiling Point : 1681 °C

LT-E002 | Cs₂CO₃

Cesium carbonate

CAS No. : 534-17-8
Grade : > 99.994%
Formula : Cs₂CO₃
M.W. : 325.82 g/mole
Melting Point : 610 °C

LT-E003 | MoO₃

Molybdenum(VI) Oxide

CAS No. : 1313-27-5
Grade : > 99.998%
Formula : MoO₃
M.W. : 143.94 g/mole
Melting Point : 795 °C

LT-E004 | CsF

Cesium fluoride

CAS No. : 13400-13-0
Grade : > 99%
Formula : CsF
M.W. : 151.90 g/mole
Melting Point : 682 °C

LT-E005 | Al

Aluminium

CAS No. : 7429-90-5
Grade : > 99.999%
Formula : Al
M.W. : 26.98 g/mole
Melting Point : 660 °C

Lumtec