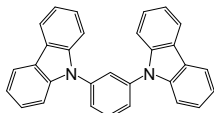


LT-E107 | MCP

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)

Reference : 1. *J. Mater. Chem. C*, 2014, 2, 8191
 2. *Chem. Commun.*, 2015, 51, 3181

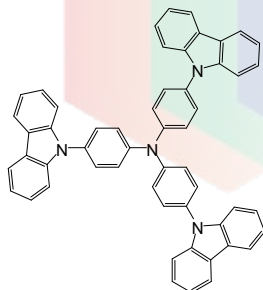


LT-E207 | TcTa

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 : *Nature Photonics* 8, 326–332 (2014)

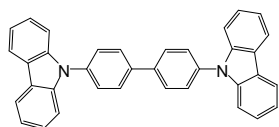


LT-E409 | CBP

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)

Reference : *Nature Photonics* 8, 326–332 (2014)

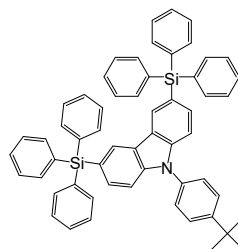


LT-N484 | CzSi

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

CAS No. : 898546-82-2
 Grade : Sublimed, > 99%
 Formula : $C_{58}H_{49}NSi_2$
 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 : 1. *Adv. Mater.* (2014), 26(38), 6642-6646
 2. *J. Am. Chem. Soc.* 2012, 134, 14706–14709

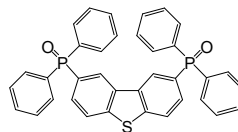


LT-N4006 | PPT

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

CAS No. : 1019842-99-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{36}H_{26}O_2P_2S$
 M.W. : 584.60 g/mole
 UV : 315, 328 nm (in CH_2Cl_2)
 PL : 351 nm (in CH_2Cl_2)
 TGA : > 320 °C (0.5% weight loss)

Reference : *Appl. Phys. Lett.* 104, 233304 (2014)

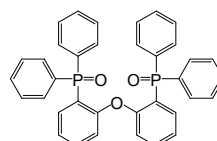


LT-N4060 | DPEPO

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 : 1. *Nature Materials* 14, 330–336 (2015)
 2. *J. Am. Chem. Soc.* 2012, 134, 14706–14709

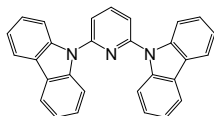


LT-N4072 | PYD-2Cz

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

CAS No. : 168127-49-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₂₉H₁₉N₃
 M.W. : 409.48 g/mole
 UV : 241,290 nm (in CH₂Cl₂)
 PL : 373 nm (in THF)
 TGA : > 250 °C (0.5% weight loss)

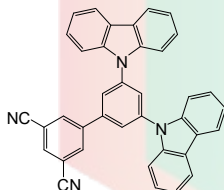
Reference : *Chem. Mater.* 2013, 25, 3910–3920



LT-N4098 | DCzDCN

3',5'-Di(carbazol-9-yl)-[1,1'-biphenyl]-3,5-dicarbonitrile

CAS No. : 1352800-07-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₈H₂₂N₄
 M.W. : 534.61 g/mole
 UV : 251, 291 nm (in CH₂Cl₂)
 PL : 324 nm (in THF)
 TGA : > 270 °C (0.5% weight loss)

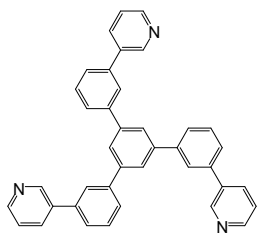


LT-N863 | TmPyPB

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

CAS No. : 921205-03-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₉H₂₇N₃
 M.W. : 537.65 g/mole
 UV : 254 nm (in CH₂Cl₂)
 PL : 353 nm (in CH₂Cl₂)
 TGA : > 310 °C (0.5% weight loss)

Reference : *Adv. Mater.* (2014), 26(30), 5198-5204

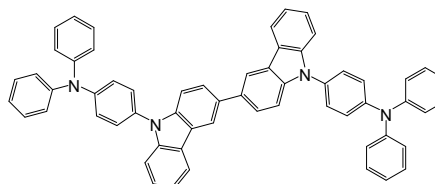


LT-N4102 | BCzTPA

4'-(9*H*-carbazol-9-yl)biphenyl-3,5-dicarbonitrile

CAS No. : 1032174-52-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₆₀H₄₂N₄
 M.W. : 819.00 g/mole
 UV : 310, 341 nm (film)
 PL : 397 nm (film)
 TGA : > 300 °C (0.5% weight loss)

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

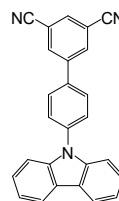


LT-N4104 | pCzB-2CN

4'-(9*H*-carbazol-9-yl)biphenyl-3,5-dicarbonitrile

CAS No. : 1646323-59-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₂₆H₁₅N₃
 M.W. : 369.42 g/mole
 UV : 330 nm (in CH₂Cl₂)
 PL : 450 nm (in CH₂Cl₂)
 TGA : > 220 °C (0.5% weight loss)

Reference : *Adv. Mater.* (2014), 26(30), 5198-5204

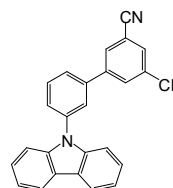


LT-N4105 | mCzB-2CN

3'-(9*H*-carbazol-9-yl)biphenyl-3,5-dicarbonitrile

CAS No. : 1646323-60-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₂₆H₁₅N₃
 M.W. : 369.42 g/mole
 UV : 330 nm (in CH₂Cl₂)
 PL : 450 nm (in CH₂Cl₂)
 TGA : > 220 °C (0.5% weight loss)

Reference : *Adv. Mater.* (2014), 26(30), 5198-5204

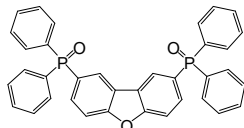


LT-N4106 | PPF

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

CAS No. : 911397-27-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{36}H_{26}O_3P_2$
 M.W. : 568.54 g/mole
 UV : 300 nm (in CH_2Cl_2)
 PL : 440 nm (in CH_2Cl_2)
 TGA : > 250 °C (0.5% weight loss)

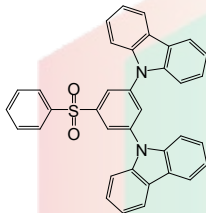
Reference : *Chem. Commun.*, 2012, 48, 9580-9582



LT-N4112 | mCPSOB

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

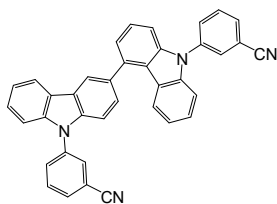
CAS No. : 1374770-41-8
 Formula : $C_{36}H_{24}N_2O_2S$
 M.W. : 548.65 g/mole



LT-N4119 | 3CN34BCz

3,3'-(9*H*,9'*H*-3,4'-bicarbazole-9,9'-diyl)dibenzonitrile

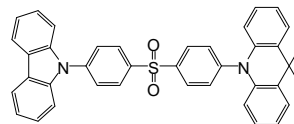
CAS No. : 1622297-83-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{38}H_{22}N_4$
 M.W. : 534.61 g/mole
 TGA : > 200 °C (0.5% weight loss)



LT-N4120 | CzAcSF

10-(4-(4-(9*H*-carbazol-9-yl)phenylsulfonyl)phenyl)-9,9-dimethyl-9,10-dihydroacridine

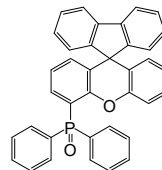
CAS No. : 1792173-34-2
 Formula : $C_{39}H_{30}N_2O_2S$
 M.W. : 590.73 g/mole



LT-N4123 | SFXSPO

Diphenylspiro[9*H*-fluorene-9,9'-(9*H*)xanthen]-4'-ylphosphine oxide

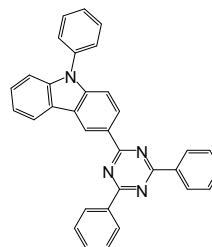
CAS No. : 1508022-28-3
 Grade : Sublimed, > 99%
 Formula : $C_{37}H_{26}O_2P$
 M.W. : 532.57 g/mole



LT-N4126 | DPTPCz

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

CAS No. : 1313391-57-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{33}H_{22}N_4$
 M.W. : 474.55 g/mole



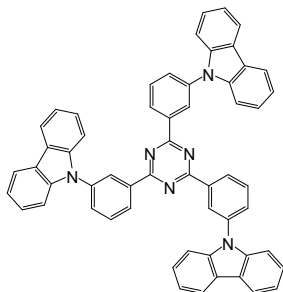
Thermally Activated Delayed Fluorescence (TADF) OLED

TADF Host Materials

LT-N4128 | TCPZ

2,4,6-Tris(3-(9H-carbazol-9-yl)phenyl)-1,3,5-triazine

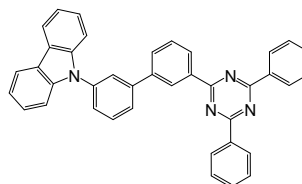
CAS No. : 890148-68-2
Grade : Sublimed, > 99%
Formula : $C_{27}H_{15}N_6$
M.W. : 804.94 g/mole



LT-N4133 | Cz-m2Ph-TRZ

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

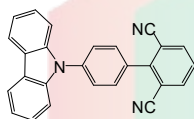
CAS No. : 1106730-56-6
Grade : Sublimed, > 99%
Formula : $C_{39}H_{26}N_4$
M.W. : 550.65 g/mole



LT-N4130 | CzPhDCN in

4'-(9H-carbazol-9-yl)biphenyl-2,6-dicarbonitrile

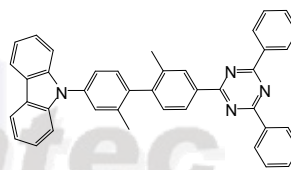
Grade : Sublimed, > 99%
Formula : $C_{26}H_{15}N_3$
M.W. : 369.42 g/mole



LT-N4134 | Cz-DMBP-TRZ

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

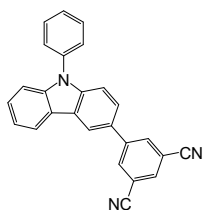
Grade : Sublimed, > 99%
Formula : $C_{41}H_{30}N_4$
M.W. : 578.7 g/mole



LT-N4131 | 4-CzDCN out

5-(9-Phenyl-9H-carbazol-3-yl)isophthalonitrile

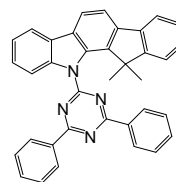
Grade : Sublimed, > 99%
Formula : $C_{26}H_{15}N_3$
M.W. : 369.42 g/mole



LT-N4135 | 2FICz-TRZ

11-(4,6-diphenyl-1,3,5-triazin-2-yl)-12,12-dimethyl-11,12-dihydroindeno

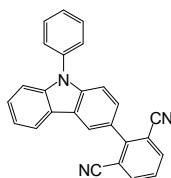
CAS No. : 1373216-13-7
Grade : Sublimed, > 99%
Formula : $C_{36}H_{26}N_4$
M.W. : 514.62 g/mole



LT-N4132 | 4-CzDCN in

2-(9-phenyl-9H-carbazol-3-yl)isophthalonitrile

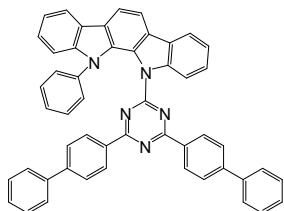
Grade : Sublimed, > 99%
Formula : $C_{26}H_{15}N_3$
M.W. : 369.42 g/mole



LT-N4136 | p-DIC-TRZ-2Ph

11-(4,6-Di(biphenyl-4-yl)-1,3,5-triazin-2-yl)-12-phenyl-11,12-dihydroindolo [2,3-a]carbazole

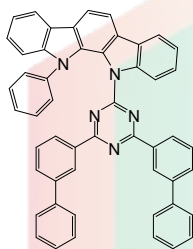
Grade : > 98% (HPLC)
 Formula : $C_{51}H_{33}N_5$
 M.W. : 715.84 g/mole



LT-N4137 | m-DIC-TRZ-2Ph

11-(4,6-Di(biphenyl-3-yl)-1,3,5-triazin-2-yl)-12-phenyl-11,12-dihydroindolo[2,3-a]carbazole

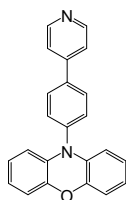
Grade : > 98% (HPLC)
 Formula : $C_{51}H_{33}N_5$
 M.W. : 715.84 g/mole



LT-N4138 |

10-(4-(pyridin-4-yl)phenyl)-10H-phenoxazine

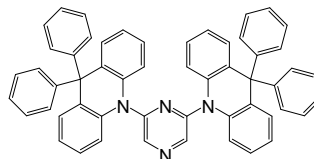
CAS No. : 1826129-73-0
 Grade : Sublimed, > 98%
 Formula : $C_{23}H_{16}N_2O$
 M.W. : 336.39 g/mole



LT-N4140 | PrDPhAc

2,6-bis(9,9-diphenylacridin-10(9H)-yl)pyrazine

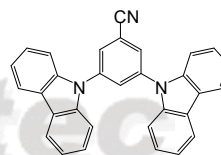
CAS No. : 1982316-90-4
 Grade : Sublimed, >99 % (HPLC)
 Formula : $C_{64}H_{38}N_4$
 M.W. : 742.91 g/mole
 UV : 375 nm (in CH₂Cl₂)
 PL : 495 nm (in CH₂Cl₂)



LT-N4142 | 3,5-2CzBN

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

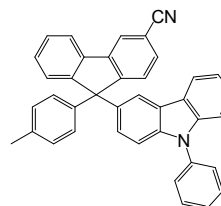
CAS No. : 1101848-45-6
 Grade : Sublimed, >99 % (HPLC)
 Formula : $C_{31}H_{19}N_3$
 M.W. : 433.5 g/mole



LT-N4149 | CzFCN

9-(9-phenyl-9H-carbazol-3-yl)-9-p-tolyl-9H-fluorene-3-carbonitrile

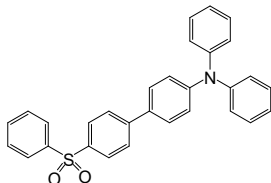
CAS No. : 1448222-38-5
 Grade : Sublimed, >99 % (HPLC)
 Formula : $C_{39}H_{26}N_2$
 M.W. : 522.64 g/mole



LT-N4153 | SOTPA

4-(4-diphenylaminophenyl)diphenylsulfone

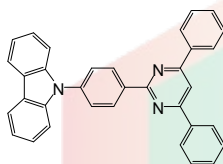
CAS No. : 1693761-04-4
 Grade : Sublimed, >99 % (HPLC)
 Formula : $C_{30}H_{23}NO_2S$
 M.W. : 461.57 g/mole



LT-N4155 | Cz-Ph-DRZ

9-(4-(4,6-diphenylpyrimidin-2-yl)phenyl)-9H-carbazole

CAS No. : 1106729-87-6
 Grade : Sublimed, >99 % (HPLC)
 Formula : $C_{34}H_{23}N_3$
 M.W. : 473.57 g/mole

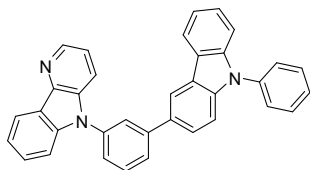


LT-N4157 | DCb-PCz

5-(3-(9-Phenyl-9H-carbazol-3-yl)phenyl)-5H-pyrido[3,2-b]indole

CAS No. : 2099149-76-3
 Grade : Sublimed, >99 % (HPLC)
 Formula : $C_{35}H_{23}N_3$
 M.W. : 485.58 g/mole
 UV : 292,331,345 nm (in CH_2Cl_2)
 HOMO : -5.75 eV
 LUMO : -2.39 eV

Reference : *ACS Appl. Mater. Interfaces* 2017, 9, 21346-21354

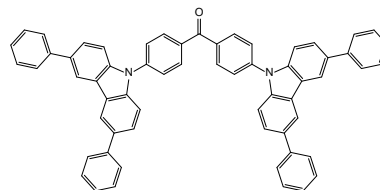


LT-N4161 | DCb-PCz

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

CAS No. : 1360642-12-1
 Grade : Sublimed, >99 %
 Formula : $C_{61}H_{40}N_2O$
 M.W. : 816.98 g/mole
 TGA : > 400 °C (0.5% weight loss)
 HOMO : -5.77 eV
 LUMO : -2.25 eV

Reference : *Adv. Funct. Mater.* 2018, 1707002



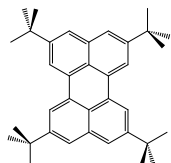
Lumtec

LT-E603 | TBPe

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

CAS No. : 80663-92-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₆H₄₄
 M.W. : 476.73 g/mole
 UV : 412, 438 nm (in THF)
 PL : 487 nm (in THF)
 TGA : > 220 °C (0.5% weight loss)

Reference : *Nature Communications* (2014), 5, 4016

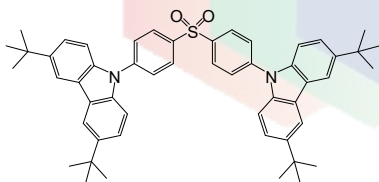


LT-N672 | CZ-PS

9,9'-(4,4'-sulfonylbis(4,1-phenylene))bis(3,6-di-*tert*-butyl-9*H*-carbazole)

CAS No. : 1396165-20-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₅₂H₅₆N₂O₂S
 M.W. : 773.08 g/mole
 UV : 346 nm (in Toluene)
 PL : 404 nm (in Toluene)
 ΔEST : 0.32 eV
 TGA : > 250 °C (0.5% weight loss)

Reference : *J. Am. Chem. Soc.* 2012, 134, 14706-14709

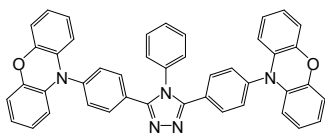


LT-N675 | 2PXZ-TAZ

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

CAS No. : 1447998-15-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₄H₂₉N₅O₂
 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

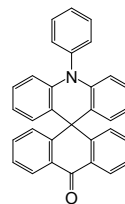


LT-N681 | ACRSA

10-Phenyl-10*H*,10'*H*-spiro[acridine-9,9'-anthracen]-10'-one

CAS No. : 1206626-95-0
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₂H₂₁NO
 M.W. : 435.52 g/mole
 UV : 430 nm (in Toluene)
 PL : 490 nm
 ΔEST : 0.04 eV
 TGA : > 250 °C (0.5% weight loss)

Reference : 1. *Chem. Commun.*, 2013, 49, 10385
 2. *Nature Communications* (2014), 5, 4016

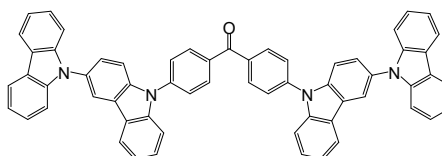


LT-N684 | CC2BP

Bis(4-(9*H*-3,9'-bicarbazol-9-yl)phenyl)methanone

CAS No. : 1233215-35-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₆₁H₃₈N₄O
 M.W. : 842.98 g/mole
 UV : 345 nm (in Toluene)
 PL : 475 nm
 ΔEST : 0.14 eV
 TGA : > 250 °C (0.5% weight loss)

Reference : *Angew. Chem.* 2014, 126, 6520-6524

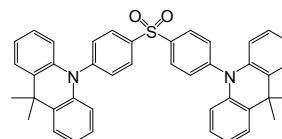


LT-N685 | DMAC-DPS

10,10'-(4,4'-sulfonylbis(4,1-phenylene))bis(9,9-dimethyl-9,10-dihydroacridine)

CAS No. : 1477512-32-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₂H₃₆N₂O₂S
 M.W. : 632.81 g/mole
 UV : 286 nm (in Toluene)
 PL : 469 nm (in Toluene)
 ΔEST : 0.09 eV
 TGA : > 250 °C (0.5% weight loss)

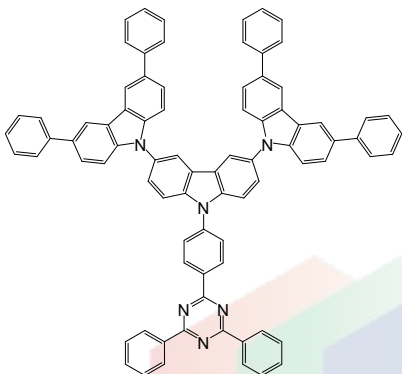
Reference : *Nature Photonics* 8, 326-332 (2014)



LT-N686 | BDPC-TPTA

9'-[4-(4,6-diphenyl-1,3,5-triazin-2-yl)phenyl]-3,3'',6,6''-tetraphenyl-9,3':6',9''-ter-9H-carbazole

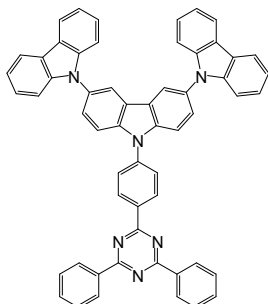
CAS No. : 1620808-43-6
 Grade : Sublimed, > 99%
 Formula : C₈₁H₅₂N₆
 M.W. : 1109.32 g/mole
 UV : 288 nm (in Toluene)
 PL : 463 nm (in Toluene)
 ΔEST : 0.09 eV
 TGA : > 300 °C (0.5% weight loss)
 Reference : *Nature Materials* 14, 330-336 (2015)



LT-N687 | BCC-TPTA

9'-[4-(4,6-diphenyl-1,3,5-triazin-2-yl)phenyl]-9,3':6',9''-ter-9H-carbazole

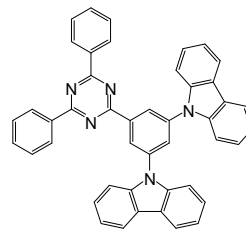
CAS No. : 1361093-61-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₅₇H₃₆N₆
 M.W. : 804.94 g/mole
 UV : 283 nm (in Toluene)
 PL : 462 nm (in Toluene)
 ΔEST : 0.28 eV
 TGA : > 300 °C (0.5% weight loss)
 Reference : *Nature Materials* 14, 330-336 (2015)



LT-N689 | DCzTrz

9,9'-(5-(4,6-diphenyl-1,3,5-triazin-2-yl)-1,3-phenylene)bis(9H-carbazole)

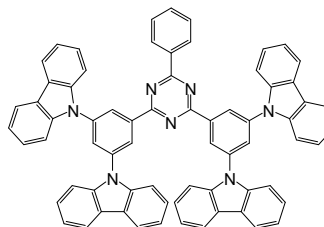
CAS No. : 1106730-48-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₄₅H₂₉N₅
 M.W. : 639.75 g/mole
 UV : 337 nm (in Toluene)
 PL : 449 nm (in Toluene)
 ΔEST : 0.25 eV
 TGA : > 300 °C (0.5% weight loss)
 Reference : *Adv. Mater.* (2015), 27(15), 2515-2520



LT-N690 | DDCzTrz

9,9',9''-((6-phenyl-1,3,5-triazine-2,4-diyl)bis(benzene-5,3,1-triyl))tetrakis(9H-carbazole)

CAS No. : 1685282-47-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₆₉H₄₃N₇
 M.W. : 970.13 g/mole
 UV : 337 nm (in Toluene)
 PL : 461 nm (in Toluene)
 ΔEST : 0.27 eV
 TGA : > 320 °C (0.5% weight loss)
 Reference : *Adv. Mater.* (2015), 27(15), 2515-2520

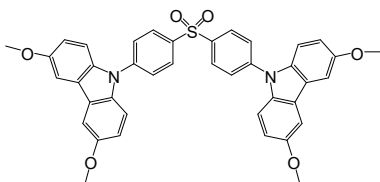


LT-N691 | DMOC-DPS

9,9'-(4,4'-sulfonylbis(4,1-phenylene))bis(3,6-dimethoxy-9H-carbazole)

CAS No. : 1477507-77-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{40}H_{32}N_2O_6S$
 M.W. : 668.76 g/mole
 UV : 375 nm (in Toluene)
 PL : 485 nm (in Toluene)
 ΔE_{ST} : 0.0083 eV
 TGA : > 250 °C (0.5% weight loss)

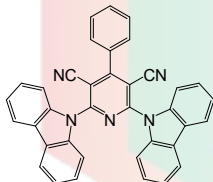
Reference : *J. Mater. Chem. C*, 2014, 2, 421



LT-N695 | CPC

2,6-Di(9H-carbazol-9-yl)-4-phenylpyridine-3,5-dicarbonitrile

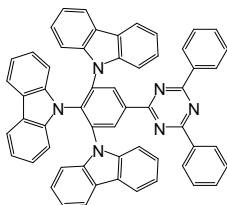
CAS No. : 1803330-63-3
 Formula : $C_{37}H_{21}N_5$
 M.W. : 535.6 g/mole



LT-N696 | TCzTrz

9,9'-(5-(4,6-diphenyl-1,3,5-triazin-2-yl)benzene-1,2,3-triyl)tris(9H-carbazole)

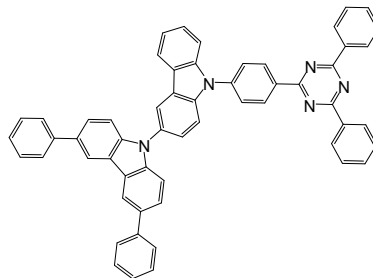
CAS No. : 1808158-40-8
 Formula : $C_{57}H_{36}N_6$
 M.W. : 804.94 g/mole
 Reference: *Adv. Mater.* 2015, 27, 5861-5867



LT-N698 | DPCC-TPTA

9-(4-(4,6-Diphenyl-1,3,5-triazin-2-yl)phenyl)-3',6'-diphenyl-9H-3,9'-bicarbazole

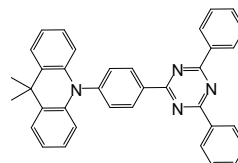
CAS No. : 1620808-42-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{57}H_{37}N_5$
 M.W. : 791.94 g/mole
 UV : 261, 349 nm (in CH_2Cl_2)
 PL : 463 nm (in CH_2Cl_2)
 TGA : > 300 °C (0.5% weight loss)



LT-N699 | DMAC-TRZ

10-(4-(4,6-diphenyl-1,3,5-triazin-2-yl)phenyl)-9,9-dimethyl-9,10-dihydroacridine

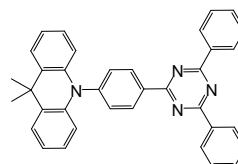
CAS No. : 1628752-98-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{36}H_{28}N_4$
 M.W. : 516.63 g/mole
 UV : 390 nm (in Toluene)
 PL : 425 nm (in Toluene)



LT-N799 | PTZ-DCPP

7,10-bis(phenothiazine)-2,3-dicyanopyrazino phenanthrene

CAS No. : 1803288-01-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{22}N_6S_2$
 M.W. : 674.79 g/mole
 UV : 369, 436 nm (in Toluene)
 PL : 539 nm (in Toluene)
 HOMO : -5.08 eV
 LUMO : -3.48 eV
 Triplet Energy : 0.18 eV



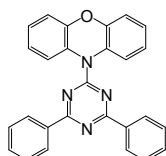
Thermally Activated Delayed Fluorescence (TADF) OLED

TADF Blue Dopant Materials

LT-N4117 | Phen-TRZ

10-(4,6-Diphenyl-1,3,5-triazin-2-yl)-10H-phenoxazine

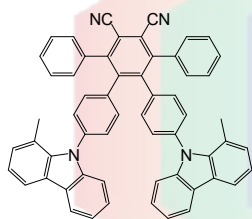
CAS No. : 1357066-21-7
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{27}H_{18}N_4O$
M.W. : 414.46 g/mole
UV : 231, 267, 306 nm (in CH_2Cl_2)
PL : 497 nm (in CH_2Cl_2)
TGA : > 240°C (0.5% weight loss)



LT-N6001 | Cz-VPN

3,6-Dibenzoyl-4,5-Di(1-methyl-9-phenyl-9H-carbazoyl)-2-ethynylbenzotrile

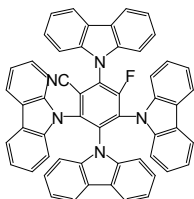
CAS No. : 1883400-30-3
Grade : Sublimed, > 99%
Formula : $C_{58}H_{38}N_4$
M.W. : 790.97 g/mole



LT-N6005 | 4CZFCN

2,3,4,6-Tetra(9H-carbazol-9-yl)-5-fluorobenzonitrile

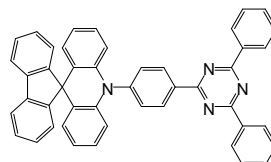
CAS No. : 1819362-10-1
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{55}H_{32}FN_5$
M.W. : 781.87 g/mole



LT-N6006 | SpiroAC-TRZ

10-(4-(4,6-diphenyl-1,3,5-triazin-2-yl)phenyl)-10H-spiro[acridine-9,9'-fluorene]

CAS No. : 1980037-96-4
Grade : Sublimed, > 99% (HPLC)
Formula : $C_{46}H_{30}N_4$
M.W. : 638.76 g/mole

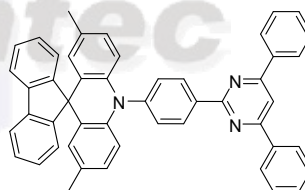


LT-N6013 | MFAc-PPM

10-(4-(4,6-diphenylpyrimidin-2-yl)phenyl)-2,7-dimethyl-10H-spiro[acridine-9,9'-fluorene]

Grade : Sublimed, >99% (HPLC)
Formula : $C_{49}H_{35}N_3$
M.W. : 665.82 g/mole
UV : 309,386 nm (in Toluene)
PL : 458 nm (in Toluene)
HOMO : -5.62 eV
LUMO : -2.67 eV
 Δ EST : 0.25 eV

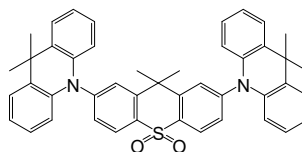
Reference : Chem. Sci., 2017, 8, 953-960



LT-N6014 | DMTDAc

2,7-Bis(9,9-dimethylacridin-10(9H)-yl)-9,9-dimethyl-9H-thioxanthene 10,10-dioxide

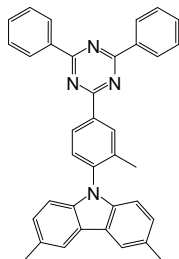
CAS No. : 1877288-52-2
Grade : Sublimed, >99% (HPLC)
Formula : $C_{45}H_{40}N_2O_2S$
M.W. : 672.88 g/mole



LT-N6016 | Cz-TRZ3

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

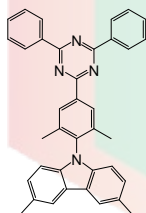
CAS No. : 2061376-83-6
Grade : Sublimed, >99 % (HPLC)
Formula : $C_{36}H_{28}N_4$
M.W. : 516.63 g/mole



LT-N6017 | Cz-TRZ4

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

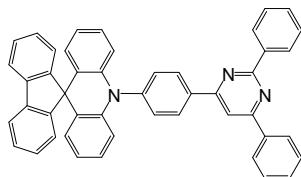
CAS No. : 2061376-84-7
Grade : Sublimed, >99 % (HPLC)
Formula : $C_{37}H_{30}N_4$
M.W. : 530.66 g/mole



LT-N6018 | SpiroAC-DPP

10-(4-(2,6-diphenylpyrimidin-4-yl)phenyl)-10H-spiro[acridine-9,9'-fluorene]

Grade : Sublimed, >99 % (HPLC)
Formula : $C_{47}H_{31}N_3$
M.W. : 637.77 g/mole

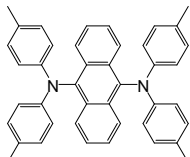


LT-N507 | TTPA

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

CAS No. : 177799-16-5
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{36}N_2$
 M.W. : 568.75 g/mole
 UV : 294, 471 nm (in CH_2Cl_2)
 PL : 554 nm (in CH_2Cl_2)
 TGA : > 280 °C (0.5% weight loss)

Reference : *Nature Communications* (2014), 5, 4016

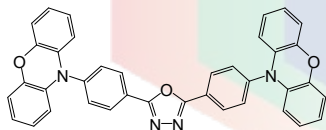


LT-N528 | 2PXZ-OXD

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 : 512 nm (in Toluene)
 Δ EST : 0.57 eV
 TGA : > 250 °C (0.5% weight loss)

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

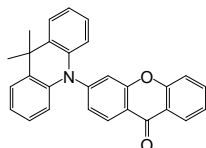


LT-N532 | ACRXTN

3-(9,9-dimethylacridin-10(9*H*)-yl)-9*H*-xanthen-9-one

CAS No. : 1643983-89-4
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{28}H_{21}NO_2$
 M.W. : 403.47 g/mole
 PL : 530 nm (in CH_2Cl_2)
 Δ EST : 0.06 eV
 TGA : > 200 °C (0.5% weight loss)

Reference : *Nature Communications* (2014), 5, 4016

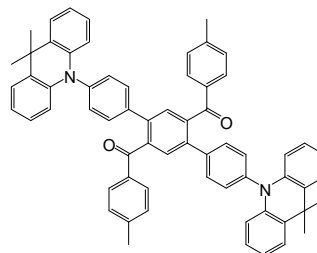


LT-N538 | AcPmBPX

1,4-Bis(9,9-dimethylacridan-10-yl-*p*-phenyl)-2,5-bis(*p*-tolyl-methanoyl)benzene

CAS No. : 1647121-45-6
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{64}H_{52}N_2O_2$
 M.W. : 811.11 g/mole
 PL : 490 nm (film)
 Δ EST : 0.18 eV
 TGA : > 250 °C (0.5% weight loss)

Reference : *Dalton Transactions* (2015), 44(18), 8356-8359

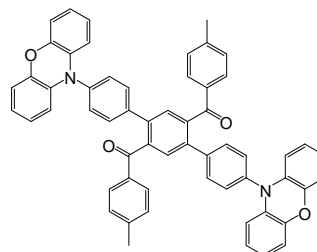


LT-N540 | PxPmBPX

1,4-Bis(9,9-phenoxazin-10-yl-*p*-phenyl)-2,5-bis(*p*-tolyl-methanoyl)-benzene

CAS No. : 1647121-46-7
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{58}H_{40}N_2O_4$
 M.W. : 828.95 g/mole
 PL : 530 nm (film)
 Δ EST : 0.02 eV
 TGA : > 250 °C (0.5% weight loss)

Reference : *Dalton Transactions* (2015), 44(18), 8356-8359.

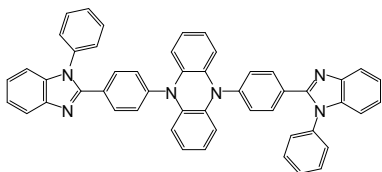


LT-N541 | DHPZ-2BI

5,10-Bis(4-(1-phenyl-1H-benzo[d]imidazol-2-yl)phenyl)-5,10-dihydrophenazine

CAS No. : 1638702-85-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{50}H_{34}N_6$
 M.W. : 718.85 g/mole
 UV : 428 nm (in CH_2Cl_2)
 PL : 550 nm (in CH_2Cl_2)
 ΔE_{ST} : 0.83 eV
 TGA : > 250 °C (0.5% weight loss)

Reference : *J. Mater. Chem. C*, 2015, 3, 2175

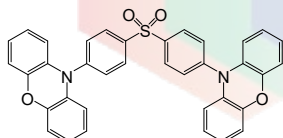


LT-N545 | PXZ-DPS

10,10'-(4,4'-sulfonylbis(4,1-phenylene))bis(10H-phenoxazine)

CAS No. : 1477511-57-1
 Grade : Sublimed, > 99%
 Formula : $C_{36}H_{24}N_2O_4S$
 M.W. : 580.65 g/mole
 PL : 507 nm (in Toluene)
 ΔE_{ST} : 0.08 eV
 TGA : > 220 °C (0.5% weight loss)

Reference : *Nature Photonics* 8, 326-332 (2014)

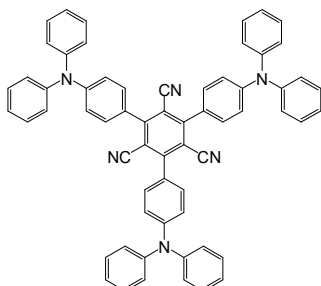


LT-N547 | 3DPA3CN

1,3,5-Tris(4-(diphenylamino)phenyl)-2,4,6-tricyanobenzene

CAS No. : 1663495-77-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{63}H_{42}N_6$
 M.W. : 883.05 g/mole
 UV : 430 nm (in Toluene)
 PL : 506 nm (in Toluene)
 ΔE_{ST} : 0.103 eV
 TGA : > 300 °C (0.5% weight loss)

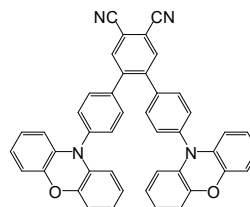
Reference : *Chem. Commun.*, 2015, 51, 5028



LT-N552 | Px-VPN

4,4''-Di-10H-phenoxazin-10-yl[1,1':2'',1'''-terphenyl]-4',5'-dicarbonitrile

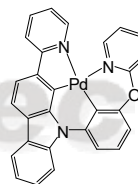
CAS No. : 1784766-39-7
 Grade : Sublimed, > 99%
 Formula : $C_{44}H_{26}N_4O_2$
 M.W. : 642.7 g/mole



LT-N554 | AcPmBPX

2[-(2-pyridinyl)-9-[3-(2-pyridinyloxy) phenyl]-9H-Carbazole] Palladium

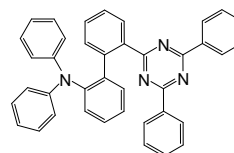
CAS No. : 1685288-56-5
 Grade : > 99%
 Formula : $C_{28}H_{17}N_3Opd$
 M.W. : 517.87 g/mole



LT-N555 | PA-ort-2Ph-TRZ

2'-(4,6-diphenyl-1,3,5-triazin-2-yl)-N,N-diphenylbiphenyl-2-amine

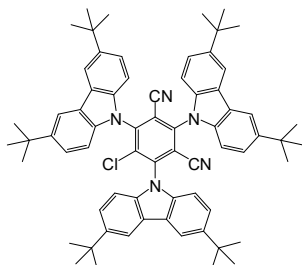
Grade : Sublimed, > 99%
 Formula : $C_{39}H_{26}N_4$
 M.W. : 552.67 g/mole



LT-N557 | t3CzIPN

5-Chloro-2,4,6-tris(3,6-di-tert-butyl-9H-carbazol-9-yl)isophthalonitrile

Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{68}H_{72}ClN_5$
 M.W. : 994.79 g/mole

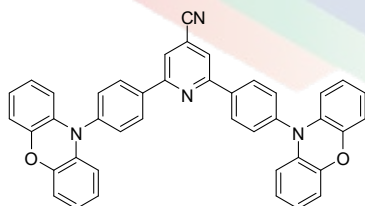


LT-N563 | 26PXZINN

2,6-bis(4-(10H-phenoxazin-10-yl)phenyl)isonicotinonitrile 26PXZINN

CAS No. : 2093368-84-2
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{42}H_{26}N_4O_2$
 M.W. : 618.68 g/mole
 UV : 405 nm (in Toluene)
 Emission : 551 nm (in Toluene)
 HOMO : -5.03 eV
 LUMO : -2.29 eV
 Δ EST : 0.06 eV

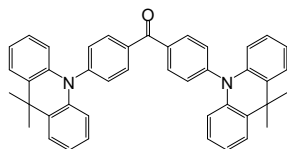
Reference : Chem. Asian J. 2017, 12, 648-654



LT-N565 | DMAC-BP

Bis(4-(9,9-dimethylacridin-10(9H)-yl)phenyl)methanone

CAS No. : 1685287-55-1
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{43}H_{36}N_2O$
 M.W. : 596.76 g/mole

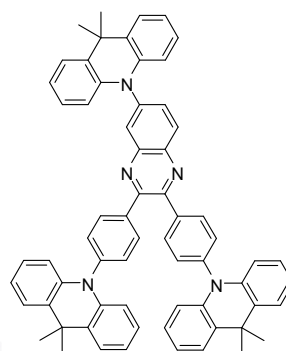


LT-N566 | DBQ-3DMAc

2,3-bis(4-(9,9-dimethyl-9,10-dihydroacridinyl-10-yl)phenyl)-6-(9,9-dimethyl-9,10-dihydroacridine-10-yl)-quinoxaline

CAS No. : 2035390-33-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{65}H_{53}N_5$
 M.W. : 904.15 g/mole
 PL : 536, 548 nm
 HOMO : -5.26 eV
 LUMO : -2.81 eV
 Δ EST : 0.04 eV

Reference : J. Name., 2013, 00, 1-3

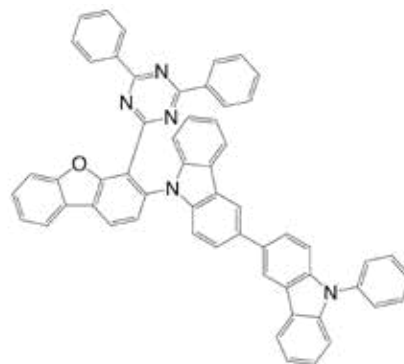


LT-N573 | BCzTrzDBF

9-(4-(4,6-diphenyl-1,3,5-triazin-2-yl)-dibenzo[b,d]furan-3-yl)-9'-phenyl-9H,9'H'-3,3'-bicarbazole

CAS No. : 2351818-36-3
 Grade : Sublimed, > 99% (HPLC)
 Formula : $C_{57}H_{35}N_5O$
 M.W. : 805.92 g/mole
 PL : 536, 548 nm
 HOMO : -5.85 eV
 LUMO : -3.34 eV

Reference : J. Mater. Chem. C, 2019, 7, 2919--2926

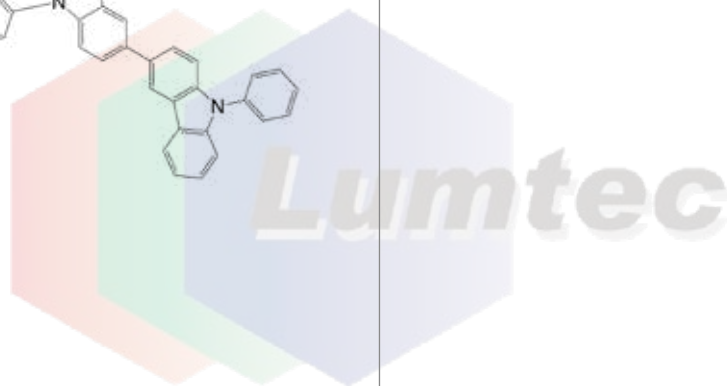
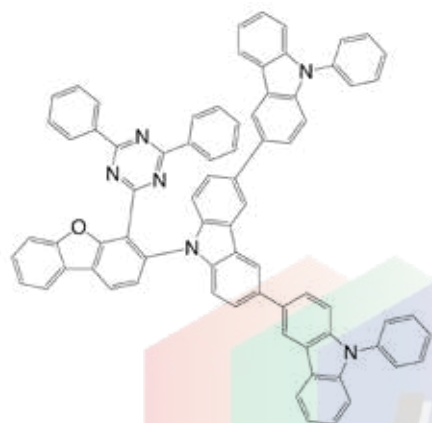


LT-N574 | TCzTrzDBF

9'-(4-(4,6-diphenyl-1,3,5-triazin-2-yl)-dibenzo[b,d]furan-3-yl)-9,9''-diphenyl-9H,9''H,9''H-3,3':6',3'''-tercarbazole

CAS No. : 2351848-35-4
Grade : Sublimed, >99 % (HPLC)
Formula : C₇₅H₄₆N₆O
M.W. : 1047.21 g/mole
Emission : nm (in CH₂Cl₂)
HOMO : -5.87 eV
LUMO : -3.43 eV

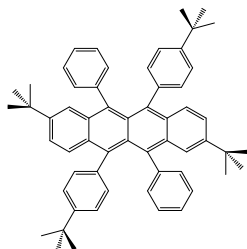
Reference : *J. Mater. Chem. C*, 2019, 7, 2919--2926



LT-N732 | TBRb

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

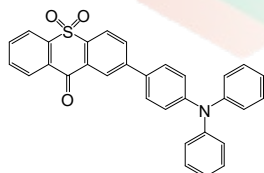
CAS No. : 682806-51-5
 Grade : Sublimed, > 99%
 Formula : C₅₈H₆₀
 UV : 306 nm (in CH₂Cl₂)
 PL : 571 nm (in CH₂Cl₂)
 TGA : > 310 °C (0.5% weight loss)
 Reference : *Nature Communications* (2014), 5, 4016



LT-N775 | TXO-TPA

2-[4-(diphenylamino)phenyl]-10,10-dioxide-9H-thioxanthen-9-one

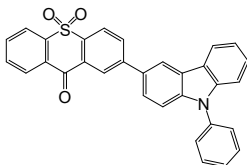
CAS No. : 1623010-63-8
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₁H₂₁NO₃S
 M.W. : 487.57 g/mole
 UV : 396 nm (in Toluene)
 PL : 625 nm (film)
 ΔEST : 0.052 eV
 TGA : > 250 °C (0.5% weight loss)
 Reference : *Adv. Mater.* (2014), 26(30), 5198-5204



LT-N776 | TXO-PhCz

2-(9-phenyl-9H-carbazol-3-yl)-10,10-dioxide-9H-thioxanthen-9-one

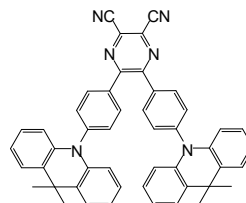
CAS No. : 1623010-64-9
 Grade : Sublimed, > 99% (HPLC)
 Formula : C₃₁H₁₉NO₃S
 M.W. : 487.55 g/mole
 UV : 415 nm (in Toluene)
 PL : 570 nm (film)
 ΔEST : 0.073 eV
 TGA : > 250 °C (0.5% weight loss)
 Reference : *Adv. Mater.* (2014), 26(30), 5198-5204



LT-N793 | Ac-CNP

5,6-bis(4-(9,9-dimethylacridin-10(9H)-yl)phenyl)pyrazine-2,3-dicarbonitrile

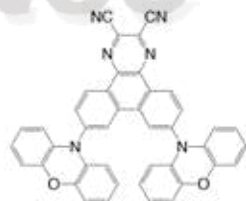
CAS No. : 1883400-34-7
 Grade : Sublimed, >99%(HPLC)
 Formula : C₄₈H₃₆N₆
 M.W. : 696.84 g/mole



LT-N798 | PXZ-DCPP

7,10-bis(phenoxazine)-2,3-dicyanopyrazino phenanthrene

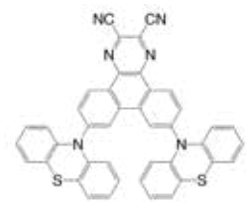
CAS No. : 1803288-00-7
 Grade : Sublimed, >99 % (HPLC)
 Formula : C₄₂H₂₂N₆O₂
 M.W. : 642.66 g/mole
 UV : 323, 372 nm (in Toluene)
 PL : 533 nm (in Toluene)
 HOMO : -5.19 eV
 LUMO : -3.52 eV
 Triplet Energy : 0.09 eV



LT-N799 | PTZ-DCPP

7,10-bis(phenothiazine)-2,3-dicyanopyrazino phenanthrene

CAS No. : 1803288-01-8
 Grade : Sublimed, >99 % (HPLC)
 Formula : C₄₂H₂₂N₆S₂
 M.W. : 674.79 g/mole
 UV : 369, 436 nm (in Toluene)
 PL : 539 nm (in Toluene)
 HOMO : -5.08 eV
 LUMO : -3.48 eV
 Triplet Energy : 0.18 eV



• TADF Red Dopant Materials (8)

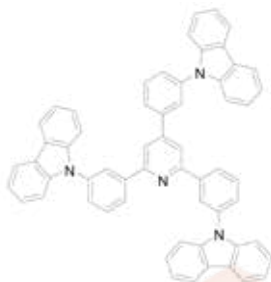
Our products are used for testing and research purpose; they are not guaranteed in patent contention by customer use.

LT-N4165 | TCPY

9,9',9''-(pyridine-2,4,6-triyltris(benzene-3,1-diyl))tris(9H-carbazole)

CAS No. : 890148-62-6
Grade : Sublimed, >99 % (HPLC)
Formula : C₅₉H₃₈N₄
M.W. : 802.96 g/mole
TGA : 393 °C (0.5% weight loss)
HOMO : -6.19 eV
LUMO : -2.77 eV
Triplet Energy : 0.39 eV

Reference : *J. Mater. Chem.*, 2012, 22, 3447-3456



LT-N6030 | mPTC

9,9',9''-(pyridine-2,4,6-triyltris(benzene-3,1-diyl))tris(9H-carbazole)

CAS No. : 1948247-74-2
Grade : Sublimed, >99 % (HPLC)
Formula : C₃₁H₂₀N₂O
M.W. : 436.50 g/mole
UV : 320, 405 nm (in cyclohexane)
PL : 455 nm (in cyclohexane)
HOMO : -5.12 eV
LUMO : -2.84 eV
Triplet Energy : 0.01 eV

Reference : *ACS Appl. Mater. Interfaces* 2016, 8, 16791-16798

