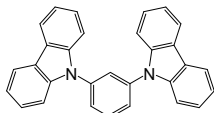


### LT-E107 | MCP

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

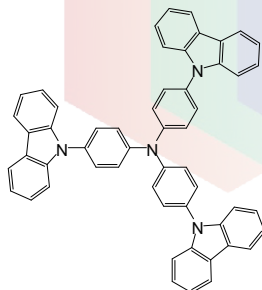


### LT-E207 | TcTa

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)

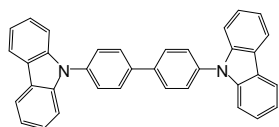


### LT-E409 | CBP

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)

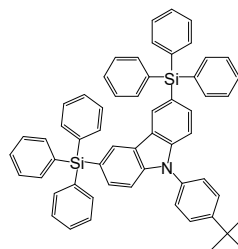


### LT-N484 | CzSi

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

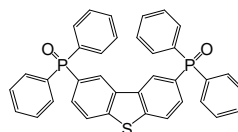


### LT-N4006 | PPT

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)

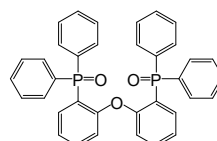


### LT-N4060 | DPEPO

Bis[2-(diphenylphosphino)phenyl]ether oxide

CAS No. : 808142-23-6  
 Grade : Sublimed, > 99.5% (HPLC)  
 Formula :  $C_{36}H_{26}O_3P_2$   
 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

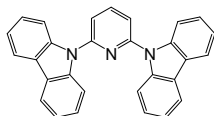


### LT-N4072 | PYD-2Cz

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

CAS No. : 168127-49-9  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>29</sub>H<sub>19</sub>N<sub>3</sub>  
 M.W. : 409.48 g/mole  
 UV : 241,290 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 PL : 373 nm (in THF)  
 TGA : > 250 °C (0.5% weight loss)

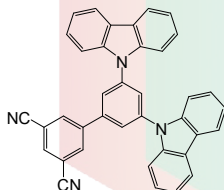
Reference : *Chem. Mater.* 2013, 25, 3910–3920



### 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 : C<sub>38</sub>H<sub>22</sub>N<sub>4</sub>  
 M.W. : 534.61 g/mole  
 UV : 251, 291 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 PL : 324 nm (in THF)  
 TGA : > 270 °C (0.5% weight loss)

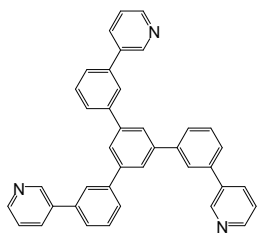


### LT-N863 | TmPyPB

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

CAS No. : 921205-03-0  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>39</sub>H<sub>27</sub>N<sub>3</sub>  
 M.W. : 537.65 g/mole  
 UV : 254 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 PL : 353 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 TGA : > 310 °C (0.5% weight loss)

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



### LT-N4102 | BCzTPA

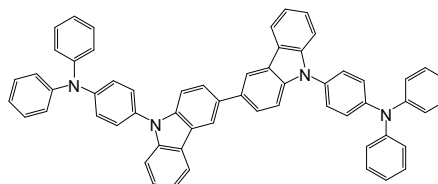
4'-(9*H*-carbazol-9-yl)biphenyl-3,5-dicarbonitrile

CAS No. : 1032174-52-9  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>60</sub>H<sub>42</sub>N<sub>4</sub>  
 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

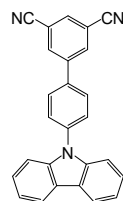


### LT-N4104 | pCzB-2CN

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

CAS No. : 1646323-59-2  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>26</sub>H<sub>15</sub>N<sub>3</sub>  
 M.W. : 369.42 g/mole  
 UV : 330 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 PL : 450 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 TGA : > 220 °C (0.5% weight loss)

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

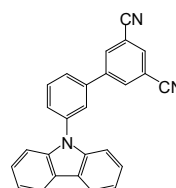


### LT-N4105 | mCzB-2CN

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

CAS No. : 1646323-60-5  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>26</sub>H<sub>15</sub>N<sub>3</sub>  
 M.W. : 369.42 g/mole  
 UV : 330 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 PL : 450 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 TGA : > 220 °C (0.5% weight loss)

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

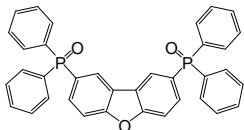


### LT-N4106 | PPF

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

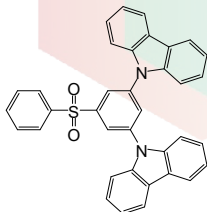


### LT-N4112 | mCPSOB

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

CAS No. : 1374770-41-8  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{36}H_{24}N_2O_2S$   
 M.W. : 548.65 g/mole  
 TGA : > 200 °C (0.5 % weight loss)  
 Tg : 110 °C  
 HOMO : -5.8 eV  
 LUMO : -2.5 eV  
 Triplet Energy : 3.02 eV

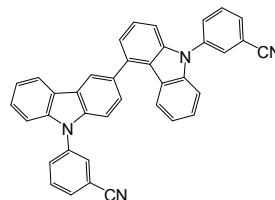
Reference : *Organic Electronics* 16 (2015) 109-112



### 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  
 UV : 404 nm (in  $CH_2Cl_2$ )  
 TGA : >260 °C (0.5 % weight loss)  
 Tg : 132 °C  
 Triplet Energy : 2.98 eV

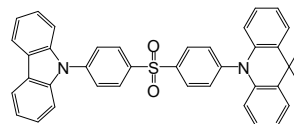


### LT-N4120 | CzAcSF

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

CAS No. : 1792173-34-2  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{39}H_{30}N_2O_2S$   
 M.W. : 590.73 g/mole  
 PL : 443, 466 nm (in  $CH_2Cl_2$ )  
 Tg : 117 °C  
 HOMO : -5.89 eV  
 LUMO : -3.00 eV  
 Triplet Energy : 3.04 eV

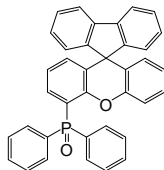
Reference : *ACS Appl. Mater. Interfaces* 2015, 7, 9625-9629



### LT-N4123 | SFXSPO

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

CAS No. : 1508022-28-3  
 Grade : Sublimed, > 99%  
 Formula :  $C_{37}H_{25}O_2P$   
 M.W. : 532.57 g/mole  
 UV : 228, 279, 308 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 T<sub>g</sub> : 180 °C  
 HOMO : -6.52 eV  
 LUMO : -2.47 eV



### LT-N4126 | DPTPCz

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

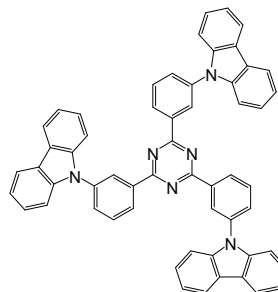
CAS No. : 1313391-57-9  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{33}H_{22}N_4$   
 M.W. : 474.55 g/mole



### LT-N4128 | TCPZ

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

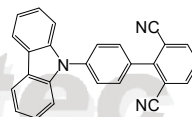
CAS No. : 890148-68-2  
 Grade : Sublimed, > 99%  
 Formula :  $C_{37}H_{36}N_6$   
 M.W. : 804.94 g/mole



### LT-N4130 | CzPhDCN in

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

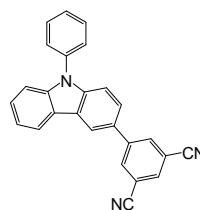
Grade : Sublimed, > 99%  
 Formula :  $C_{26}H_{15}N_3$   
 M.W. : 369.42 g/mole



### LT-N4131 | 4-CzDCN out

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

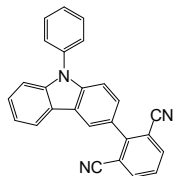
Grade : Sublimed, > 99%  
 Formula :  $C_{26}H_{15}N_3$   
 M.W. : 369.42 g/mole



### LT-N4132 | 4-CzDCN in

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

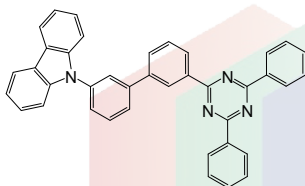
Grade : Sublimed, > 99%  
 Formula :  $C_{26}H_{15}N_3$   
 M.W. : 369.42 g/mole



### LT-N4133 | Cz-m2Ph-TRZ

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

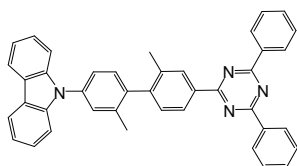
CAS No. : 1106730-56-6  
 Grade : Sublimed, > 99%  
 Formula :  $C_{39}H_{26}N_4$   
 M.W. : 550.65 g/mole



### LT-N4134 | Cz-DMBP-TRZ

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

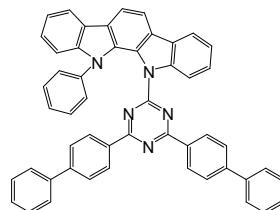
Grade : Sublimed, > 99%  
 Formula :  $C_{41}H_{30}N_4$   
 M.W. : 578.7 g/mole



### LT-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

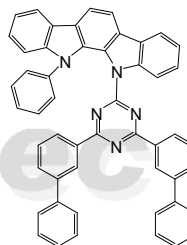
Grade : > 98% (HPLC)  
 Formula :  $C_{51}H_{33}N_5$   
 M.W. : 715.84 g/mole



### 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

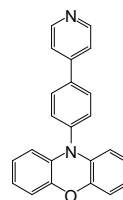
Grade : > 98% (HPLC)  
 Formula :  $C_{51}H_{33}N_5$   
 M.W. : 715.84 g/mole



### LT-N4138

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

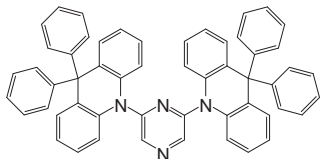
CAS No. : 1826129-73-0  
 Grade : Sublimed, > 98%  
 Formula :  $C_{23}H_{16}N_2O$   
 M.W. : 336.39 g/mole



### LT-N4140 | PrDPhAc

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

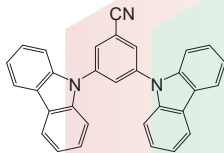
CAS No. : 1982316-90-4  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{54}H_{38}N_4$   
 M.W. : 742.91 g/mole  
 UV : 375 nm (in CH<sub>2</sub>Cl<sub>2</sub>)  
 PL : 495 nm (in CH<sub>2</sub>Cl<sub>2</sub>)



### LT-N4142 | 3,5-2CzBN

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

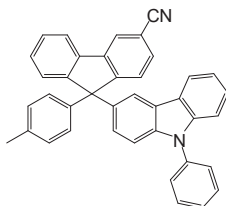
CAS No. : 1101848-45-6  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{31}H_{19}N_3$   
 M.W. : 433.5 g/mole



### LT-N4149 | CzFCN

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

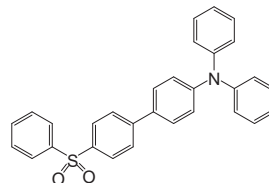
CAS No. : 1448222-38-5  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{39}H_{26}N_2$   
 M.W. : 522.64 g/mole



### LT-N4153 | SOTPA

4-(4-diphenylaminophenyl)diphenylsulfone

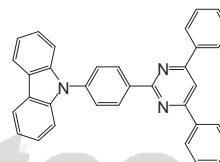
CAS No. : 1693761-04-4  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{30}H_{23}NO_2S$   
 M.W. : 461.57 g/mole



### 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

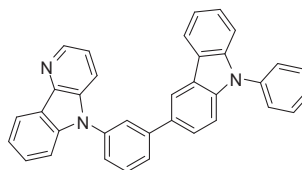


### LT-N4157 | DCb-PCz

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<sub>2</sub>Cl<sub>2</sub>)  
 HOMO : -5.75 eV  
 LUMO : -2.39 eV

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

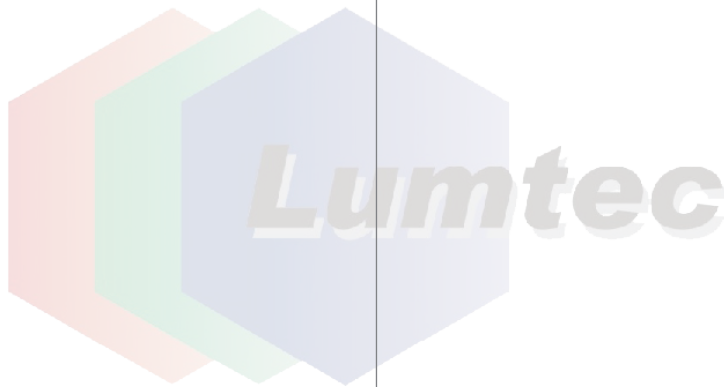
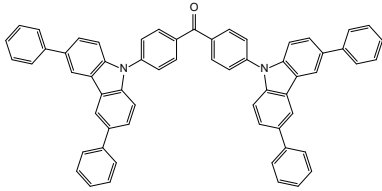


### LT-N4161 | DCb-PCz

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

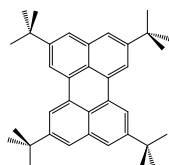


### LT-E603 | TBPc

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

CAS No. : 80663-92-9  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>36</sub>H<sub>44</sub>  
 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

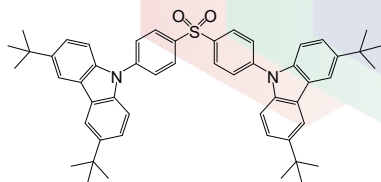


### LT-N672 | CZ-PS

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

CAS No. : 1396165-20-0  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>52</sub>H<sub>56</sub>N<sub>2</sub>O<sub>2</sub>S  
 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

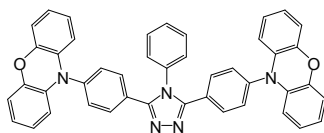


### LT-N675 | 2PXZ-TAZ

10,10'-(4,4'-(4-phenyl-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<sub>44</sub>H<sub>29</sub>N<sub>5</sub>O<sub>2</sub>  
 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



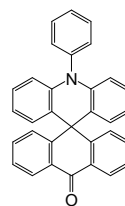
### LT-N681 | ACRSA

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

CAS No. : 1206626-95-0  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>32</sub>H<sub>21</sub>NO  
 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

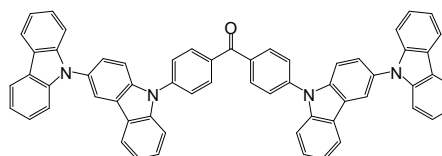


### LT-N684 | CC2BP

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

CAS No. : 1233215-35-4  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>61</sub>H<sub>38</sub>N<sub>4</sub>O  
 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

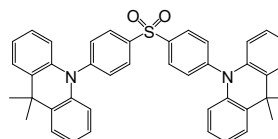


### LT-N685 | DMAC-DPS

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 : C<sub>42</sub>H<sub>36</sub>N<sub>2</sub>O<sub>2</sub>S  
 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)

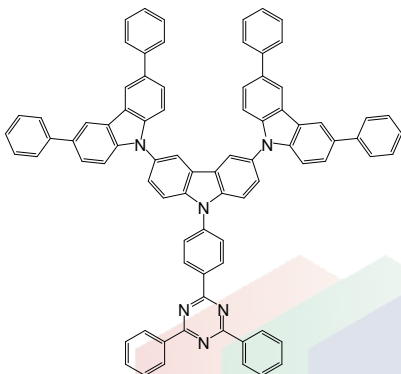




### LT-N686 | BDPCC-TPTA

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

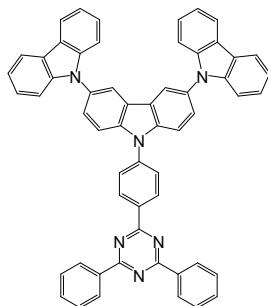
CAS No. : 1620808-43-6  
 Grade : Sublimed, > 99%  
 Formula :  $C_{81}H_{52}N_6$   
 M.W. : 1109.32 g/mole  
 UV : 288 nm (in Toluene)  
 PL : 463 nm (in Toluene)  
 $\Delta$ EST : 0.09 eV  
 TGA : > 300 °C (0.5% weight loss)  
 Reference : *Nature Materials* 14, 330-336 (2015)



### LT-N687 | BCC-TPTA

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

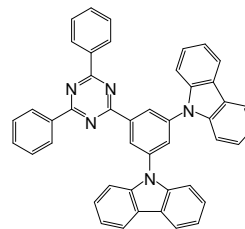
CAS No. : 1361093-61-9  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{57}H_{36}N_6$   
 M.W. : 804.94 g/mole  
 UV : 283 nm (in Toluene)  
 PL : 462 nm (in Toluene)  
 $\Delta$ EST : 0.28 eV  
 TGA : > 300 °C (0.5% weight loss)  
 Reference : *Nature Materials* 14, 330-336 (2015)



### LT-N689 | DCzTrz

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

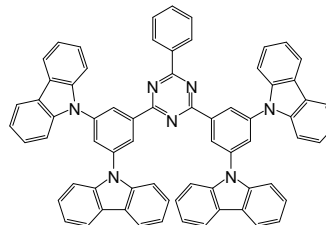
CAS No. : 1106730-48-6  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{45}H_{29}N_5$   
 M.W. : 639.75 g/mole  
 UV : 337 nm (in Toluene)  
 PL : 449 nm (in Toluene)  
 $\Delta$ EST : 0.25 eV  
 TGA : > 300 °C (0.5% weight loss)  
 Reference : *Adv. Mater.* (2015), 27(15), 2515-2520



### LT-N690 | DDCzTrz

9,9',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 :  $C_{69}H_{43}N_7$   
 M.W. : 970.13 g/mole  
 UV : 337 nm (in Toluene)  
 PL : 461 nm (in Toluene)  
 $\Delta$ EST : 0.27 eV  
 TGA : > 320 °C (0.5% weight loss)  
 Reference : *Adv. Mater.* (2015), 27(15), 2515-2520



# Thermally Activated Delayed Fluorescence (TADF) OLED

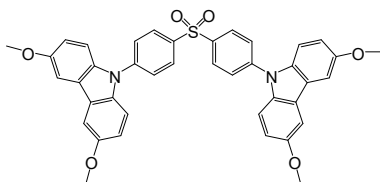
## TADF Blue Dopant Materials

### 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)  
 $\Delta$ EST : 0.0083 eV  
TGA : > 250 °C (0.5% weight loss)

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

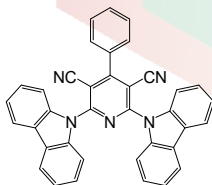


### LT-N695 | CPC

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

CAS No. : 1803330-63-3  
Grade : Sublimed, >99 % (HPLC)  
Formula :  $C_{37}H_{21}N_5$   
M.W. : 535.6 g/mole  
PL : 474 nm (in Toluene)  
TGA : > 280 °C (0.5% weight loss)  
HOMO : -6.25 V  
LUMO : -3.47 V

Reference : *ACS Appl. Mater. Interfaces* 2015, 7, 18930-18936

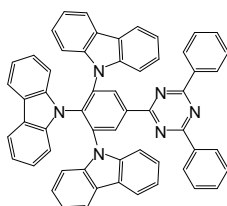


### LT-N696 | TCzTrz

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

CAS No. : 1808158-40-8  
Grade : Sublimed, >99% (HPLC)  
Formula :  $C_{57}H_{36}N_6$   
M.W. : 804.94 g/mole  
UV : 414 nm  
HOMO : -5.40 eV  
LUMO : -2.18 eV  
Triplet Energy : 2.80 eV

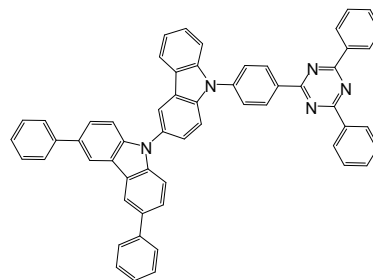
Reference: *Adv. Mater.* 2015, 27, 5861-5867



### LT-N698 | DPCC-TPTA

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

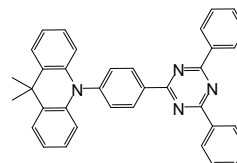
CAS No. : 1620808-42-5  
Grade : Sublimed, > 99% (HPLC)  
Formula :  $C_{57}H_{37}N_5$   
M.W. : 791.94 g/mole  
UV : 261, 349 nm (in  $CH_2Cl_2$ )  
PL : 463 nm (in  $CH_2Cl_2$ )  
TGA : > 300 °C (0.5% weight loss)



### LT-N699 | DMAC-TRZ

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

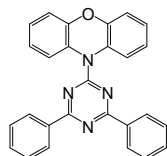
CAS No. : 1628752-98-6  
Grade : Sublimed, > 99% (HPLC)  
Formula :  $C_{36}H_{28}N_4$   
M.W. : 516.63 g/mole  
UV : 390 nm (in Toluene)  
PL : 425 nm (in Toluene)



### LT-N4117 | Phen-TRZ

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

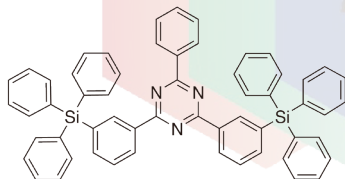
CAS No. : 1357066-21-7  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{27}H_{18}N_4O$   
 M.W. : 414.46 g/mole  
 UV : 231, 267, 306 nm (in  $CH_2Cl_2$ )  
 PL : 497 nm (in  $CH_2Cl_2$ )  
 TGA : > 240°C (0.5% weight loss)



### LT-N4181 | mSiTrz

2-Phenyl-4,6-bis(3-(triphenylsilyl)phenyl)-1,3,5-triazine

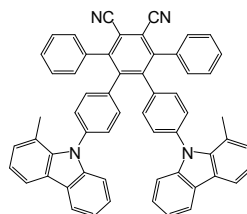
CAS No. : 2252416-90-1  
 Grade : Sublimed, >99%(HPLC)  
 Formula :  $C_{57}H_{43}N_3Si_2$   
 M.W. : 826.14 g/mole  
 Tg : 108.21°C  
 HOMO : -6.90 eV  
 LUMO : -2.79 eV  
 Triplet Energy : 3.08 eV



### LT-N6001 | Cz-VPN

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

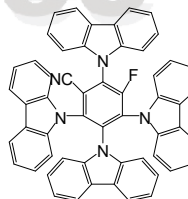
CAS No. : 1883400-30-3  
 Grade : Sublimed, > 99%  
 Formula :  $C_{58}H_{38}N_4$   
 M.W. : 790.97 g/mole  
 UV : 292, 325, 339 nm (in Toluene)  
 PL : 440 nm (in Toluene)  
 HOMO : -6.10 eV  
 LUMO : -2.90 eV  
 Triplet Energy : 2.72 eV



### LT-N6005 | 4CZFCN

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

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

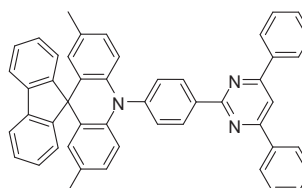


### LT-N6013 | MFAC-PPM

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  
 $\Delta$ EST : 0.25 eV

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



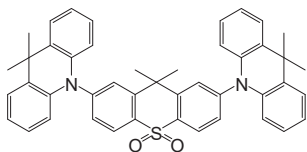
# Thermally Activated Delayed Fluorescence (TADF) OLED

## TADF Blue Dopant Materials

### LT-N6014 | DMTDAc

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

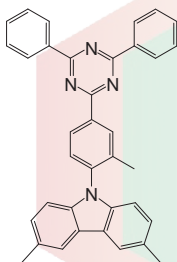
CAS No. : 1877288-52-2  
Grade : Sublimed, >99 % (HPLC)  
Formula :  $C_{45}H_{40}N_2O_2S$   
M.W. : 672.88 g/mole



### LT-N6016 | Cz-TRZ3

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

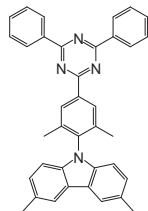
CAS No. : 2061376-83-6  
Grade : Sublimed, >99 % (HPLC)  
Formula :  $C_{36}H_{28}N_4$   
M.W. : 516.63 g/mole



### LT-N6017 | Cz-TRZ4

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

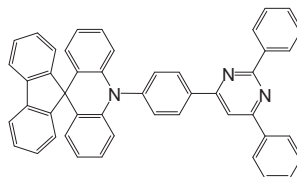
CAS No. : 2061376-84-7  
Grade : Sublimed, >99 % (HPLC)  
Formula :  $C_{37}H_{30}N_4$   
M.W. : 530.66 g/mole



### 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

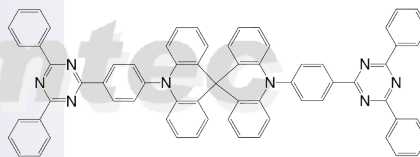


### LT-N6026 | TZ-SBA

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

CAS No. : 2107977-57-9  
Grade : Sublimed, >99 % (HPLC)  
Formula :  $C_{67}H_{44}N_8$   
HOMO : -5.73 eV  
LUMO : -2.92 eV  
 $\Delta$ EST : 0.05 eV

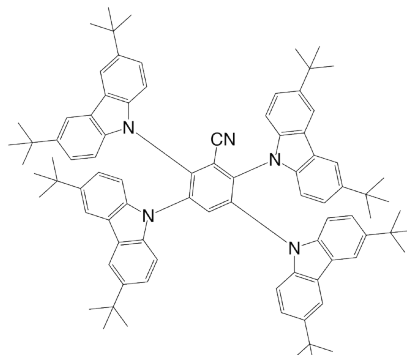
Reference: Chem. Mater. 2017, 29, 8630–8636



### LT-N6029 | 4TCzBN

2,3,5,6-Tetrakis[3,6-bis(1,1-dimethylethyl)-9H-carbazol-9-yl]benzotrile

CAS No. : 2055722-93-3  
Grade : Sublimed, >99 % (HPLC)  
Formula :  $C_{87}H_{97}N_5$   
M.W. : 1212.73 g/mole

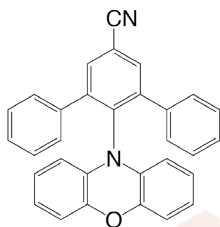


### LT-N6030 | mPTC

2'-(10H-phenoxazin-10-yl)-[1,1':3,1''-terphenyl]-5'-carbonitrile

CAS No. : 1948247-74-2  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{31}H_{20}N_2O$   
 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

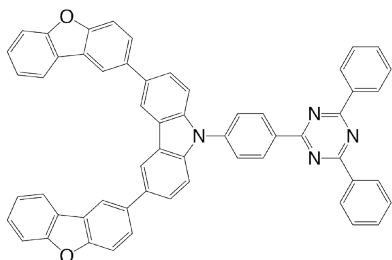


### LT-N6039 | BDBFCz-Trz

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

CAS No. : 1361094-87-2  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{47}H_{31}N_3$   
 M.W. : 806.91 g/mole  
 UV : 377 nm (in Toluene)  
 PL : 488 nm (device)  
 HOMO : -5.75 eV  
 LUMO : -2.75 eV  
 $\Delta$ EST : 0.2 eV

Reference: *J. Mater. Chem. C* 2019, 7, 4475–4483

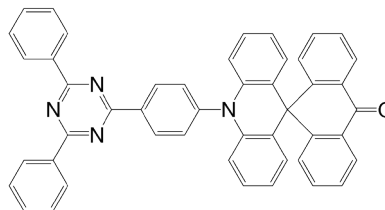


### LT-N6041 | TRZ-p-ACRSA

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

Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{47}H_{30}N_4O$   
 M.W. : 666.77 g/mole  
 UV : 270 nm (in Toluene 10-5M)  
 HOMO : -5.01 eV  
 LUMO : -2.20 eV

Reference: *Adv. Funct. Mater.* 2019, 28, 1808088

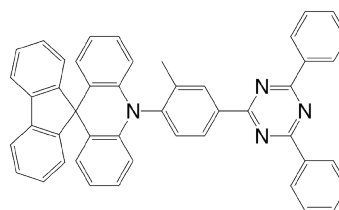


### LT-N6042 | TTSA

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

CAS No. : 2266577-89-1  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{47}H_{32}N_4$   
 M.W. : 652.78 g/mole  
 UV : 395 nm (in toluene)  
 PL : 481 nm (film)  
 HOMO : -5.74 eV  
 LUMO : -1.39 eV

Reference: *ACS Appl. Mater. Interfaces* 2019, 11, 7199–7207

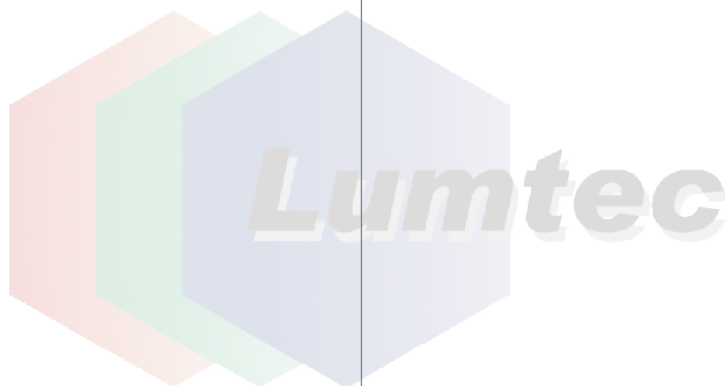
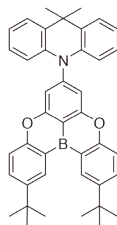


### LT-N6050 | TDBA-Ac

0-(2,12-di-tert-butyl-5,9-dioxa-13b-boranaphtho[3,2,1-de]anthracen-7-yl)-9,9-dimethyl-9,10-dihydroacridine

CAS No. : 2378498-82-7  
Grade : Sublimed, >99%(HPLC)  
Formula : C<sub>41</sub>H<sub>40</sub>BNO<sub>2</sub>  
M.W. : 589.57 g/mole  
UV : 283, 381 nm (Toluene)  
PL : 458 nm (Toluene)

Reference : *Nature Photonics*, volume 13, pages540–546(2019)

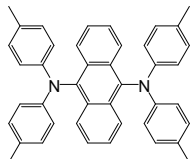


### LT-N507 | TTPA

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

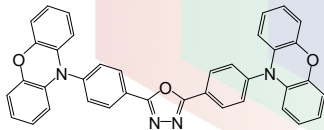


### LT-N528 | 2PXZ-OXD

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)  
 $\Delta$ EST : 0.57 eV  
 TGA : > 250 °C (0.5% weight loss)

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

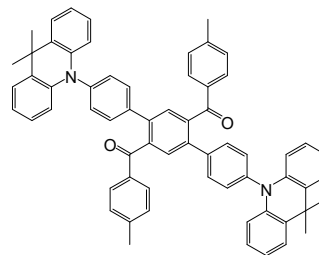


### LT-N538 | AcPmBPX

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)  
 $\Delta$ EST : 0.18 eV  
 TGA : > 250 °C (0.5% weight loss)

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

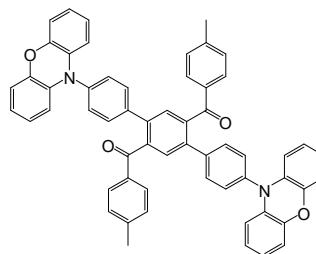


### LT-N540 | PxPmBPX

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)  
 $\Delta$ EST : 0.02 eV  
 TGA : > 250 °C (0.5% weight loss)

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



# Thermally Activated Delayed Fluorescence (TADF) OLED

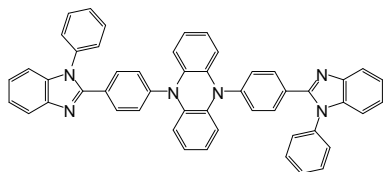
## TADF Green Dopant Materials

### 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  $CH_2Cl_2$ )  
 $\Delta$ EST : 0.83 eV  
TGA : > 250 °C (0.5% weight loss)

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

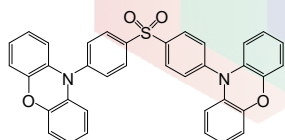


### LT-N545 | PXZ-DPS

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)  
 $\Delta$ EST : 0.08 eV  
TGA : > 220 °C (0.5% weight loss)

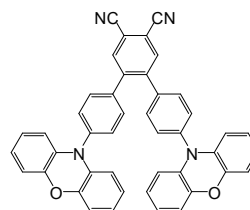
Reference : *Nature Photonics* 8, 326-332 (2014)



### LT-N552 | Px-VPN

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

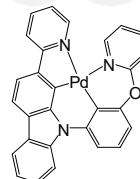
CAS No. : 1784766-39-7  
Grade : Sublimed, > 99%  
Formula :  $C_{44}H_{26}N_4O_2$   
M.W. : 624.7 g/mole  
UV : 304, 406 nm (in Toluene)  
PL : 577 nm (in Toluene)  
HOMO : -5.70 eV  
LUMO : -3.30 eV  
Triplet Energy : 2.56 eV



### LT-N554 | AcPmBPX

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

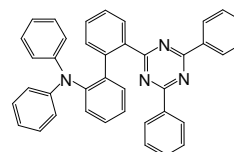
CAS No. : 1685288-56-5  
Grade : > 99%  
Formula :  $C_{28}H_{17}N_3OPd$   
M.W. : 517.87 g/mole



### 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 :  $C_{39}H_{28}N_4$   
M.W. : 552.67 g/mole

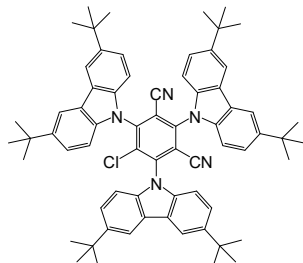




### LT-N557 | t3CzIPN

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

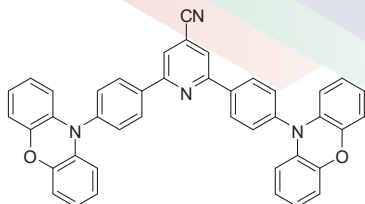


### LT-N563 | 26PXZINN

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  
 $\Delta$ EST : 0.06 eV

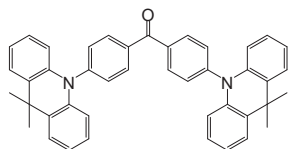
Reference : Chem. Asian J. 2017, 12, 648-654



### 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

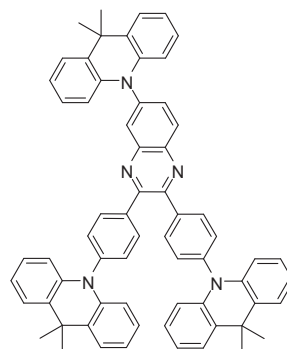


### LT-N566 | DBQ-3DMAc

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  
 $\Delta$ EST : 0.04 eV

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

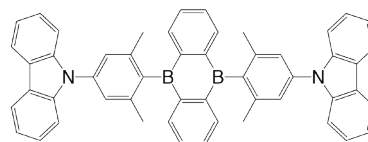


### LT-N569 | CzDBA

5,10-bis(4-(9H-carbazol-9-yl)-2,6-dimethylphenyl)-5,10-dihydroboranthrene

CAS No. : 2171334-43-1  
 Grade : Sublimed, > 99% (HPLC)  
 Formula :  $C_{52}H_{40}B_2N_2$   
 M.W. : 714.51 g/mole  
 UV : 342 nm (in Toluene)  
 PL : 524 nm (in CBP at 77K)  
 HOMO : -5.93 eV  
 LUMO : -3.45 eV

Reference : Nature Photonics 12, 235-240(2018)

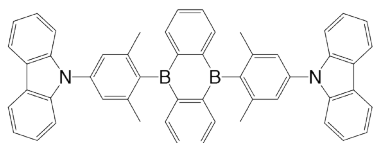


### LT-N571 | CzDBA

5,10-bis(4-(9H-carbazol-9-yl)-2,6-dimethylphenyl)-5,10-dihydroborantrhene

CAS No. : 2171334-43-1  
 Grade : Sublimed, >99% (HPLC)  
 Formula :  $C_{52}H_{40}B_2N_2$   
 M.W. : 714.51 g/mole  
 UV : 342 nm (in Toluene)  
 PL : 524 nm (in CBP at 77K)  
 HOMO : - 5.93eV  
 LUMO : -3.45 eV

Reference : *Nature Photonics* 12, 235-240(2018)

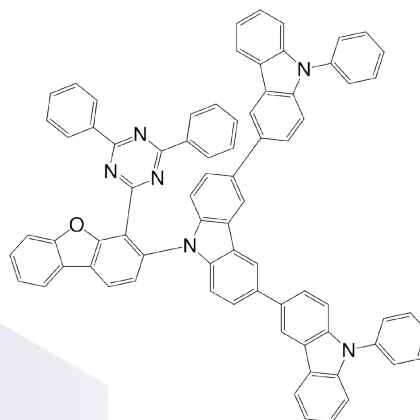


### LT-N574 | TCzTrzDBF

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

CAS No. : 2351848-35-4  
 Grade : Sublimed, >99 % (HPLC)  
 Formula :  $C_{75}H_{46}N_6O$   
 M.W. : 1047.21 g/mole  
 HOMO : -5.87 eV  
 LUMO : -3.43 eV

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

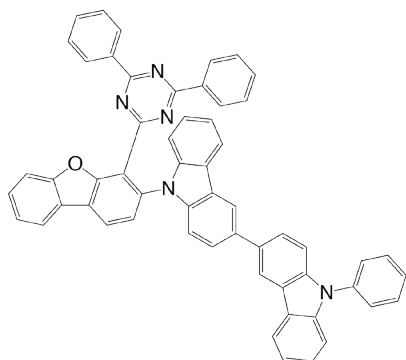


### LT-N573 | BCzTrzDBF

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



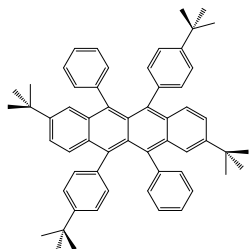
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### LT-N732 | TBRb

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

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

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

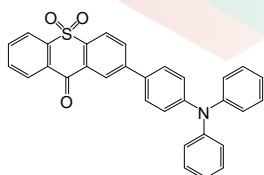


### LT-N775 | TXO-TPA

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

CAS No. : 1623010-63-8  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>31</sub>H<sub>21</sub>NO<sub>3</sub>S  
 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

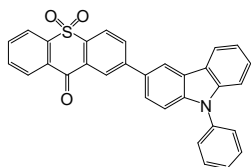


### LT-N776 | TXO-PhCz

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

CAS No. : 1623010-64-9  
 Grade : Sublimed, > 99% (HPLC)  
 Formula : C<sub>31</sub>H<sub>19</sub>NO<sub>3</sub>S  
 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)

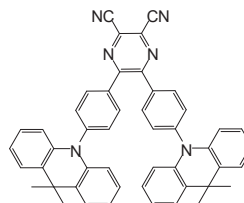
Reference : *Adv. Mater.* (2014), 26(30), 5198-5204



### LT-N793 | Ac-CNP

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

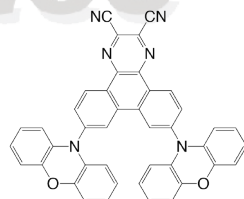
CAS No. : 1883400-34-7  
 Grade : Sublimed, >99%(HPLC)  
 Formula : C<sub>48</sub>H<sub>36</sub>N<sub>6</sub>  
 M.W. : 696.84 g/mole



### LT-N798 | PXZ-DCPP

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

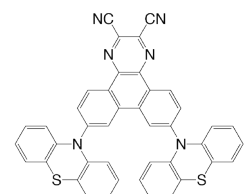
CAS No. : 1803288-00-7  
 Grade : Sublimed, >99 % (HPLC)  
 Formula : C<sub>42</sub>H<sub>22</sub>N<sub>6</sub>O<sub>2</sub>  
 M.W. : 642.66 g/mole  
 UV : 323, 372 nm (in Toluene)  
 PL : 533 nm (in Toluene)  
 HOMO : -5.19 eV  
 LUMO : -3.52 eV  
 Triplet Energy : 0.09 eV



### LT-N799 | PTZ-DCPP

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

CAS No. : 1803288-01-8  
 Grade : Sublimed, >99 % (HPLC)  
 Formula : C<sub>42</sub>H<sub>22</sub>N<sub>6</sub>S<sub>2</sub>  
 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 (9)

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

# Thermally Activated Delayed Fluorescence (TADF) OLED

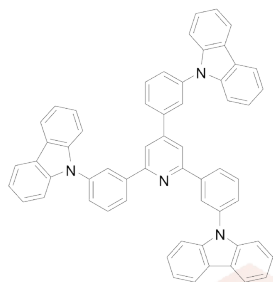
## TADF Red Dopant Materials

### 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 :  $C_{59}H_{38}N_4$   
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

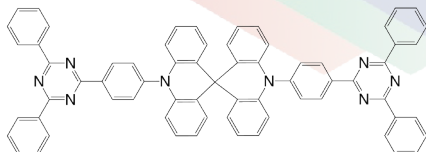
Reference : *J. Mater. Chem.*, 2012, 22, 3447-3456



### LT-N6029 | 4TCzBN

2,3,5,6-Tetrakis[3,6-bis(1,1-dimethylethyl)-9H-carbazol-9-yl]benzonitrile

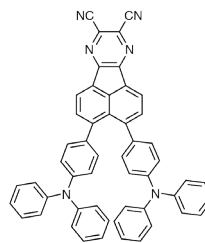
CAS No. : 2055722-93-3  
Grade : Sublimed, >99 % (HPLC)  
Formula :  $C_{87}H_{97}N_5$   
M.W. : 1212.73 g/mole



### LT-N7004 | APDC-DTPA

...  
CAS No. : 2102527-13-7  
Grade : Sublimed, >99%(HPLC)  
Formula :  $C_{52}H_{32}N_6$   
M.W. : 740.85 g/mole  
PL : 687, 756 nm(film)  
HOMO : -5.27 eV  
LUMO : -3.45 eV

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



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