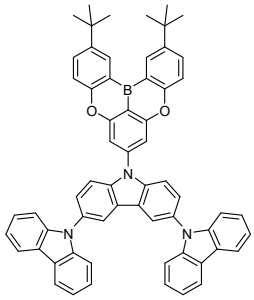
Lumtec Luminescence Technology Corp.

Color-Tunable Boron-Based Emitters Exhibiting Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence for Efficient Solution-Processable Nondoped Deep-Blue to Sky-Blue OLEDs

Product Specifications

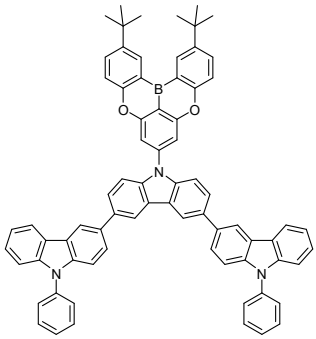
LT-N6058 TB-3Cz

Grade	Sublimed,>99%(HPLC)
Formula	$C_{62}H_{48}BN_3O_2$
M.W.	877.87 g/mole
PL	433 nm(film)
HOMO/LUMO	-5.15/-1.93 eV
△EST	0.064 eV



LT- N6057 TB-P3Cz

CAS No.	1802013-83-7
Grade	Sublimed,>99%(HPLC)
Formula	$C_{74}H_{56}BN_3O_2$
M.W.	1030.07 g/mole
PL	460 nm (film)
HOMO/LUMO	-4.88/-1.72 eV
△EST	0.113 eV



Reference: Adv. Optical Mater. 2020, 1902175

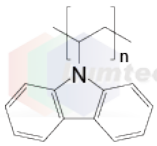
Features

- The solution-processable OLEDs fabricated using these new materials as nondoped emitters(TB-3Cz) in the emissive layer exhibit a EQE and CIE color coordinates of 9.90% and (0.17, 0.07), respectively.
- And for TB-P3Cz, it's 6.13% and (0.15, 0.08), respectively,

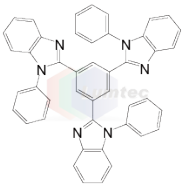
Device Application

Device: ITO/ PEDOT:PSS/ PVK/ nondoped emitter (TB-3Cz or TB-P3Cz)/ TPBi/ LiF /Al

Related products from Lumtec:



LT- N4078 PVK



LT-E302 TPBi

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

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