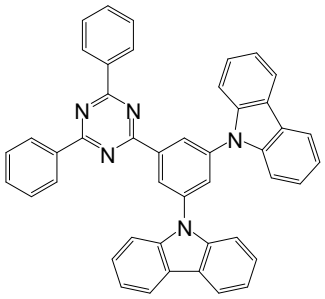
Stable Blue TADF Emitters for High Efficiency and Long Lifetime

Product Specifications

LT-N689 DCzTrz

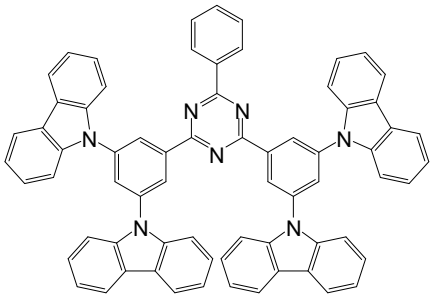
CAS No.	1106730-48-6
Grade	> 99% (HPLC)
Formula	$C_{45}H_{29}N_5$
Molecular Weight	639.75g/mole
Absorption	377 nm (in toluene)
Photoluminenscence	409 nm (in toluene)



LT-N690 DDCzTrz

CAS No.	1685282-47-6
Grade	> 99% (HPLC)
Formula	$C_{69}H_{43}N_7$
Molecular Weight	970.13 g/mole
Absorption	337 nm (in toluene)
Photoluminenscence	461 nm (in toluene)

Reference : J. Am. Chem. Soc. 2014, 136, 7837-7840



Features

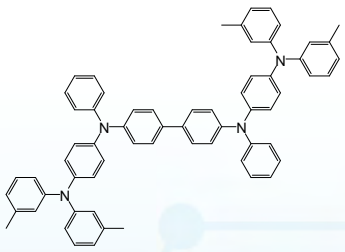
- DDCzTrz was efficient as a blue TADF emitter and could show high maximum quantum efficiency of 18.9% and lifetime of 52 h up to 80% of initial luminanceat 500 cdm $^{-2}$.
- The DCzTrz and DDCzTrz devices, color coordinates of each device at 15% doping concentration were (0.15, 0.14) and (0.16, 0.22).

Device Application

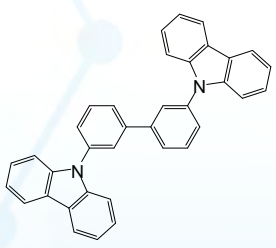
The Best Device :

ITO (120 nm)/DNTPD(60 nm)/HTL(30 nm)/30wt% DDCzTrz : mCBP(25 nm)/LG201(35 nm)/LiF(1 nm)/Al(200 nm).

Related products from Lumtec :



LT-N220 DNTPD



LT-N4069 mCBP

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