Lumtec Luminescence Technology Corp.

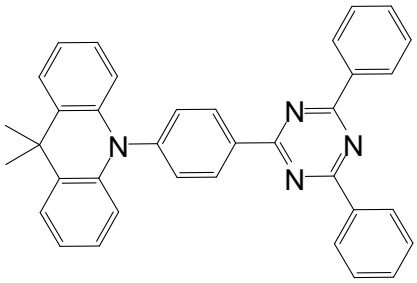
A versatile thermally activated delayed fluorescence emitter for both highly efficient doped and non-doped organic light emitting devices

Product Specifications

LT-N699 DMAC-TRZ

CAS No.	1628752-98-6
Grade	Sublimed, > 99% (HPLC)
Formula	$C_{36}H_{28}N_4$
Molecular Weight	516.63 g/mole
Absorption	390 nm(in Toluene)
Photoluminenscence	425 nm(in Toluene)
HOMO/LUMO	-5.30 eV/-2.78 eV

Reference : Chem. Commun., 2015, 51, 13662-13665



Features

- The emitter as the emitting dopant in a host or as the non-doped emitting layer achieves high EL EQEs of up to 26.5% and 20% in OLEDs.
- The emitter not only shows high PLQY (≥90%) in doped film but also possesses low concentration quenching and high PLQY (83%) in neat film.
- It's versatile for application in different device configurations for achieving high efficiency, device simplification, and cost reduction.

Device Application

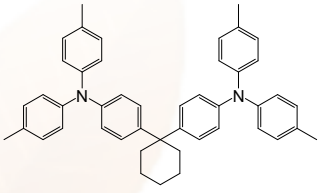
The doped Device :

ITO anode/ PEDOT: PSS (70 nm)/ TAPC (15 nm)/ MCP (5 nm)/ mCPCN:DMAC-TRZ 8 wt% (20 nm)/ DPPS (5 nm)/ 3TPYMB (45 nm)/ LiF (0.5 nm)/ Al (150 nm).

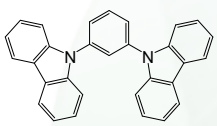
The non-doped Device :

ITO anode/ PEDOT: PSS (70 nm)/ TAPC (10 nm)/ MCP (10 nm)/ DMAC-TRZ (20 nm)/ DPPS (5 nm)/ 3TPYMB (45 nm)/ LiF (0.5 nm)/ Al (150 nm).

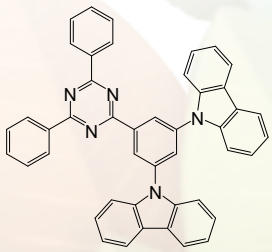
Related products from Lumtec :



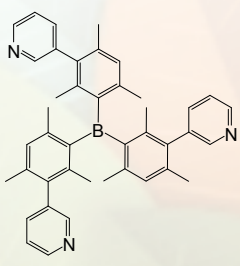
LT-N137 TAPC



LT-E107 MCP



LT-N689 DPPS



LT-N856 3TPYMB

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