

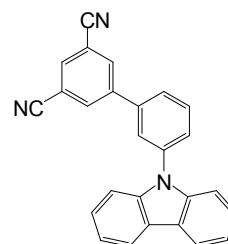


Systematic Control of Photophysical Properties of Host Materials For Quantum Efficiency above 25% in Green Thermally Activated Delayed Fluorescent Devices

Product Specifications

LT-N4105 mCzB-2CN

CAS No.	1646323-60-5
Grade	Sublimed, > 99% (HPLC)
Formula	$C_{26}H_{15}N_3$
Molecular Weight	369.42 g/mole
Absorption	330 nm (in CH_2Cl_2)
Photoluminescence	450 nm (in CH_2Cl_2)
HOMO/LUMO	-6.35/-1.89 eV



Features

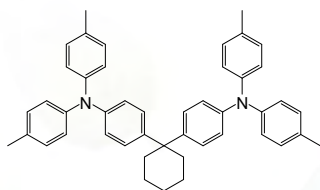
- mCzB-2CN was as an host material of the green thermally activated delayed fluorescent device.
- The best device show the maximum quantum yield was 26%, maximum power efficiencies was 71.7%. And electroluminescence (EL) spectra of the device was 508 nm.

Device Application

The Best Device :

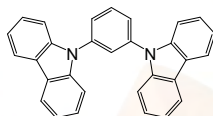
ITO/PEDOT:PSS (60 nm)/TAPC(20 nm)/mCP(10 nm)/pCzB-2CN:4CzIPN(5%)(25 nm)/TSPO1(35 nm)/LiF(1 nm)/Al(200 nm)
Related products from Lumtec :

PEDOT:PSS

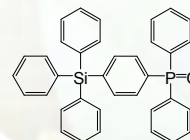


LT-PS001

LT-N137 TAPC



LT-E107 mCP



LT-N4048 TSPO1

LiF

LT-E001 LiF