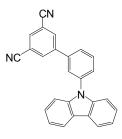
Lumtec Luminescence Technology Corp.

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 ₂ Cl ₂)
Photoluminenscence	450 nm (in CH ₂ Cl ₂)
HOMO/LUMO	-6.35/-1.89 eV



Features

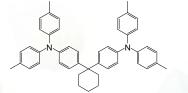
- mCzB-2CN was as an host material of the green thermally activated delayed fluorescent device.
- The best device show the maximum quantum yield was 26%, maximum power efficiencies was 71.7%. And electroluminescence (EL) spectra of the device was 508 nm.

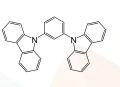
Device Application

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)/AI(200 nm) Related products from Lumtec :

PEDOT:PSS







LiF

LT-PS001

LT-N137 TAPC

LT-E107 mCP

LT-N4048 TSPO1

LT-E001 LiF

Our products are used for testing and research purpose; they are not guaranteed in patent contention by customer use. Address: 2F, No. 17, R&D Road II, Science-Based Industrial Park, Hsin-Chu 30076, Taiwan, R.O.C., TEL: +886-3-666-3188, FAX: +886-3-666-9288. E-mail : sales@lumtec.com.tw ; Web : http://www.lumtec.com.tw