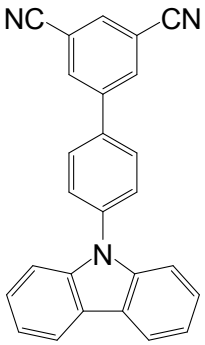
Lumtec Luminescence Technology Corp.

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

Product Specifications

LT-N4104 pCzB-2CN



CAS No.	1646323-59-2
Grade	Sublimed, > 99% (HPLC)
Formula	$C_{26}H_{15}N_3$
Molecular Weight	369.42 g/mole
Absorption	330 nm (in CH_2Cl_2)
Photoluminenscence	450 nm (in CH_2Cl_2)
HOMO/LUMO	-6.35/-1.89 eV

Features

- pCzB-2CN was as an host material of the green thermally activated delayed fluorescent device.
- The best device show the maximum quantum yield was 22.9% at 6 cd/m^2, 19.9% at 1000 cd/m^2, and maximum power efficiencies was 64.4%. Moreover, electroluminescence (EL) spectra of the device was 510 nm.

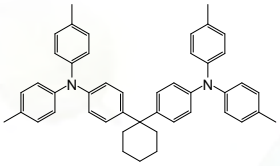
Device Application

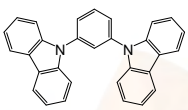
The Best Device :

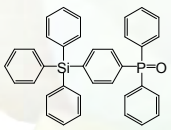
ITO/PEDOT:PSS (60 nm)/TAPC(20 nm)/mCP(10 nm)/pCzB-2CN:4CzIPN(5%)(25 nm)/TSPO1(35 nm)/LiF(1 nm)/Al(200 nm)

Related products from Lumtec :

PEDOT:PSS







LiF

LT-PS001 PEDOT:PSS | LT-N137 TAPC | LT-E107 mCP | LT-N4048 TSPO1 | LT-E001 LiF

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