



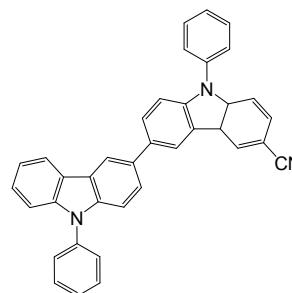
Bipolar Host Materials for High Efficiency Phosphorescent Organic Light Emitting Diodes

Product Specifications

LT-N4088 BCzSCN

CAS No.	1462896-48-5
Formula	$C_{37}H_{25}N_3$
Grade	Sublimed, > 99% (HPLC)
Molecular Weight	511.61 g/mole
Absorption	250, 301 nm (in CH_2Cl_2)
Photoluminescence	414 nm (in CH_2Cl_2)

Reference : J. Mater. Chem. C, 2013, 1, 8177



Features

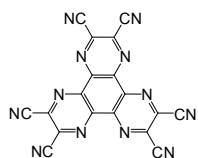
- Tuning the HOMO/LUMO levels without reducing the triplet energy in a linear system.
- BCzSCN shows high triplet energies of over 2.75 eV and could be developed for application in blue PHOLEDs, and further for white PHOLEDs.
- Blue PHOLEDs containing BCzSCN as the host and FlrPic as a dopant exhibited excellent performance, with maximum EQE of 19.3%.
- All-phosphor near-white devices hosted by BCzSCN was also fabricated, and high EQE of 22.0%.

Device Application

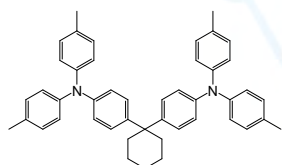
Best Device :

ITO/HAT-CN(10 nm)/TAPC(45 nm)/BCzSCN : FlrPic : PO-01(8 wt%, 0.5 wt%, 20 nm)/TmPyPB(50 nm)/Liq(2 nm)/Al(120 nm)

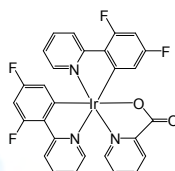
Related products from Lumtec :



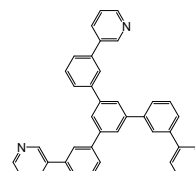
LT-N221 HAT-CN



LT-N137 TAPC



LT-E607 FlrPic



LT-N863 TmPyPB



LT-E301 Liq