



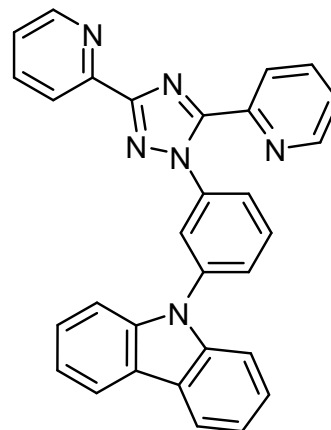
Phenylcarbazole-dipyridyl triazole hybrid as bipolar host material for phosphorescent OLEDs

Product Specifications

LT-N4099 m-cbtz

CAS No.	1361953-33-4
Grade	Sublimed, > 99% (HPLC)
Formula	$C_{30}H_{20}N_6$
Molecular Weight	564.52 g/mole
Absorption	286, 329, 342 nm (film)
Photoluminescence	422 nm (film)
HOMO/LUMO	5.68 eV/2.15 eV

Reference : J. Mater. Chem., 2012, 22, 5410–5418



Features

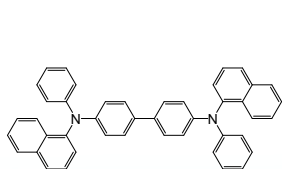
- Bipolar host materials m-cbtz with relatively high triplet energy gaps $E_T=2.75$ eV.
- The devices hosted by m-cbtz achieve maximum external quantum efficiencies of 8.8% for blue, 16.7% for green, 17.5% for yellow and 16.7% for red-emitting OLEDs.
- Dual-emitter WOLEDs with a co-doped single emissive layer that exhibit satisfactory device efficiencies EQE=12 %.

Device Application

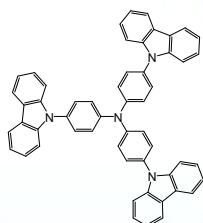
The Best Blue Device :

ITO/PEDOT:PSS(30 nm)/NPB(25 nm)/TcTa(5 nm)/m-cbtz: FlrPic(10 wt%, 25 nm)/DPPS(5 nm)/TAZ(45 nm)/LiF(0.5 nm)/Al(100 nm)

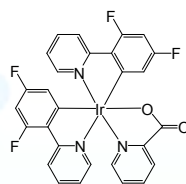
Related products from Lumtec :



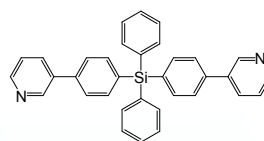
LT-E101 NPB



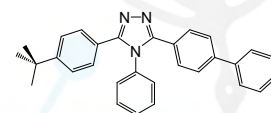
LT- E207 TcTa



LT-E607 FlrPic



LT-N869 DPPS



LT-N836 TAZ