



Luminescence Technology Corp.

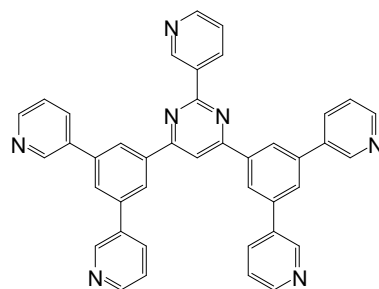
Hybrid Heterocycle-Containing Electron-Transport Materials for Highly Efficient Phosphorescent OLEDs with Unprecedented Low Operating Voltage

Product Specifications

LT-N890 B3PYPPM

CAS No.	1382639-67-9
Grade	Sublimed, > 99% (NMR)
Formula	$C_{41}H_{27}N_7$
Molecular Weight	617.7 g/mole
Absorption	255 nm (in CH_2Cl_2)
HOMO/LUMO	6.57 / 3.10 eV

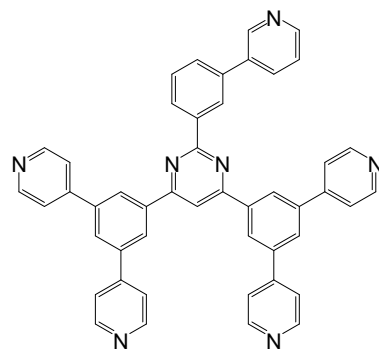
Reference : *Chemistry of Materials* (2012), 24(20), 3817-3827



LT-N891 B4PYPPyPM

CAS No.	1382639-70-4
Grade	Sublimed, > 99% (NMR)
Formula	$C_{47}H_{31}N_7$
Molecular Weight	693.8 g/mole
Absorption	255 nm (in CH_2Cl_2)
HOMO/LUMO	6.62 / 3.17 eV

Reference : *Chemistry of Materials* (2012), 24(20), 3817-3827



Features

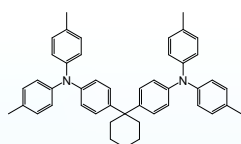
- B3PYPPM shows the lowest operating voltages of 2.49, 2.97V for 100, 1000 $cd\ m^{-2}$ were achieved efficiency: PE of 129, 100 $lm\ W^{-1}$; CE of 102, 94.9 cdA^{-1} ; EQE of 28.5, 26.4%.
- B4PYPPyPM shows the lowest operating voltages of 2.39, 2.72V for 100, 1000 $cd\ m^{-2}$ were achieved efficiency: PE of 128, 103 $lm\ W^{-1}$; CE of 97.0, 89.0 cdA^{-1} ; EQE of 26.9, 24.6%.

Device Application

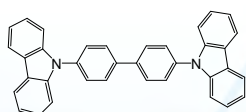
The Best Device :

ITO/TPDPES(20 nm)/TAPC(30 nm)/CBP: 8wt% Ir(PPy)3(10nm)/B3PYPPM or B4PYPPyPM(50 nm)/LiF(0.5 nm)/Al(100 nm)

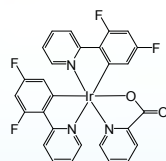
Related products from Lumtec :



LT-N137 TAPC



LT-E409 CBP



LT-E607 Ir(PPy)3

LiF

LT-E001 LiF

Al

LT-E005 Al