Lumtec Luminescence Technology Corp.

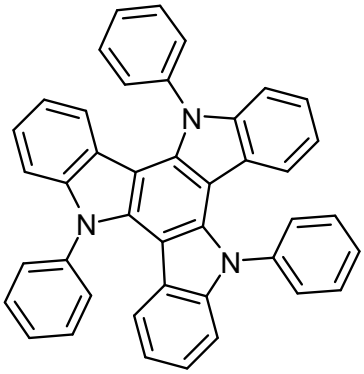
High Hole Mobility Hole Transport Material for Organic Light-Emittingdevices

Product Specifications

LT-S9156 TPDI

CAS No.	879713-04-9
Grade	Sublimed, > 99%(HPLC)
Formula	$C_{42}H_{27}N_3$
Molecular Weight	573.68 g/mole
Absorption	315 nm (in Chlorobenzene)
Photoluminenscence	390 nm (in Chlorobenzene)
HOMO/LUMO	5.3 eV/1.9 eV

Reference : Synthetic Metals 180 (2013) 79–84



Features

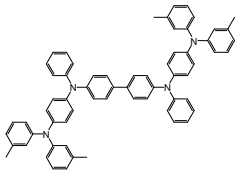
- Blue OLEDs containing TPDI as a HTL exhibit about 1.0 V voltage reduction and 18% external quantum efficiency (EQE).
- In the green phosphorescent OLEDs, the driving voltage improves about 1.8 V and EQE increases about 65%.

Device Application

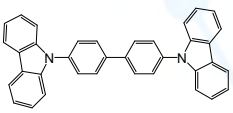
The Best Device :

ITO/DNTPD(50 nm)/TPDI(20 nm)/7wt% $Ir(ppy)_3$:CBP(40 nm)/TmPyPB(10 nm)/LiF(1 nm)/Al(100 nm)

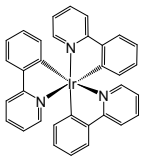
Related products from Lumtec :



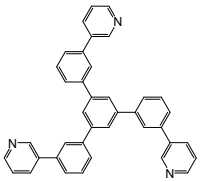
LT-N220 DNTPD



LT-E409 CBP



LT-E504 $Ir(ppy)_3$



LT-N863 TmPyPB

LiF

LT-E001 LiF

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