

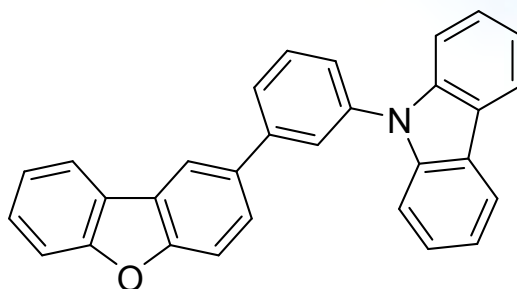


High Efficiency Solution Processed Blue Host Material for Phosphorescent Organic Light Emitting Diodes

Product Specifications

LT-N4061 CzDBF

Formula	$C_{30}H_{19}NO$
Molecular Weight	409.48 g/mole
Absorption	339 nm
Emission	365 nm
HOMO (eV)	-5.9 eV
LUMO (eV)	-2.42 eV
E_T (eV)	2.82 eV



Reference : *Organic Electronics* 14 (2013) 1009–1014

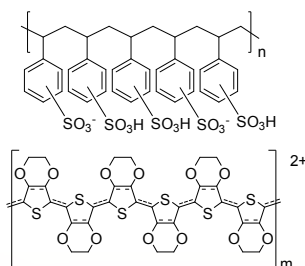
Features

- An asymmetric carbazole–dibenzofuran hybrid host material, 9-(3-(dibenzo[b,d]furan-2-yl)-phenyl)-9H-carbazole (CzDBF), was synthesized as a host material for solution processed blue PHOLEDs.
- The quantum efficiency of blue PHOLEDs was high in the CzDBF device with a maximum quantum efficiency of 23.9%, and a quantum efficiency at 1000 cd/m² of 18.9%. The color coordinate of CzDBF blue PHOLEDs was (0.15, 0.30).

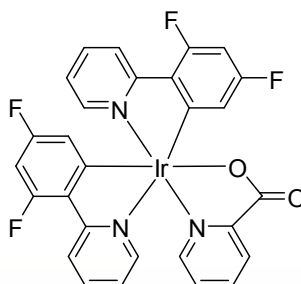
Device Application

ITO/PEDOT:PSS(60 nm)/PVK(15 nm)/CzDBF:Flrpic (20 nm, 5%)/TSP01(30 nm)/LiF(1 nm)/Al

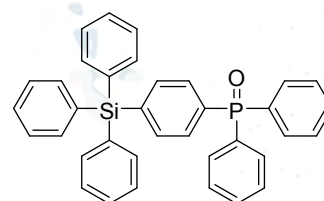
Related products from Lumtec :



LT-N220 DNTPD



LT-E607 Flrpic



LT-N4048 TSP01