



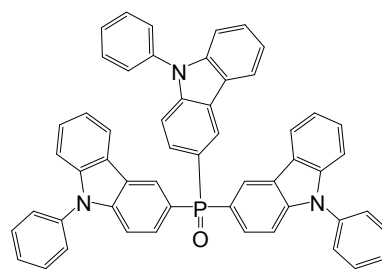
## A new tricarbazole phosphine oxide bipolar host for efficient blue PhOLED

### Product Specifications

#### LT-N4107 POCz3

<b>CAS No.</b>	1392204-91-9
<b>Grade</b>	Sublimed, >99% (HPLC)
<b>Formula</b>	C <sub>54</sub> H <sub>36</sub> N <sub>3</sub> OP
<b>M.W.</b>	773.86 g/mole
<b>UV-abs</b>	260 nm (in CH <sub>2</sub> Cl <sub>2</sub> )
<b>PL</b>	351 nm (in CH <sub>2</sub> Cl <sub>2</sub> )
<b>HOMO/LUMO</b>	-5.5eV / -1.8eV
<b>Tg</b>	163 °C
<b>TGA</b>	> 300 °C (0.5% weight loss)

Reference : 1. Dalton Transactions (2015), 44(33), 14613-14624  
2. Organic Electronics (2011), 12(12), 2025-2032



### Features

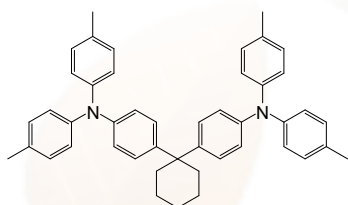
- A novel tricarbazole phosphine oxide (POCz3) with high triplet energy and promising physical properties serves as a bipolar host material of blue-emitting phosphor (FlrPic).
- In a three-layer device with a double confinement effect exhibiting maximum luminance 60098 cd/m<sup>2</sup> and maximum EQE (power efficiency) of 14.5%(31.3 lm/W).

### Device Application

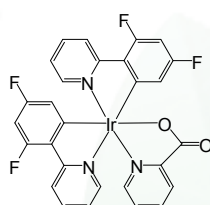
#### The Best Device :

ITO/TAPC (40 nm)/POCz3:FlrPic 8.0wt% (25 nm)/POCz3 (5 nm)/TmPyPB (50 nm)/LiF (0.8 nm)/Al

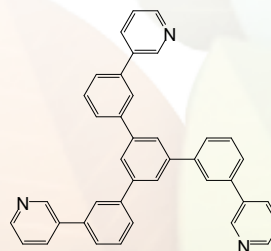
Related products from Lumtec :



LT-N137 TAPC



LT-E607 FlrPic



LT-N863 TmPyPB

LiF

LT-E001 LiF