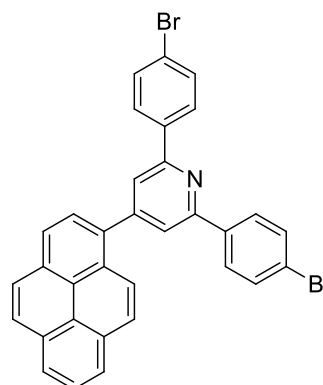


Functional Pyrene-Pyridine-Integrated Hole-Transporting Materials for Solution-Processed OLEDs with Reduced Efficiency Roll-Off

Product Specifications

LT-N1009 Py-Br	
Grade	Sublimed, >99%
Formula	C ₃₃ H ₁₉ Br ₂ N
UV	242,280,344 nm (DCM)
PL	412 nm (DCM)
HOMO/LUMO	-5.65/-2.39 eV
M.W.	589.32 g/mole



*Reference: *ACS Omega*. 2021, 6, 10515–10526.

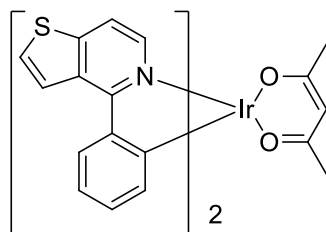
Features

- Py-Br showed high triplet energy, high thermal stability, suitable molecular energy levels, good solubility in most of the organic solvents, and suitable ionization potential to make them a good hole transporter.
- The device with Py-Br as HTM showed a **maximum luminance of 17300 cd/m²** with a **maximum current efficiency of 22.4 cd/A** and an **EQE of 9% at 3500 cd/m²** with 7% roll-off from 1000 to 10000 cd/m², the Py-Br based devices demonstrated stable performance with low-efficiency roll-off.

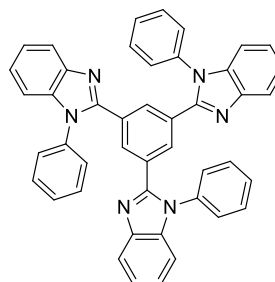
Device Application

Device: ITO / PEDOT:PSS / Py-Br /12.5 wt% PO-01 : CBP / TPBi / LiF / Al

Related products from Lumtec:



LT-N748 PO-01



LT-E302 TPBi

